

Morbidity and Mortality



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For Week Ending September 26, 1970

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EPIDEMIOLOGIC NOTES AND REPORTS
INDIGENOUSLY-ACQUIRED SHIGA BACILLUS DYSENTERY - New Mexico

On Sept. 10, 1970, the Enteric Bacteriology Unit, Laboratory Division, CDC, received a request for confirmation of an isolate of *Shigella dysenteriae* type 1. The isolate was confirmed on September 14. The patient, a 13-year-old girl and resident of Albuquerque, New Mexico, had never been outside this country but was exposed to her sister who had recently returned from Nicaragua.

This patient's 18-year-old sister had developed diarrhea, cramps, and nausea on July 30, 1970, while doing volunteer work near Leon, Nicaragua. On her return to Albuquerque the diarrhea was worse and was bloody, but two stool cultures were negative. The illness cleared without hospitalization or antibiotics. On August 12 the 13-year-old sister developed severe cramps, vomiting, and

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ANNOUNCEMENT
SCARLET FEVER STREPTOCOCCUS TOXIN

Commercially produced Scarlet Fever Streptococcus Toxin for the Dick Test is at present available through the Immunobiologics Activity, Laboratory Division, CDC. Requests for this material should be sent directly to the Immunobiologics Activity at CDC.

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

DISEASE	38th WEEK ENDED		MEDIAN 1965 - 1969	CUMULATIVE, FIRST 38 WEEKS		
	September 26, 1970	September 20, 1969		1970	1969	MEDIAN 1965 - 1969
Aseptic meningitis	351	196	136	3,824	2,218	2,062
Brucellosis	6	3	5	153	164	174
Diphtheria	16	7	4	310	117	117
Encephalitis, primary:						
Arthropod-borne & unspecified	47	24	61	1,029	837	1,178
Encephalitis, post-infectious	2	5	9	326	248	549
Hepatitis, serum	127	110	767	5,214	3,816	29,321
Hepatitis, infectious	1,247	1,055		40,772	33,965	
Malaria	70	77	32	2,453	2,089	1,434
Measles (rubeola)	156	161	204	39,807	20,549	58,049
Meningococcal infections, total	29	20	28	1,911	2,394	2,352
Civilian	27	20	26	1,720	2,188	2,170
Military	2	-	1	191	206	182
Mumps	628	509	-	76,645	68,711	-
Poliomyelitis, total	1	-	-	20	13	43
Paralytic	1	-	-	19	12	39
Rubella (German measles)	246	308	-	49,810	49,331	-
Tetanus	1	6	4	85	111	131
Tularemia	4	2	3	108	110	134
Typhoid fever	11	9	9	230	216	276
Typhus, tick-borne (Rky. Mt. spotted fever)	9	10	9	307	394	247
Rabies in animals	57	58	65	2,250	2,599	3,126

TABLE II. NOTIFIABLE DISEASES OF LOW FREQUENCY

	Cum.		Cum.
Anthrax:	1	Psittacosis: * Wisc.-1	24
Botulism:	9	Rabies in Man:	2
Leprosy: Md.-1	91	Rubella congenital syndrome: Calif.-2	48
Leptospirosis: * Fla.-1	32	Trichinosis:	73
Plague: N. Mex.-1	11	Typhus, murine:	31

*Delayed reports: Leptospirosis: N.Y. Ups. delete 1 (1969), Kans. 1 (1969)
Psittacosis: N.Y. Ups. 1, Kans. delete 1

SHIGA BACILLUS DYSENTERY — (Continued from front page)

diarrhea. She developed bloody diarrhea and dehydration and was hospitalized with a diagnosis of possible ulcerative colitis. Her stool culture was positive for *S. dysenteriae* type 1; she improved rapidly when ampicillin therapy was begun. No other family members or contacts became ill. Serology for *S. dysenteriae* type 1 is being performed on all family members.

(Reported by R. Tully, M.D., and David Post, M.D., Private Physicians, Albuquerque; Bruce Storrs, M.D., Director, Medical Services Division, Daniel Johnson, Ph.D., Director, and Norma Lindsey, Ph.D., Assistant Director, State Laboratory, New Mexico Health and Social Services Department; the Enteric Bacteriology Unit, Laboratory Division, CDC; and an EIS Officer.)

Editorial Comment:

This is the first documentation of secondary spread of Shiga's bacillus in this country reported to CDC during the current Middle American outbreak. Secondary spread of Shiga dysentery after its introduction by travelers returning to this country is a possibility. However, intro-

duction of the disease by air travelers poses a small risk to the public health because most of them return to a setting in which good sanitation and medical care minimize the risk of secondary transmission. In this case there was apparently only one secondary case. In contrast, migrant workers, Indians, and other members of lower socioeconomic groups, who develop dysentery after visiting epidemic foci in Mexico, constitute a more serious threat. These people may introduce the disease into settings conducive to transmission in populations more vulnerable to the severe form of the disease.

This patient and her sister demonstrate that the disease can be relatively mild and that the diagnosis can easily be missed even if cultures are obtained. *Shigella dysenteriae* type 1 is a fragile organism which grows poorly on inhibitory enteric media such as SS agar. In studies conducted at CDC, the organism has grown well on Tergitol 7, MacConkey's, XLD, blood agar, and heart infusion agar but very poorly on SS medium. Preliminary studies indicate that heart infusion agar containing 40 µg per ml of streptomycin may be useful for primary isolation.

