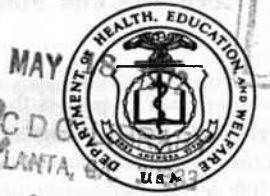


Morbidity and Mortality



WEEKLY REPORT

For Week Ending
May 13, 1972

U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE / PUBLIC HEALTH SERVICE HEALTH SERVICES AND MENTAL HEALTH ADMINISTRATION
DATE OF RELEASE: MAY 19, 1972 - ATLANTA, GEORGIA 30333

EPIDEMIOLOGIC NOTES AND REPORTS
LEPTOSPIROSIS - Oregon

On Jan. 8, 1972, a 26-year-old woman in Clackamas County, Oregon, had onset of nausea, epigastric pain, and myalgia. Six days later an erythematous rash developed on her ankles and spread to her legs, thighs, and arms. She was treated with sulfonamides and ampicillin, but her symptoms persisted. Jaundice developed 3 weeks later and lasted for more than a month. A liver biopsy was performed and interpreted as diagnostic of pericholangiolytic hepatitis. A blood specimen drawn on the 57th day of illness was negative for leptospiral antibodies, but a second specimen obtained 12 days later showed a titer of 1:50 against serotype *autumnalis*. Leptospiral-like organisms were seen in sections of the liver biopsy and in cultures inoculated from urine. The patient recovered uneventfully.

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On March 15, the patient's husband had onset of myalgia and erythematous rash on his legs. The rash cleared in a few days; however, jaundice developed in the first week in April. A serologic test for leptospire was negative on March 4, but another test on March 16 showed a titer of 1:100 against *autumnalis*. Leptospire isolated from this patient's urine have been identified as serotype *autumnalis* Ft. Bragg by the 2-way agglutination absorption test. This patient also made an uneventful recovery.

The patients have a 2-year-old son, a 6-year-old daughter, a mother-in-law, and two dogs living with them. The son had

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

DISEASE	19th WEEK ENDING		MEDIAN 1967-1971	CUMULATIVE, FIRST 19 WEEKS		
	May 13, 1972	May 15, 1971		1972	1971	MEDIAN 1967-1971
Aseptic meningitis	56	26	26	661	857	544
Brucellosis	1	8	6	44	52	55
Chickenpox	5,129	---	---	80,128	---	---
Diphtheria	1	2	1	39	66	66
Encephalitis, primary:						
Arthropod-borne and unspecified	12	20	24	296	405	382
Encephalitis, post-infectious	7	11	11	101	118	159
Hepatitis, serum (Hepatitis B)	175	173	97	3,486	3,177	1,919
Hepatitis, infectious (Hepatitis A)	1,173	1,254	933	21,001	22,921	17,515
Malaria	15	89	84	475	1,405	938
Measles (rubeola)	1,405	3,283	1,998	17,706	47,855	26,005
Meningococcal infections, total	43	47	48	661	1,240	1,259
Civilian	42	42	48	633	1,066	1,130
Military	1	5	2	28	174	131
Mumps	2,191	3,940	---	40,901	71,170	---
Rubella (German measles)	785	1,892	2,283	14,571	26,302	28,158
Tetanus	4	3	3	34	30	39
Tuberculosis, new active	625	---	---	11,833	---	---
Tularemia	2	1	2	41	31	33
Typhoid fever	6	2	2	95	92	92
Typhus, tick-borne (Rky. Mt. spotted fever)	10	3	5	31	17	21
Venereal Diseases:†						
Gonorrhea	13,196	11,783	---	247,198	221,948	---
Syphilis, primary and secondary	501	436	---	8,665	8,557	---
Rabies in animals	87	101	79	1,620	1,739	1,479

TABLE II. NOTIFIABLE DISEASES OF LOW FREQUENCY

	Cum.		Cum.
Anthrax:	—	Poliomyelitis, total:	5
Botulism:	—	Paralytic:	5
Congenital rubella syndrome: Mo. - 1	16	Psittacosis:	10
Leprosy: Tex. - 1	38	Rabies in man:	1
Leptospirosis:	4	Trichinosis:	32
Plague:	1	Typhus, murine: Okla. - 1	7

†Numbers for 1971 are estimated from quarterly reports to the Venereal Disease Branch, CDC

LEPTOSPIROSIS – Continued

had seven episodes of fever, two accompanied by rash, in the previous 10 months. He had a titer of 1:100 against *autumnalis* on March 4. The daughter and mother-in-law were asymptomatic, but both had titers of 1:200 against *autumnalis* on March 4.

A Doberman Pinscher that the family bought in September 1971 had onset in November of an illness characterized by anorexia, vomiting, diarrhea, and cachexia. Blood specimens on Feb. 24, 1972, showed a titer of 1:3,200 against *autumnalis*. The other dog has showed no evidence of illness, but on March 7, it had a titer of 1:800 against *autumnalis*.

The patients live in a development of 222 homes surrounded by fields and woods 1 mile south of Portland. Twelve other persons living in or adjacent to this development have titers against *autumnalis*; three of these had symptoms compatible with leptospirosis in the period January through March 1972. Epidemiologic investigations are underway to determine whether there was a common source of infection, either from infected opossums or other animals in the surrounding fields or from the potentially contaminated unchlorinated water supply that serves the housing development.

