

MNWR

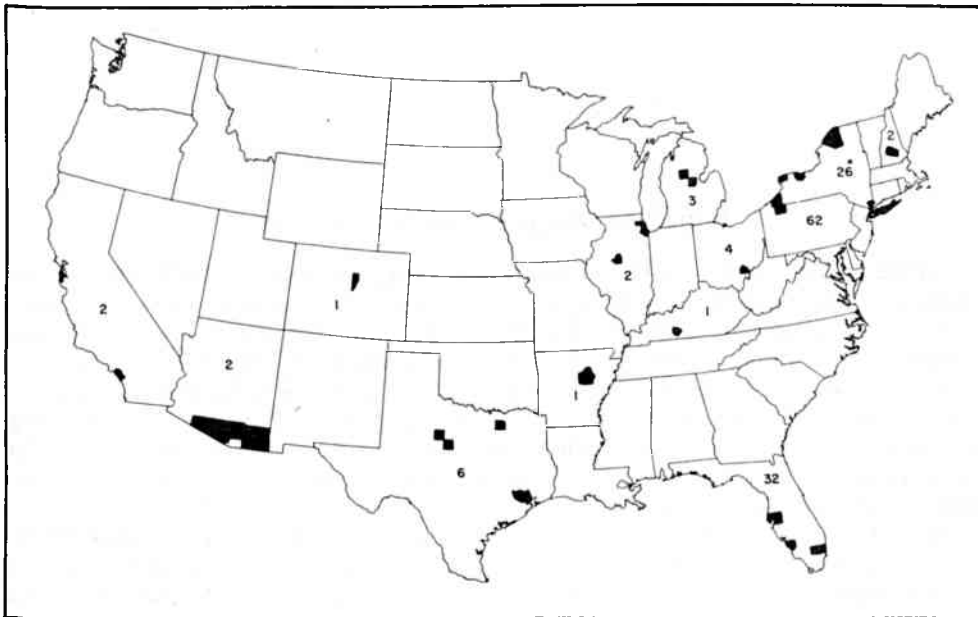
Epidemiologic Notes and Reports

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Measles, United States — Weeks 45-48, 1981

In the first 48 weeks of 1981, a total of 2,961 cases of measles were reported in the United States. This represents a 78% decrease from the 13,255 cases reported in the same period in 1980. During the 4-week period from November 8 to December 5, 1981, reporting weeks 45-48, 144 cases were reported. Of these 144 cases, 120 (83%) occurred in Pennsylvania (62), Florida (32), New York City (15), and upstate New York (11). Only 1% (31) of the nation's 3,144 counties reported measles during this period (Figure 1). For the first 48 weeks of 1981, only 311 (10%) counties in the United States have reported measles.

FIGURE 1. States and counties reporting measles, weeks 45-48, November 8-December 5, 1981



*15 cases from New York City and 11 cases from upstate New York.

Measles — Continued

During weeks 45-48 there were 4 measles importations; 2 from El Salvador, 1 from Malaysia, and 1 from Indonesia. All 4 cases involved foreign citizens. The cases were reported from California, Illinois, New Hampshire, and Ohio. One importation from El Salvador involved a 16-year-old high school foreign-exchange student who had rash onset 12 days after arrival in the United States. The patient's measles-immunity status was not assessed before arrival in the United States. Another 16-year-old student attending the same school acquired measles from the foreign-exchange student. The imported case from Malaysia involved a child. Four other children contracted measles from this individual.

Reported by Immunization Div, Center for Prevention Svcs, CDC.

Editorial Note: Measles transmission continues to occur at very low levels in the United States. In the 4-week period discussed, 99% of the nation's 3,144 counties reported no measles, suggesting that measles transmission has been interrupted in these counties. The majority of measles cases in this period have been reported from 3 states. These states are implementing aggressive measles-control efforts. It is suggested that foreign students entering the United States be immune to measles before arrival in the United States (1). All states currently require evidence of immunity to measles for school entry at kindergarten and first grade. In addition, 38 states and the District of Columbia require such evidence for students in attendance from kindergarten through 12th grade. Therefore, it is recommended that agencies sponsoring foreign students inform such students of these requirements before arrival in the United States. Similarly, American students going abroad to study should make sure that they are immune to measles (either vaccination with live measles vaccine on or after the first birthday or history of physician-diagnosed measles) before departing the United States.

References

1. CDC. Measles importations—United States. MMWR 1981;30:455-6, 461-2.

Imported Dengue Type 4 — Florida

On November 6, 1981, the Florida State Epidemiologist's office received a call from the Manatee County Health Department reporting 5 cases of possible dengue fever among members of a group returning to Manatee County from Kingston, Jamaica. An investigation was initiated, and the following history was established by contacting the individuals involved.

On October 12, a group of 7 young adults from the Sarasota area departed for Kingston. They arrived in Kingston that same evening and spent the entire 5 days of their stay attending a study course in a church near downtown Kingston. The sleeping quarters were reported not to have screened windows, and all 7 members of the group reported being bitten by mosquitoes on numerous occasions at all hours of the day.

On October 17, the group left Kingston and stayed in the Miami area October 17-22. During this time, the male members of the group stayed in a motel in Ft. Lauderdale, and the women stayed in a private home in Miami. The first person became ill on October 17, and the other 4 were ill by October 23. All 5 ill persons reported fever, malaise, retroorbital headaches, and myalgia, and 2 reported rash. None of the persons reported any petechiae, epistaxis, or other hemorrhagic manifestations. None required hospitalization. Symptoms gener-

Dengue — Continued

ally lasted from 7 to 10 days and resolved spontaneously. Acute-phase serum specimens were obtained on October 26 from the 5 ill persons, and convalescent-phase serum specimens were obtained from 4 of these 5 on November 10. Hemagglutination-inhibition (HI) tests were performed by the Epidemiology Research Center of the Florida Department of Health and Rehabilitative Services. All 5 patients had presumptive evidence of primary dengue type 4 infection. Portions of 4 paired serum specimens have since been subjected to complement-fixation testing at CDC. Three of the 4 showed a >4-fold rise in titer to dengue type 4; the fourth had a rise in titer but to a less significant level. Mosquito-control personnel investigated the areas around the motel in Ft. Lauderdale and the private home in Miami for evidence of vector-breeding sites. None was found, and no vector-control activities were initiated.

Reported by J Ambrusko, MD, Manatee County Health Dept, NW Nelms, Mosquito Control Div, Metro Dade Public Works Dept, IK Renneisen, Broward County Mosquito Control Div, J Rullán (University of San Juan, Puerto Rico), FM Wellings, Epidemiology Research Center, RA Gunn, MD, MPH, State Epidemiologist, Florida State Dept of Health and Rehabilitative Svcs; Field Svcs Div, Epidemiology Program Office, Vector-Borne Diseases Div, Center for Infectious Diseases, CDC.

Editorial Note: Dengue type 4 activity in the Caribbean was reported for the first time in April 1981. Outbreaks occurred between February and May in the French West Indies—St. Barthelemy, St. Martin, and Guadeloupe—and in May, an epidemic occurred in Dominica (1,2). The causative virus has recently been isolated in specimens from patients infected in Jamaica, Puerto Rico, or Haiti. Illness associated with dengue type 4 viral infection has been self-limited and generally mild, with no evidence of hemorrhagic fever. The incidence of dengue type 4 infection has been low to moderate, and in spite of a widening dissemination of the virus, it has not caused widespread outbreaks of illness in the Caribbean. The overall risk of secondary transmission in Florida associated with imported dengue cases is thought to be negligible.

References

1. CDC. Dengue type 4 infections in U.S. travelers to the Caribbean. MMWR 1981;30: 249-50.
2. Caribbean Epidemiology Center. Dengue in the Caribbean. PAHO 1981;7(#7):July.

Water-Related Disease Outbreaks in the United States - 1980

CDC and the Environmental Protection Agency (EPA) maintain a largely passive surveillance system for water-related disease outbreaks; such a system cannot be expected to reflect all outbreaks. In 1980, 66 reports were received of outbreaks of acute water-related disease associated with drinking water, nonpotable surface water, and recreational water. Of these outbreaks, 50, affecting 20,008 people, were caused by water intended for human consumption. This is the highest number of outbreaks and cases related to potable water reported in any year since the current surveillance system began in 1971. (Twenty-five states reported at least 1 outbreak each.)

In 22 (44%) of these 50 outbreaks, the cause was determined: *Giardia lamblia* (7), a chemical agent (7), Norwalk agent (5), *Shigella* (1), *Campylobacter jejuni* (1), and hepatitis A (1). The illness associated with the 28 outbreaks for which the agent was not determined was characterized by upper or lower gastrointestinal-tract symptoms and, in most instances, an incubation period of 12-48 hours.

Water-Related Disease Outbreaks — Continued

Water systems are divided into 3 types. Community systems are public systems that have more than 15 service connections or serve more than 25 people. Non-community systems are public systems that do not meet these criteria. Individual systems serve single private households. EPA estimates that 180 million people use community systems, 20 million use non-community systems, and 30 million use individual systems. For the second year in a row, outbreaks related to community systems (23 [46%]) slightly outnumbered those related to non-community systems (22 [44%]). The average number of cases per community-system-related outbreak (818) was 16 times that per non-community-system-related outbreak (51). Individual water supplies accounted for 10% of the outbreaks. Of the 23 outbreaks related to community water supplies, treatment deficiencies, implicated in 11 outbreaks (48%) were the single largest cause. Of the 22 outbreaks related to non-community water supplies, 10 (45%) were caused by untreated water.

