Morbidity and Mortality Weekly Report

U. S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE

PUBLIC HEALTH SERVICE

Prepared by the COMMUNICABLE DISEASE CENTER *634-5131*

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PROVISIONAL INFORMATION ON SELECTED NOTIFIABLE DISEASES IN THE UNITED STATES AND ON DEATHS IN SELECTED CITIES FOR WEEK ENDED JUNE 8, 1963

HEPATITIS – There were 688 cases of viral hepatitis reported for the week ending June 8, 1963. This brings the total number of reported cases of viral hepatitis during the first 23 weeks of 1963 to 21,650.

Cumulative totals of viral hepatitis cases for the first 23 weeks for the years 1959-1963, and annual totals for the years 1959-1962 are shown in the table below:

	1963	1962	1961	1960	1959
Viral Hepatitis Cases Through 23rd Week	21,650	29,277	39,338	17,862	11,036
Total for Year		53,306*	72,733	41,063	22,797

*Provisional

Since 1961 there has been a continued decline in viral hepatitis cases. The recent epidemic wave, which peaked in 1961, appears to be declining less rapidly than the previous wave first noted in 1954 when viral hepatitis became reportable. In the figure below are shown the number of reported cases of viral hepatitis by 4 week periods since 1954.

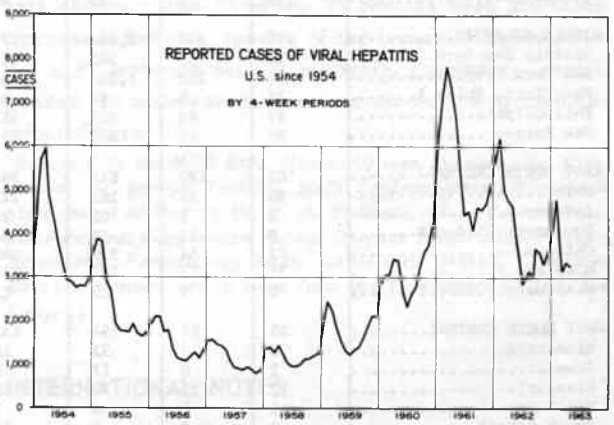


Table 1. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

(Cumulative totals include revised and delayed reports through previous week)

Disease	23rd Week			Cumulative First 23 weeks		
	Ended June 8, 1963	Ended June 9, 1962	Median 1958 - 1962	1963	1962	Median 1958 - 1962
Aseptic meningitis	41	68	---	530	479	---
Brucellosis	3	12	13	148	173	324
Diphtheria	8	1	4	120	200	310
Encephalitis, infectious	39	31	41	660	679	659
Hepatitis, infectious and serum	688	978	683	21,650	29,277	18,055
Measles	14,143	16,195	17,032	306,582	386,155	333,138
Meningococcal infections	40	34	39	1,307	1,099	1,211
Poliomyelitis, total	5	6	19	61	158	350
Paralytic	4	6	16	52	121	253
Nonparalytic	-	-	2	2	21	62
Unspecified	1	-	1	7	16	35
Streptococcal sore throat and Scarlet fever	5,764	4,977	---	201,363	184,409	---
Tetanus	4	5	---	90	78	---
Tularemia	7	5	---	93	110	---
Typhoid fever	6	11	11	155	204	244
Typhus fever, tick-borne, (Rocky Mountain spotted)	11	12	---	30	40	---
Rabies in Animals	68	73	73	1,799	1,934	1,854

Table 2. NOTIFIABLE DISEASES OF LOW FREQUENCY

	Cum.		Cum.
Anthrax: N. C.-1	2	Psittacosis: Ill.-1, Mich.-1	29
Botulism:	5	Rabies in Man:	-
Malaria:	41	Smallpox:	-
Plague:	-	Typhus, murine: S. C.-1, Tex.-1	5

SUMMARY OF REPORTED CASES OF INFECTIOUS SYPHILIS

MAY 1963 AND MAY 1962

CASES OF PRIMARY AND SECONDARY SYPHILIS: By Reporting Area May 1963 and May 1962 - Provisional Data