FOLLOW-UP PLAGUE — New Mexico

The 15-year-old youth from Tijeras, New Mexico, hospitalized in Albuquerque 2 weeks ago with bubonic plague, has been discharged and has recovered (MMWR, Vol. 19, No. 37). In addition, plague was confirmed in his mother on September 29 when her convalescent serum was found to have a hemagglutination antibody titer of 1:64 against Fraction 1 of *Yersinia pestis*. She too has completely recovered. These cases bring the total number of plague cases for New Mexico in 1970 to nine.

Trapping activities have been completed at the patients' home and on the Isleta Indian Reservation. Thus far, serology on animals captured near the family home and on the family pets has been negative. Results from animals

captured on the Isleta Reservation and on flea pools are pending.

(Reported by Bruce Storrs, M.D., Director, Medical Services Division, Eva Wallen, M.D., District Health Officer, Brian Miller, Chief, General Sanitation Section, and Neil Weber, Supervisor, Vector Control Unit, Environmental Services Division, and Daniel Johnson, Ph.D., Director, State Laboratory, New Mexico Health and Social Services Department; W. Woodard, M.D., and Robert Friedenberg, M.D., Private Physicians, Albuquerque; Zoonoses Section, Ecologic Investigations Program, CDC, Fort Collins, Colorado; and two EIS Officers.)

CURRENT TRENDS
HEPATITIS — United States

From June 29, 1969, through July 4, 1970 (epidemiologic year 1970*), 59,431 cases of viral hepatitis were reported to the CDC. This represented a rate of 29.3 cases per 100,000 population in the United States, an increase of 11.8 percent over the rate of 26.2 cases per 100,000 population for the previous epidemiologic year (Table 1). Rate increases were observed in the fall, winter, and spring quarters of epidemiologic year 1970 compared with similar quarters of EY 1969. The rate of hepatitis during the summer quarters of both years was the same.

In the New England, Middle Atlantic, East North Central, and West South Central divisions, rates of hepatitis for each quarter of EY 1970 were higher than those of 1969 (Table 2). The New England division, in particular, experienced a striking rate increase (60.3 percent) during this period. For EY 1970 reported hepatitis rates were above the national average of 29.3 cases per 100,000 population in

Table 1
Number of Cases and Rate of Viral Hepatitis by Quarter
United States — 1969-1970

Quarter	EY 1969 (June 30, 1968 — June 28, 1969)		EY 1970 (June 29, 1969 — July 4, 1970)	
	Number	Rate*	Number	Rate*
Summer	12,659	6.3	12,640	6.3
Fall	13,702	6.9	15,382	7.6
Winter	13,198	6.6	15,684	7.8
Spring	13,024	6.5	15,725	7.8
Total	52,583	26.2	59,431	29.3

*Per 100,000 population

the Pacific, New England, and Middle Atlantic divisions (53.7, 48.1, and 31.0 cases per 100,000 population, respectively). Although the Pacific division continued to have the

(Continued on page 388)

Table 2
Reported Cases of Viral Hepatitis
by State in Three Epidemiological Years