In addition to the outbreaks related to water intended for drinking, 3 reported outbreaks resulted from consumption of untreated surface water not meant for drinking. Two of these, 1 caused by *Giardia* and the other by *Campylobacter*, involved groups of hikers in back-country areas. The third, of unknown cause, affected members of a road work crew.

A third group of water-related disease outbreaks involving more than 500 persons resulted from use of recreational water. Thirteen outbreaks were reported in 1980, the largest number

(Continued on page 633)

TABLE 1. Summary — cases of specified notifiable diseases, United States

DISEASE	50th WEEK ENDING			CUMULATIVE, FIRST 50 WEEKS		
	December 19 1981	December 13 1980	MEDIAN 1976-1980	December 19 1981	December 13 1980	MEDIAN 1976-1980
Aseptic meningitis	148	149	112	8,865	7,569	6,288
Brucellosis	4	2	2	157	173	186
Chickenpox	3,480	4,010	3,548	189,959	179,100	179,100
Encephalitis:	22	19	12	1,363	1,160	1,150
Primary (arthropod-borne & unsp.)	1	6	6	81	211	211
Post-infectious	19,758	20,495	21,315	961,947	970,412	970,104
Gonorrhea:	471	618	439	26,322	25,893	25,893
Civilian	546	641	641	24,246	27,302	28,702
Military	421	488	383	19,942	17,667	14,393
Hepatitis:	213	231	206	10,551	11,216	8,555
Type A	—	3	3	230	210	150
Type B	16	40	8	1,275	1,969	703
Type unspecified	44	42	168	3,012	13,354	26,359
Leprosy	76	44	44	3,333	2,587	2,324
Malaria	76	44	44	3,320	2,568	2,297
Measles (rubella)	—	—	—	13	19	20
Meningococcal infections:	146	110	335	4,459	8,225	16,012
Total	31	26	26	1,164	1,610	1,610
Civilian	15	94	98	2,009	3,749	11,917
Military	724	595	508	29,902	26,349	22,992
Mumps	2	7	5	355	307	307
Pertussis	621	678	689	26,348	26,125	27,983
Rubella (German measles)	11	10	6	261	223	156
Syphilis (Primary & Secondary):	11	4	4	568	486	486
Civilian	11	7	6	1,175	1,151	1,038
Military	92	90	59	6,866	6,155	3,070
Tuberculosis						
Tularemia						
Typhoid fever						
Typhus fever, tick-borne (RMSF)						
Rabies, animal						

TABLE II. Notifiable diseases of low frequency, United States

	CUM. 1981		CUM. 1981
Anthrax (Ohio 1)	1	Poliomyelitis: Total	6
Botulism (Ohio 1, Calif. 1)	78	Paralytic	6
Cholera	19	Psittacosis (Utah 2, Calif. 3)	102
Congenital rubella syndrome	11	Rabies, human	1
Diphtheria	4	Tetanus (Ohio 1, Tex. 1)	60
Leptospirosis (Mich. 1)	52	Trichinosis (Mass. 1, Pa. 1, Ohio 1)	133
Plague	9	Typhus fever, flea-borne (endemic, murine) (Tex. 1)	47

TABLE III. Cases of specified notifiable diseases, United States, weeks ending
December 19, 1981 and December 13, 1980 (50th week)

REPORTING AREA	ASEPTIC MENIN- GITIS	BRUCEL- LOSIS	CHICKEN- POX	ENCEPHALITIS		GONORRHEA (Civilian)		HEPATITIS (Viral), by type			LEPROSY
				Primary	Post-in- fectious			A	B	Unspecified	
	1981	CUM. 1981	1981	CUM. 1981	CUM. 1981	CUM. 1981	CUM. 1980	1981	1981	1981	CUM. 1981
UNITED STATES	148	157	3,480	1,363	81	961,947	970,412	546	421	213	230
NEW ENGLAND	1	6	447	46	8	23,545	24,673	23	12	13	5
Maine	—	—	82	1	—	1,278	1,376	—	1	—	—
N.H.	1	—	111	4	—	862	849	2	—	—	1
Vt.	—	—	23	—	—	420	533	2	—	—	—
Mass.	—	4	108	18	1	9,839	10,428	9	3	13	3
R.I.	—	1	67	1	2	1,443	1,576	4	3	—	—
Conn.	—	1	56	22	5	9,703	9,911	6	5	—	1
MID. ATLANTIC	14	7	80	112	9	116,318	109,625	50	59	31	14
Upstate N.Y.	6	3	54	33	3	20,486	19,427	22	20	8	3
N.Y. City	3	1	26	20	—	47,437	43,887	8	9	4	9
N.J.	2	1	N	17	—	21,790	19,911	20	30	19	2
Pa.	3	2	—	42	6	26,605	26,400	U	U	U	—
E.N. CENTRAL	28	7	1,963	482	11	141,936	150,784	76	56	31	22
Ohio	17	1	116	237	2	44,744	40,267	19	19	11	1
Ind.	5	1	153	145	8	11,805	15,626	15	5	5	—
Ill.	—	—	447	9	—	40,712	47,396	17	12	5	19
Mich.	6	2	926	66	1	31,709	33,790	23	18	10	2
Wis.	—	3	321	25	—	12,966	13,705	2	2	—	—
W.N. CENTRAL	7	21	347	100	7	46,362	46,140	14	15	4	3
Minn.	—	5	—	39	4	7,358	7,647	5	3	2	1
Iowa	2	7	178	32	2	5,098	4,916	3	3	1	—
Mo.	2	4	4	10	—	21,463	20,212	6	9	1	—
N. Dak.	—	—	9	1	—	589	658	—	—	—	—
S. Dak.	1	1	9	1	—	1,244	1,323	—	—	—	—
Nebr.	—	1	15	4	—	3,446	3,605	—	—	—	—
Kans.	2	3	132	13	1	7,164	7,779	—	—	—	2
S. ATLANTIC	22	32	291	149	22	236,661	243,391	33	92	28	13
Del.	—	1	5	—	—	3,793	3,529	1	1	—	—
Md.	—	—	23	24	2	28,063	26,388	1	10	5	2
D.C.	—	—	—	—	—	13,443	16,565	—	—	—	—
Va.	2	9	6	39	6	21,661	22,426	1	7	3	3
W. Va.	1	1	126	22	—	3,485	3,298	1	1	2	—
N.C.	2	1	N	35	1	36,387	36,946	4	5	4	—
S.C.	—	—	1	4	—	23,003	22,643	2	6	1	7
Ga.	3	6	40	2	—	49,177	47,569	4	18	—	1
Fla.	14	14	90	23	13	57,649	64,027	19	44	13	—
E.S. CENTRAL	13	13	14	148	7	80,158	78,696	23	21	3	—
Ky.	—	1	11	21	2	10,022	11,446	14	5	2	—
Tenn.	6	5	N	87	1	30,567	28,432	8	11	—	—
Ala.	3	4	1	22	2	24,047	23,789	—	3	1	—
Miss.	4	3	2	18	2	15,522	15,029	1	2	—	—
W.S. CENTRAL	8	49	146	120	4	128,028	122,297	114	33	47	28
Ark.	—	7	—	6	—	9,824	9,777	5	4	3	1
La.	—	2	N	7	1	22,504	21,628	29	6	6	—
Okla.	3	7	—	25	1	13,878	12,168	6	4	2	—
Tex.	5	33	146	82	2	81,822	78,724	74	19	36	27
MOUNTAIN	13	5	9	53	3	38,187	36,853	32	21	13	5
Mont.	—	—	—	5	—	1,397	1,417	2	—	—	—
Idaho	—	—	—	—	—	1,698	1,649	8	1	—	1
Wyo.	—	—	—	1	—	1,006	1,057	2	—	—	—
Colo.	1	1	—	14	1	9,963	10,134	5	2	—	—
N. Mex.	—	—	—	—	—	4,187	4,435	5	3	—	—
Ariz.	—	1	N	23	—	11,785	9,633	8	4	7	3
Utah	2	—	4	9	2	1,865	1,876	1	6	3	—
Nev.	10	3	5	1	—	6,286	6,652	1	5	3	1
PACIFIC	42	17	183	153	10	150,752	157,953	181	112	43	140
Wash.	5	—	158	13	1	12,503	13,555	15	8	2	5
Oreg.	1	—	—	6	—	9,005	10,863	4	11	1	5
Calif.	28	17	17	125	8	122,384	126,584	154	88	39	88
Alaska	—	—	—	5	—	3,931	3,840	6	1	—	—
Hawaii	8	—	8	4	—	2,929	3,111	2	4	1	42
Guam	U	—	U	—	—	81	124	U	U	U	—
P.R.	—	—	4	1	—	3,242	2,658	3	6	4	2
V.I.	—	—	—	—	—	256	124	—	—	—	—
Pac. Trust Terr.	U	—	U	—	—	364	404	U	U	U	16