Reporting Area	May		Cumulative January - May	
	1963	1962	1963	1962
NEW ENGLAND	54	34	198	235
Maine	0	0	2	3
New Hampshire	0	0	4	2
Vermont	0	0	1	0
Massachusetts	31	28	101	173
Rhode Island	6	1	11	13
Connecticut	17	5	79	48
MIDDLE ATLANTIC	498	346	2,496	2,177
Upstate New York	54	33	245	225
New York City	271	155	1,397	1,149
Pa. (Excl. Phila.)	17	6	67	44
Philadelphia	57	83	325	347
New Jersey	99	69	462	412
EAST NORTH CENTRAL	162	120	817	688
Ohio	34	28	162	122
Indiana	5	1	22	26
Downstate Illinois	8	11	51	64
Chicago	72	64	370	340
Michigan	35	12	183	114
Wisconsin	8	4	29	22
WEST NORTH CENTRAL	35	21	194	133
Minnesota	5	3	32	18
Iowa	2	0	17	3
Missouri	17	13	79	68
North Dakota	1	0	4	1
South Dakota	2	3	9	18
Nebraska	4	0	25	4
Kansas	4	2	28	21
SOUTH ATLANTIC	524	484	2,527	2,358
Delaware	1	4	19	21
Maryland	59	41	225	218
District of Columbia	48	50	297	286
Virginia	18	48	122	212
West Virginia	4	1	22	12
North Carolina	80	54	373	256
South Carolina	63	80	280	327
Georgia	69	73	418	383
Florida	182	133	771	643

Reporting Area	May		Cumulative January - May	
	1963	1962	1963	1962
EAST SOUTH CENTRAL	145	97	632	476
Kentucky	13	4	47	47
Tennessee	35	26	175	132
Alabama	65	61	289	269
Mississippi	32	6	121	28
WEST SOUTH CENTRAL	267	219	1,171	1,103
Arkansas	20	24	94	81
Louisiana	60	90	267	473
Oklahoma	20	9	78	37
Texas	167	96	732	512
MOUNTAIN	58	26	220	142
Montana	2	0	2	0
Idaho	1	0	1	1
Wyoming	0	0	5	0
Colorado	5	6	20	23
New Mexico	15	2	51	23
Arizona	23	15	101	73
Utah	1	0	10	2
Nevada	11	3	30	20
PACIFIC	209	137	943	686
Washington	3	3	57	13
Oregon	6	7	20	24
California	195	126	853	642
Alaska	1	0	3	2
Hawaii	4	1	10	5
U. S. TOTAL	1,952	1,484	9,198	7,998
TERRITORIES	90	32	325	169
Puerto Rico	88	32	317	162
Virgin Islands	2	0	8	7

Note: Cumulative Totals include revised and delayed reports through previous months.

EPIDEMIOLOGICAL REPORTS

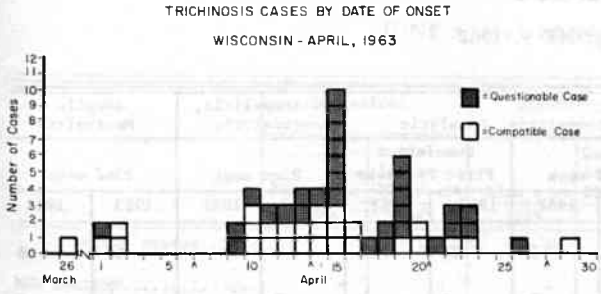
Trichinosis – Wisconsin

During late March and April of 1963 an epidemic of trichinosis occurred in southeastern Wisconsin. Investigations by local and State health officials disclosed that all affected persons had consumed summer sausage from a single lot of sausage made at a local market (Market A) during the week March 16-23, and sold between March 23 and April 15. Part of the pork used in the sausage was from a local farm. "Pork trimmings" from hogs slaughtered on March 8, 11, or 12, used in the sausage were obtained from a plant in another city.

In early May, investigations were conducted to determine the extent of the outbreak. All physicians in the county were asked to report cases of trichinosis-like illness. Histories were obtained and skin tests performed on reported cases and other family members when possible. A total of 75 persons in 26 family units were interviewed and skin tested.

Characteristic symptoms of the illness included muscle pain, eye and facial edema, fever, gastro-intestinal symptoms, and occasionally dizziness. Cases were considered as compatible with trichinosis who had both muscle pain and edema, with or without other symptoms. Cases not meeting these criteria but having at least one of the symptoms were considered questionable. Twenty-eight of the 75 had illnesses compatible with trichinosis, 30 were questionable, and 17 had no illness. The range of incubation periods was calculated as being from 3-13 days. Two patients required hospitalization. The epidemic curve is shown in the accompanying figure.