(Reported by Hollister M. Stolte, M.D., Health Officer, Clackamas County, Oregon; Monroe Holmes, D.V.M., Public Health Veterinarian, Samuel B. Osgood, M.D., Director, Epidemiology Section, Oregon State Board of Health; the Special Pathogens and Bacterial Zoonoses Sections, Bacterial Diseases Branch, Epidemiology Program, and the Laboratory Division, CDC; and two EIS Officers.)

Editorial Note

In the United States, the first known cases of human illness caused by leptospires of the *Autumnalis* group were in troops at Ft. Bragg, North Carolina, in the summers of 1942-1944. Approximately 40 cases were diagnosed per year. Of the 1,047 cases of leptospirosis reported since 1947 in which the presumptive infective serotype was known, only 20 (2.3%) were classified as *autumnalis*.

Reports of *autumnalis* infections in domestic animals in the United States are rare. The only wild species from which *autumnalis* leptospires have been isolated are armadillos, nutrias, opossums, and raccoons. The opossum population near Portland, therefore, will be sampled to see if they harbor leptospires.

SURVEILLANCE SUMMARY

MEASLES – United States, 1971-72

In the first 28 weeks of the measles epidemiologic year* (EY) 1971-72, 18,533 cases of measles were reported in the United States (Figure 1). This represents a decrease of 58% from the 44,294 cases recorded for the same period in EY 1970-71 and is only 29% above the 14,315 cases recorded to this point in EY 1967-68, the record low year for measles in the United States.

The largest numbers of cases were reported in the East North Central and Pacific states (Table 1). The highest rates (per 100,000 children under 18 years) were noted in the following states: Wisconsin (117.8), Arizona (100.0), Hawaii

*The measles epidemiologic year begins with the calendar week 41 and ends with week 40 of the following year.

(72.4), Iowa (70.8), Indiana (64.8), Maine (64.5), Illinois (62.5), Florida (61.2), Washington (55.0), Colorado (52.3), and Rhode Island (52.2) (Figure 2).

The decrease in cases from a year ago reflects continuing vigorous use of measles vaccines. CDC's Biologics Surveillance indicates that a total of 8.3 million doses of live measles-virus vaccines were distributed in 1971. The majority of cases in investigated outbreaks have occurred in unvaccinated children, and there have been significant numbers of cases in some outbreaks in children vaccinated before the age of 1 year.

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

Figure 1
REPORTED CASES OF MEASLES, BY 4-WEEK PERIOD, USA,
EPIDEMIOLOGIC YEAR 1971-72 COMPARED WITH 1966-67,
1967-68, 1968-69, 1969-70, AND 1970-71

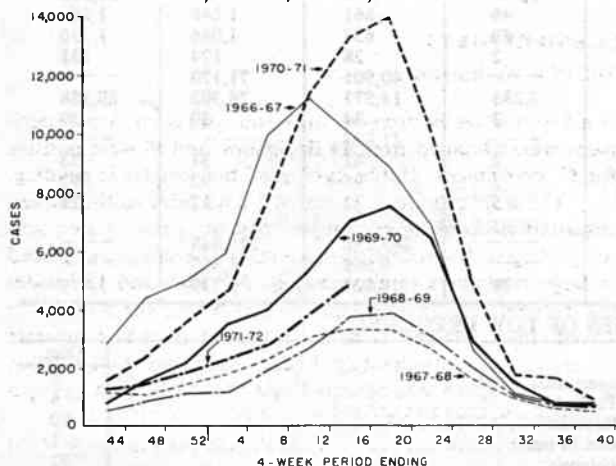


Figure 2
INCIDENCE RATES*, BY STATE, OF REPORTED MEASLES CASES
UNITED STATES – EPIDEMIOLOGIC YEAR 1971-72

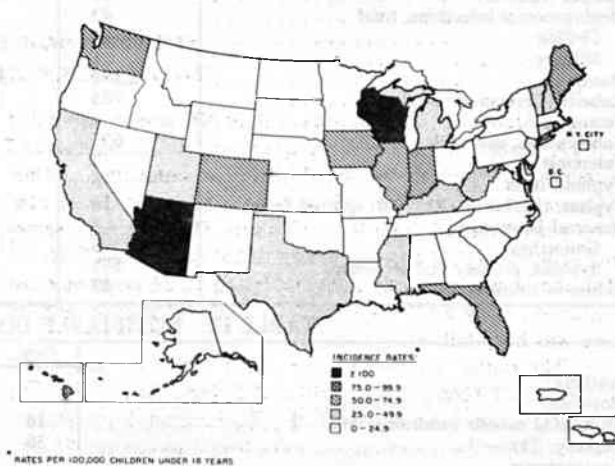


Table 1
Reported Cases of Measles, by State, Geographic Division, United States
First 28 Weeks of Epidemiologic Year 1971-72
and Comparable Periods of Epidemiologic Years 1969-70 and 1970-71