N: Not notifiable

U: Unavailable

TABLE III (Cont.'d). Cases of specified notifiable diseases, United States, weeks ending
December 19, 1981 and December 13, 1980 (50th week)

REPORTING AREA	MALARIA		MEASLES (RUBEOLA)			MENINGOCOCCAL INFECTIONS (Total)		MUMPS		PERTUSSIS	RUBELLA		
	1981	CUM. 1981	1981	CUM. 1981	CUM. 1980	1981	CUM. 1981	1981	CUM. 1981	1981	1981	CUM. 1981	CUM. 1980
UNITED STATES	16	1,275	44	3,012	13,354	76	3,333	146	4,459	31	15	2,009	3,749
NEW ENGLAND	-	66	-	88	677	4	213	11	259	2	2	127	268
Maine	-	2	-	5	33	-	24	3	47	-	-	33	119
N.H.	-	3	-	10	332	-	21	2	25	-	1	52	42
Vt.	-	6	-	3	226	1	14	-	10	-	-	-	3
Mass.	-	29	-	60	59	1	67	5	97	1	1	29	73
R.I.	-	4	-	-	2	-	19	-	28	1	-	-	9
Conn.	-	22	-	10	25	2	68	1	52	-	-	13	22
MID. ATLANTIC	-	165	33	1,001	3,902	13	513	25	689	1	-	230	583
Upstate N.Y.	-	35	4	235	725	2	163	1	149	1	-	114	222
N.Y. City	-	62	-	106	1,206	2	83	-	91	-	-	55	101
N.J.	-	49	-	59	852	1	108	-	103	-	-	48	108
Pa.	-	19	29	601	1,119	8	159	24	346	-	-	13	152
E.N. CENTRAL	4	72	4	94	2,451	9	412	83	1,448	20	8	423	880
Ohio	4	14	-	20	380	2	161	62	490	-	-	3	9
Ind.	-	10	2	11	94	4	52	1	128	10	-	137	374
Ill.	-	19	1	26	351	3	102	3	220	8	4	112	186
Mich.	-	29	1	34	250	-	90	14	385	2	3	44	129
Wis.	-	-	-	3	1,376	-	7	3	225	-	1	127	184
W.N. CENTRAL	-	36	-	10	1,340	-	148	10	252	-	1	81	213
Minn.	-	15	-	3	1,104	-	47	-	8	-	-	8	28
Iowa	-	5	-	1	20	-	27	2	82	-	1	5	9
Mo.	-	4	-	1	66	-	45	4	26	-	-	2	45
N. Dak.	-	1	-	-	-	-	2	-	-	-	-	-	6
S. Dak.	-	1	-	-	-	-	9	-	1	-	-	-	2
Nebr.	-	2	-	4	83	-	-	-	3	-	-	1	4
Kans.	-	8	-	1	67	-	18	4	132	-	-	65	119
S. ATLANTIC	-	153	5	491	1,996	13	754	6	591	1	2	149	350
Del.	-	1	-	-	4	-	4	-	10	-	1	2	1
Md.	-	35	-	5	84	2	57	1	108	-	-	1	69
D.C.	-	9	-	1	5	-	7	-	4	-	-	-	1
Va.	-	33	3	12	339	-	101	-	133	-	-	9	41
W. Va.	-	4	-	9	10	-	29	3	118	-	-	22	26
N.C.	-	13	-	3	130	2	113	1	23	-	-	5	48
S.C.	-	2	-	2	159	2	91	-	18	-	-	8	58
Ga.	-	10	-	111	844	3	115	-	38	-	-	39	-
Fla.	-	46	2	348	421	4	237	1	139	1	1	63	106
E.S. CENTRAL	-	12	-	6	347	2	223	1	97	-	-	40	89
Ky.	-	-	-	2	57	1	62	1	48	-	-	26	43
Tenn.	-	-	-	2	170	1	68	-	24	-	-	13	41
Ala.	-	10	-	2	22	-	68	-	19	-	-	1	3
Miss.	-	2	-	-	98	-	25	-	6	-	-	-	2
W.S. CENTRAL	-	102	2	901	980	24	532	-	240	-	1	190	149
Ark.	-	4	-	24	16	2	33	-	8	-	-	7	4
La.	-	12	-	4	15	17	132	-	6	-	-	9	13
Okla.	-	9	-	7	775	2	50	-	-	-	-	3	7
Tex.	-	77	2	866	174	3	317	-	226	-	1	171	125
MOUNTAIN	-	44	-	38	489	1	131	1	146	2	-	96	173
Mont.	-	1	-	-	2	1	11	-	14	-	-	4	45
Idaho	-	4	-	1	-	-	7	-	7	-	-	4	27
Wyo.	-	-	-	1	-	-	4	-	3	-	-	12	1
Colo.	-	20	-	11	24	-	45	-	48	-	-	27	12
N. Mex.	-	3	-	8	12	-	8	-	-	1	-	5	5
Ariz.	-	9	-	7	394	-	21	-	37	-	-	22	45
Utah	-	4	-	-	47	-	6	1	21	1	-	10	31
Nev.	-	3	-	10	10	-	29	-	16	-	-	12	7
PACIFIC	12	625	-	383	1,172	10	407	9	737	5	1	673	1,044
Wash.	1	26	-	3	178	2	73	1	166	-	-	106	92
Oreg.	-	19	-	5	1	3	62	-	64	-	-	51	65
Calif.	11	567	-	368	980	5	255	7	457	5	1	504	871
Alaska	-	3	-	-	6	-	12	-	19	-	-	1	12
Hawaii	-	10	-	7	7	-	5	1	26	-	-	11	4
Guam	U	2	U	5	6	U	-	U	8	U	U	1	2
P.R.	-	11	1	303	181	-	14	1	158	-	-	5	27
V.I.	-	4	-	25	6	-	1	-	18	-	-	1	-
Pac. Trust Terr.	U	-	U	1	12	U	-	U	17	U	U	1	1

U: Unavailable

TABLE III (Cont.'d). Cases of specified notifiable diseases, United States, weeks ending
December 19, 1981 and December 13, 1980 (50th week)

REPORTING AREA	SYPHILIS (Civilian) (Primary & Secondary)		TUBERCULOSIS		TULA- REMIA	TYPHOID FEVER		TYPHUS FEVER (Tick-borne) (RMSF)		RABIES, Animal
	CUM. 1981	CUM. 1980	1981	CUM. 1981	CUM. 1981	1981	CUM. 1981	1981	CUM. 1981	CUM. 1981
UNITED STATES	29,902	26,349	621	26,348	261	11	568	11	1,175	6,866
NEW ENGLAND	587	507	29	780	5	-	16	-	9	42
Maine	5	6	-	50	-	-	1	-	-	16
N.H.	16	8	3	22	-	-	-	-	-	7
Vt.	17	6	-	27	1	-	-	-	-	-
Mass.	366	310	26	470	3	-	8	-	5	11
R.I.	35	32	-	55	-	-	-	-	2	2
Conn.	148	145	-	156	1	-	7	-	2	6
MID. ATLANTIC	4,239	3,622	91	4,075	10	1	81	7	48	117
Upstate N.Y.	378	313	17	491	10	-	13	-	14	79
N.Y. City	2,548	2,348	38	1,547	-	1	46	-	3	-
N.J.	597	421	12	864	-	-	13	-	11	24
Pa.	716	540	24	973	-	-	9	7	20	14
E.N. CENTRAL	2,203	2,665	77	3,600	6	3	61	-	51	1,020
Ohio	319	359	19	641	-	2	13	-	38	67
Ind.	286	188	8	389	4	-	3	-	6	88
Ill.	1,153	1,626	21	1,496	-	-	15	-	6	537
Mich.	359	395	20	888	1	1	27	-	1	17
Wis.	86	97	9	186	1	-	3	-	-	311
W.N. CENTRAL	653	355	18	907	37	2	22	1	55	2,645
Minn.	186	122	9	171	-	-	2	-	2	476
Iowa	29	31	1	88	-	-	3	-	7	866
Mo.	380	153	6	408	28	2	12	-	30	239
N. Dak.	12	4	1	32	-	-	-	-	-	356
S. Dak.	2	6	-	65	3	-	1	-	-	310
Nebr.	10	12	1	29	3	-	2	-	3	198
Kans.	34	27	-	114	3	-	2	1	13	200
S. ATLANTIC	7,923	6,306	95	5,567	14	-	62	3	664	630
Del.	16	21	-	55	1	-	-	-	3	1
Md.	557	435	12	575	1	-	14	-	62	47
D.C.	635	466	3	312	-	-	2	-	1	-
Va.	679	569	15	577	3	-	1	-	106	157
W. Va.	30	17	1	182	-	-	6	-	6	35
N.C.	628	470	12	952	2	-	5	3	300	19
S.C.	545	376	10	542	3	-	2	-	102	49
Ga.	1,907	1,794	-	905	4	-	4	-	74	220
Fla.	2,926	2,158	42	1,467	-	-	28	-	10	102
E.S. CENTRAL	1,946	2,166	50	2,335	11	-	11	-	134	486
Ky.	97	126	11	585	3	-	1	-	2	127
Tenn.	672	909	20	773	8	-	3	-	82	240
Ala.	597	472	19	627	-	-	5	-	23	115
Miss.	580	659	-	350	-	-	2	-	27	4
W.S. CENTRAL	7,307	5,338	99	3,002	127	4	142	-	176	1,075
Ark.	160	214	13	337	56	2	9	-	35	151
La.	1,647	1,336	9	510	5	-	2	-	1	34
Okla.	170	104	17	336	45	-	4	-	100	214
Tex.	5,330	3,684	60	1,819	21	2	127	-	40	676
MOUNTAIN	734	625	23	732	39	-	24	-	30	252
Mont.	11	3	-	39	6	-	4	-	12	122
Idaho	19	16	1	11	4	-	-	-	5	7
Wyo.	18	12	-	12	1	-	-	-	5	17
Colo.	231	176	6	95	9	-	9	-	3	35
N. Mex.	125	108	1	140	3	-	-	-	-	27
Ariz.	177	209	9	333	14	-	10	-	-	27
Utah	29	17	4	57	1	-	1	-	2	11
Nev.	124	84	2	45	1	-	-	-	3	6
PACIFIC	4,310	4,765	139	5,350	12	1	149	-	8	599
Wash.	176	245	12	374	1	1	5	-	1	15
Oreg.	113	106	5	191	1	-	4	-	-	10
Calif.	3,933	4,265	120	4,527	10	-	136	-	7	538
Alaska	15	9	-	73	-	-	-	-	-	36
Hawaii	73	140	2	185	-	-	4	-	-	-
Guam	-	5	U	33	-	U	-	U	-	-
P.R.	637	599	2	509	-	-	4	-	-	86
V.I.	18	11	-	1	-	-	6	-	-	-
Pac. Trust Terr.	-	-	U	55	-	U	-	U	-	-