Skin testing with trichinella antigen prepared at the Communicable Disease Center was performed on each of the 75 people interviewed. Ninety-six percent of those diagnosed as having an illness compatible with trichi-



nosis had a positive skin test, while 63 percent of those with a questionable diagnosis of trichinosis and 23 percent of those without record of illness during the period of the outbreak had positive skin tests with trichinella antigen, as shown in the table below.

SKIN TEST RESULTS WITH TRICHINELLA ANTIGEN WISCONSIN – MAY 1963

	Number of Persons	Number Positive	Percent Positive
Compatible Illness	28	27	96
Questionable illness	30	19	63
No illness	17	4	23
Total	75	50	67

All but three of the patients with illnesses compatible with trichinosis had eaten summer sausage obtained from Market A between March 23 and April 15, including the proprietor (onset May 26) who had sampled the sausage during its preparation. Two of the individuals, a married couple from a nearby town who did not eat sausage from Market A, had eaten sausage obtained the last week of March from a market in another city which used pork trimmings from the same plant as those obtained by Market A. Onsets of illness, with muscle pain, periorbital edema and diarrhea were on April 10 and 14 in these two persons; both had positive skin tests. The third case not related to Market A, and not shown in the figure, occurred in a woman from another city, who developed diarrhea, fever, and muscle pain on March 8, followed by periorbital and facial edema beginning on March 15. Although she denied ingestion of summer sausage and rarely ate pork of any kind, she had on occasion purchased meat from the same meat market used by the two patients mentioned just above. Her skin test was positive to trichinella antigen.

All of the suspect lot of sausage had been sold prior to recognition of the epidemic. Examination of two small samples, provided by two of the cases, at the State Laboratory of Hygiene and at the Central Animal Diagnostic Laboratory gave negative results for viable trichinae. Continuing studies of these specimens are in process. Blood sera obtained from 73 of the 75 persons seen are being processed; however, results of the bentonite flocculation and C.F. tests are not yet available. Continuing investigations are underway to determine the source of trichina-infected hogs.

(Reported by Dr. M. F. Ries, Health Officer, Brownsville, Wisconsin; Dr. Joseph Preizler, State Epidemiologist, Wisconsin State Board of Health; Dr. A. A. Erdmann, Chief Veterinarian, State-Federal Cooperative Animal Disease Eradication Program, Wisconsin; Parasitology Unit, Laboratory Branch, Communi-Disease Center; and a team from the Communicable Disease Center.)

INTERNATIONAL NOTES

Smallpox – Sweden

Two additional cases of smallpox were identified in Stockholm last week bringing to 21 the total number of cases in the current outbreak. Unique circumstances involving these last two persons, neither of whom were under surveillance as contacts at the time of their detection, indicates that the outbreak may perhaps be expected to continue.

Information made available by Dr. Bo Zetterberg, Chief, Epidemiology Division, State Bacteriology Lab-

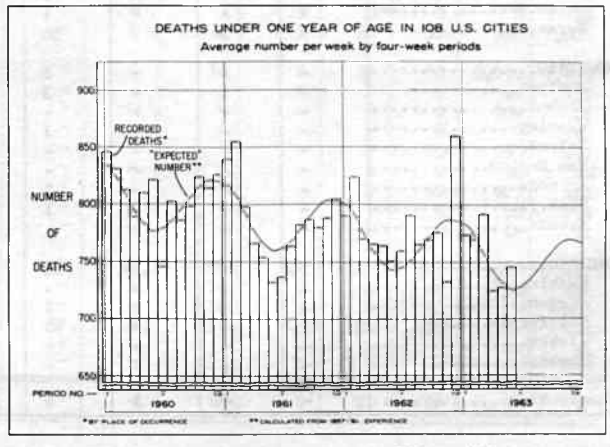
(Continued on page 196)

INFANT DEATHS IN 108 CITIES

The weekly average number of infant deaths in 108 cities for the four-week period ending June 8 was 746 as compared with an expected weekly average of 726.