Division	Total First 28 Weeks* Oct. 16, 1971 Through Mar. 25, 1972	Comparable 28 Weeks Total		Epid. Year 1971-72 Decrease (Increase) from 1970-71	Division	Total First 28 Weeks* Oct. 16, 1971 Through Mar. 25, 1972	Comparable 28 Weeks Total		Epid. Year 1971-72 Decrease (Increase) from 1970-71
		1970-71	1969-70**				1970-71	1969-70**	
United States	18,533	44,294	24,859	25,761	North Carolina	56	1,425	460	1,369
New England	1,254	1,775	378	521	South Carolina	194	603	334	409
Maine	222	973	7	751	Georgia	155	166	4	11
New Hampshire	96	99	22	3	Florida	1,292	800	739	(492)
Vermont	76	59	1	(17)	East South Central	1,111	5,935	372	4,824
Massachusetts	200	237	257	37	Kentucky	504	2,859	191	2,355
Rhode Island	157	33	21	(124)	Tennessee	146	590	129	444
Connecticut	503	374	70	(129)	Alabama	199	1,129	30	930
Middle Atlantic	882	4,404	3,369	3,522	Mississippi	262	1,357	22	1,095
Upstate New York	102	430	142	328	West South Central	1,102	10,683	5,480	9,581
New York City	178	2,477	586	2,299	Arkansas	7	581	19	574
New Jersey	557	445	1,375	(112)	Louisiana	81	1,432	55	1,351
Pennsylvania	45	1,052	1,266	1,007	Oklahoma	8	1,154	181	1,146
East North Central	6,915	8,139	5,607	1,224	Texas	1,006	7,516	5,225	6,510
Ohio	256	2,553	1,895	2,297	Mountain	1,298	2,477	1,114	1,179
Indiana	1,192	1,107	201	(85)	Montana	12	708	95	696
Illinois	2,376	1,940	2,455	(436)	Idaho	10	586	9	576
Michigan	1,230	741	586	(489)	Wyoming	-	43	-	43
Wisconsin	1,861	1,798	470	(63)	Colorado	405	596	91	191
West North Central	958	3,630	3,095	2,672	New Mexico	82	286	141	204
Minnesota	18	39	27	21	Arizona	648	179	757	(469)
Iowa	691	1,274	96	583	Utah	141	76	14	(65)
Missouri	139	1,178	701	1,039	Nevada	-	3	7	3
North Dakota	42	135	278	93	Pacific	3,023	2,694	1,151	(329)
South Dakota	9	192	112	183	Washington	637	757	104	120
Nebraska	22	39	1,830	17	Oregon	28	390	122	362
Kansas	37	773	51	736	California	2,146	1,485	860	(661)
South Atlantic	1,990	4,557	4,293	2,567	Alaska	13	9	7	(4)
Delaware	9	22	321	13	Hawaii	199	53	58	(146)
Maryland	25	75	787	50	Guam	2	-	-	-
District of Columbia	1	6	441	5	Puerto Rico	358	190	1,218	(168)
Virginia	56	1,176	1,071	1,120	Virgin Islands	-	7	-	7
West Virginia	202	284	136	82					

*Includes Revisions through May 2, 1972

**Adjusted for 53rd Week

EPIDEMIOLOGIC NOTES AND REPORTS

CLOSTRIDIUM PERFRINGENS - Washington

On March 21, 1972, approximately 900 persons attended a PTA dinner in Lacey, Washington, and an estimated 288 persons subsequently became ill with gastroenteritis. The time of onset was known for 53 persons (Figure 3); the incubation period ranged from 8 to 20 hours. Diarrhea and cramping abdominal pain were the predominant symptoms (Table 2). The illness was generally mild and lasted 12-24 hours in most instances. Only a few persons consulted a physician, and no one was hospitalized.

The dinner consisted of spaghetti with meat sauce and tossed salad served with various dressings. Samples of the spaghetti sauce examined at the Washington State Health Services Division Laboratories were found to contain 11 mil-

lion *Clostridium perfringens* organisms per gram. Stool specimens were obtained from 11 ill persons, and all were positive for *C. perfringens*. Hobbs typing of the isolates is pending.

The spaghetti sauce, prepared 2 days prior to the dinner, consisted of cooked hamburger, tomato paste, water, and pre-packaged dry spaghetti-sauce mix. The sauce was placed in large containers (approximately 24" high and 18" wide) and refrigerated. In the 2-day period before the dinner was served, the containers were not refrigerated on two separate occasions for approximately 4 hours each time. Before being served, the sauce was reheated and combined with the spaghetti and heated a second time at 350°F. for 1-2 hours.

(Continued on page 168)

Morbidity and Mortality Weekly Report

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
FOR WEEKS ENDING MAY 13, 1972 AND MAY 15, 1971 (19th WEEK)

