# Morbidity and Mortality

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WEEKLY
REPORT

For
Week Ending

March 8, 1969

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 FATAL CASE OF MYIASIS AND A CASE OF CUTANEOUS MYIASIS Texas and Oklahoma

Recently two unassociated cases of myiasis were reported to the NCDC.

Case 1: On Nov. 3, 1968, a 41-year-old Mexican-American agricultural worker was admitted to a hospital in San Antonio for severe, continuous nosebleeds of 5 days duration accompanied by weakness and difficulty breathing. The patient reported a weight loss of approximately 50 lbs. during the previous 12 months. On examination, her temperature was 101°F, pulse 128, and respiration 22. Her nose, maxillary, ethmoidal, and sphenoidal sinuses, soft and hard palates, and tonsillar fossae were infested with screwworms. Scattered rales were heard in her lungs.

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Her hematocrit was 40 percent and WBC was 21,000 with 93 percent polymorphonuclear leukocytes. Urine glucose and acetone were 4+, blood glucose 445 mgm percent, and blood urea nitrogen 54 mgm percent.

After boric acid and chloroform were applied locally, approximately 200 screwworms were removed from her nose, (Continued on page 78)

## TABLE 1. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES (Cumulative totals include revised and delayed reports through previous weeks)

-mile will be equipment to	10th WEE	EK ENDED	MEDIAN	CUMULA	rive, firs	ST 10 WEEKS
DISEASE	March 8, 1969	March 9, 1968	1964 - 1968	1969	1968	MEDIAN 1964 - 1968
Aseptic meningitis	25	28	28	293	266	267
Brucellosis	) — —	2	5	16	10	37
Diphtheria	25 mm	1 1 1 1 1 1	3	22	28	28
Encephalitis, primary:	2	6.00	The state of the s	Name of Street	111/11/2008	BESTER FOR
Arthropod-borne & unspecified	22	16	22	198	149	227
Encephalitis, post-infectious	2	12	14	40	85	106
Hepatitis, serum	101	85	1	977	664	1 0.00
Hepatitis, infectious	990	951	901	8,751	8,176	8,187
Malaria	25	54	4	447	465	52
Measles (rubeola)	557	710	8,897	4,335	5,555	65,953
Meningococcal infections, total	77	91	91	778	808	808
Civilian	69	77		735	736	
Military	8	14	115	43	72	"
Mumps	2,388	7,220	A CONTRACTOR	22,223	50,167	
Poliomyelitis, total		1		1	8	2
Paralytic	69	5		1	8	2
Rubella (German measles)	1,535	1,336	light that the second the	7,632	8,230	II estati
Streptococcal sore throat & scarlet fever		12,936	12,936	113,579	115,123	112,127
Tetanus	2	5	2	17	20	29
Tularemia	i	- P(C_1/2)	3	22	15	42
Typhoid fever	3	8	8	39	38	55
Typhus, tick-borne (Rky. Mt. spotted fever) .			_	1	3	6
Rabies in animals	73	93	88	665	741	741

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

PRODUCTION COME TO SERVER AN ARTHUR	Cum.	to the series again but makedy authorized at	Cum.
Anthrax: Botulism: Leptospirosis: Plague: Psittacosis:	1 9 -	Rabies in man: Rubella congenital syndrome: Trichinosis: N.J 1, Va 1 Typhus, murine:	1 15

MYIASIS - (Continued from front page)

sinuses, and mouth. Screwworms continued to be expelled for several days. On November 5, the patient had difficulty swallowing and breathing and expectorated bloody mucous and screwworms. She developed nuchal rigidity, fever, and drowsiness, and chest X-rays showed infiltrates in the right lung field. She was given broad spectrum antibiotic therapy, but for the next 3 days, continued to decline. Her lung infiltrates progressed to involve almost the entire right lung and portions of the left lung. She died on November 8. During this period, urine glucose and acetone ranged between 0 and 1+.

At autopsy, screwworms were found in the frontal and ethmoidal sinuses and single worms were found in the esophagus and stomach. The walls of the nose and paranasal sinuses were necrotic and the respiratory epithelium was destroyed. There were two ulcerations of the palate and inflammation of the tracheal and esophageal mucosa. The lungs had severe bilateral bronchial and lobar involvement with necrosis and fibrinopurulent exudates. There was a 3 cm area of fibrosis with central /caseous necrosis and multinucleated giant cells in the left apex. Tubercular organisms were not identified. Screwworms were not found in the lungs. The brain and meninges were normal, and there was no evidence that screwworms had migrated to the brain from the paranasal sinuses. The screwworms were identified as the larvae of Cochliomyia hominivorax, a blowfly commonly found in the Southwestern United States and in tropical areas of the western hemisphere.

Case 2: On Dec. 26, 1968, a 7-year-old boy from Cherokee, Oklahoma, was admitted to a hospital with subcutaneous swelling in the right inguinal area. His WBC was 12,700 with 46 percent eosinophils. Examination of stools for ova and parasites was negative. An excisional biopsy of the mass revealed the presence of a single screwworm surrounded by inflammatory tissue.

One month later, the boy's mother removed another screwworm from behind his left ear. This larva appeared to have migrated from his anterior scalp by a subcutaneous tract to behind the left ear. Both specimens were second stage larvae and could not be identified as to species. (Reported by M. S. Dickerson, M.D., Director, Communicable Disease Division, Texas State Department of Health; T. Christian, M.D., San Antonio; R. LeRoy Carpenter, M.D., Director, Division of Epidemiology, Oklahoma State Department of Health; C. R. Reinstein, M.D., Director, Garfield County Health Department; and two EIS Officers.)

#### Editorial Comment:

Myiasis is the infestation of living tissues of man and other mammals by dipterous larvae, commonly termed screwworms or maggots. Infestations can be cutaneous, intestinal or atrial (oral, nasal, ocular, sinusal, vaginal, and urethral cavities) and commonly occur in wounds. The larvae can penetrate and destroy healthy tissue, including cartilage, and can invade the brain through the middle ear. 1 The larvae of numerous species of flies can cause myiasis. In the United States, Cochliomyia hominivorax is responsible for approximately 90 percent of screwworm infestations of wounds of mammals, especially cattle.2 In 1968, the Mission Screwworm Eradication Program Laboratory in Texas reported 9,268 screwworm infections in animals in Texas which is approximately 10 times the incidence in 1967.

In the first case, it is possible that the patient's unrecognized and uncontrolled diabetes, perhaps through decreased sensory perception and poor defense mechanisms against infections, allowed this large infestation to progress unnoticed until the time of hemorrhage and ulceration.

#### References:

Belding, D. L.: Texibook of Parasitology, 3rd edition, Appleton-Century-Crofts, New York: 912-928, 1965.

<sup>2</sup>Knipling, E. F.: A Key for Blowfly Larvae Concerned in Wound and Cutaneous Mylasis. Ann Entom. Soc. Amer., 32:376, 1939.