TOTAL DEATHS UNDER ONE YEAR OF AGE IN 108 CITIES

	WEEK ENDING				4 Week Total	Weekly Average
	5/18	5/25	6/1	6/8		
Observed	708	761	727	787	2,983	746
Expected	727	726	726	726	2,905	726
Excess	– 19	35	1	61	78	20



(See table, page 195)

Table 3. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
FOR WEEKS ENDED
JUNE 8, 1963 AND JUNE 9, 1962

Area	Poliomyelitis, total cases				Poliomyelitis, paralytic				Poliomyelitis, nonparalytic		Aseptic Meningitis	
	23rd week		Cumulative First 23 weeks		23rd week		Cumulative First 23 weeks		23rd week		23rd week	
	1963	1962	1963	1962	1963	1962	1963	1962	1963	1962	1963	1962
UNITED STATES	5	6	61	158	4	6	52	121	-	-	41	68
NEW ENGLAND	-	-	-	1	-	-	-	1	-	-	1	-
Maine	-	-	-	-	-	-	-	-	-	-	-	-
New Hampshire	-	-	-	-	-	-	-	-	-	-	-	-
Vermont	-	-	-	-	-	-	-	-	-	-	-	-
Massachusetts	-	-	-	-	-	-	-	-	-	-	-	-
Rhode Island	-	-	-	-	-	-	-	-	-	-	1	-
Connecticut	-	-	-	1	-	-	-	1	-	-	-	-
MIDDLE ATLANTIC	-	-	8	33	-	-	6	20	-	-	2	2
New York	-	-	4	32	-	-	4	19	-	-	2	1
New Jersey	-	-	1	1	-	-	1	1	-	-	-	-
Pennsylvania	-	-	3	-	-	-	1	-	-	-	-	1
EAST NORTH CENTRAL	1	-	15	10	-	-	11	6	-	-	9	5
Ohio	-	-	4	4	-	-	3	4	-	-	-	-
Indiana	1	-	2	3	-	-	-	2	-	-	1	-
Illinois	-	-	6	2	-	-	5	-	-	-	1	3
Michigan	-	-	2	-	-	-	2	-	-	-	7	1
Wisconsin	-	-	1	1	-	-	1	-	-	-	-	1
WEST NORTH CENTRAL	1	-	3	7	1	-	3	4	-	-	4	3
Minnesota	1	-	2	1	1	-	2	1	-	-	3	3
Iowa	-	-	-	3	-	-	-	2	-	-	-	-
Missouri	-	-	1	3	-	-	1	1	-	-	1	-
North Dakota	-	-	-	-	-	-	-	-	-	-	-	-
South Dakota	-	-	-	-	-	-	-	-	-	-	-	-
Nebraska	-	-	-	-	-	-	-	-	-	-	-	-
Kansas	-	-	-	-	-	-	-	-	-	-	-	-
SOUTH ATLANTIC	1	-	7	11	1	-	6	9	-	-	5	44
Delaware	-	-	-	-	-	-	-	-	-	-	-	-
Maryland	-	-	-	-	-	-	-	-	-	-	-	-
District of Columbia	-	-	-	1	-	-	-	-	-	-	-	-
Virginia	-	-	1	2	-	-	1	2	-	-	-	-
West Virginia	1	-	1	-	1	-	1	-	-	-	-	-
North Carolina	-	-	2	2	-	-	2	2	-	-	-	-
South Carolina	-	-	-	-	-	-	-	-	-	-	-	1
Georgia	-	-	1	2	-	-	-	2	-	-	-	-
Florida	-	-	2	4	-	-	2	3	-	-	5	43
EAST SOUTH CENTRAL	-	-	3	5	-	-	2	3	-	-	2	-
Kentucky	-	-	-	2	-	-	-	2	-	-	-	-
Tennessee	-	-	1	2	-	-	1	-	-	-	-	-
Alabama	-	-	2	1	-	-	1	1	-	-	2	-
Mississippi	-	-	-	-	-	-	-	-	-	-	-	-
WEST SOUTH CENTRAL	-	5	14	67	-	5	14	58	-	-	2	-
Arkansas	-	-	-	1	-	-	-	1	-	-	-	-
Louisiana	-	-	12	5	-	-	12	5	-	-	-	-
Oklahoma	-	-	-	1	-	-	-	-	-	-	1	-
Texas	-	5	2	60	-	5	2	52	-	-	1	-
MOUNTAIN	-	1	-	8	-	1	-	7	-	-	3	3
Montana	-	1	-	3	-	1	-	2	-	-	-	-
Idaho	-	-	-	-	-	-	-	-	-	-	-	-
Wyoming	-	-	-	1	-	-	-	1	-	-	-	-
Colorado	-	-	-	-	-	-	-	-	-	-	3	-
New Mexico	-	-	-	-	-	-	-	-	-	-	-	-
Arizona	-	-	-	3	-	-	-	3	-	-	-	3
Utah	-	-	-	1	-	-	-	1	-	-	-	-
Nevada	-	-	-	-	-	-	-	-	-	-	-	-
PACIFIC	2	-	11	16	2	-	10	13	-	-	13	11
Washington	-	-	-	-	-	-	-	-	-	-	-	1
Oregon	-	-	1	1	-	-	1	1	-	-	1	-
California	2	-	10	15	2	-	9	12	-	-	12	10
Alaska	-	-	-	-	-	-	-	-	-	-	-	-
Hawaii	-	-	-	-	-	-	-	-	-	-	-	-
Puerto Rico	-	-	3	6	-	-	3	6	-	-	-	-