STATE	EY 1968		EY 1969		EY 1970	
	CASES	RATE*	CASES	RATE*	CASES	RATE*
UNITED STATES	44,261	22.3	52,583	26.2	59,431	29.3
NEW ENGLAND	1,769	15.5	3,443	30.0	5,555	48.1
Maine	117	12.0	251	25.7	612	62.5
New Hampshire	37	5.3	121	17.0	249	34.3
Vermont	11	2.6	119	27.5	246	55.2
Massachusetts	744	13.6	1,518	27.8	2,775	50.8
Rhode Island	275	30.3	698	76.5	781	85.9
Connecticut	585	19.9	736	24.7	892	29.6
MIDDLE ATLANTIC	7,461	20.3	9,740	26.3	11,965	31.9
New York City	2,804	35.5	4,074	51.1	4,211	52.1
New York Upstate	1,376	13.6	1,537	15.0	1,982	19.1
New Jersey	1,657	23.5	1,927	27.1	2,832	39.5
Pennsylvania	1,624	13.9	2,202	18.7	2,940	24.8
EAST NORTH CENTRAL	6,631	16.8	7,662	19.3	9,368	23.4
Ohio	1,880	17.8	1,988	18.6	2,402	22.2
Indiana	506	10.0	545	10.7	666	12.9
Illinois	1,880	17.2	1,790	16.2	1,785	16.1
Michigan	1,893	21.8	2,858	32.7	4,115	46.9
Wisconsin	472	11.2	481	11.4	400	9.4
WEST NORTH CENTRAL	2,567	16.0	2,392	14.8	2,154	13.3
Minnesota	610	16.8	676	18.4	408	11.0
Iowa	475	17.1	390	14.0	362	13.0
Missouri	976	21.2	685	14.8	703	15.1
North Dakota	70	11.1	51	8.2	37	6.1
South Dakota	27	4.1	127	19.3	30	4.5
Nebraska	83	5.8	95	6.6	146	10.0
Kansas	326	14.3	368	16.0	468	20.0
SOUTH ATLANTIC	4,168	14.0	5,256	17.4	6,223	20.3
Delaware	165	31.2	104	19.4	133	24.5
Maryland	800	21.5	815	21.7	787	20.9
District of Columbia	71	8.8	69	8.6	100	12.6
Virginia	561	12.3	576	12.4	810	17.2
West Virginia	348	19.3	330	18.2	380	20.8
North Carolina	313	6.1	516	10.0	1,009	19.2
South Carolina	96	3.6	305	11.4	367	13.6
Georgia	998	22.0	937	20.4	755	16.1
Florida	816	13.4	1,604	25.7	1,882	29.2
EAST SOUTH CENTRAL	2,913	22.3	3,015	23.0	3,385	25.8
Kentucky	1,185	36.9	1,153	35.7	1,420	43.9
Tennessee	953	24.1	1,045	26.3	1,224	30.7
Alabama	286	8.1	413	11.7	422	12.0
Mississippi	489	20.9	404	17.2	319	13.5
WEST SOUTH CENTRAL	3,999	20.9	3,627	18.7	4,236	21.6
Arkansas	282	14.2	199	10.0	164	8.2
Louisiana	737	20.0	825	22.1	797	21.2
Oklahoma	513	20.4	327	12.9	462	17.8
Texas	2,467	22.6	2,276	20.5	2,813	24.9
MOUNTAIN	1,929	24.5	2,278	28.6	2,531	31.3
Montana	271	38.9	212	30.5	109	15.7
Idaho	107	15.2	122	17.2	107	14.7
Wyoming	32	10.1	50	15.7	110	34.2
Colorado	536	26.4	724	34.9	743	34.9
New Mexico	335	33.4	288	28.8	364	36.8
Arizona	422	25.6	483	28.8	660	38.6
Utah	206	20.0	327	31.4	278	26.5
Nevada	20	4.5	72	15.9	160	34.7
PACIFIC	12,824	50.4	15,170	58.8	14,014	53.7
Washington	957	29.5	1,353	40.5	1,272	36.7
Oregon	811	40.7	908	45.0	963	47.1
California	10,924	57.1	12,676	65.4	11,470	58.8
Alaska	50	18.4	95	34.2	103	36.0
Hawaii	82	10.6	138	17.5	206	25.7
Puerto Rico	970	35.8	1,209	44.2	1,184	42.7

*Rate per 100,000 population based on January 1 population estimates.
 1967-1968 - Average of July 1967 and July 1968 population estimates.
 1968-1969 - Average of July 1968 and July 1969 population estimates.
 1969-1970 - 1/2 increase or decrease from 1968 to 1969 added to 1969 population estimates.

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TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED
SEPTEMBER 26, 1970 AND SEPTEMBER 20, 1969 (38th WEEK)