U: Unavailable

TABLE IV. Deaths in 121 U.S. cities,* week ending
December 19, 1981 (50th week)

REPORTING AREA	ALL CAUSES, BY AGE (YEARS)						P & I** TOTAL	REPORTING AREA	ALL CAUSES, BY AGE (YEARS)						P & I** TOTAL
	ALL AGES	≥65	45-64	25-44	1-24	<1			ALL AGES	≥65	45-64	25-44	1-24	<1	
NEW ENGLAND	752	501	171	37	17	26	37	S. ATLANTIC	1,343	827	337	89	41	49	37
Boston, Mass.	199	121	51	13	7	7	20	Atlanta, Ga.	154	90	37	16	6	5	4
Bridgeport, Conn.	44	38	5	1	—	—	4	Baltimore, Md.	271	153	74	20	10	14	4
Cambridge, Mass.	31	23	7	1	—	—	1	Charlotte, N.C.	69	45	15	4	—	5	4
Fall River, Mass.	31	25	3	2	1	—	—	Jacksonville, Fla.	101	66	21	5	5	4	4
Hartford, Conn.	80	47	18	8	3	4	—	Miami, Fla.	172	99	45	12	6	10	3
Lowell, Mass.	23	16	6	1	—	—	2	Norfolk, Va.	60	39	16	1	1	3	1
Lynn, Mass.	22	19	2	1	—	—	—	Richmond, Va.	70	34	24	9	2	1	3
New Bedford, Mass.	26	20	5	1	—	—	1	Savannah, Ga.	46	35	8	1	2	—	1
New Haven, Conn.	70	39	21	2	1	7	1	St. Petersburg, Fla.	118	102	14	1	1	—	6
Providence, R.I.	69	45	17	3	1	3	1	Tampa, Fla.	78	49	17	6	1	5	4
Somerville, Mass.	7	7	—	—	—	—	—	Washington, D.C.	166	91	54	14	6	1	2
Springfield, Mass.	47	33	7	1	4	2	3	Wilmington, Del.	38	24	12	—	1	1	1
Waterbury, Conn.	30	23	6	—	—	1	1								
Worcester, Mass.	73	45	23	3	—	2	3								
MID. ATLANTIC	2,660	1,749	587	182	67	75	104	E.S. CENTRAL	731	457	186	42	22	24	31
Albany, N.Y.	56	43	8	2	2	1	2	Birmingham, Ala.	138	78	46	5	4	5	4
Allentown, Pa.	26	22	4	—	—	—	—	Chattanooga, Tenn.	71	45	19	2	2	3	9
Buffalo, N.Y.	120	78	22	6	4	10	7	Knoxville, Tenn.	46	32	9	4	1	—	1
Camden, N.J.	36	20	7	4	—	5	1	Louisville, Ky.	73	51	11	4	—	7	4
Elizabeth, N.J.	33	21	9	3	—	—	1	Memphis, Tenn.	164	104	36	12	7	5	10
Erie, Pa.†	54	38	10	2	1	3	2	Mobile, Ala.	95	59	29	6	1	—	1
Jersey City, N.J.	46	30	11	3	2	—	—	Montgomery, Ala.	16	14	2	—	—	—	2
N.Y. City, N.Y.	1,404	925	317	109	30	23	60	Nashville, Tenn.	128	74	34	9	7	4	3
Newark, N.J.	72	33	21	7	5	6	2								
Paterson, N.J.	22	13	5	3	1	—	—	W.S. CENTRAL	1,368	829	316	113	55	55	38
Philadelphia, Pa.†	294	185	71	12	11	15	8	Austin, Tex.	60	46	5	4	—	5	1
Pittsburgh, Pa.†	85	52	21	6	4	2	4	Baton Rouge, La.	36	22	7	2	2	3	1
Reading, Pa.	29	20	4	4	—	1	1	Corpus Christi, Tex.	44	22	14	5	2	1	1
Rochester, N.Y.	130	98	23	6	1	2	6	Dallas, Tex.	201	119	41	19	10	12	2
Schenectady, N.Y.	35	29	3	—	1	2	3	El Paso, Tex.	61	34	17	3	4	3	3
Scranton, Pa.†	26	18	6	1	1	—	2	Fort Worth, Tex.	109	78	22	6	2	1	1
Syracuse, N.Y.	104	64	26	8	3	3	2	Houston, Tex.	345	183	84	40	22	16	6
Trenton, N.J.	36	23	9	4	—	—	—	Little Rock, Ark.	64	35	21	5	3	—	3
Utica, N.Y.	25	18	4	1	—	2	1	New Orleans, La.	136	80	40	8	3	5	2
Yonkers, N.Y.	27	19	6	1	1	—	2	San Antonio, Tex.	156	95	42	11	5	3	8
								Shreveport, La.	73	46	17	7	1	2	4
								Tulsa, Okla.	83	69	6	3	1	4	6
E.N. CENTRAL	2,348	1,409	605	161	81	92	73								
Akron, Ohio	74	51	15	4	4	—	—	MOUNTAIN	614	374	143	47	31	19	32
Canton, Ohio	35	23	5	5	1	1	3	Albuquerque, N. Mex.	77	31	19	9	17	1	4
Chicago, Ill.	524	296	140	46	21	21	13	Colo. Springs, Colo.	34	18	12	3	1	—	1
Cincinnati, Ohio	183	106	56	11	4	6	9	Denver, Colo.	114	83	22	7	1	1	8
Cleveland, Ohio	178	99	50	10	9	10	3	Las Vegas, Nev.	73	39	20	9	4	1	3
Columbus, Ohio	140	79	39	11	3	8	1	Ogden, Utah	22	12	5	1	1	3	3
Dayton, Ohio	92	58	27	3	3	1	—	Phoenix, Ariz.	143	93	29	10	3	8	6
Detroit, Mich.	267	147	71	27	10	12	8	Pueblo, Colo.	21	14	5	1	—	1	1
Evansville, Ind.	44	35	9	—	—	—	1	Salt Lake City, Utah	35	15	12	3	2	3	1
Fort Wayne, Ind.	56	38	13	1	2	2	2	Tucson, Ariz.	95	69	19	4	2	1	5
Gary, Ind.	13	7	2	3	1	—	—								
Grand Rapids, Mich.	57	35	11	5	3	3	7	PACIFIC	1,710	1,125	376	98	60	50	78
Indianapolis, Ind.	164	91	47	10	5	11	7	Berkeley, Calif.	22	16	5	1	—	—	1
Madison, Wis.	34	18	5	3	2	6	3	Fresno, Calif.	71	45	14	3	2	7	2
Milwaukee, Wis.	157	105	40	7	3	2	—	Glendale, Calif.	27	22	5	—	—	—	—
Peoria, Ill.	70	50	11	4	2	3	7	Honolulu, Hawaii	66	34	20	6	3	3	8
Rockford, Ill.	43	32	9	1	1	—	3	Long Beach, Calif.	106	72	24	3	6	1	4
South Bend, Ind.	64	47	14	2	—	1	3	Los Angeles, Calif.	409	240	104	34	18	13	13
Toledo, Ohio	83	52	21	5	2	3	2	Oakland, Calif.	90	59	17	8	3	3	3
Youngstown, Ohio	70	40	20	3	5	2	1	Pasadena, Calif.	35	29	4	1	—	1	2
								Portland, Oreg.	114	84	27	2	—	1	1
W.N. CENTRAL	722	486	149	24	24	39	38	Sacramento, Calif.	65	43	16	3	2	1	6
Des Moines, Iowa	45	33	8	—	1	3	—	San Diego, Calif.	140	90	34	9	3	4	11
Duluth, Minn.	18	13	3	1	—	1	—	San Francisco, Calif.	163	110	32	13	4	4	3
Kansas City, Kans.	35	20	7	5	1	2	2	San Jose, Calif.	149	106	35	2	4	1	13
Kansas City, Mo.	130	91	30	3	2	4	7	Seattle, Wash.	153	99	23	11	11	9	5
Lincoln, Nebr.	26	22	3	—	—	—	2	Spokane, Wash.	52	39	9	1	3	—	4
Minneapolis, Minn.	82	52	17	4	4	5	3	Tacoma, Wash.	48	37	7	1	1	2	2
Omaha, Nebr.	97	60	23	2	2	10	2								
St. Louis, Mo.	168	109	36	5	10	8	14								
St. Paul, Minn.	59	43	9	1	2	4	4								
Wichita, Kans.	62	43	13	3	1	2	4								
TOTAL	12,248**	7,757	2,870	793	398	429	468								

*Mortality data in this table are voluntarily reported from 121 cities in the United States, most of which have populations of 100,000 or more. A death is reported by the place of its occurrence and by the week that the death certificate was filed. Fetal deaths are not included.