AREA	ASEPTIC MENIN- GITIS	BRUCEL- LOSIS	CHICKEN- POX	DIPHTHERIA		ENCEPHALITIS			HEPATITIS		
						Primary including unspec. cases		Post In- fectious	Serum (Hepatitis B)	Infectious (Hepatitis A)	
						1972	1971	1972		1972	1972
UNITED STATES	56	1	5,129	1	39	12	20	7	175	1,173	1,254
NEW ENGLAND	2	-	982	-	-	1	4	-	8	92	109
Maine *	-	-	43	-	-	-	-	-	1	7	16
New Hampshire	-	-	9	-	-	-	-	-	-	7	9
Vermont	-	-	5	-	-	-	-	-	-	3	6
Massachusetts	2	-	360	-	-	1	-	-	1	51	45
Rhode Island	-	-	145	-	-	-	3	-	2	13	16
Connecticut	-	-	420	-	-	-	1	-	4	11	17
MIDDLE ATLANTIC	17	1	484	-	1	-	3	-	76	167	225
Upstate New York	-	1	7	-	1	-	-	-	18	35	71
New York City	1	-	255	-	-	-	2	-	28	36	45
New Jersey	15	-	NN	-	-	-	1	-	15	59	72
Pennsylvania	1	-	222	-	-	-	-	-	15	37	37
EAST NORTH CENTRAL	8	-	2,369	1	2	3	8	-	27	213	213
Ohio	5	-	526	-	-	2	-	-	2	47	55
Indiana	1	-	122	-	-	-	1	-	2	7	9
Illinois	1	-	308	1	1	-	3	-	5	68	46
Michigan	1	-	564	-	1	1	2	-	15	87	103
Wisconsin	-	-	849	-	-	-	2	-	3	4	-
WEST NORTH CENTRAL	-	-	220	-	6	1	1	1	12	57	45
Minnesota	-	-	37	-	-	-	-	-	-	2	3
Iowa	-	-	140	-	-	-	1	1	4	9	6
Missouri	-	-	5	-	-	-	-	-	5	26	18
North Dakota	-	-	24	-	-	-	-	-	-	3	3
South Dakota	-	-	-	-	6	-	-	-	-	2	1
Nebraska	-	-	14	-	-	-	-	-	-	1	6
Kansas	-	-	-	-	-	1	-	-	3	14	8
SOUTH ATLANTIC	6	-	385	-	7	1	3	2	16	141	144
Delaware	-	-	3	-	-	-	-	-	-	-	4
Maryland	2	-	81	-	-	-	-	-	2	24	20
District of Columbia	-	-	26	-	-	-	-	-	1	5	3
Virginia	2	-	40	-	-	-	-	1	5	34	30
West Virginia *	-	-	208	-	-	1	-	-	-	8	5
North Carolina	-	-	NN	-	-	-	-	-	5	21	8
South Carolina	-	-	27	-	1	-	-	-	-	19	5
Georgia	-	-	-	-	2	-	-	-	-	6	15
Florida	2	-	-	-	4	-	3	1	3	24	54
EAST SOUTH CENTRAL	4	-	113	-	1	-	-	2	2	62	62
Kentucky	-	-	70	-	-	-	-	-	-	19	20
Tennessee	1	-	NN	-	-	-	-	1	1	39	23
Alabama	3	-	42	-	1	-	-	1	1	2	15
Mississippi	-	-	1	-	-	-	-	-	-	2	4
WEST SOUTH CENTRAL	7	-	16	-	20	1	1	-	7	176	149
Arkansas	-	-	11	-	-	-	-	-	-	4	5
Louisiana	2	-	NN	-	4	-	1	-	4	13	28
Oklahoma	-	-	2	-	-	1	-	-	1	28	14
Texas	5	-	3	-	16	-	-	-	2	131	102
MOUNTAIN	-	-	220	-	2	1	-	-	2	47	90
Montana *	-	-	20	-	-	1	-	-	-	3	1
Idaho	-	-	-	-	-	-	-	-	-	5	7
Wyoming	-	-	3	-	-	-	-	-	-	-	5
Colorado	-	-	42	-	-	-	-	-	1	12	31
New Mexico	-	-	35	-	1	-	-	-	-	11	14
Arizona *	-	-	81	-	1	-	-	-	-	12	11
Utah	-	-	39	-	-	-	-	-	1	4	9
Nevada	-	-	-	-	-	-	-	-	-	-	12
PACIFIC	12	-	340	-	-	4	-	2	25	218	217
Washington	-	-	338	-	-	-	-	-	-	29	20
Oregon	1	-	-	-	-	1	-	1	2	29	19
California	11	-	-	-	-	2	-	1	22	146	169
Alaska *	-	-	2	-	-	1	-	-	-	7	-
Hawaii	-	-	-	-	-	-	-	-	1	7	9
Guam *	-	-	-	-	-	-	-	-	-	-	-
Puerto Rico	-	-	24	-	-	-	-	-	3	24	18
Virgin Islands *	-	-	-	-	-	-	-	-	-	-	-

*Delayed reports: Chickenpox: Me. 62, V.I. 14
Diphtheria: Ariz. 1 (1971)

Hepatitis B: Mont. 1, Alaska delete 1
Hepatitis A: W.Va. delete 1, Guam 1, V.I. 1

Morbidity and Mortality Weekly Report

**TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
FOR WEEKS ENDING MAY 13, 1972 AND MAY 15, 1971 (19th WEEK) - Continued**