#### SURVEILLANCE SUMMARY NEW ACTIVE CASES OF TUBERCULOSIS - United States 1968\*

During 1968, 42,758 new active cases of tuberculosis were reported in the United States for a new active case rate of 21.4 cases per 100,000 population (Table 1). This provisional total suggests that the final total of new active cases for 1968 will be approximately 6 percent lower than the total for 1967. The greater part of this reduction occurred outside the metropolitan areas. The decrease in metropolitan counties and large cities was 4 percent (688 cases) while the decrease in the rest of the country was 8 percent (2,201 cases).

In 42 states the 1968 provisional case rates were lower than the final 1967 rates, in five states the rates

were higher, and in three states there was no change. The case rates for the states ranged from a high of 40.4 in Alaska to a low of 4.3 in Iowa.

The provisional data for Puerto Rico also indicate a decrease in new active cases in 1968 from the final total in 1967.

(Reported by the Tuberculosis Branch, Division of State and Community Services, NCDC.)

<sup>\*</sup>Provisional data

New Active Tuberculosis Cases and Case Rates — United States, 1967 and 1968

Chaha	1967 Prov	VISIONAL	1967 I	inal	1968 Prov	isional
State	Number	Rate*	Number	Rate*	Number	Rate
U.S. Total	45,441	23.0	45,647	23.1	42,758	21.
Continental United States	44,981	22.9	45,189	23.0	42,346	21.
Alabama	1,515	42.8	1,379	38.9	1,338	37.
Alaska	107	39.3	110	40.4	112	40.
Arizona	436	26.7	436	26.5	471	28.
Arkansas	498	25.3	497	24.9	564	28.
California	4,228	22.1	4,171	22.1	3,754	19.
Colorado	239	12.1	256	12.7	232(a)	11.
Connecticut	418	14.3	411	14.1	368	12
Delaware	127	24.3	122	23.3	100	18
District of Columbia	477	59.0	423	52.4	420	51
Florida	1,601	26.7	1,601	26.5	1,620	26
eorgia	1,110	24.6	1,223	27.1	1,074	23
lawaii	353	47.8	348	45.7	300	38
daho	55	7.9	55	7.8	63	8
llinois	3,049	28.0	2,999	27.6	3,006	27
ndiana	1,033	20.7	1,069	21.3	1,006	19
owa	160	5.8	150	5.5	118	4
Kansas	219	9.6	223	9.8	226	9
Centucky	1,086	34.1	1,071	33.4	1,037	32
Louisiana	912	24.9	966	26.3	910	24
faine	120	12.3	120	12.2	100	10
faryland	1,177	32.0	1,187	32.2	1,118	29
lassachusetts	910	16.8	910	16.8	908	16
lichigan	1,923	22.4	1,930	22.4	1,816	20
linnesota	376	10.5	394	10.9	300	8
fississippi	604	25.7	616	26.3	548	23
lissouri	888	19.3	882	19.2	815	17
Iontana	87	12.4	109	15.6	102	14
lebraska	128	8.9	121	8.4	120	8
Vedraska Vevada	152	34.2	147	33.4	93	20
	42	6.1	44	6.4	43	6
lew Hampshire		20.7		20.9	1,327	18
Vew Jersey Vew Mexico	1,448 248	24.7	1,455 248	24.5	193	19
		27.4		28.2	4,750	26
lew York	5,030	The second secon	5,069	24.6	1,222	23
North Carolina	1,255	25.0	1,247	7.8	45	7
North Dakota	51	8.0	ACCUMULATION VIEW			11
Juio	1,525	14.6	1,548	14.7	1,258	17
Oklahoma	410	16.4	442	17.6	437	14
Oregon	322	16.1	322	16.3	290	20
Pennsylvania	2,716	23.4	2,736	23.4	2,429	
Rhode Island	148	16.4	148	16.5	121	13
outh Carolina	688	26.5	716	26.9	645	24
South Dakota	128	19.0	119	17.8	104	15
Cennessee	1,223	31.4	1,199	30.4	1,104	27
Texas	3,195	29.4	3,209	29.6	3,108	28
Jtah	65	6.3	65	6.4	74	7
/ermont	44	10.6	44	10.6	30	7
Virginia	1,416	31.2	1,521	33.5	1,454	31
Washington	522	16.9	507	15.8	566	17
West Virginia	501	27.9	539	29.8	442	24
Wisconsin	445	10.6	463	11.0	453	10
Wyoming	31	9.8	31	9.7	24	7
		<del></del>	1			27

<sup>(</sup>a) Excludes 95 military cases.

<sup>(</sup>b) Not included in totals.

<sup>\*</sup>Cases per 100,000 population. Population based on U.S. Bureau of Census, Current Population Reports, Series P25, No. 403, September 19, 1968.

### SURVEILLANCE SUMMARY SHIGELLOSIS - United States 1968

During 1968, 9,277 isolations of shigella were reported to NCDC. This is a decrease of 18.7 percent from the 11,405 isolations reported in 1967.\* The overall United States attack rate was 46.1 cases per million population in 1968 compared with 57.3 cases per million population in 1967. The attack rates by state are depicted in Figure 1. According to the age distribution of individuals from whom shigella was isolated in 1968, children 1-4 years and 5-9 years of age appeared at greatest risk with attack rates of 37.4 percent and 22.6 percent, respectively. A preponderance of isolates occurred in adult females, particularly in the childbearing years, compared with males in the same age group (Table 2). The usual seasonal increase of shigellosis in the autumn persisted in 1968 (Figure 2).

Figure 1
ATTACK RATES OF SHIGELLOSIS BY STATE, 1968

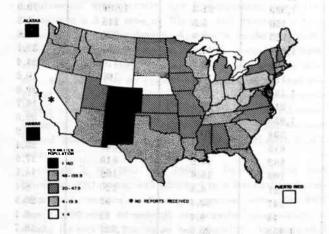
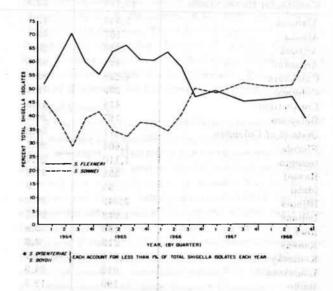


Figure 3
RELATIVE IMPORTANCE OF SHIGELLA SUBGROUPS\*
IN THE UNITED STATES, 1964-1968



Since the fourth quarter of 1967, Shigella sonnei has been the subgroup accounting for the most isolations reported to NCDC (Figure 3). The rising importance of S. sonnei is a trend which has been documented since 1964 in the United States. In 1968, 54.0 percent of all shigella isolates were S. sonnei (Table 3) versus 50.8 percent in 1967.