**Pneumonia and influenza

†Because of changes in reporting methods in these 4 Pennsylvania cities, these numbers are partial counts for the current week. Complete counts will be available in 4 to 6 weeks.

††Total includes unknown ages.

TABLE III. Cases of specified notifiable diseases, United States, weeks ending
December 26, 1981 and December 20, 1980 (51st week)

REPORTING AREA	ASEPTIC MENIN- GITIS	BRUCEL- LOSIS	CHICKEN- POX	ENCEPHALITIS		GONORRHEA (Civilian)		HEPATITIS (Viral), by type			LEPROSY
				Primary	Post-in- fectious			A	B	Unspecified	
	1981	CUM. 1981	1981	CUM. 1981	CUM. 1981	CUM. 1981	CUM. 1980	1981	1981	1981	CUM. 1981
UNITED STATES	81	158	2,770	1,380	81	976,823	990,091	381	289	151	232
NEW ENGLAND	6	7	225	47	8	24,019	25,224	6	7	14	5
Maine	1	—	43	1	—	1,286	1,396	—	—	—	—
N.H.	—	1	14	4	—	874	863	—	—	—	1
Vt.	—	—	2	—	—	423	537	3	1	—	—
Mass.	—	4	87	18	1	10,087	10,658	—	1	14	3
R.I.	1	1	39	1	2	1,469	1,609	—	—	—	—
Conn.	4	1	40	23	5	9,880	10,161	3	5	—	1
MID. ATLANTIC	10	7	108	112	9	117,464	112,091	38	38	11	14
Upstate N.Y.	2	3	43	33	3	21,035	19,972	13	14	1	3
N.Y. City	—	1	8	20	—	47,437	44,687	6	—	3	9
N.J.	5	1	8	17	—	22,207	20,380	19	24	7	2
Pa.	3	2	57	42	6	26,785	27,052	U	U	U	—
E.N. CENTRAL	12	7	1,471	490	11	145,629	153,991	41	32	10	23
Ohio	4	1	283	244	2	45,494	41,144	17	17	3	1
Ind.	—	1	129	145	8	12,489	15,944	9	1	—	—
Ill.	—	—	379	9	—	42,501	48,344	2	3	3	20
Mich.	2	2	359	67	1	32,179	34,480	11	10	4	2
Wis.	6	3	321	25	—	12,966	14,079	2	1	—	—
W.N. CENTRAL	5	21	469	102	7	46,995	47,228	13	4	9	3
Minn.	1	5	—	39	4	7,406	7,837	4	2	1	1
Iowa	—	7	199	34	2	5,160	5,000	5	—	2	—
Mo.	4	4	18	10	—	21,935	20,733	2	2	6	—
N. Dak.	—	—	—	1	—	594	665	—	—	—	—
S. Dak.	—	1	28	1	—	1,250	1,340	2	—	—	—
Nebr.	—	1	—	4	—	3,460	3,682	—	—	—	—
Kans.	—	3	224	13	1	7,190	7,971	—	—	—	2
S. ATLANTIC	10	32	231	152	22	240,173	248,068	44	74	21	13
Del.	—	1	3	—	—	3,853	3,560	—	—	1	—
Md.	2	—	56	25	2	28,797	26,602	6	8	3	2
D.C.	—	—	—	—	—	13,596	16,849	2	3	2	—
Va.	2	9	12	39	6	21,970	22,922	3	12	2	3
W. Va.	—	1	64	22	—	3,505	3,375	—	2	3	—
N.C.	1	1	8	36	1	37,015	37,651	3	3	3	—
S.C.	—	—	—	4	—	23,240	23,076	—	11	—	7
Ga.	—	6	2	2	—	49,812	48,459	3	9	—	1
Fla.	5	14	94	24	13	58,385	65,574	27	26	10	—
E.S. CENTRAL	3	13	18	149	7	81,575	80,240	20	15	2	—
Ky.	1	1	17	21	2	10,228	11,617	7	1	—	—
Tenn.	—	5	8	88	1	31,181	29,220	9	11	1	—
Ala.	1	4	—	22	2	24,479	24,037	2	1	1	—
Miss.	1	3	1	18	2	15,687	15,366	2	2	—	—
W.S. CENTRAL	8	49	84	120	4	128,584	124,779	51	28	24	28
Ark.	—	7	—	6	—	9,824	9,990	2	2	1	1
La.	2	2	8	7	1	22,892	22,119	20	7	8	—
Okla.	—	7	—	25	1	14,046	12,378	—	8	1	—
Tex.	6	33	84	82	2	81,822	80,292	29	11	14	27
MOUNTAIN	2	5	2	54	3	38,750	37,505	27	15	12	5
Mont.	—	—	—	5	—	1,409	1,443	—	—	—	—
Idaho	—	—	—	—	—	1,703	1,664	3	—	—	1
Wyo.	—	—	—	1	—	1,006	1,073	—	—	3	—
Colo.	—	1	—	14	1	10,121	10,302	4	8	2	—
N. Mex.	—	—	—	—	—	4,249	4,516	4	3	—	—
Ariz.	2	1	8	24	—	11,944	9,909	14	4	6	3
Utah	—	—	1	9	2	1,890	1,908	2	—	1	—
Nev.	—	3	1	1	—	6,428	6,690	—	—	—	1
PACIFIC	25	17	162	154	10	153,634	160,965	141	76	48	141
Wash.	7	—	138	14	1	12,786	13,850	39	12	2	5
Oreg.	—	—	1	6	1	9,096	11,046	12	8	2	5
Calif.	10	17	16	125	8	124,783	128,962	86	49	43	89
Alaska	—	—	—	5	—	4,006	3,923	—	2	—	—
Hawaii	8	—	7	4	—	2,963	3,184	4	5	1	42
Guam	U	—	U	—	—	81	124	U	U	U	—
P.R.	—	—	7	1	—	3,333	2,698	10	7	—	2
V.I.	—	—	—	—	—	256	124	—	—	—	—
Pac. Trust Terr.	U	—	U	—	—	423	413	U	U	U	16

N: Not notifiable

U: Unavailable

TABLE III (Cont.'d). Cases of specified notifiable diseases, United States, weeks ending
December 26, 1981 and December 20, 1980 (51st week)