AREA	MALARIA		MEASLES (Rubeola)			MENINGOCOCCAL INFECTIONS, TOTAL			MUMPS		RUBELLA	
	1972	Cum. 1972	1972	Cumulative		1972	Cumulative		1972	Cum. 1972	1972	Cum. 1972
				1972	1971		1972	1971				
UNITED STATES	15	475	1,405	17,706	47,855	43	661	1,240	2,191	40,901	785	14,571
NEW ENGLAND	2	12	186	1,696	2,064	3	28	55	97	1,681	39	696
Maine *	-	-	8	171	899	-	3	7	5	188	-	57
New Hampshire	1	2	6	154	102	1	1	8	-	133	2	26
Vermont	-	-	5	95	81	-	-	-	-	76	3	23
Massachusetts *	-	5	46	310	173	1	14	20	15	440	18	365
Rhode Island	-	-	8	279	142	1	8	2	9	291	4	55
Connecticut	1	5	113	687	667	-	2	18	68	553	12	170
MIDDLE ATLANTIC	-	35	43	735	5,056	7	76	153	102	1,871	89	1,222
Upstate New York	-	7	7	91	329	2	18	40	NN	NN	7	159
New York City	-	5	15	154	2,818	3	21	24	64	875	3	130
New Jersey	-	11	15	454	678	-	19	41	16	570	38	736
Pennsylvania	-	12	6	36	1,231	2	18	48	22	426	41	197
EAST NORTH CENTRAL	-	47	580	6,719	9,524	10	90	130	663	11,453	313	4,026
Ohio	-	6	7	196	2,803	2	33	36	151	1,683	25	249
Indiana	-	1	56	994	1,676	-	9	6	32	770	29	478
Illinois	-	17	203	2,523	2,056	3	19	42	93	2,050	53	760
Michigan	-	21	105	1,246	1,022	4	25	36	115	1,979	88	920
Wisconsin	-	2	209	1,760	1,967	1	4	10	272	4,971	118	1,619
WEST NORTH CENTRAL	1	30	57	664	4,824	1	56	107	190	7,185	21	697
Minnesota	-	3	-	14	40	-	11	16	20	591	13	56
Iowa	-	3	53	430	1,853	1	2	7	141	5,110	3	323
Missouri	1	9	1	142	1,597	-	18	41	13	338	1	91
North Dakota	-	1	1	39	170	-	-	4	2	274	-	20
South Dakota	-	4	-	4	189	-	2	5	1	82	-	12
Nebraska	-	3	2	17	38	-	7	11	10	210	4	48
Kansas	-	7	-	18	937	-	16	23	3	580	-	147
SOUTH ATLANTIC	2	66	87	1,535	5,118	6	143	195	147	3,414	37	1,068
Delaware	-	-	-	12	29	-	1	1	2	39	-	2
Maryland	-	-	2	12	318	-	24	28	12	164	7	35
District of Columbia	-	1	-	-	9	-	4	8	2	7	-	1
Virginia	1	3	-	44	921	1	33	16	31	537	6	56
West Virginia	-	1	16	184	322	-	9	3	60	1,787	13	313
North Carolina	-	28	-	27	1,547	1	21	28	NN	NN	1	11
South Carolina	-	8	3	177	716	1	13	16	10	134	3	44
Georgia	1	19	-	122	178	-	3	14	-	1	-	30
Florida	-	6	66	957	1,078	3	35	81	30	745	7	576
EAST SOUTH CENTRAL	1	123	31	900	6,372	5	56	112	91	2,090	24	1,116
Kentucky	-	115	10	468	3,054	2	19	35	-	308	10	656
Tennessee	-	-	11	169	594	2	21	39	58	1,306	11	354
Alabama	1	4	9	120	1,394	1	10	22	30	383	1	27
Mississippi	-	4	1	143	1,330	-	6	16	3	93	2	79
WEST SOUTH CENTRAL	4	55	81	1,065	10,222	4	80	108	209	3,288	43	1,092
Arkansas	-	3	2	10	643	-	7	4	36	127	10	27
Louisiana	-	3	9	69	1,406	1	23	37	2	164	3	69
Oklahoma	-	3	1	9	673	-	6	6	5	145	-	25
Texas	4	46	69	977	7,500	3	44	61	166	2,852	30	971
MOUNTAIN	1	34	137	1,261	2,257	-	12	38	103	2,228	36	755
Montana *	1	2	-	12	835	-	2	3	4	140	1	22
Idaho	-	3	4	16	176	-	3	4	3	172	-	7
Wyoming	-	-	-	1	79	-	1	2	13	207	-	6
Colorado	-	22	33	382	624	-	2	6	22	580	20	408
New Mexico	-	1	3	84	220	-	1	3	9	454	4	64
Arizona	-	5	85	620	219	-	1	8	32	558	11	228
Utah	-	1	12	146	101	-	1	9	18	72	-	17
Nevada	-	-	-	-	3	-	1	3	2	45	-	3
PACIFIC	4	73	203	3,131	2,418	7	120	342	589	7,691	183	3,899
Washington	-	-	65	718	677	-	11	16	220	2,855	35	680
Oregon	-	7	8	36	226	2	10	21	92	940	16	265
California	3	56	130	2,298	1,421	4	95	300	270	3,683	132	2,899
Alaska	-	2	-	5	9	1	1	-	-	90	-	15
Hawaii	1	8	-	74	85	-	3	5	7	123	-	40
Guam	-	2	-	2	---	-	6	---	-	2	-	5
Puerto Rico	1	3	26	322	183	-	2	1	22	376	2	4
Virgin Islands *	-	-	-	1	5	-	2	-	-	117	-	3