Table 3. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES FOR WEEKS ENDED JUNE 8, 1963 AND JUNE 9, 1962 - (Continued)

Area	Brucellosis		Diphtheria		Encephalitis, infectious		Hepatitis, infectious and serum				Measles	
							23rd week					
	23rd week	Cumulative 23 weeks	23rd week	Cumulative 23 weeks	23rd week		Under 20 yr.	20 & over	Total		23rd week	
	1963	1963	1963	1963	1963	1962	1963	1963	1963	1962	1963	1962
UNITED STATES	3	148	8	120	39	31	351	291	688	978	14,143	16,195
NEW ENGLAND	-	-	-	4	3	2	32	20	55	60	575	2,298
Maine	-	-	-	-	-	-	15	4	19	27	33	336
New Hampshire	-	-	-	-	-	-	2	2	4	4	-	64
Vermont	-	-	-	-	-	-	-	-	-	1	69	208
Massachusetts	-	-	-	2	-	1	10	12	24	19	241	874
Rhode Island	-	-	-	2	2	1	-	-	1	2	57	150
Connecticut	-	-	-	-	1	-	5	2	7	7	175	666
MIDDLE ATLANTIC	-	4	1	20	7	4	70	68	138	189	2,504	3,553
New York	-	3	-	13	4	2	48	43	91	111	1,063	1,557
New Jersey	-	-	1	2	-	-	5	10	15	22	716	1,679
Pennsylvania	-	1	-	5	3	2	17	15	32	56	725	317
EAST NORTH CENTRAL	-	10	-	11	4	4	67	50	124	179	5,217	2,972
Ohio	-	-	-	1	1	1	13	11	24	55	825	388
Indiana	-	1	-	3	-	-	9	3	16	24	106	233
Illinois	-	8	-	3	-	1	16	15	33	50	387	831
Michigan	-	1	-	3	3	2	29	18	47	46	2,300	1,121
Wisconsin	-	-	-	1	-	-	-	3	4	4	1,599	399
WEST NORTH CENTRAL	3	105	3	35	-	1	21	21	50	36	665	717
Minnesota	-	7	-	15	-	-	1	6	10	9	44	89
Iowa	1	76	-	1	-	-	7	3	15	10	405	469
Missouri	-	4	-	1	-	-	9	8	17	7	103	31
North Dakota	-	-	-	1	-	-	-	1	1	1	100	115
South Dakota	2	7	-	9	-	1	-	1	1	4	1	11
Nebraska	-	5	3	8	-	-	-	-	-	-	12	2
Kansas	-	6	-	-	-	-	4	2	6	5	NN	NN
SOUTH ATLANTIC	-	4	2	23	11	5	27	26	58	125	1,135	771
Delaware	-	-	-	-	-	-	1	1	2	1	15	19
Maryland	-	-	-	-	1	3	5	3	8	18	108	130
District of Columbia	-	-	-	-	-	-	1	-	1	3	2	5
Virginia	-	2	-	-	-	-	3	5	11	18	255	242
West Virginia	-	-	-	1	-	-	5	4	10	23	378	205
North Carolina	-	1	-	1	1	2	4	5	9	40	58	15
South Carolina	-	-	2	6	-	-	-	1	1	3	134	36
Georgia	-	-	-	7	-	-	1	-	1	6	-	-
Florida	-	1	-	8	9	-	7	7	15	13	185	119
EAST SOUTH CENTRAL	-	4	-	9	2	1	30	19	50	124	846	812
Kentucky	-	-	-	-	-	-	9	8	18	62	565	192
Tennessee	-	3	-	2	1	-	10	8	18	26	239	500
Alabama	-	1	-	7	-	-	5	2	7	24	17	75
Mississippi	-	-	-	-	1	1	6	1	7	12	25	45
WEST SOUTH CENTRAL	-	10	2	15	-	2	32	17	50	77	542	1,234
Arkansas	-	3	-	1	-	-	5	-	5	16	5	115
Louisiana	-	-	-	2	-	-	6	2	8	10	2	4
Oklahoma	-	2	-	5	-	-	2	2	5	1	5	38
Texas	-	5	2	7	-	2	19	13	32	50	530	1,077
MOUNTAIN	-	4	-	1	-	2	10	6	36	58	1,201	1,426
Montana	-	-	-	-	-	-	3	5	8	6	66	157
Idaho	-	-	-	-	-	-	-	-	3	6	154	26
Wyoming	-	1	-	-	-	-	-	-	-	4	7	169
Colorado	-	-	-	-	-	-	3	-	7	15	293	447
New Mexico	-	-	-	1	-	-	4	-	4	6	NN	NN
Arizona	-	2	-	-	-	1	-	-	13	15	575	442
Utah	-	1	-	-	-	1	-	1	1	6	88	164
Nevada	-	-	-	-	-	-	-	-	-	-	18	21
PACIFIC	-	7	-	2	12	10	62	64	127	130	1,458	2,412
Washington	-	-	-	-	-	1	14	9	24	18	158	634
Oregon	-	2	-	-	-	-	10	9	19	19	-	605
California	-	4	-	2	12	9	37	45	82	90	1,175	952
Alaska	-	-	-	-	-	-	-	-	-	3	24	61
Hawaii	-	1	-	-	-	-	1	1	2	-	101	160
Puerto Rico	-	-	-	9	-	-	18	3	21	19	12	97