REPORTING AREA	MALARIA		MEASLES (RUBEOLA)			MENINGOCOCCAL INFECTIONS (Total)		MUMPS		PERTUSSIS	RUBELLA		
	1981	CUM. 1981	1981	CUM. 1981	CUM. 1980	1981	CUM. 1981	1981	CUM. 1981	1981	1981	CUM. 1981	CUM. 1980
UNITED STATES	7	1,282	11	3,025	13,375	52	3,385	133	4,592	12	34	2,044	3,787
NEW ENGLAND	-	66	-	88	677	1	214	-	259	-	-	129	270
Maine	-	2	-	5	33	-	24	-	47	-	-	33	119
N.H.	-	3	-	10	332	-	21	-	25	-	-	54	44
Vt.	-	6	-	3	226	-	14	-	10	-	-	-	3
Mass.	-	29	-	60	59	-	67	-	97	-	-	29	73
R.I.	-	4	-	-	2	1	20	-	28	-	-	-	9
Conn.	-	22	-	10	25	-	68	-	52	-	-	13	22
MID. ATLANTIC	-	165	7	1,008	3,906	7	520	6	695	6	2	232	586
Upstate N.Y.	-	35	-	235	728	1	164	5	154	3	2	116	223
N.Y. City	-	62	1	107	1,207	2	85	-	91	1	-	55	103
N.J.	-	49	-	59	852	1	109	1	104	1	-	48	108
Pa.	-	19	6	607	1,119	3	162	-	346	1	-	13	152
E.N. CENTRAL	-	72	1	93	2,451	9	420	90	1,538	1	4	427	893
Ohio	-	14	-	20	380	5	165	65	555	-	-	3	9
Ind.	-	10	-	9	94	2	54	-	128	-	-	137	381
Ill.	-	19	-	26	351	1	103	2	222	1	1	113	188
Mich.	-	29	1	35	250	1	91	11	396	-	2	46	129
Wis.	-	-	-	3	1,376	-	7	12	237	-	1	128	186
W.N. CENTRAL	-	36	-	10	1,341	4	152	13	265	1	2	83	213
Minn.	-	15	-	3	1,104	1	48	-	8	-	-	8	28
Iowa	-	5	-	1	20	-	27	6	88	-	-	5	9
Mo.	-	4	-	1	67	2	47	-	26	1	-	2	45
N. Dak.	-	1	-	-	-	-	2	-	-	-	-	-	6
S. Dak.	-	1	-	-	-	-	9	-	1	-	-	-	2
Nebr.	-	2	-	4	83	-	-	-	3	-	-	1	4
Kans.	-	8	-	1	67	1	19	7	139	-	2	67	119
S. ATLANTIC	3	156	-	494	2,005	10	764	3	594	-	2	150	352
Del.	-	1	-	-	4	-	4	-	10	-	-	2	1
Md.	1	36	-	5	84	-	57	2	110	-	-	1	69
D.C.	-	9	-	1	5	-	7	-	4	-	-	-	1
Va.	-	33	-	16	339	1	102	-	133	-	1	9	41
W. Va.	-	4	-	9	10	3	32	-	118	-	-	22	26
N.C.	1	14	-	3	130	3	116	-	23	-	-	5	48
S.C.	-	2	-	2	159	-	91	-	18	-	-	8	58
Ga.	-	10	-	111	851	-	115	-	38	-	-	39	-
Fla.	1	47	-	347	423	3	240	1	140	-	1	64	108
E.S. CENTRAL	-	12	-	6	348	2	225	1	98	-	1	41	91
Ky.	-	-	-	2	57	-	62	1	49	-	1	27	45
Tenn.	-	-	-	2	170	2	70	-	24	-	-	13	41
Ala.	-	10	-	2	22	-	68	-	19	-	-	1	3
Miss.	-	2	-	-	99	-	25	-	6	-	-	-	2
W.S. CENTRAL	1	103	2	903	983	7	539	1	241	-	-	190	150
Ark.	-	4	-	24	16	-	33	-	8	-	-	7	4
La.	-	12	-	4	15	4	136	-	6	-	-	9	13
Okla.	-	9	-	7	775	-	50	-	-	-	-	3	7
Tex.	1	78	2	868	177	3	320	1	227	-	-	171	126
MOUNTAIN	1	45	-	39	490	2	134	6	152	1	-	96	175
Mont.	1	2	-	-	2	1	13	-	14	-	-	4	45
Idaho	-	4	-	1	-	-	7	-	7	-	-	4	27
Wyo.	-	-	-	1	-	-	4	-	3	-	-	12	1
Colo.	-	20	-	11	24	-	45	5	53	1	-	27	12
N. Mex.	-	3	-	8	12	-	8	-	-	-	-	5	5
Ariz.	-	9	-	7	395	1	22	-	37	-	-	22	45
Utah	-	4	-	-	47	-	6	1	22	-	-	10	31
Nev.	-	3	-	11	10	-	29	-	16	-	-	12	9
PACIFIC	2	627	1	384	1,174	10	417	13	750	3	23	696	1,057
Wash.	2	28	-	3	178	2	75	1	167	1	-	106	97
Oreg.	-	19	-	5	1	2	64	-	69	-	-	51	65
Calif.	-	567	1	369	982	6	261	11	468	2	23	527	879
Alaska	-	3	-	-	6	-	12	1	20	-	-	1	12
Hawaii	-	10	-	7	7	-	5	-	26	-	-	11	4
Guam	U	2	U	5	6	U	-	U	8	U	U	1	2
P.R.	-	11	-	303	196	-	14	1	159	-	-	5	27
V.I.	-	4	-	25	6	-	1	-	18	-	-	1	-
Pac. Trust Terr.	U	-	U	1	12	U	-	U	20	U	U	1	1

U: Unavailable

TABLE III (Cont'd). Cases of specified notifiable diseases, United States, weeks ending
December 26, 1981 and December 20, 1980 (51st week)

REPORTING AREA	SYPHILIS (Civilian) (Primary & Secondary)		TUBERCULOSIS		TULA- REMIA	TYPHOID FEVER		TYPHUS FEVER (Tick-borne) (RMSF)		RABIES, Animal
	CUM. 1981	CUM. 1980	1981	CUM. 1981	CUM. 1981	1981	CUM. 1981	1981	CUM. 1981	CUM. 1981
UNITED STATES	30,359	26,960	425	26,766	261	17	583	2	1,176	6,916
NEW ENGLAND	593	518	19	799	5	-	16	-	9	43
Maine	5	6	-	50	-	-	1	-	-	17
N.H.	15	8	2	24	-	-	-	-	-	7
Vt.	17	6	-	27	1	-	-	-	-	-
Mass.	373	317	11	481	3	-	8	-	5	11
R.I.	35	33	2	57	-	-	-	-	2	2
Conn.	148	148	4	160	1	-	7	-	2	6
MID. ATLANTIC	4,298	3,725	104	4,179	10	1	82	1	49	119
Upstate N.Y.	386	317	10	701	10	-	13	-	14	81
N.Y. City	2,585	2,425	36	1,583	-	-	46	-	3	-
N.J.	608	432	43	907	-	1	14	-	11	24
Pa.	719	551	15	988	-	-	9	1	21	14
E.N. CENTRAL	2,331	2,725	20	3,621	6	-	60	-	51	1,023
Ohio	319	380	16	658	-	-	12	-	38	67
Ind.	313	189	-	389	4	-	3	-	6	88
Ill.	1,252	1,660	0	1,496	-	-	15	-	6	540
Mich.	360	397	-	888	1	-	27	-	1	17
Wis.	87	99	4	190	1	-	3	-	-	311
W.N. CENTRAL	656	361	22	928	37	-	22	-	55	2,660
Minn.	186	125	9	180	-	-	2	-	2	481
Iowa	29	31	-	88	-	-	3	-	7	874
Mo.	382	153	8	416	28	-	12	-	30	240
N. Dak.	12	4	-	31	-	-	-	-	-	356
S. Dak.	12	6	-	65	3	-	1	-	-	310
Nebr.	11	12	3	32	3	-	2	-	3	198
Kans.	34	30	2	116	3	-	2	-	13	201
S. ATLANTIC	8,029	6,449	95	5,655	14	-	61	1	664	635
Del.	16	21	-	55	1	-	-	-	3	1
Md.	563	444	12	587	1	-	14	-	62	47
D.C.	645	481	-	312	-	-	2	-	1	-
Va.	685	583	-	577	3	-	1	-	105	160
W. Va.	30	18	8	190	-	-	6	-	6	35
N.C.	620	484	20	966	2	-	5	1	301	19
S.C.	557	387	-	541	3	-	2	-	102	49
Ga.	1,936	1,831	33	938	4	-	4	-	74	221
Fla.	2,967	2,200	22	1,489	-	-	27	-	10	103
E.S. CENTRAL	1,983	2,206	28	2,364	11	-	11	-	134	495
Ky.	98	129	6	591	3	-	1	-	2	127
Tenn.	672	925	14	787	8	-	3	-	82	246
Ala.	615	480	8	636	-	-	5	-	23	118
Miss.	598	672	-	350	-	-	2	-	27	4
W.S. CENTRAL	7,313	5,510	37	3,039	126	-	142	-	176	1,084
Ark.	160	217	3	340	55	-	9	-	35	151
La.	1,648	1,359	21	531	5	-	2	-	1	34
Okla.	175	106	-	336	45	-	4	-	100	217
Tex.	5,330	3,828	13	1,832	21	-	127	-	40	682
MOUNTAIN	762	635	9	741	40	-	24	-	30	254
Mont.	11	3	-	39	6	-	4	-	12	122
Idaho	19	16	-	11	4	-	-	-	5	7
Wyo.	18	12	-	12	1	-	-	-	5	17
Colo.	242	183	4	99	9	-	9	-	3	35
N. Mex.	125	108	-	140	3	-	-	-	-	28
Ariz.	186	209	5	338	2	-	10	-	-	28
Utah	30	17	-	57	14	-	1	-	2	11
Nev.	131	87	-	45	1	-	-	-	3	6
PACIFIC	4,394	4,831	91	5,440	12	16	165	-	8	603
Wash.	176	252	5	379	1	-	5	-	1	15
Oreg.	117	109	3	194	1	-	4	-	-	10
Calif.	4,013	4,321	82	4,609	10	16	152	-	7	539
Alaska	15	9	-	72	-	-	-	-	-	39
Hawaii	73	140	1	186	-	-	4	-	-	-
Guam	-	5	U	33	-	U	-	U	-	-
P.R.	646	601	1	530	-	-	4	-	-	88
V.I.	18	11	-	1	-	-	6	-	-	-
Pac. Trust Terr.	-	-	U	62	-	U	-	U	-	-

U: Unavailable

TABLE IV. Deaths in 121 U.S. cities,* week ending
December 26, 1981 (51st week)