AREA	ASEPTIC MENIN- GITIS	BRUCEL- LOSIS	DIPH- THERIA	ENCEPHALITIS			HEPATITIS			MALARIA	
				Primary including unsp. cases		Post In- fectious	Serum	Infectious		1970	Cum. 1970
				1970	1969	1970	1970	1970	1969		
UNITED STATES.....	351	6	16	47	24	2	127	1,247	1,055	70	2,453
NEW ENGLAND.....	10	-	-	1	2	-	3	98	127	2	72
Maine.....	-	-	-	-	-	-	-	16	4	1	7
New Hampshire.....	-	-	-	-	-	-	1	9	3	-	6
Vermont.....	-	-	-	-	-	-	-	1	5	-	5
Massachusetts.....	8	-	-	1	1	-	-	41	67	-	34
Rhode Island.....	1	-	-	-	1	-	-	11	34	-	8
Connecticut.....	1	-	-	-	-	-	2	20	14	1	12
MIDDLE ATLANTIC.....	69	-	-	7	1	-	43	259	219	6	260
New York City.....	40	-	-	-	-	-	24	65	79	-	34
New York, Up-State..	2	-	-	-	-	-	2	55	62	5	76
New Jersey.....	19	-	-	-	-	-	12	71	27	-	69
Pennsylvania.....	8	-	-	7	1	-	5	68	51	1	81
EAST NORTH CENTRAL.....	65	-	-	21	7	-	25	176	160	2	142
Ohio.....	13	-	-	10	1	-	4	51	48	-	27
Indiana.....	7	-	-	-	-	-	-	5	16	1	16
Illinois.....	8	-	-	-	-	-	4	34	33	-	39
Michigan.....	34	-	-	11	6	-	17	74	58	1	60
Wisconsin.....	3	-	-	-	-	-	-	12	5	-	-
WEST NORTH CENTRAL.....	17	3	-	-	3	-	4	39	27	12	235
Minnesota.....	12	-	-	-	-	-	-	4	9	1	20
Iowa.....	-	3	-	-	3	-	-	7	9	-	20
Missouri.....	2	-	-	-	-	-	2	20	3	2	21
North Dakota.....	-	-	-	-	-	-	-	-	-	-	3
South Dakota.....	-	-	-	-	-	-	-	-	-	-	2
Nebraska.....	-	-	-	-	-	-	-	2	1	-	3
Kansas.....	3	-	-	-	-	-	2	6	5	9	166
SOUTH ATLANTIC.....	50	-	3	7	2	1	19	140	125	21	473
Delaware.....	2	-	-	1	1	1	1	3	7	-	2
Maryland.....	5	-	1	-	-	-	2	22	17	2	52
Dist. of Columbia...	2	-	-	-	-	-	-	2	1	-	2
Virginia.....	16	-	-	-	-	-	1	21	11	3	62
West Virginia.....	2	-	-	-	-	-	1	6	10	-	7
North Carolina.....	4	-	-	-	-	-	4	20	7	5	187
South Carolina.....	-	-	-	1	-	-	-	11	4	5	44
Georgia.....	-	-	-	1	-	-	-	1	32	6	74
Florida.....	19	-	2	4	1	-	10	54	36	-	43
EAST SOUTH CENTRAL.....	25	-	2	1	1	-	-	86	57	2	164
Kentucky.....	5	-	-	-	-	-	-	16	32	-	133
Tennessee.....	6	-	-	1	1	-	-	42	14	-	-
Alabama.....	7	-	2	-	-	-	-	19	5	2	20
Mississippi.....	7	-	-	-	-	-	-	9	6	-	11
WEST SOUTH CENTRAL.....	15	2	11	1	1	-	8	95	67	16	438
Arkansas.....	-	-	-	-	-	-	1	8	-	-	9
Louisiana.....	12	-	5	-	1	-	3	17	16	-	32
Oklahoma.....	2	-	1	-	-	-	-	13	7	-	75
Texas.....	1	2	6	-	-	-	4	57	44	16	322
MOUNTAIN.....	21	-	-	3	3	-	-	77	36	2	193
Montana.....	-	-	-	-	-	-	-	4	2	-	10
Idaho.....	-	-	-	-	1	-	-	3	2	1	4
Wyoming.....	-	-	-	-	-	-	-	2	4	-	-
Colorado.....	8	-	-	3	2	-	-	35	9	-	161
New Mexico.....	1	-	-	-	-	-	-	2	4	-	8
Arizona.....	10	-	-	-	-	-	-	25	13	1	7
Utah.....	2	-	-	-	-	-	-	4	-	-	3
Nevada.....	-	-	-	-	-	-	-	2	2	-	-
PACIFIC.....	79	1	-	6	4	1	25	277	237	7	476
Washington.....	-	-	-	-	-	-	-	24	26	-	45
Oregon.....	-	-	-	-	-	-	1	20	25	-	15
California.....	76	1	-	6	4	1	24	226	180	4	304
Alaska.....	1	-	-	-	-	-	-	1	4	-	1
Hawaii.....	2	-	-	-	-	-	-	6	2	3	111
Puerto Rico,*.....	-	-	-	-	-	-	2	20	37	-	9
Virgin Islands.....	-	-	-	-	-	-	-	-	-	-	-

*Delayed reports: Aseptic meningitis: Va. delete 1

Encephalitis, primary: N.Y.Ups. 1, Minn. 3, Kans. delete 1

Encephalitis, post-infectious: N.Y.Ups. 1, Kans. delete 1

Hepatitis, serum: N.Y.Ups. 1, Kans. delete 1, P.R. 1

Hepatitis, infectious: N.Y.Ups. 31, delete 3(1969);
N.J. delete 2, Kans. delete 31,
add 3(1969), W.Va. delete 1, P.R. 1
Malaria: N.Y.Ups. delete 1, Iowa 1, Kans. 1

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
FOR WEEKS ENDED
SEPTEMBER 26, 1970 AND SEPTEMBER 20, 1969 (38th WEEK) - CONTINUED