Figure 2
SEASONAL DISTRIBUTION OF SHIGELLA ISOLATIONS
BY SEROTYPE AND REGION
15 STATES WHICH HAVE REPORTED SINCE JANUARY 1964

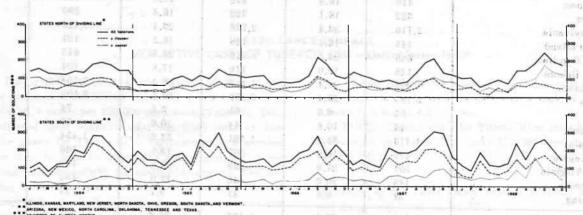


Table 2
Age and Sex Distribution of Individuals Infected with Shigellae in the United States, 1968

Age (Years)	Male	Female	Sex Unknown	Total	Percent	Cumulative Percent	Attack Rate, Million Population*
1	251	227	3	481	7.5	7.5	135.9
1 - 4	1,203	1,179	21	2,403	37.4	44.9	153.5
5 - 9	730	717	6	1,453	22.6	67.5	69.5
10 - 19	398	373	5	776	12.1	79.6	20.6
20 - 29	234	362	5	601	9.4	89.0	22.0
30 - 39	140	169	A 6 -1 - 12 -1	309	4.8	93.8	13.7
40 - 49	67	77	1 1	145	2.3	96.1	6.0
50 - 59	45	62		107	1.7	97.8	5.3
60 - 69	32	59	-	91	1.4	99.2	6.3
70 - 79	12	34		46	.7	99.9	5.1
80+	7	8		15	.2	100.1	4.5
Subtotal	3,119	3,267	41	6,427			
Child (unspec)	24	19	3	46		I Deline III	
Adult (unspec)	19	31	2	52		mill bulleton	1111-17112
Unknown	1,183	1,196	373	2,752	IN THE STATE OF	could be a source	
Total	4,345	4,513	419	9,277			THE RESERVE OF
Percent of Total	49.1	50.9				High control of	Share De

<sup>\*</sup>Based on provisional data from Population Estimates, Series P25, No. 385, Feb. 14, 1968.

Table 3

The Six Most Frequently Reported Scrotypes of Shigella from Humans, 1968 and 1964-1968

Market to large	ton the letter of	Percent of Total Isolations 1964-68				
Serotype	Reported Number	Calculated* Number	Calculated* Percent	Rank	Percent	Rank
S. sonnei	4,976	5,016	54.0	1	45.3	1
S. flexneri 2a	686	1,616	17.4	2	22.8	2
S. flexneri 3a	377	978	10.5	3	10.2	3
S. flexneri 6	367	456	4.9	4	5.9	4
S. flexneri 4a	158	332	3.6	6	5.5	5
S. flexneri 2b	174	388	4.2	5	3.9	6
Subtotal	6,738	8,786	94.6		93.6	36778 1000
Total	9,277	9,281	The second place	year and hinter to	meters us bind fel	Lucian

<sup>\*</sup>Calculated number is derived by distributing the unspecified isolations in each group to their subgroups in the same proportions as the distribution of the specified isolations of that group.

During 1968, six common-source foodborne outbreaks of shigellosis were reported. These outbreaks caused illness in a total of 551 persons. In 1967, there were four common-source foodborne outbreaks and one waterborne outbreak with a total of 366 persons acquiring shigellosis. (Reported by Enteric Diseases Unit, Bacterial Diseases Section, and Statistics Section, Epidemiology Program, NCDC.)

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

National Communicable Disease Center Atlanta, Georgia 30333

Attn: Chief, Enteric Diseases Unit Bacterial Diseases Section Epidemiology Program

<sup>\*</sup>No reports were received from California after March 1, 1968.

#### PARALYTIC POLIOMYELITIS - United States 1967

During 1967, 41 cases of paralytic poliomyelitis were reported to NCDC. This is the lowest annual total since national surveillance of poliomyelitis began in 1955 and is a significant decrease from the 102 cases in 1966 and the previous low of 61 cases in 1965. A trend towards lower incidence in 1967 was noted during the first 29 weeks of the year when only 15 cases were reported (MMWR, Vol. 16, No. 29).

Of the 41 cases with residual paralysis, 18 were type 1, eight were type 2, and seven were type 3, while in eight cases a type-specific etiology could not be established. In addition to these 41 cases, there was one other case reported as paralytic poliomyelitis but which had no residual muscular deficit. Of the 18 type 1 cases, 10 occurred in residents of the southwestern United States (Texas-5, New Mexico-1, and California-4). Of the California cases, three patients had traveled in Mexico in the 30 days prior to illness and one had had close contact with travelers from Mexico. Death occurred in six of the 41 cases. There was no apparent relationship between severity of paralytic involvement and type-specific etiology.

Consistent with a pattern noted during the last several years, in 1967 a majority of cases (25 of 41) occurred among preschool children from lower socioeconomic backgrounds. Only one case occurred in a school-age child and the remaining 15 cases occurred in adults among whom no single viral type clearly predominated.

Of the 41 patients, 29 were totally unimmunized. Only three of the vaccinated patients received what might be considered an adequate primary series by the current recommendation of the Public Health Service. Advisory Committee on Immunization Practices (MMWR, Vol. 16, No. 33). A 31-year-old man from New York had received 5 doses of inactivated poliovaccine (IPV); however, his last dose was administered 5 years before onset of illness and he had received no subsequent booster doses. He had serologic changes diagnostic for infection with type 2 poliovirus. A 15-year-old boy who contracted type 1 poliomyelitis had received a total of 4 doses of IPV and 1 dose of type 1 monovalent oral poliovaccine (MOPV) prior to 1963. A 5-year-old girl had an undocumented history of 3 doses of oral poliovaccine of unknown type; the etiologic type of poliovirus in her case was not determined. There were no reported cases of poliomyelitis following a fully adequate series of trivalent oral poliovaccine (TOPV). However, one 4-year-old girl with a history of 2 doses of TOPV and 3 doses of IPV contracted type 1 poliomyelitis.

In 1967, there were two reported cases of paralytic disease compatible with poliomyelitis in patients who had received oral poliovaccine from 4 to 30 days preceding illness. One was a 10-month-old infant with no history of prior inactivated poliovaccine, but who had received one dose of monovalent oral poliovaccine type 1. Ten days after receiving a dose of MOPV type 3, he developed a paralytic illness which left only minor residual deficit. The second was a 3 1/2-month-old infant who became

ill 14 days after a dose of MOPV type 3. He had received a previous dose of MOPV type 1. This infant suffered minor residual disability. In both cases, poliovirus type 3, antigenically vaccine-like but with a positive temperature narker, was isolated from stool.