*Delayed reports: Measles: Me. 1, Mass. delete 8, V.I. 1
Mumps: Me. 2, V.I. 10
Rubella: Mont. 3

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TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
FOR WEEKS ENDING MAY 13, 1972 AND MAY 15, 1971 (19th WEEK) - Continued

AREA	TETANUS	TB (New Active)	TULAREMIA		TYPHOID FEVER		TYPHUS FEVER TICK-BORNE (Rky. Mt. spotted fever)		VENEREAL DISEASES		RABIES IN ANIMALS	
	1972	1972	1972	Cum. 1972	1972	Cum. 1972	1972	Cum. 1972	GONOR- RHEA	SYPHILIS (Pri. & Sec.)	1972	Cum. 1972
									1972	1972		
UNITED STATES	4	625	2	41	6	95	10	31	13,196	501	87	1,620
NEW ENGLAND	-	26	-	-	-	5	-	-	454	14	3	61
Maine	-	-	-	-	-	-	-	-	28	2	3	54
New Hampshire	-	4	-	-	-	-	-	-	21	-	-	-
Vermont	-	1	-	-	-	-	-	-	5	-	-	6
Massachusetts	-	16	-	-	-	3	-	-	177	4	-	-
Rhode Island	-	1	-	-	-	-	-	-	33	1	-	-
Connecticut	-	4	-	-	-	2	-	-	190	7	-	1
MIDDLE ATLANTIC	-	155	-	1	3	21	-	3	1,722	114	1	31
Upstate New York	-	50	-	-	-	6	-	-	348	13	1	15
New York City	-	53	-	-	3	11	-	-	767	76	-	-
New Jersey	-	25	-	1	-	3	-	1	236	12	-	-
Pennsylvania	-	27	-	-	-	1	-	2	371	13	-	16
EAST NORTH CENTRAL	1	63	-	1	-	9	-	-	1,646	46	10	168
Ohio	-	32	-	1	-	5	-	-	752	14	4	59
Indiana	-	13	-	-	-	-	-	-	168	5	3	43
Illinois	-	12	-	-	-	-	-	-	135	-	2	26
Michigan	1	12	-	-	-	4	-	-	433	24	-	2
Wisconsin *	-	6	-	-	-	-	-	-	158	3	1	38
WEST NORTH CENTRAL	1	23	-	8	-	3	-	1	828	2	26	397
Minnesota	-	1	-	-	-	-	-	-	128	-	9	100
Iowa	-	1	-	-	-	-	-	-	141	-	8	111
Missouri	1	16	-	8	-	2	-	-	332	1	-	39
North Dakota	-	-	-	-	-	-	-	-	11	-	1	62
South Dakota	-	-	-	-	-	-	-	-	14	-	1	31
Nebraska *	-	4	-	-	-	-	-	-	74	-	2	7
Kansas *	-	1	-	-	-	1	-	1	128	1	5	47
SOUTH ATLANTIC	-	109	-	6	-	11	5	15	3,116	175	7	139
Delaware	-	1	-	-	-	-	-	-	28	-	-	-
Maryland	-	30	-	-	-	2	2	2	302	22	-	2
District of Columbia	-	7	-	-	-	1	-	-	214	19	-	-
Virginia	-	8	-	4	-	4	1	9	446	47	1	43
West Virginia	-	4	-	-	-	1	-	-	27	-	2	34
North Carolina	-	17	-	-	-	-	1	2	359	5	-	-
South Carolina	-	-	-	-	-	-	1	2	224	17	-	-
Georgia	-	21	-	1	-	-	-	-	753	33	2	36
Florida	-	21	-	1	-	3	-	-	763	32	2	24
EAST SOUTH CENTRAL	2	69	1	3	1	8	3	5	1,098	21	19	370
Kentucky *	-	15	-	-	-	2	-	-	221	3	5	127
Tennessee	2	18	1	2	1	2	3	4	470	9	11	204
Alabama	-	17	-	1	-	-	-	1	240	2	2	38
Mississippi	-	19	-	-	-	4	-	-	167	7	1	1
WEST SOUTH CENTRAL	-	31	1	19	1	8	2	7	1,841	47	16	343
Arkansas	-	6	1	11	-	3	1	1	71	-	-	54
Louisiana *	-	-	-	1	1	1	-	-	269	15	1	19
Oklahoma	-	10	-	4	-	1	1	4	277	1	10	159
Texas	-	15	-	3	-	3	-	2	1,224	31	5	111
MOUNTAIN	-	43	-	2	-	3	-	-	485	10	1	24
Montana *	-	-	-	-	-	-	-	-	12	-	-	-
Idaho	-	1	-	-	-	-	-	-	50	-	-	-
Wyoming	-	-	-	-	-	-	-	-	9	4	-	-
Colorado	-	9	-	1	-	-	-	-	132	-	-	-
New Mexico	-	12	-	-	-	1	-	-	98	3	-	3
Arizona	-	21	-	1	-	1	-	-	132	1	1	21
Utah	-	-	-	-	-	1	-	-	20	1	-	-
Nevada	-	-	-	-	-	-	-	-	32	1	-	-
PACIFIC	-	106	-	1	1	27	-	-	2,006	72	4	87
Washington	-	3	-	-	-	-	-	-	194	4	-	-
Oregon	-	5	-	-	-	-	-	-	176	1	-	-
California	-	92	-	-	1	24	-	-	1,613	67	4	83
Alaska *	-	-	-	1	-	-	-	-	23	-	-	4
Hawaii	-	6	-	-	-	3	-	-	-	-	-	-
Guam *	-	-	-	-	-	-	-	-	-	-	-	-
Puerto Rico	-	24	-	-	-	2	-	-	37	16	2	23
Virgin Islands	-	-	-	-	-	-	-	-	26	1	-	-