AREA	MEASLES (Rubeola)			MENINGOCOCCAL INFECTIONS, TOTAL			MUMPS		POLIOMYELITIS		
	1970	Cumulative		1970	Cumulative		1970	Cum.	Total	Paralytic	
		1970	1969		1970	1969			1970	1970	Cum. 1970
UNITED STATES.....	156	39,807	20,549	29	1,911	2,394	628	76,645	1	1	19
NEW ENGLAND.....	3	886	1,112	1	83	93	57	8,968	-	-	-
Maine.....	1	205	9	-	3	6	4	693	-	-	-
New Hampshire.....	2	52	238	-	8	3	2	332	-	-	-
Vermont.....	-	8	3	-	7	-	1	587	-	-	-
Massachusetts.....	-	416	217	-	37	37	11	2,821	-	-	-
Rhode Island.....	-	120	27	1	6	12	28	1,529	-	-	-
Connecticut.....	-	85	618	-	22	35	11	3,006	-	-	-
MIDDLE ATLANTIC.....	22	4,881	7,512	7	350	393	50	7,605	-	-	-
New York City.....	9	891	4,917	3	84	75	11	2,786	-	-	-
New York, Up-State.*	3	285	599	1	67	76	NN	NN	-	-	-
New Jersey.....	1	1,708	903	-	132	157	8	2,086	-	-	-
Pennsylvania.....	9	1,997	1,093	3	67	85	31	2,733	-	-	-
EAST NORTH CENTRAL.....	22	9,813	2,252	5	220	330	193	20,528	-	-	2
Ohio.....	4	3,811	379	1	86	124	29	3,660	-	-	-
Indiana.*	1	272	466	-	19	39	13	1,832	-	-	-
Illinois.....	4	3,059	539	3	52	49	4	1,758	-	-	-
Michigan.....	5	1,733	287	1	53	95	34	5,004	-	-	1
Wisconsin.....	8	938	581	-	10	23	113	8,274	-	-	1
WEST NORTH CENTRAL.....	5	3,879	547	1	97	121	26	3,819	-	-	1
Minnesota.....	-	47	7	-	13	26	5	359	-	-	-
Iowa.*	-	1,147	331	-	12	18	11	2,328	-	-	-
Missouri.....	-	1,275	27	-	56	51	1	275	-	-	1
North Dakota.....	-	319	15	-	5	1	3	289	-	-	-
South Dakota.....	3	96	3	-	-	1	-	40	-	-	-
Nebraska.....	2	927	157	1	6	9	6	388	-	-	-
Kansas.*	-	68	7	-	5	15	-	140	-	-	-
SOUTH ATLANTIC.....	21	7,183	2,539	4	383	413	108	8,826	-	-	1
Delaware.....	1	261	381	-	3	10	1	309	-	-	-
Maryland.....	-	1,376	76	3	40	38	4	946	-	-	-
Dist. of Columbia....	-	343	24	-	3	9	-	188	-	-	-
Virginia.....	2	1,985	883	-	40	53	12	2,017	-	-	-
West Virginia.....	3	315	201	-	10	18	25	2,138	-	-	1
North Carolina.....	4	869	316	1	78	70	NN	NN	-	-	-
South Carolina.....	-	595	120	-	44	56	25	871	-	-	-
Georgia.....	-	14	2	-	34	70	1	3	-	-	-
Florida.....	11	1,425	536	-	131	89	40	2,354	-	-	-
EAST SOUTH CENTRAL.....	16	1,344	111	4	139	145	23	4,444	-	-	-
Kentucky.....	8	771	65	3	48	51	1	1,588	-	-	-
Tennessee.....	5	383	17	1	59	54	21	2,545	-	-	-
Alabama.....	2	100	6	-	23	24	1	263	-	-	-
Mississippi.....	1	90	23	-	9	16	-	48	-	-	-
WEST SOUTH CENTRAL.....	28	7,612	4,561	1	256	322	58	7,371	1	1	15
Arkansas.....	-	30	16	-	22	30	-	119	-	-	-
Louisiana.....	4	104	120	-	62	85	-	29	-	-	-
Oklahoma.....	9	473	140	-	20	31	19	2,439	-	-	-
Texas.....	15	7,005	4,285	1	152	176	39	4,784	1	1	15
MOUNTAIN.....	8	1,535	871	1	41	45	22	3,506	-	-	-
Montana.....	-	62	18	-	1	8	2	732	-	-	-
Idaho.....	2	45	89	-	6	8	-	89	-	-	-
Wyoming.....	-	11	-	-	2	-	-	36	-	-	-
Colorado.....	-	183	141	1	15	8	11	1,128	-	-	-
New Mexico.....	2	205	252	-	1	6	5	678	-	-	-
Arizona.....	4	973	361	-	13	10	4	719	-	-	-
Utah.....	-	35	9	-	2	3	-	124	-	-	-
Nevada.....	-	21	1	-	1	2	-	-	-	-	-
PACIFIC.....	31	2,674	1,044	5	342	532	91	11,578	-	-	-
Washington.....	-	526	59	-	44	55	24	4,269	-	-	-
Oregon.....	3	233	198	-	25	16	11	1,015	-	-	-
California.....	27	1,592	740	4	270	440	41	4,769	-	-	-
Alaska.....	-	138	8	-	-	11	-	379	-	-	-
Hawaii.....	1	185	39	1	3	10	15	1,146	-	-	-
Puerto Rico.....	16	914	1,509	-	5	19	9	760	-	-	-
Virgin Islands.....	-	6	41	-	1	-	1	2	-	-	-

* Delayed reports: Measles: N.Y. Ups, 5, Iowa 5, Kans. delete 5
Meningococcal infections: Ind, delete 1
Mumps: N.Y. Ups, delete 3 (1969), Kans 4, 3 (1969)