REPORTING AREA	ALL CAUSES, BY AGE (YEARS)						P & I** TOTAL	REPORTING AREA	ALL CAUSES, BY AGE (YEARS)						P & I** TOTAL
	ALL AGES	≥65	45-64	25-44	1-24	<1			ALL AGES	≥65	45-64	25-44	1-24	<1	
NEW ENGLAND	613	435	126	26	6	20	31	S. ATLANTIC	1,063	621	255	88	27	71	41
Boston, Mass.	149	90	37	11	4	7	7	Atlanta, Ga.	126	62	38	16	3	7	5
Bridgeport, Conn.	54	44	7	2	-	1	7	Baltimore, Md.	222	136	52	22	5	7	3
Cambridge, Mass.	33	27	6	-	-	-	1	Charlotte, N.C.	58	39	12	5	1	1	10
Fall River, Mass.	26	20	3	1	1	1	1	Jacksonville, Fla.	79	41	25	1	7	5	-
Hartford, Conn.	51	37	11	3	-	-	2	Miami, Fla.	74	44	14	11	3	2	4
Lowell, Mass.	22	15	5	1	1	-	1	Norfolk, Va.	31	21	8	2	-	-	1
Lynn, Mass.	26	19	6	1	-	-	1	Richmond, Va.	76	41	19	5	2	8	5
New Bedford, Mass.	23	13	10	-	-	-	1	Savannah, Ga.	25	15	8	-	1	1	1
New Haven, Conn.	51	28	13	5	-	5	1	St. Petersburg, Fla.	63	57	5	1	-	-	2
Providence, R.I. §	65	61	1	1	-	2	3	Tampa, Fla.	49	32	8	5	-	4	4
Somerville, Mass.	5	5	-	-	-	-	-	Washington, D.C.	186	95	49	14	3	25	4
Springfield, Mass.	31	21	8	-	-	2	4	Wilmington, Del.	74	38	17	6	2	11	2
Waterbury, Conn.	32	22	10	-	-	-	4								
Worcester, Mass.	45	33	9	1	-	2	1								
								E.S. CENTRAL	428	266	107	19	9	27	12
MID. ATLANTIC	2,477	1,643	547	176	59	50	93	Birmingham, Ala.	54	34	13	4	-	3	-
Albany, N.Y.	53	36	12	2	-	3	1	Chattanooga, Tenn.	37	27	7	3	-	-	-
Allentown, Pa.	18	13	5	-	-	-	-	Knoxville, Tenn.	21	13	6	-	2	-	-
Buffalo, N.Y.	99	69	17	7	4	2	6	Louisville, Ky.	83	56	19	2	1	5	8
Camden, N.J.	29	15	13	-	1	-	-	Memphis, Tenn.	114	69	27	3	1	14	1
Elizabeth, N.J.	32	24	6	2	-	-	-	Mobile, Ala.	34	15	10	4	2	3	-
Erisk, Pa.†	39	24	12	-	2	1	5	Montgomery, Ala.	6	5	-	-	-	1	-
Jersey City, N.J.	46	30	10	1	2	3	-	Nashville, Tenn.	79	47	25	3	3	1	3
N.Y. City, N.Y.	1,450	955	330	111	29	25	48								
Newark, N.J. §	61	48	2	2	3	4	3	W.S. CENTRAL	1,037	582	245	95	55	60	36
Paterson, N.J.	28	15	5	5	2	1	-	Austin, Tex.	32	21	8	1	1	1	4
Philadelphia, Pa.†	189	118	41	25	9	2	9	Baton Rouge, La.	70	42	16	3	6	3	1
Pittsburgh, Pa.	27	17	9	-	-	1	2	Corpus Christi, Tex.	36	25	6	1	3	1	1
Reading, Pa.	44	36	6	2	-	-	3	Dallas, Tex.	165	92	33	24	8	8	2
Rochester, N.Y.	110	66	31	7	2	4	6	El Paso, Tex.	46	26	13	3	2	2	2
Schenectady, N.Y.	23	16	6	-	1	-	1	Fort Worth, Tex.	95	51	29	9	4	2	2
Scranton, Pa.†	32	24	6	2	-	-	2	Houston, Tex.	278	123	71	34	20	30	1
Syracuse, N.Y.	96	66	21	4	3	2	4	Little Rock, Ark.	11	6	3	2	-	-	1
Trenton, N.J.	27	16	5	3	1	2	-	New Orleans, La.	57	36	11	7	1	2	4
Utica, N.Y.	27	20	6	1	-	-	2	San Antonio, Tex.	153	95	38	6	6	8	8
Yonkers, N.Y.	41	35	4	2	-	-	1	Shreveport, La.	35	21	9	3	-	2	3
								Tulsa, Okla.	59	44	8	2	4	1	7
E.N. CENTRAL	1,991	1,237	513	108	69	64	60	MOUNTAIN	551	355	108	37	23	27	22
Akron, Ohio	74	53	14	2	4	1	7	Albuquerque, N. Mex.	85	52	22	2	7	1	6
Canton, Ohio	41	26	12	1	1	1	5	Colo. Springs, Colo.	35	27	4	2	1	1	1
Chicago, Ill.	567	331	150	47	23	16	18	Denver, Colo.	92	53	15	7	3	14	1
Cincinnati, Ohio	96	65	22	3	1	5	6	Las Vegas, Nev.	40	25	7	6	1	1	-
Cleveland, Ohio	156	88	50	5	6	7	-	Ogden, Utah	12	8	2	1	-	1	-
Columbus, Ohio	138	73	36	12	6	11	2	Phoenix, Ariz.	133	81	39	6	5	2	2
Dayton, Ohio	73	40	29	3	1	-	1	Pueblo, Colo.	18	15	1	1	1	-	1
Detroit, Mich.	161	99	37	12	8	5	4	Salt Lake City, Utah	48	30	5	6	4	3	1
Evansville, Ind.	32	20	9	2	-	1	1	Tucson, Ariz.	88	64	13	6	1	4	10
Fort Wayne, Ind.	41	28	9	1	3	-	-								
Gary, Ind.	14	4	7	1	2	-	-	PACIFIC	1,672	1,088	375	98	45	65	65
Grand Rapids, Mich.	35	25	10	-	-	-	-	Berkeley, Calif.	16	11	3	-	1	1	-
Indianapolis, Ind.	150	106	33	5	2	4	4	Fresno, Calif.	66	41	20	1	1	3	-
Madison, Wis.	39	22	12	1	2	-	2	Glendale, Calif.	26	21	4	-	1	-	-
Milwaukee, Wis.	97	77	13	1	4	2	2	Honolulu, Hawaii	49	23	16	5	3	2	4
Peoria, Ill.	27	9	13	1	-	4	1	Long Beach, Calif.	80	48	23	3	1	5	4
Rockford, Ill.	38	25	8	2	2	1	4	Los Angeles, Calif.	590	389	127	32	19	22	18
South Bend, Ind.	37	27	6	2	2	-	-	Oakland, Calif.	72	56	11	2	2	1	1
Toledo, Ohio	121	80	32	4	2	3	4	Pasadena, Calif.	26	22	3	-	-	1	-
Youngstown, Ohio	54	39	11	2	1	1	1	Portland, Oreg.	121	74	30	9	5	3	-
								Sacramento, Calif.	50	30	11	5	2	2	3
W.N. CENTRAL	603	425	114	30	12	22	13	San Diego, Calif.	78	51	21	3	1	2	8
Des Moines, Iowa	44	26	8	4	5	1	-	San Francisco, Calif.	118	77	26	11	-	6	3
Duluth, Minn.	30	24	2	1	-	3	2	San Jose, Calif.	128	73	28	15	2	10	5
Kansas City, Kans.	22	16	4	1	-	1	-	Seattle, Wash.	157	106	32	10	5	4	7
Kansas City, Mo.	111	85	13	7	1	5	3	Spokane, Wash.	53	38	11	-	1	3	5
Lincoln, Nebr.	29	21	8	-	-	-	-	Tacoma, Wash.	42	28	9	2	1	2	5
Minneapolis, Minn.	65	48	12	4	1	-	1								
Omaha, Nebr.	72	42	21	2	2	5	1								
St. Louis, Mo.	118	86	21	4	1	6	-								
St. Paul, Minn.	41	29	9	2	1	-	2								
Wichita, Kans.	71	48	16	5	1	1	4								
								TOTAL	10,435 ^{††}	6,652	2,390	677	305	406	373

*Mortality data in this table are voluntarily reported from 121 cities in the United States, most of which have populations of 100,000 or more. A death is reported by the place of its occurrence and by the week that the death certificate was filed. Fetal deaths are not included.

**Pneumonia and influenza

†Because of changes in reporting methods in these 4 Pennsylvania cities, these numbers are partial counts for the current week. Complete counts will be available in 4 to 6 weeks.

††Total includes unknown ages.

§Data not available. Figures are estimates based on average of past 4 weeks.