In 1967, there were five cases of paralytic disease in patients who had had close contact with a recent recipient of oral poliovaccine. The cases were geographically unrelated. The only case in a child involved a 4-year-old girl from Michigan who had received 3 prior doses of IPV and 2 prior doses of TOPV. She became ill 27 days after a neighbor child had received a dose of TOPV. Type 1 poliovirus, antigenically characterized as vaccine-like, was recovered from her stool. She was left with minor residual disability. The remaining four cases were in adults. A 31-year-old man from New York became ill 28 days after his son had received TOPV. This man gave a history of 5 prior doses of IPV, the last of which was 5 years before onset. No poliovirus was recovered, but tests on paired sera demonstrated a fourfold rise in neutralizing antibody titer to poliovirus type 2. The man was left with significant residual disability 60 days after onset. A 32-year-old woman from Colorado with a history of 3 MOPV doses given 5 years prior to onset developed paralytic illness 22 days after her niece had received TOPV. An antigenically vaccine-like strain of poliovirus type 3 was recovered from a stool specimen. The patient's sera had a diagnostic antibody rise to poliovirus type 3. She was left with significant disability. The remaining two patients had never received any immunization against poliomyelitis. A 30-year-old man from Maryland became ill 35 days after his son had received TOPV. Poliovirus type 2, antigenically vaccine-like but with a positive temperature marker, was isolated from stool. A high neutralizing antibody titer to poliovirus type 2 was present. A 30-year-old woman from California became ill 22 days after her daughter had received MOPV type 1. No isolation of poliovirus was made. There was a neutralizing antibody titer of 1:512 to poliovirus type 1 on an acute specimen obtained 9 days after onset of illness. The titer on the second serum specimen obtained 14 days later was not significantly changed (1:1,024). This case actually occurred in December 1966, but was reported in 1967 and hence is included in the 1967 summary.

(Reported by the Statistics Section, and the Neurotropic Viral Diseases Unit, Viral Diseases Section, Epidemiology Program, NCDC).

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

National Communicable Disease Center Atlanta, Georgia 30333

Attn: Chief, Viral Diseases Section Epidemiology Program

#### Morbidity and Mortality Weekly Report

#### SUMMARIES OF REPORTED CASES OF INFECTIOUS SYPHILIS

CASES OF PRIMARY AND SECONDARY SYPHILIS: By Reporting Areas January 1969 and January 1968 - Provisional Data

Reporting Area	Janua	ry	Cumu l Janu	ative sary	Reporting Area	Jam	ary		lative mary
1969 1968 W ENGLAND 26 23		1968	1969	1968		1969	1968	1969	1968
NEW ENGLAND		23	26	23	EAST SOUTH CENTRAL	106	112	106	112
Haine.	1	-	1	-	Kentucky	27	13	27	13
New Hampshire	-	-		-	Tennessee	31	22	31	22
Vermont	-	-		-	Alabama.	28	51	28	51
Massachusetts.	18	14	18	14	Mississippi	20	26	20	26
Rhode Island	3	- '	3	_	urantanthhr				
Connecticut	4	9	4	9	WEST SOUTH CENTRAL	238	268	238	268
- Commerce Leaders					Arkenses	10	10	10	10
CIDDLE ATLANTIC	312	269	312	269	Louisiana	50	62	50	62
Upstate New York.	34	15	34	15	Oklahoma	10	6	10	6
	219	162	219	162		168	190	168	190
New York City	10	22	10	22	Texas	100	170	100	190
Pa. (Excl. Phila.)									
Philadelphia	6	27	6	27	MOUNTAIN.	47	35	47	35
New Jersey	43	43	43	43	Montana	•	1		1
COMMEN AND THE CONTROL OF THE CONTRO					Idaho	-			-
AST NORTH CENTRAL.	207	268	207	268	Wyoming.	1	-	1	-
Ohio	35	33	35	33	Colorado	3	1	3	_ 1
Indiana	30	19	30	19	New Mexico	18	10	18	10
Downstate Illinois	29	20	29	20	Arizona.	23	20	23	20
Chicago	66	102	66	102	Utah	-			
Michigan	47	94	47	94	Nevada	2	3	2	3
Wisconsin.									
PARESTER .					PACIFIC	164	114	164	114
EST NORTH CENTRAL	27	15	27	15	Washington.	2	4	2	4
Hinnesota.	4		4	-	Oregon.	8	1	8	1
Iowa.	2		2		California.	154	108	154	108
Missouri	14	7	14	7	Alaska				
North Dakota				-	Hawaii		1		1
South Dakota.	2	1	2	1	Manage 1	1,20	-	2,50	
Nebraska.	3	6	3	6	u c momer	1,538	1,556	1.538	
	2	1	2	ľ	U. S. TOTAL	1,338	1,336	1,336	1,556
Kansas	2	- 1	2		TERRITORIES.	100	67	100	67
	411	452	411	452	Puerto Rico.	100	59	100	59
OUTH ATLANTIC	1		1		Virgin Islands.	100	8	2.7.7	
Delaware	46	47	46	100	Arrigin Intermediation	-			8
taryland				47					
District of Columbia	44	79	44	79					
Virginia	25	16	25	16					
West Virginia	-				energy and the second second				
North Carolina	41	52	41	52	Note: Cumulative Totals	include	revised	and delayer	repor
South Carolina.	62	48	62	48	through previous				Por
Georgia	76	71	76	71					
Florida.	116	139	116	139					
SERDING.	110	139	110	139					

CASES OF PRIMARY AND SECONDARY SYPHILIS: By Reporting Areas February 1969 and February 1968 - Provisional Data

Reporting Area	February	,	Cumsil January-	ative February	Reporting Area	Feb	ruary		lative February
	1969	1968	1969	1968		1969	1968	1969	1968
EW ENGLAND.	27	42	53	65	EAST SOUTH CENTRAL	80	111	186	223
Maine	- 4	-	1	-	Kentucky.	12	8	39	21
New Hampshire.	-	-	-	-	Tennessee.	39	29	70	51
Vermont	_	_	_	_	Alabama	- 7	48	35	99
Massachusetts.	14	34	32	48	Mississippi.	22	26	42	52
Rhode Island	3	4	6	4	MISSISSIPPI		20	7.	3.
Connecticut	10	4	14	13	WEST SOUTH CENTRAL	298	280	536	548
Somecticut	10	7	1 14	1.3		9	11	19	21
IDDLE ATLANTIC	271	267	583	542	Arkansas	50	62	100	124
Upstate New York.	24	17	58	32	Louisiana	2	8	12	14
New York City.	180	175	399	337	Oklahoma				
	8	24			Texas	237	199	536	389
Pa. (Excl. Phila.)			18	46	Land Contract Contract	- 22	1 444		1990
Philadelphia	24	28		55	MOUNTAIN	56	53	103	82
New Jersey	35	29	78	72	Hontana		-		
the second secon				1.1.	Idaho	1	2	1	2
AST NORTH CENTRAL.	207	276	414	544	Wyoming.	1		2	
Ohio	30	57	65	90	Colorado	8	4	11	5
Indiana	29	27	59	46	Hew Mexico	25	11	43	21
Downstate Illinois	25	15	54	35	Arizona	17	26	40	46
hicago	71	89	137	191	Utah				
ichigan	51	86	98	180	Nevada	4	4	6	7
isconsin	1	2	1	2					
LOGGINDAY.		100	2X1.	8.7	PACIFIC.	146	133	310	247
ST NORTH CENTRAL	25	29	52	44	Washington	5	2	7	6
tinnesota	1	6	5	6	Oregon.	2	5	10	6
Iowa.	7	2	9	2	California.	139	125	293	233
Hissouri.	15	16	29	23	Alaska		1.2	273	133
North Dakota	1		1	-	Hawaii.	9. 3	1	1 2	2
South Dakota.	2	3	2	4					
Nebraska.	+	2	3	8	U. S. TOTAL	1,543	1,627	3,081	3,183
Cansas.	1	11 .	1 1	1		4,243	-,02/	3,081	3,103
			,		TERRITORIES.	100	82	200	149
OUTH ATLANTIC	433	436	844	888	Puerto Rico.	97	73	197	132
elaware	2	436	3	5	Virgin Islands	3	9	3	17
aryland	39	42					1	2 7	I COLO
istrict of Columbia	34	42	85	89				40	
			78	128					
irginia	17	17	42	33					
lest Virginia	1	8	1	8	AND DOWNSON				
orth Carolina	44	65	85	117	Note: Cumulative Totals	include	revised	and delay	ed reports
outh Carolina	52	49	114	97	through previous	months.			
eorgia	93	62	169	133					