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TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
FOR WEEKS ENDED
SEPTEMBER 26, 1970 AND SEPTEMBER 20, 1969 (38th 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.....	246	49,810	1	85	4	108	11	230	9	307	57	2,250
NEW ENGLAND.....	26	2,474	-	3	-	1	-	7	-	-	2	78
Maine.....	6	398	-	-	-	-	-	-	-	-	-	27
New Hampshire.....	-	150	-	-	-	-	-	-	-	-	-	1
Vermont.....	-	53	-	-	-	-	-	-	-	-	1	42
Massachusetts.....	9	1,196	-	2	-	1	-	5	-	-	1	4
Rhode Island.....	6	113	-	-	-	-	-	-	-	-	-	1
Connecticut.....	5	564	-	1	-	-	-	2	-	-	-	3
MIDDLE ATLANTIC.....	19	3,968	-	9	-	2	-	46	-	12	3	203
New York City.....	3	589	-	3	-	-	-	11	-	-	-	-
New York, Up-State*	5	435	-	2	-	1	-	17	-	6	3	191
New Jersey.....	-	854	-	3	-	-	-	10	-	3	-	-
Pennsylvania.....	11	2,090	-	1	-	1	-	8	-	3	-	12
EAST NORTH CENTRAL....	54	10,334	1	15	-	18	1	33	-	9	4	186
Ohio.....	4	2,031	-	1	-	2	-	10	-	8	-	44
Indiana.....	14	1,872	-	6	-	12	-	2	-	-	1	21
Illinois.....	3	1,694	1	4	-	2	1	8	-	1	1	57
Michigan.....	18	2,680	-	4	-	-	-	11	-	-	1	20
Wisconsin.....	15	2,057	-	-	-	2	-	2	-	-	1	44
WEST NORTH CENTRAL....	13	3,290	-	4	1	26	-	7	1	4	11	426
Minnesota.....	1	118	-	1	-	1	-	1	-	-	2	94
Iowa.....	1	2,003	-	1	-	-	-	1	-	1	2	77
Missouri.....	5	416	-	1	1	22	-	1	1	3	4	80
North Dakota.....	-	149	-	-	-	1	-	2	-	-	1	29
South Dakota.....	-	1	-	1	-	1	-	-	-	-	-	60
Nebraska.....	6	554	-	-	-	-	-	2	-	-	-	6
Kansas*	-	49	-	-	-	1	-	-	-	-	2	80
SOUTH ATLANTIC.....	39	6,296	-	23	1	10	-	30	8	206	15	459
Delaware.....	2	44	-	-	-	-	-	-	-	4	-	-
Maryland.....	2	319	-	-	-	-	-	9	-	20	-	1
Dist. of Columbia..	-	19	-	1	-	-	-	1	-	-	-	-
Virginia.....	18	714	-	1	1	2	-	4	3	54	3	188
West Virginia.....	10	1,304	-	-	-	-	-	-	-	5	4	118
North Carolina.....	-	43	-	3	-	4	-	2	5	80	-	1
South Carolina.....	3	646	-	1	-	-	-	-	-	35	-	-
Georgia.....	-	-	-	5	-	3	-	8	-	8	7	85
Florida.....	4	3,207	-	12	-	1	-	6	-	-	1	66
EAST SOUTH CENTRAL....	14	2,659	-	9	1	6	6	32	-	35	6	182
Kentucky.....	3	931	-	1	-	1	2	8	-	3	4	98
Tennessee.....	7	1,366	-	3	1	5	3	15	-	22	1	51
Alabama.....	4	283	-	5	-	-	-	8	-	7	1	32
Mississippi.....	-	79	-	-	-	-	1	1	-	3	-	1
WEST SOUTH CENTRAL....	25	8,821	-	13	-	27	3	21	-	34	8	385
Arkansas.....	-	34	-	3	-	11	2	5	-	6	-	65
Louisiana.....	-	150	-	3	-	4	1	3	-	1	-	56
Oklahoma.....	3	811	-	-	-	9	-	1	-	22	5	81
Texas.....	22	7,826	-	7	-	3	-	12	-	5	3	183
MOUNTAIN.....	18	1,997	-	-	1	11	-	13	-	6	3	74
Montana.....	1	316	-	-	1	1	-	1	-	1	-	1
Idaho.....	2	195	-	-	-	-	-	-	-	2	-	-
Wyoming.....	-	134	-	-	-	-	-	1	-	1	-	3
Colorado.....	1	394	-	-	-	-	-	3	-	2	-	34
New Mexico.....	-	211	-	-	-	-	-	6	-	-	-	11
Arizona.....	14	585	-	-	-	-	-	1	-	-	1	12
Utah.....	-	162	-	-	-	10	-	1	-	-	1	3
Nevada.....	-	-	-	-	-	-	-	-	-	-	1	10
PACIFIC.....	38	9,971	-	9	-	7	1	41	-	1	5	257
Washington.....	9	4,622	-	2	-	2	-	4	-	-	-	9
Oregon.....	3	846	-	3	-	1	-	1	-	-	1	2
California.....	26	4,199	-	4	-	4	1	33	-	1	4	246
Alaska.....	-	98	-	-	-	-	-	2	-	-	-	-
Hawaii.....	-	206	-	-	-	-	-	1	-	-	-	-
Puerto Rico.....	-	27	-	9	-	-	-	4	-	-	2	41
Virgin Islands.....	1	-	-	-	-	-	-	1	-	-	-	-

*Delayed Reports: Rubella: N.Y. Ups 7, delete 1 (1969), Kans. delete 7, add 1 (1969)

Rabies in animals: N.Y. Ups 3, delete 1 (1969), Kans. delete 3, add 1 (1969)

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Week No. **38** **TABLE IV. DEATHS IN 122 UNITED STATES CITIES FOR WEEK ENDED SEPTEMBER 26, 1970**