Table 3. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED

JUNE 8, 1963 AND JUNE 9, 1962 - (Continued)

Area	Meningococcal Infections		Streptococcal Sore Throat & Scarlet Fever		Tetanus	Tickborne Typhus (Rcky Mt. Spotted)	Tularemia	Typhoid Fever		Rabies in Animals		
	23rd wk.	Cumulative 23 weeks	23rd week		23rd wk.	23rd wk.	23rd wk.	23rd wk.	Cumulative 23 weeks	23rd week		Cumulative 23 weeks
	1963	1963	1963	1962	1963	1963	1963	1963	1963	1963	1962	1963
UNITED STATES....	40	1,307	5,764	4,977	4	11	7	6	155	68	73	1,799
NEW ENGLAND.....	3	82	682	407	-	-	-	-	6	-	-	18
Maine.....	1	14	69	9	-	-	-	-	-	-	-	1
New Hampshire.....	-	2	9	-	-	-	-	-	-	-	-	12
Vermont.....	1	3	17	9	-	-	-	-	1	-	-	5
Massachusetts.....	-	37	83	86	-	-	-	-	4	-	-	-
Rhode Island.....	1	8	46	35	-	-	-	-	-	-	-	-
Connecticut.....	-	18	458	268	-	-	-	-	1	-	-	-
MIDDLE ATLANTIC.....	7	183	384	256	-	2	-	2	20	2	1	47
New York.....	-	76	276	146	-	-	-	-	14	2	1	35
New Jersey.....	-	26	65	47	-	-	-	-	1	-	-	-
Pennsylvania.....	7	81	43	63	-	2	-	2	5	-	-	12
EAST NORTH CENTRAL..	6	209	745	445	-	-	-	-	8	5	14	272
Ohio.....	1	60	92	21	-	-	-	-	2	4	9	161
Indiana.....	1	25	63	86	-	-	-	-	1	-	3	30
Illinois.....	3	31	153	137	-	-	-	-	3	-	1	39
Michigan.....	1	67	311	91	-	-	-	-	1	-	1	26
Wisconsin.....	-	26	126	110	-	-	-	-	1	1	-	16
WEST NORTH CENTRAL..	5	80	154	114	-	1	1	-	9	27	16	430
Minnesota.....	3	16	15	7	-	-	-	-	3	7	7	114
Iowa.....	-	4	59	42	-	-	-	-	1	9	5	156
Missouri.....	1	28	3	1	-	1	1	-	5	5	1	79
North Dakota.....	1	4	69	45	-	-	-	-	-	1	2	13
South Dakota.....	-	4	6	1	-	-	-	-	-	4	-	53
Nebraska.....	-	19	-	-	-	-	-	-	-	1	1	7
Kansas.....	-	5	2	18	-	-	-	-	-	-	-	8
SOUTH ATLANTIC.....	4	236	595	351	1	3	1	1	32	10	5	288