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#### Morbidity and Mortality Weekly Report

#### TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

#### FOR WEEKS ENDED MARCH 8, 1969 AND MARCH 9, 1968 (10th WEEK)

The second second	ASEPTIC	DDUCET			ENCEPHALIT	IS		HEPATITIS			
AREA	MENIN- GITIS	BRUCEL- LOSIS	DIPHTHERIA		including cases	Post- Infectious	Serum	Infec	tious	MALA	RIA
Berlin E	1969	1969	1969	1969	1968	1969	1969	1969	1968	1969	Cum. 1969
UNITED STATES	25	49-1	Du Britis	22	16	2	101	990	951	25	44
TELL PROPERTY.											
NEW ENGLAND		- T	7 7 3 -	4	1		11	63	26	3	2
Maine		-	- 70	-		-		3	1	100	
New Hampshire. *	THE PARTY	1	from Thomas			- 32 -	1 -0 - 1	8	4	Indiana.	
Vermont	100	54.1	-		Activities 1	- 34=	10.7	-	1.0	1915 VI.	
Massachusetts	T N			1				18	10	2	2
Rhode Island	-	- 1	1 1 1	3	1	1.00	1	19	4		
Connecticut	-		7		1016	-	10	15	7	1	
MIDDLE ATLANTIC	8		1	2	2		30	161	137	4	4
New York City	1	4 10	V THE STATE OF	With Edition	No. of London		16	53	48	and their III	
New York, Up-State.	2		the decree	2	2		8	20		_	
				2					18	3	- 77
New Jersey	4	T 61 1 1 1 1 1 1	L. Patter	41210 E.D.	2000	1 T T T T T T T T T T T T T T T T T T T	4	26	47	131 11	_ 1
Pennsylvania	1	n Anton	W			-	2	62	24	1	1
AST NORTH CENTRAL	2	1 - 1	2	5	4	- 1	10	168	157	5	2
Ohio	1 1 2 2		A	3	1		3	65	45	í	
Indiana	16-33				-	A 1 1 1 1 1 1 1	1	13	9		
Illinois	1	1,2			2					1	,
		( ) ( )				1 1 1 1 1 1 1 1	1	26	60	2	1
Michigan*	1	_471.cl		2	1	N. J. 30	5	52	31	1	1
Wisconsin.		. O. T.	1			1111-12:40	-	12	12	-	
VEST NORTH CENTRAL	120	THE STATE	1 160		1	E 1150a	2	41	54		
Minnesota	445-11	100	1301	/		F Val	2			4	3
				-	-	17 (8)	-	12	8	2	
Iowa. *		100	100	-	-	1-15		5	22	-	
Missouri			-		1	arts. Test at	-	7	16	1	
North Dakota		The same	all all all			- 34	-	1	1	1 2 1	
South Dakota	X/41	1 TO 1		- 4		- 1-1	36.	1		-	
Nebraska		T	-	-	-	- 165	1 71- 1	1	1	1	
Kansas		- 17.0				- 1 - 4	2	14	6	-	1
	0.0								100		
SOUTH ATLANTIC	6		-	2	3	- 1	6	107	83	4	15
Delaware	-		-	-	-		-		3	-	
Maryland	2	1000	a December	1	-	arrange 6 mil	1	22	13	1	and the
Dist. of Columbia	200	-			1	-		1	2		11.
Virginia.	2 - 200	Limit House	- 14(I-61907)	0.215	2			3	6		
West Virginia	She are						-	4	4		
North Carolina	3	- 12000	4	1				11	5	m1 -	7
South Carolina	T. Herr		MAKE THE RESERVE		100		1 702	11			í
Georgia				5 2 2			100	18	35	2	
Florida	1	1 2	M _ L			12	5	37		The Art Control of the Control of th	4
				E-Living.		- 4 - 4	different (i)	3/	15	1	1
AST SOUTH CENTRAL	-1-2	to the last	See Brann	1.00	Total I		1	73	68	named a city	1
Kentucky		6	_	-		1 1	1 4	39	34	100.00	i
Tennessee	3 27		100 Tona	Marie Co.	NUMBER OF	I Library	1	20	20	and the last of the	=011111
Alabama	14 Car	Amill to	Ex Adresos		COLUMN TO A	1.124	دا الد الد	7			
Mississippi	3 2		- Dan		Armed A			7	7	TOUR DESIGNATION OF THE PERSON	11.0
AT ENGINEER OF THE PARTY OF THE	1000		THE STATE OF		Superior 1			FF 1251	WINDS	Della III	1100
EST SOUTH CENTRAL	1	Property.	general little in	1	1	1	1	70	76	3	1
Arkansas		1	F-100	_				4	5	Y	
Louisiana*	1		W - W	1	Service 1	4-6	1			3	
Oklahoma	1 - 2 au	127mm	A SECTION	1	1	the distribution of	Authoriza	11	13	DE E 3	
Texas	100			111111	(etp.)165   9	1		7	6	minute.	
Tenue III			The State of		Marian Inc.		page.	48	52	7.33	
OUNTAIN	1	F- 50 F-	F 3757	2	months 1		1.6. //				
	100			2	100		5	57	70	a books.	3
Montana		19-	COMP	William I	_			5	8	-	- XII
Idaho		No. William	(III., John or	1	20 To 10			7	2	-	
Wyoming. #	7 2 7		7-7-		PARTIES N	1-1-1	100	H		S Toll III	
Colorado	1 1	he far	Barrier Malus		53 Tab	3-41.1	+ 41- 1-	19	31		3
New Mexico	-		-1		The second	1-12	3	7	4		_
Arizona	1					- 1-11	- 1	8	10	alther	
Utah	Billio-Scill	esal.	Jung-Bellal	-	-110	V2 0	2	10	11		
Nevada		100 m		1	500		to	1	4	-	
The second second	P3 P3		1 2 3 3 4 4	ST CHAPTER		4.3					
ACIFIC	7	42	The province	6	4	1	35	250	280	2	10
Washington	-	-	1 1	11.3	100			35	21		10
Oregon	100	13-1-14	4-14-44	1		1 4-12 6	2	26	20	100	
California	6	W-11	-0-6	5	4	1	33	189		2	
Alaska						1.17	33	109	233	The second second	8
	1	e talles y	Charles I Harris	ample Area	2 KH402 (1)	6 = 1-3 last	1-11-15	9-1-	6	Fatto-	
Hawaii											