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

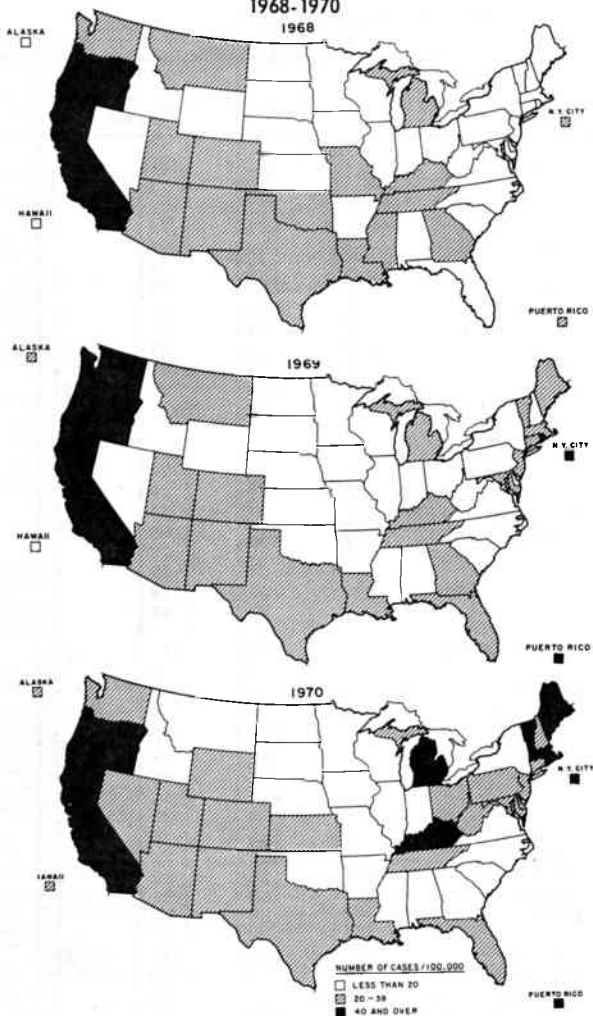
Area	All Causes		Pneumonia and Influenza All Ages	Under 1 year All Causes	Area	All Causes		Pneumonia and Influenza All Ages	Under 1 year All Causes
	All Ages	65 years and over				All Ages	65 years and over		
NEW ENGLAND:	721	431	48	35	SOUTH ATLANTIC:	1,173	586	49	85
Boston, Mass.-----	228	121	13	13	Atlanta, Ga.-----	153	75	8	12
Bridgeport, Conn.-----	47	26	7	4	Baltimore, Md.-----	219	108	1	13
Cambridge, Mass.-----	30	23	8	—	Charlotte, N. C.-----	61	26	—	6
Fall River, Mass.-----	29	23	—	—	Jacksonville, Fla.-----	64	33	—	4
Hartford, Conn.-----	55	31	—	4	Miami, Fla.-----	102	54	2	3
Lowell, Mass.-----	24	15	1	1	Norfolk, Va.-----	50	25	4	2
Lynn, Mass.-----	22	14	—	1	Richmond, Va.-----	77	42	12	2
New Bedford, Mass.-----	30	19	1	—	Savannah, Ga.-----	41	25	5	4
New Haven, Conn.-----	50	26	—	6	St. Petersburg, Fla.-----	78	61	1	1
Providence, R. I.-----	62	32	5	2	Tampa, Fla.-----	79	41	4	4
Somerville, Mass.-----	20	12	3	—	Washington, D. C.-----	213	77	11	30
Springfield, Mass.-----	41	27	6	3	Wilmington, Del.-----	36	19	1	4
Waterbury, Conn.-----	29	24	—	—	EAST SOUTH CENTRAL:	634	325	22	27
Worcester, Mass.-----	54	38	4	1	Birmingham, Ala.-----	80	38	2	3
MIDDLE ATLANTIC:	3,027	1,740	112	120	Chattanooga, Tenn.-----	48	24	1	—
Albany, N. Y.-----	49	27	2	3	Knoxville, Tenn.-----	34	21	1	—
Allentown, Pa.-----	30	25	2	1	Louisville, Ky.-----	130	69	8	12
Buffalo, N. Y.-----	130	73	3	6	Memphis, Tenn.-----	160	79	2	2
Camden, N. J.-----	36	16	—	4	Mobile, Ala.-----	54	25	—	5
Elizabeth, N. J.-----	31	16	—	2	Montgomery, Ala.-----	36	18	6	3
Erie, Pa.-----	41	22	4	4	Nashville, Tenn.-----	92	51	2	2
Jersey City, N. J.-----	61	30	5	4	WEST SOUTH CENTRAL:	1,130	543	47	99
Newark, N. J.-----	69	30	4	2	Austin, Tex.-----	34	19	3	3
New York City, N. Y.†-----	1,536	890	52	54	Baton Rouge, La.-----	42	15	2	2
Paterson, N. J.-----	43	20	1	3	Corpus Christi, Tex.-----	18	8	—	1
Philadelphia, Pa.-----	395	220	3	10	Dallas, Tex.-----	148	72	3	10
Pittsburgh, Pa.-----	199	108	9	9	El Paso, Tex.-----	55	24	4	11
Reading, Pa.-----	51	35	1	3	Fort Worth, Tex.-----	81	46	6	6
Rochester, N. Y.-----	135	88	17	3	Houston, Tex.-----	235	96	6	18
Schenectady, N. Y.-----	30	24	3	—	Little Rock, Ark.-----	58	25	2	7
Scranton, Pa.-----	25	12	—	3	New Orleans, La.-----	105	39	2	5
Syracuse, N. Y.-----	66	42	3	4	Oklahoma City, Okla.-----	106	44	3	17
Trenton, N. J.-----	42	23	1	4	San Antonio, Tex.-----	135	83	2	10
Utica, N. Y.-----	25	16	1	1	Shreveport, La.-----	56	34	9	7
Yonkers, N. Y.-----	33	23	1	—	Tulsa, Okla.-----	57	38	5	2
EAST NORTH CENTRAL:	2,561	1,437	81	149	MOUNTAIN:	508	293	25	42
Akron, Ohio-----	51	26	—	3	Albuquerque, N. Mex.-----	49	26	9	5
Canton, Ohio-----	33	23	2	1	Colorado Springs, Colo.-----	33	25	3	1
Chicago, Ill.-----	689	362	17	50	Denver, Colo.-----	152	84	5	18
Cincinnati, Ohio-----	175	99	5	11	Ogden, Utah-----	22	13	2	—
Cleveland, Ohio-----	208	114	9	11	Phoenix, Ariz.-----	123	65	—	9
Columbus, Ohio-----	138	77	3	5	Pueblo, Colo.-----	16	13	4	1
Dayton, Ohio-----	87	40	5	7	Salt Lake City, Utah-----	55	31	1	3
Detroit, Mich.-----	342	191	5	17	Tucson, Ariz.-----	58	36	1	5
Evansville, Ind.-----	37	20	4	1	PACIFIC:	1,574	965	40	47
Flint, Mich.-----	51	28	4	4	Berkeley, Calif.-----	16	12	1	—
Fort Wayne, Ind.-----	47	27	2	3	Fresno, Calif.-----	51	26	1	7
Gary, Ind.-----	34	23	3	2	Glendale, Calif.-----	29	20	—	—
Grand Rapids, Mich.-----	40	18	4	6	Honolulu, Hawaii-----	38	14	—	5
Indianapolis, Ind.-----	155	85	2	6	Long Beach, Calif.-----	112	62	4	4
Madison, Wis.-----	42	22	4	3	Los Angeles, Calif.-----	498	320	13	11
Milwaukee, Wis.-----	138	94	1	—	Oakland, Calif.-----	56	35	1	1
Peoria, Ill.-----	43	24	1	6	Pasadena, Calif.-----	33	26	—	1
Rockford, Ill.-----	25	14	2	3	Portland, Oreg.-----	147	83	3	5
South Bend, Ind.-----	47	29	3	1	Sacramento, Calif.-----	66	44	3	1
Toledo, Ohio-----	121	84	4	7	San Diego, Calif.-----	86	48	1	5
Youngstown, Ohio-----	58	37	1	2	San Francisco, Calif.-----	171	103	5	3
WEST NORTH CENTRAL:	778	492	22	43	San Jose, Calif.-----	37	23	—	—
Des Moines, Iowa-----	58	45	1	—	Seattle, Wash.-----	143	82	4	1
Duluth, Minn.-----	20	13	4	1	Spokane, Wash.-----	51	41	3	1
Kansas City, Kans.-----	33	17	—	4	Tacoma, Wash.-----	40	26	1	2
Kansas City, Mo.-----	114	67	3	5	Total	12,106	6,812	446	647
Lincoln, Nebr.-----	33	21	—	1	Expected Number	12,105	6,859	390	543
Minneapolis, Minn.-----	122	84	3	10	Cumulative Total (includes reported corrections for previous weeks)	489,890	279,407	19,229	23,259
Omaha, Nebr.-----	79	46	1	6					
St. Louis, Mo.-----	197	119	6	6					
St. Paul, Minn.-----	71	48	3	6					
Wichita, Kans.-----	51	32	1	4					
Las Vegas, Nev.*	21	6	1	4					