*Delayed reports: Tuberculosis: Wis. 13, Kans. delete 8, Ky. delete 1, Alaska delete 1, Guam 1
Gonorrhea: Nebr. 42, La. delete 5, Mont. delete 5, Guam 3

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TABLE IV. DEATHS IN 122 UNITED STATES CITIES FOR WEEK ENDING MAY 13, 1972

Week No.

19

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

Area	All Causes			Pneumonia and Influenza All Ages	Area	All Causes			Pneumonia and Influenza All Ages
	All Ages	65 years and over	Under 1 year			All Ages	65 years and over	Under 1 year	
NEW ENGLAND	657	410	31	34	SOUTH ATLANTIC	1,115	577	43	40
Boston, Mass.	227	132	14	15	Atlanta, Ga.	123	57	8	3
Bridgeport, Conn.	45	24	1	2	Baltimore, Md.	215	103	8	6
Cambridge, Mass.	28	14	3	4	Charlotte, N. C.	40	21	1	—
Fall River, Mass.	21	15	2	—	Jacksonville, Fla.	63	34	2	—
Hartford, Conn.	35	18	2	1	Miami, Fla.	88	46	1	1
Lowell, Mass.	22	17	1	—	Norfolk, Va.	53	31	1	4
Lynn, Mass.	21	15	2	2	Richmond, Va.	87	39	7	3
New Bedford, Mass.	31	22	—	—	Savannah, Ga.	26	15	3	2
New Haven, Conn.	49	31	2	—	St. Petersburg, Fla.	99	74	1	3
Providence, R. I.	57	40	2	7	Tampa, Fla.	65	38	2	6
Somerville, Mass.	12	9	—	1	Washington, D. C.	203	99	4	11
Springfield, Mass.	30	18	1	—	Wilmington, Del.	53	20	5	1
Waterbury, Conn.	37	24	1	—					
Worcester, Mass.	42	31	—	2	EAST SOUTH CENTRAL	637	375	26	28
					Birmingham, Ala.	107	65	4	2
MIDDLE ATLANTIC	3,135	1,938	74	115	Chattanooga, Tenn.	55	35	5	5
Albany, N. Y.	46	25	2	1	Knoxville, Tenn.	37	25	—	1
Allentown, Pa.	32	22	1	1	Louisville, Ky.	112	66	6	8
Buffalo, N. Y.	141	87	2	6	Memphis, Tenn.	111	56	4	1
Camden, N. J.	38	27	3	2	Mobile, Ala.	43	21	5	—
Elizabeth, N. J.	36	22	1	2	Montgomery, Ala.	41	27	—	3
Erie, Pa.	70	40	2	—	Nashville, Tenn.	131	80	2	8
Jersey City, N. J.	68	50	3	8					
Newark, N. J.	67	31	3	2	WEST SOUTH CENTRAL	1,181	566	81	35
New York City, N. Y. †	1,544	944	31	46	Austin, Tex.	36	18	2	1
Paterson, N. J.	36	18	2	2	Baton Rouge, La.	39	8	6	5
Philadelphia, Pa.	496	306	12	9	Corpus Christi, Tex.	29	13	2	—
Pittsburgh, Pa.	141	82	3	5	Dallas, Tex.	162	80	9	1
Reading, Pa.	41	26	—	4	El Paso, Tex.	27	14	4	3
Rochester, N. Y.	119	82	4	10	Fort Worth, Tex.	79	50	4	—
Schenectady, N. Y.	20	14	—	1	Houston, Tex.	259	105	16	8
Scranton, Pa.	43	23	—	4	Little Rock, Ark.	50	23	3	3
Syracuse, N. Y.	81	55	3	1	New Orleans, La.	159	73	6	2
Trenton, N. J.	54	40	2	2	Oklahoma City, Okla.	85	43	6	1
Utica, N. Y.	29	22	—	5	San Antonio, Tex.	135	74	12	4
Yonkers, N. Y.	33	22	—	4	Shreveport, La.	61	27	3	3
					Tulsa, Okla.	60	38	8	4
EAST NORTH CENTRAL	2,437	1,388	111	76	MOUNTAIN	491	286	32	20
Akron, Ohio	56	34	5	—	Albuquerque, N. Mex.	47	28	3	5
Canton, Ohio	33	18	1	1	Colorado Springs, Colo.	23	12	2	5
Chicago, Ill.	668	367	32	19	Denver, Colo.	128	73	7	5
Cincinnati, Ohio	127	78	2	3	Ogden, Utah	20	11	1	2
Cleveland, Ohio	168	92	9	3	Phoenix, Ariz.	133	74	8	—
Columbus, Ohio	131	66	8	2	Pueblo, Colo.	21	14	1	1
Dayton, Ohio	76	42	3	4	Salt Lake City, Utah	61	39	5	2
Detroit, Mich.	346	192	15	7	Tucson, Ariz.	58	35	5	—
Evansville, Ind.	47	28	—	3					
Flint, Mich.**	49	26	3	2	PACIFIC	1,597	968	58	35
Fort Wayne, Ind.	30	17	2	—	Berkeley, Calif.	21	14	—	1
Gary, Ind.	35	16	3	—	Fresno, Calif.	59	31	7	—
Grand Rapids, Mich.	68	51	2	7	Glendale, Calif.	28	20	—	—
Indianapolis, Ind.	138	84	9	2	Honolulu, Hawaii	52	26	8	1
Madison, Wis.	37	19	2	3	Long Beach, Calif.	104	69	1	—
Milwaukee, Wis.	148	90	3	1	Los Angeles, Calif.	417	250	13	11
Peoria, Ill.	36	21	4	3	Oakland, Calif.	87	56	2	2
Rockford, Ill.	37	25	2	—	Pasadena, Calif.	33	26	—	1
South Bend, Ind.	34	24	2	3	Portland, Ore.	127	90	2	3
Toledo, Ohio	115	66	2	10	Sacramento, Calif.	55	24	3	—
Youngstown, Ohio	58	32	2	3	San Diego, Calif.	108	65	4	—
					San Francisco, Calif.	209	114	3	3
WEST NORTH CENTRAL	763	473	32	32	San Jose, Calif.	53	39	1	4
Des Moines, Iowa	47	32	1	3	Seattle, Wash.	151	86	5	3
Duluth, Minn.	16	11	—	2	Spokane, Wash.	61	39	6	5
Kansas City, Kans.	42	17	3	3	Tacoma, Wash.	32	19	3	1
Kansas City, Mo.	122	74	3	4					
Lincoln, Nebr.	23	19	1	3	Total	12,013	6,981	488	415
Minneapolis, Minn.	101	65	6	3	Expected Number	12,748	7,308	549	458
Omaha, Nebr.	101	58	4	—	Cumulative Total	254,537	149,699	9,722	11,861
St. Louis, Mo.	214	129	9	6	(includes reported corrections				
St. Paul, Minn.	56	40	1	4	for previous weeks)				
Wichita, Kans.	41	28	4	4					
Las Vegas, Nev.*	22	11	2	—					