\*Delayed reports: Encephalitis, primary: Iowa 1, La. 1 (1968), Wyo. 1
Hepatitis, serum: Mich. 6
Hepatitis, infectious: N.H. 1
Malaria: N.H. delete 1 (1969) add 1 (1968)

#### TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

#### FOR WEEKS ENDED

#### MARCH 8, 1969 AND MARCH 9, 1968 (10th WEEK) - CONTINUED

	MEA	SLES (Rube	ola)	MENINGO	COCCAL INT	ections,	MUMPS	P	OLIOMYELI	TIS	RUBELLA
AREA		Cumu 1	ative	1		ative		Total	Para	lytic	
LOHOES TORY	1969	1969	1968	1969	1969	1968	1969	1969	1969	Cum. 1969	1969
UNITED STATES	557	4,335	5,555	77	778	808	2,388	-	-	1	1,535
	4.0	017	015			0.00	601	7.801			
NEW ENGLAND	43	217	215 10	3	24 1	42	371 38	325	Tel cal	pri creb	143
New Hampshire.*	21	58	41	1 to 2	_	3	4	- 1			7
Vermont	-	-	41			1	29	1000		110000	1
Massachusetts	7	41	94	1	11	22	139	12 100	The second	fill Dest	39
Rhode Island		3	1	-	3	4	80	-	_	Printegram	13
Connecticut	15	113	69	, 2	9	10	81	175	1 1 1	Service of the	79
MIDDLE ATLANTIC	215	1,237	659	12	105	103	73	341	1000	Sept (1)	73
New York City	136	813	122	î	19	20	45	377	1000	e Hosto	19
New York, Up-State.	16	116	382	D T	17	10	NN				5
New Jersey	48	161	120	5	36	35	28	302	I Late	THE DESIGNATION	4.0
Pennsylvania	15	147	35	6	: 33	38	NN	2-1	- 133	SUD AND	
EAST NORTH CENTRAL	59	440	1,470	6	92	78	575	1.95	155)		WELL DOD
Ohio	3	45	109	1	28	19	27	1810	1725.57	A Section Co.	202
Indiana	25	104	229	2	16	10	62	850.17	1		37
Illinois	9	81	643.	1	12	16	61	EAL.	4	AUDIO FLA	36
Michigan	5	56	96	2	30	24	169	127	- 1		93
Wisconsin	. 17	154	393	1 -	6	9	256 :	150	F 10.62		96
WEST NORTH CENTRAL	27	135	101	4	41	38	306	1000	body	America	214
Minnesota. *	-	1	2		7	6	46	485	1000	100	7
Iowa	17	68	22	1	. 5	3	204	450	1	Marie Const.	110
Missouri	- 11 - 1	11	6	. 3	17	6	9	100	1 211000	THE REAL	2000
North Dakota		2	47	1 -	37	2	17 i	7.5	1 1 1 1	10001100	4
South Dakota.	- 1	- I	3	(1)	-	4	NN		-	790	-
Nebraska	1 10	53	14	2 -	2	. 4	4	674	-	A 0.000 A	73
Kansas		- 1	7	1 -	10	13	26	17	1	an registral	10
SOUTH ATLANTIC	53	792	425	9	150	182	168 -		1	100000	156
Delaware	2	8	2	-	1 3	- 1	2 '	212		1000	8
Maryland	2	8	32	1	16	11	16	nearly.	-	detire deta	19
Dist. of Columbia	- i i	4 -	4	1 12	2	5	6:	A	-	-	-
Virginia★	36	279	87	3 6	22	14	14	177	-	Line A. Jane	13
West Virginia	5	72	111	1	. 6	3	110	y- 1111	T-1600	Indiana to a	39
North Carolina	1	47	45	. 1	19	41	NN -	846	D	10.00	3/9
South Carolina. *	1	47	8	5	21	38	8	876	10000	of state of	8
Georgia Florida	1.5	1 330	3 133	1	26 35	32 38	. 12	45	10000		69
		330	133		33	30	. 12	101	- 00	Male India	0,
EAST SOUTH CENTRAL	8	36	103	4	36	62	139		F-4.77	Carlotte Control	57
Kentucky	5	13	37	3 12	8	24	74	-	-	10000	25
Tennessee	2	8	16	4	19	15	60	542.5	100,000	Marine Arrest	17
Alabama	1 4	= (1	25	-	7	12	2	855	10000	111111111111	11
Mississippi	1 -	15	25		2	11	3 ;	650 SE	2000		4
WEST SOUTH CENTRAL	113	1,173	1,361	10	102	186	303	90	N re-ck	1	330
Arkansas	-	2	- 1	-	11	10	- 3	-	4000	1	-
Louisiana. *	6	8	1	1	31	44		100	- 1	WOLLD STOR	\$ 50 mg (F
Oklahoma Texas	1 106	102 1,061	56 1,304	2 7	. 6 54	39 93	31 272	1.5	1000	1	146 184
1 10 10 10			100	1 3		2 1	212	25.	1 2 2 2		104
MOUNTAIN	6	78	293	5	25	10	188	1. 1945	1 - 107		66
MontanaIdaho	1	3	54	1	2	1 1	14 -	-	1	-	4
Wyoming	410	J 701	10 30	1 5	3 -	2		1.68.1	Frank.	100	
Colorado	4-15	7.	97	3	6	4	38	15.00	10337		35
New Mexico	4	34	32	1	5		37	065	E-125		
Arizona	1	32	67	1 -	6	1	90	902.5		34)	8
Utah		1	1		1	520	9	1 3 2 7		100	5
Nevada	4 -	1	2	1 -	2	2	- (-)	120	E T	4.00	s Cub
PACIFIC	33	227	0.20	24	202	107	265	1500 PT	1.0	1	200
Washington	10	227 20	928 254	24	203 12	107 16	265		1 3	The same	
Oregon	4	34	207		6	10	18				85
California	17	163	446	22	179	73	217	1000	- Jane	1	116
Alaska	2	9	140		1/2	230	9	15	Etru	- Lating	110
Hawaii	+	1	21		6	8	21	1800	-		12
The state of the s				÷							<del></del>