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

† Delayed Report for week ended Sept. 19, 1970

HEPATITIS - (Continued from page 382)

Figure 1
REPORTED VIRAL HEPATITIS CASE RATES BY STATE
1968-1970



highest attack rate of the nine divisions in the United States, it actually experienced a decline in incidence of reported hepatitis for EY 1970 compared with 1969; the only other division that experienced a decline in rate was the West North Central.

Rates of reported hepatitis by state for the past 3 epidemiologic years are presented in Figure 1. In EY 1968 two states had rates greater than 40 cases per 100,000 population; in EY 1969 four states as well as New York City and Puerto Rico and in EY 1970 eight states, New York City, and Puerto Rico had rates of this magnitude. In EY 1970 four of the five states with highest hepatitis rates were from the New England area; these were Rhode Island (85.9), Maine (62.5), Vermont (55.2), and Massachusetts (50.8); the other state was California with a rate of 58.8. Rhode Island has reported the highest rates for the past 2 epidemiologic years (76.5 and 85.9 cases per 100,000 population, respectively.)

(Reported by the Viral Diseases Branch, Epidemiology Program, CDC.)

*The epidemiologic year (EY) for hepatitis runs from the 27th week of one year through the 26th week of the succeeding year. Thus, the period June 29, 1969, through July 4, 1970, is EY 1970.

THE MORBIDITY AND MORTALITY WEEKLY REPORT, WITH A CIRCULATION OF 21,000 IS PUBLISHED AT THE CENTER FOR DISEASE CONTROL, ATLANTA, GEORGIA.

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

CENTER FOR DISEASE CONTROL
ATTN: THE EDITOR
MORBIDITY AND MORTALITY WEEKLY REPORT
ATLANTA, GEORGIA 30333

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

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