Delaware.....	-	2	5	5	-	-	-	-	1	-	-	-
Maryland.....	1	38	13	30	-	-	1	-	3	-	-	-
Dist. of Columbia..	-	4	-	-	-	-	-	-	-	-	-	-
Virginia.....	1	59	135	89	-	-	-	-	4	4	-	106
West Virginia.....	-	13	125	63	-	-	-	-	5	3	2	85
North Carolina.....	-	39	60	6	1	2	-	1	5	-	-	4
South Carolina.....	-	13	30	64	-	1	-	-	2	-	-	6
Georgia.....	-	12	-	-	-	-	-	-	2	1	-	34
Florida.....	2	56	227	94	-	-	-	-	10	2	3	53
EAST SOUTH CENTRAL..	4	104	939	695	2	2	-	1	14	7	10	153
Kentucky.....	1	22	183	57	-	-	-	-	1	2	3	73
Tennessee.....	-	45	664	604	-	2	-	1	9	5	3	68
Alabama.....	3	21	17	6	2	-	-	-	4	-	4	12
Mississippi.....	-	16	75	28	-	-	-	-	-	-	-	-
WEST SOUTH CENTRAL..	2	137	522	502	1	1	4	1	28	7	19	370
Arkansas.....	-	8	-	2	-	-	4	1	14	1	1	24
Louisiana.....	1	56	1	-	1	-	-	-	5	-	1	35
Oklahoma.....	-	27	12	13	-	1	-	-	2	-	2	32
Texas.....	1	46	509	487	-	-	-	-	7	6	15	279
MOUNTAIN.....	-	42	951	942	-	2	-	-	2	2	1	39
Montana.....	-	3	27	21	-	-	-	-	-	-	-	-
Idaho.....	-	3	70	108	-	-	-	-	-	-	-	-
Wyoming.....	-	1	25	31	-	-	-	-	-	-	-	-
Colorado.....	-	11	365	279	-	2	-	-	1	-	-	-
New Mexico.....	-	3	232	217	-	-	-	-	1	-	-	21
Arizona.....	-	7	124	182	-	-	-	-	-	2	1	18
Utah.....	-	11	107	103	-	-	-	-	-	-	-	-
Nevada.....	-	3	1	1	-	-	-	-	-	-	-	-
PACIFIC.....	9	234	792	1,265	-	-	1	1	36	8	7	182
Washington.....	1	17	180	318	-	-	-	-	-	-	-	-
Oregon.....	1	14	13	24	-	-	-	-	2	-	-	1
California.....	6	192	509	873	-	-	1	1	31	8	7	172
Alaska.....	-	5	47	4	-	-	-	-	1	-	-	9
Hawaii.....	1	6	43	46	-	-	-	-	2	-	-	-
Puerto Rico.....	-	4	13	7	-	-	-	-	8	-	-	6

Table 4 (C). TOTAL DEATHS UNDER 1 YEAR OF AGE IN REPORTING CITIES

(Tables 4(A), 4(B), 4(C), and 4(D) will be published in sequence covering a four-week period.)°