\*Delayed reports: Measles: Minn. 1, Va. 4, S.C. 2

Meningococcal infections: La. delete 1

Mumps: Me. 8, N.H. 13

Rubella: N.H. 2

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

#### MARCH 8, 1969 AND MARCH 9, 1968 (10th WEEK) - CONTINUED

AREA	STREPTOCOCCAL SORE THROAT & SCARLET FEVER	TET	ANUS	TULA	REMIA	TYP! FEV		TICK	S FEVER -BORNE - Spotted)		LES IN
	1969	1969	Cum. 1969	1969	Cum. 1969	1969	Cum. 1969	1969	Cum. 1969	1969	Cum. 1969
UNITED STATES	12,745	2	17	1	22	3	39	1909	1	73	665
THE REAL PROPERTY AND ADDRESS OF THE PERSON NAMED IN COLUMN TWO IN COLUMN TO THE PERSON NAMED IN COLUMN TWO IN COL			15.4		7 (20)	1.0	17:1		PRE	- No. 170. H	1000
NEW ENGLAND	1,874	G	- 1		-	-1.0	- 10	1 - 1-	7	-	2
Maine. *	10	25	-	111	-	1 1 4 1	-				= 1
New Hampshire	21		-	, ) ) <del>-</del>	-	-	-	-	-	-	PER
Vermont	29		-	-	-	-	-		- )	1300-	1
Massachusetts	272	27.		-	-	1	-	1 - 64	- 1	-7-	-
Rhode Island	145	-	-	244	4 15.	-	-		- }	-	-
Connecticut	1,397	10		H .		110	1.77				
MIDDLE ATLANTIC	508	1	2	IN THE	1	2	7			2	10
New York City	33	45.	100	1.44	1	1	5		4		
New York, Up-State.	294	1	2	0.102	1, 9	-1 02.	i			2	10
New Jersey	NN					1	1		_		
Pennsylvania.	181	SIL N	1.62		-	J. Brot.	11.000	2.0	- 150	20 200	
			1.00.5	1 18	172	1. 1901		-1 1	101 111		100
EAST NORTH CENTRAL	1,358	P	3	1	2	-3333	1	44	H - 1	5	29
Ohio	163	E	1 1 1 1			-048	. 1		1		4
Indiana	323	111-11		100	1	1 200	- 12		14 - 14	1 1	4
Illinois	272	are a	1	1	1	L IV	40 Jan	- 1			
Michigan	400	•	2		-			100-	-	1	1
Wisconsin	200	· .	. 195		•	101		-		3	15
		Diam'r			100		13				175
WEST NORTH CENTRAL	674		- 1	-	3	•	-00		•	9	113
Minnesota	141	20-1	- 1			•	-	-		4	31
Iowa	147	200	-		-	- 110		-	-		20
Missouri	9		-		3	-	-		-	3	40
North Dakota	153	g 1	-	-	-	-	-90			- 4 11	16
South Dakota	18		100		-	•	-	-	-	-	- 51
Nebraska	95	•				•				1	
Kansas	111	-	-		118		1 - 100	3. / #E		2	
			141	100		1 6			PE 16/19	VIII NIN	796
SOUTH ATLANTIC	1,634	1	5		10	1	4		4.30	25	226
Delaware	18	-		197	-		10 h 10 m	earl I - II			
Maryland *	314			-CA	To the	- 1	7.0		-		
Dist. of Columbia	1	No.	2	12.		1 1070	F 3 - 30	1 -1 - 3		MARKET SAFE	775
Virginia	548			-	1 1	U -07 A		- 1	10.10	17	155
West Virginia	279				- 2	-	- 1	177 5	P-4-11	2	27
North Carolina	26		1		4	1	1		J	1	9 1
South Carolina.*	209		1		I II.	1 -	1	-	E 100 - 100 - 100	CE. 1-690	
Georgia	12	No.	200			1	1	- 1	07-		15
Florida.*	227	1	1	- 11	4		1	-	1:- 1000	5	28
EAST SOUTH CENTRAL	1,548	8 17	- 21		2	- 10	4		1	15	124
Kentucky	248	9	43	11	3 .	1 400					_
Tennessee	1,136	b	111	14 4	2	1 1964	3	7		7	78
	59							- 1	1	5	37
Alabama	105	tie - 1	100	364	1 1	Title:	1	10 112	4	3	
MISSISSIPPI I	103	RL &	100				1	Sel W		D. Lim	614
WEST SOUTH CENTRAL	889	1 12 11	3	134	2		6	11-1	1.00	11	81
Arkansas. *	9	B	6 -0	- 10		1	4	11111111	1 1 1	2	
Louisiana	15		2	P 1		1400	200	g - 1 mos			
Oklahoma	74		ī		2		- 1	45		1	11
Texas	791	100	91	- 6		Total Control	2	+- 6		8	62
	1 4: -11	M	N 5 1 W	3 7 9		125		100	75		100
MOUNTAIN	2,883	-		19- 7	2	1 -85	10	-	-	2	1:
Montana *	71		2-4	- 4		120		1 - Y	200	1	
Idaho	290			13. A			-	- i - i			
Wyoming	314		13-00	S	2 7	7 - Se -	5	496 - 9.7	Be of the	- 194	
Colorado	1,537	-	1.00	- 1	- 1- 7		1	14 - 1	3-2-2		1
New Mexico	325		15.00	15.0	1		2	A1 - 15		-1	
Arizona	156		130	- Y	1 1 3	1 - X	1	W1 - 1	18 5 7-	1	962
Utah	190		0 U	-	1		-1		9	-	
Nevada	1 4 5 - 1	-	-	1.2	19	3.0	1	- 12:	10-		3 3
				100		d (21)	0 1 . 0		120-1119		93
PACIFIC	1,377		4	Age :	100	1 12	7	24-1		4	6.5
Washington	474		161			1000	E. J. See.	70	V	-	
Oregon	118		A 15 151	5 · 3		1.0	9 J 3	4171.5	COP - 124	985 - 1944	
California	661		4	200			7			4	6.5
Alaska	46		Sala Sala	100			100	-	-		
Hawaii	78							-			

\*Delayed reports: SST: Me. 27, N.H. 4, Md. 187, S.C. 23, Mont. 22 Tularemia: Fla. 1

Typhoid fever: Ark. delete 1
Rabies in animals: Fla. delete 2

Week No.