Water-Related Disease Outbreaks – Continued

in the 3 years for which data on these outbreaks have been tabulated. Of the 8 outbreaks related to outdoor swimming, 6 were gastroenteritis (4 caused by *Shigella*, and 2 of unknown cause). In 5 of these 6 outbreaks, transmission occurred in small, fresh-water lakes, and in the sixth, in a swimming pool. Water tested for coliform organisms after 5 of these 6 outbreaks of gastrointestinal illness met the current EPA recommendations for recreational-water quality in all but 1 case (7). In addition to the gastroenteritis outbreaks, 1 outbreak of conjunctivitis occurred that was caused by adenovirus acquired in a swimming pool, and 1 case of *Vibrio cholerae* diarrhea, classified as an outbreak because of its unusual etiology, was reported. In the latter case the patient presumably acquired his infection while swimming in a stagnant ditch. Finally, 5 outbreaks of dermatitis were reported, 4 related to whirlpools and 1 to an indoor swimming pool.

Reported by participating State and Territorial Epidemiologists; Health Effects Research Laboratory, Environmental Protection Agency; Field Services Div, Epidemiology Program Office, Chronic Diseases Div, Center for Environmental Health, Viral Diseases Div, Hepatitis and Viral Enteritis Div, Parasitic Diseases Div, Enteric Bacteriology and Epidemiology Br, Bacterial Diseases Div, Center for Infectious Diseases, CDC.

Editorial Note: The increase in the number of outbreaks of waterborne disease associated with drinking water probably reflects more complete reporting rather than an actual rise in incidence. Because the water-related-disease surveillance system is largely passive, the totals

TABLE I. Summary – cases of specified notifiable diseases, United States

DISEASE	51st WEEK ENDING			CUMULATIVE, FIRST 51 WEEKS		
	December 26 1981	December 20 1980	MEDIAN 1976-1980	December 26 1981	December 20 1980	MEDIAN 1976-1980
Aseptic meningitis	81	113	90	8,941	7,682	6,378
Brucellosis	1	6	6	158	179	195
Chickenpox	2,770	4,484	3,587	192,729	183,584	183,028
Encephalitis:	17	20	17	1,380	1,180	1,163
Primary (arthropod-borne & unsp.)	—	1	1	81	212	212
Post-infectious	13,551	19,679	16,880	976,823	990,091	986,583
Gonorrhea:	162	337	412	26,505	26,230	26,230
Civilian	381	628	586	24,657	27,930	29,290
Military	289	474	289	20,242	18,141	14,732
Hepatitis:	151	240	175	10,710	11,456	8,730
Type A	2	8	2	232	218	155
Type B	7	26	12	1,282	1,995	712
Type unspecified	11	21	219	3,025	13,375	26,663
Leprosy	52	73	37	3,385	2,660	2,361
Malaria	52	73	37	3,372	2,641	2,334
Measles (rubeola)	—	—	—	13	19	20
Meningococcal infections:	133	140	340	4,592	8,365	16,352
Total	12	26	34	1,177	1,636	1,636
Civilian	34	38	129	2,044	3,787	12,051
Military	383	611	455	30,359	26,960	23,381
Mumps	3	10	7	359	317	313
Pertussis	425	668	582	26,766	26,793	28,565
Rubella (German measles)	1	7	4	261	230	161
Syphilis (Primary & Secondary):	17	9	6	583	495	495
Civilian	2	7	5	1,176	1,158	1,042
Military	50	99	53	6,916	6,254	3,123
Tuberculosis						
Tularemia						
Typhoid fever						
Typhus fever, tick-borne (RMSF)						
Rabies, animal						

TABLE II. Notifiable diseases of low frequency, United States

	CUM. 1981		CUM. 1981
Anthrax	1	Poliomyelitis: Total	6
Botulism (Tex. 1)	79	Paralytic	6
Cholera	19	Psittacosis (Pa. 1)	103
Congenital rubella syndrome	11	Rabies, human	1
Diphtheria	4	Tetanus	60
Leptospirosis (Iowa 1, Fla. 1)	54	Trichinosis (Pa. 10)	143
Plague	9	Typhus fever, flea-borne (endemic, murine) (Tex. 1)	48

Water-Related Disease Outbreaks — Continued

given here are estimated to be but a fraction of the number of outbreaks that actually occurred. Supporting this is the fact that 1 state, Pennsylvania, which has a well-developed surveillance system, reported 20% of all the outbreaks in 1980. Three states, Vermont, Colorado, and Washington, are receiving federal funds for surveillance in 1981 through contracts with EPA. In the future, analysis of data from these states and Pennsylvania may provide a more accurate representation of the incidence of waterborne disease.

The 1980 surveillance data highlight several points of public health interest. First, the large number of cases per community outbreak reemphasizes the large potential public-health risk of failures of water-treatment systems. Second, the outbreaks caused by water in back-country areas demonstrate the need for the public to know that water in springs and creeks should be considered nonpotable and should be disinfected by chemical means or by boiling before it is consumed. Finally, the EPA recommended standard for recreational water is primarily derived from studies performed 3 decades ago (2). More recent studies indicate that appreciable rates of gastrointestinal illness may occur in persons who swim in water with much lower concentrations of fecal coliform organisms than the EPA maximum standard (1). The outbreaks of gastroenteritis related to swimming are consistent with these findings.

References

1. Cabelli VJ. Health effects quality criteria for marine recreational waters. Cincinnati, Ohio: Health Effects Research Laboratory, U.S. Environmental Protection Agency. Sept. 1980. (EPA-600/80-031).
2. Stevenson AJ. Studies of bathing water quality and health. *Am J Public Health* 1953;43:529-538.

Influenza — United States, Worldwide

United States: The only influenza isolates reported in the United States so far this winter have been 4 influenza B viruses isolated from sporadic cases in Houston, Texas, and an influenza A(H1N1) virus isolated from a nursing-home resident in New Jersey (1,2). As of this date, 3 additional reports have been received of influenza B viruses isolated from sporadic cases this fall and winter.

Influenza B virus was isolated from a 6-year-old boy who had fever, headache, sore throat, abdominal pain, and a history of vomiting. He was seen on September 9, 1981, at the Nassau County Medical Center, New York. This represents the first influenza infection proven by virus isolation in the United States since last spring. Influenza B viruses were also isolated from a 40-year-old Dallas, Texas, resident, and a 33-year-old patient hospitalized in Tucson, Arizona. The Dallas resident had traveled in the San Francisco area from November 12 to 15. He returned to Dallas on November 15 and became ill the next day. He subsequently traveled to El Paso, sought medical attention there on November 19, and had a specimen collected for virus isolation. The patient in Tucson was febrile and was hospitalized on December 2 for observation. Shortly thereafter she developed respiratory congestion and lung infiltrates that were visible on X-ray examination. After 5 days she improved and was discharged.

Worldwide: An influenza A(H3N2) virus was recovered in October from a U.S. airman with an isolated illness in Guam, and 2 influenza B viruses were obtained in November from U.S. airmen with isolated illnesses in the Philippines. Elsewhere in Asia, outbreaks of influenza-like illness occurred in November among children in 2 primary schools in central and southern

Influenza — Continued

Japan. Influenza B was recovered in 1 outbreak and serologic evidence of influenza B infection was obtained to document the other. Influenza A(H1N1) was recovered from 2 young adults with isolated cases in southern Japan. In November, several isolates of influenza A(H3N2) and a single isolate of influenza A(H1N1) were reported from Italy. Influenza B viruses were obtained from children with isolated illness in France and Switzerland.

Reported by T Ginnattasio, MD, K Szabo, MD, Nassau County Medical Center, N Schell, MD, MPH, Nassau County Health Dept, R Rothenburg, MD, State Epidemiologist, New York State Dept of Health; E Gorby, MD, J Bradley, MD, Region III, C Sweet, PhD, C Webb Jr, State Epidemiologist, Texas Dept of Health; B Friedman, MD, J Corcoran, MD, L Minnich, G Ray, PhD, University Hospital, Tucson, JJ Sacks, MD, Acting State Epidemiologist, Arizona Dept of Health Svcs; Microbiology Section, Disease Surveillance Br, Epidemiology Div, USAF School of Aerospace Medicine, Brooks AFB, Texas; and Virus Diseases Unit, WHO, Geneva; WHO Collaborating Center for Influenza, Div of Viral Diseases, Center for Infectious Diseases, CDC.

Editorial Note: Although few isolates or outbreaks of influenza have been reported in the Northern Hemisphere so far this winter, this gives no indication of the severity of outbreaks that may yet occur. For example, in the 1976-77 season, although very few virus isolates had been obtained before the new year, an epidemic of influenza B occurred in February and March. Furthermore, because influenza A(H1N1) and A(H3N2), as well as influenza B strains, continue to circulate in different countries, albeit at low levels, the likely predominance of any given strain in the United States this winter cannot be predicted.

References

1. CDC. Influenza A isolation—New Jersey. MMWR 1981;30:597-8.
2. CDC. Influenza B—Texas. MMWR 1981;30:566.

Erratum, Vol. 30, No. 47

- p. 581. A name was incorrectly spelled in the credits for the report "Sudden, Unexpected, Nocturnal Deaths Among Southeast Asian Refugees." The name was printed as "P Horn, MD," but should be "P Hom, MD."

The Morbidity and Mortality Weekly Report, circulation 100,000, is published by the Centers for Disease Control, Atlanta, Georgia. 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.

The editor welcomes accounts on interesting cases, outbreaks, environmental hazards, or other public health problems of current interest to health officials. Send reports to: Attn: Editor, Morbidity and Mortality Weekly Report, Centers for Disease Control, Atlanta, Georgia 30333.

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