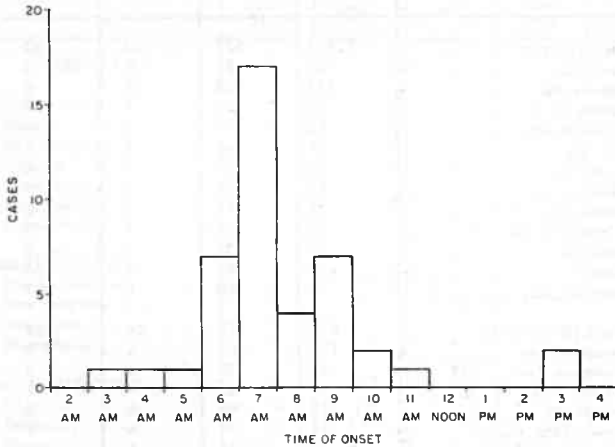
*Mortality data are being collected from Las Vegas, Nev., for possible inclusion in this table, however, for statistical reasons, these data will be listed only and not included in the total, expected number, or cumulative total, until 5 years of data are collected.

†Delayed report for week ending May 6, 1972

**Estimate based on average percent of divisional total

CLOSTRIDIUM PERFRINGENS - Continued

Figure 3
CLOSTRIDIUM PERFRINGENS CASES, BY TIME OF ONSET
LACEY, WASHINGTON - MARCH 22, 1972



Two unopened samples of the same brand of pre-packaged spaghetti-sauce mix were examined and found to contain small numbers of *C. perfringens* (49 and 130 organisms per 10 grams by most-probable-number method).

One factor contributing to this outbreak was the fact that the sauce was refrigerated in too large amounts to allow

Table 2
Symptoms of 53 Persons with *Clostridium perfringens* Infection
Lacey, Washington - March 22, 1972

Symptom	Number	Percent
Diarrhea	45	85
Abdominal pain	36	70
Nausea	7	13
Headache	2	4
Dizziness	1	2

thorough cooling. Another factor was improper refrigeration of the sauce after preparation.

(Reported by J. V. Deshaye, M.D., Health Officer, Charles A. Bartleson, R.S., Charles D. Leaf, R.S., sanitarians, Harold Amundson, R.S., Director of Environmental Health, Thurston-Mason Health District, Washington; Clarence V. Hall, Supervisor, Environmental Unit, Laboratory Section, Byron J. Francis, M.D., Head, Epidemiology Section, Health Services Division, Washington State Department of Social and Health Services; and an EIS Officer.)

Editorial Note

The significance of the small numbers of *C. perfringens* in the pre-packaged sauce mix is unclear, since the hamburger may also have been contaminated with this ubiquitous organism before it was mixed with the other ingredients.

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

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

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