#### TABLE IV. DEATHS IN 122 UNITED STATES CITIES FOR WEEK ENDED MARCH 8, 1969

10

Area	All Causes Pneumonia			Under		All Causes		Pneumonia	Under	
	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 year All Causes	
NEW ENGLAND:	754	442	57	35	SOUTH ATLANTIC:	1,346	710	71	6:	
Boston, Mass	214	111	13	8	Atlanta, Ga	126	53	6		
Bridgeport, Conn	45	28	1	3	Baltimore, Md	276	142	7	12	
Cambridge, Mass	33	23	8	1	Charlotte, N. C	61	28	3	-	
Fall River, Mass	43	24	2	1	Jacksonville, Fla	109	64	5		
Hartford, Conn	57	33	6	5	Miami, Fla	106	60	1		
Lowell, Mass	24	15	6	2	Norfolk, Va	74	38	10		
Lynn, Mass	23 30	17 23	2		Richmond, Va	76	40	9	J/10 110	
New Bedford, Mass New Haven, Conn	50	27	1	6	Savannah, Ga St. Petersburg, Fla	36	16	2		
Providence, R. I	82	44	7	4	Tampa, Fla	108 81	91	9		
Somerville, Mass	12	9	2		Washington, D. C	237	104	7 10	unviria.	
Springfield, Mass	44	30	5	1	Wilmington, Del	56	26	2		
Waterbury, Conn	34	17		1	11-2	30	20			
Worcester, Mass	63	41	4	3	EAST SOUTH CENTRAL:	672	391	50	3:	
A THE RESERVE AND A STREET AND A STREET					Birmingham, Ala	83	54	3		
IDDLE ATLANTIC:	3,335	1,988	178	136	Chattanooga, Tenn	37	22	3		
Albany, N. Y	54	35	3	5	Knoxville, Tenn	53	38	5	0.00	
Allentown, Pa	36	26	7		Louisville, Ky	127	67	16		
Buffalo, N. Y	158	94	toob 7	5	Memphis, Tenn	145	79	10	1	
Camden, N. J	49	30	7	3	Mobile, Ala	55	29	1 00005	M SA	
Elizabeth, N. J Erie, Pa	38 44	28 28	7	5	Montgomery, Ala Nashville, Tenn	57	32	7		
Jersey City, N. J	93	55	,	5	Mashville, Telli.	115	70	5		
Newark, N. J	65	28	4	5	WEST SOUTH CENTRAL:	1,292	697	65	7	
New York City, N. Y	1,732	1,029	89	58	Austin, Tex	38	22	6	7	
Paterson, N. J	43	34	3	-	Baton Rouge, La	38	22	5		
Philadelphia, Pa	400	226	4	32	Corpus Christi, Tex	28	15	2 3-	4	
Pittsburgh, Pa	179	102	17	6	Dallas, Tex	183	93	7	1	
Reading, Pa	55	28	2	1	El Paso, Tex	53	20	2	1	
Rochester, N. Y	122	72	8	2	Fort Worth, Tex	88	52	3		
Schenectady, N. Y	35	25	6	1	Houston, Tex	228	120	7		
Scranton, Pa	40	22	Local La	1	Little Rock, Ark	72	42	6	20.1	
Syracuse, N. Y	84	58	2	5	New Orleans, La	200	107	11	10	
Trenton, N. J	42	24	3	1 1 2	Oklahoma City, Okla	112	51	3	1	
Utica, N. Y	28	21	-	-1-	San Antonio, Tex	117	60	2		
Yonkers, N. Y	38	23	1	2	Shreveport, La	78	54	8		
AST NORTH CENTRAL:	2 620	1 /00			Tulsa, Okla	57	39	5	- 2	
Akron, Ohio	2,638	1,483	111	141	MOUNTAIN:			1 450		
Canton, Ohio	69	44	7	1	Albuquerque, N. Mex	469	278	32	3.	
Chicago, Ill	28 734	15	4	1	Colorado Springs, Colo.	49	20	1 4	4	
Cincinnati, Ohio	144	392 82	30	37 15	Denver, Colo	27	14	4	- 13	
Cleveland, Ohio	240	128	8	13	Ogden, Utah	127 21	71 15	8 3		
Columbus, Ohio	142	81	4	6	Phoenix, Ariz	112	64	2	13	
Dayton, Ohio	77	46	5		Pueblo, Colo	22	15	8	1	
Detroit, Mich	343	183	11	22	Salt Lake City, Utah	57	39	i	1 1	
Evansville, Ind	56	31	4	2	Tucson, Ariz	54	40	2		
Flint, Mich	56	31	2	4	4-4	T-				
Fort Wayne, Ind	42	24	2	3	PACIFIC:	1,804	1,108	66	6	
Gary, Ind	19	11	3	3.1	Berkeley, Calif	26	17			
Grand Rapids, Mich.	43	30	4	3	Fresno, Calif	58	34	3		
Indianapolis, Ind.	145	88	6	9	Glendale, Calif	38	26	1		
Madison, Wis	52	29	5	2	Honolulu, Hawaii	63	29	1		
Milwaukee, Wis	135	83	2	7	Long Beach, Calif Los Angeles, Calif	96	56	3	1	
Peoria, Ill Rockford, Ill	42 38	24	3	1 2	Oakland, Calif	526	331	24	1	
South Bend, Ind	38 43	20 18	3	3	Pasadena, Calif	80	59	4		
Toledo, Ohio	123	75	6	7	Portland, Oreg	101	36	2		
Youngstown, Ohio	67	48	1	2	Sacramento, Calif	191	119	5		
,	3,	1 40	1		San Diego, Calif	55 104	29	1 2	il.	
EST NORTH CENTRAL:	865	571	47	21	San Francisco, Calif	221	50 137	3 6		
Des Moines, Iowa	71	51	1	1	San Jose, Calif	47	35	6 2		
Duluth, Minn	13	9		i	Seattle, Wash	156	85	9		
Kansas City, Kans	42	26		5	Spokane, Wash	56	33	1		
Kansas City, Mo	135	87	4	1	Tacoma, Wash	45	32	1		
Lincoln, Nebr	29	21	2	1			32	1		
Minneapolis, Minn	124	83	6	3	Total	13,175	7.668	677	59	
Omaha, Nebr	92	61	6	1					-	
St. Louis, Mo	205	121	11	4		ulative ?		-		
St. Paul, Minn.	81	59	5	1	including reporte	including reported corrections for previous weeks				
Wichita, Kans	73	53	12	3				146,7	35	
Miles and the second			21 20 1	- 1	All Causes, All Ages			05.0		
					All Causes, Age 65 and c	ver				
					Pneumonia and Influenza,	A 1 1		10,3		

# EPIDEMIOLOGIC NOTES AND REPORTS FOLLOW-UP FOOD POISONING — Morton, Mississippi

An outbreak of food poisoning occurred on Sept. 12, 1968, in Morton among students who ate their noon meal in the cafeteria of a consolidated public school (MMWR, Vol. 17, No. 38). Tuna fish salad was the incriminated vehicle on the basis of the differential food-specific attack rates calculated from food histories for those ill and not ill.

The tuna fish salad and nasopharyngeal cultures from nine of 11 food handlers grew coagulase positive Staphylococcus aureus. Cultures from three workers as well as the food were all phage type 86. The leftover salad and the positive cultures were analyzed for staphylococcal enterotoxin by means of hemagglutination tests and the immunodiffusion technique with Ouchterlony plates. Type C enterotoxin was identified in the tuna fish salad as well as from cultures of the salad and from the food handlers who prepared it.

(Reported by William G. Roessler, Ph.D., Chief, Bacteriology III Branch, Medical Bacteriology Division, Department of the Army, Fort Detrick, Frederick, Maryland; and the Bacterial Reference Unit, Epidemiologic Services Laboratory Section, Epidemiology Program, NCDC.)

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DIRECTOR, NATIONAL COMMUNICABLE DISEASE CENTER

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IN ADDITION TO THE ESTABLISHED PROCEDURES FOR REPORTING MOBIDITY AND MORTALITY, THE NATIONAL 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:

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ATTN: THE EDITOR
MORBIDITY AND MORTALITY WEEKLY REPORT

NOTE: THE DATA IN THIS REPORT ARE PROVISIONAL AND ARE BASED ON WEEKLY TELEGRAMS TO THE NCDC 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.

DR. MICHAEL B. GREGG
53-2 OFFICE OF THE CHIEF
8 68 EPIDEMIOLOGY PROGRAM

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