Area	For weeks ending 5/18	5/25	6/1	6/8
NEW ENGLAND:				
Boston, Mass.	18	6	21	20
Bridgeport, Conn.	0	3	2	3
Cambridge, Mass.	2	0	0	1
Fall River, Mass.	4	1	1	1
Hartford, Conn.	3	6	3	5
Lowell, Mass.	4	2	2	1
Lynn, Mass.	0	0	0	0
New Bedford, Mass.	1	2	1	3
New Haven, Conn.	12	2	4	7
Providence, R.I.	3	2	7	3
Somerville, Mass.	0	1	0	0
Springfield, Mass.	1	3	2	1
Waterbury, Conn.	2	3	1	2
Worcester, Mass.	5	5	3	4
MIDDLE ATLANTIC:				
Albany, N.Y.	3	3	2	1
Allentown, Pa.	1	1	1	4
Buffalo, N.Y.	10	14	4	13
Camden, N.J.	4	10	3	4
Elizabeth, N.J.	3	2	4	0
Erie, Pa.	2	3	2	2
Jersey City, N.J.	3	2	5	5
Newark, N.J.	9	25	4	6
New York City, N.Y.	78	82	66	76
Paterson, N.J.	3	4	3	7
Philadelphia, Pa.	29	19	39	20
Pittsburgh, Pa.	7	10	13	20
Reading, Pa.	1	4	1	0
Rochester, N.Y.	5	2	4	10
Schenectady, N.Y.	1	0	3	2
Scranton, Pa.	2	0	1	1
Syracuse, N.Y.	2	4	4	1
Trenton, N.J.	2	2	4	1
Utica, N.Y.	0	1	0	0
Yonkers, N.Y.	2	3	1	0
EAST NORTH CENTRAL:				
Akron, Ohio.	5	4	5	3
Canton, Ohio.	1	4	2	2
Chicago, Ill.	41	43	36	58
Cincinnati, Ohio.	10	14	10	15
Cleveland, Ohio.	11	15	15	10
Columbus, Ohio.	8	13	7	9
Dayton, Ohio.	3	3	2	6*
Detroit, Mich.	32	20	16	26
Evansville, Ind.	1	2	2	1
Flint, Mich.	1	1	4	5
Fort Wayne, Ind.	4	7	2	2
Gary, Ind.	1	6	4	4*
Grand Rapids, Mich.	1	1	3	4
Indianapolis, Ind.	15	10	8	16
Madison, Wis.	4	4	5	2
Milwaukee, Wis.	5	8	10	11
Peoria, Ill.	2	1	0	3
Rockford, Ill.	3	2	1	2
South Bend, Ind.	2	3	3	2
Toledo, Ohio.	1	5	4	7
Youngstown, Ohio.	2	6	1	1
WEST NORTH CENTRAL:				
Des Moines, Iowa.	2	2	1	1
Duluth, Minn.	2	1	3	0
Kansas City, Kans.	5	4	3	3
Kansas City, Mo.	8	3	4	9
Lincoln, Nebr.	2	2	4	4
Minneapolis, Minn.	8	9	3	20
Omaha, Nebr.	5	9	5	4
St. Louis, Mo.	18	16	15	13
St. Paul, Minn.	1	3	6	4
Wichita, Kans.	3	5	1	1
SOUTH ATLANTIC:				
Atlanta, Ga.	14	13	3	12
Baltimore, Md.	24	24	8	30
Charlotte, N.C.	3	3	7	5
Jacksonville, Fla.	6	6	11	7
Miami, Fla.	2	2	6	5
Norfolk, Va.	1	3	1	3
Richmond, Va.	7	5	4	24
Savannah, Ga.	6	2	2	5
St. Petersburg, Fla.	3	4	0	1
Tampa, Fla.	3	6	6	4
Washington, D.C.	6	23	37	6
Wilmington, Del.	1	0	0	0
EAST SOUTH CENTRAL:				
Birmingham, Ala.	3	16	3	9
Chattanooga, Tenn.	2	1	4	2
Knoxville, Tenn.	1	1	3	0
Louisville, Ky.	16	13	8	6
Memphis, Tenn.	9	15	11	12
Mobile, Ala.	8	7	5	2
Montgomery, Ala.	1	1	6	3
Nashville, Tenn.	7	4	1	2
WEST SOUTH CENTRAL:				
Austin, Tex.	5	3	0	0
Baton Rouge, La.	6	2	1	3
Corpus Christi, Tex.	3	3	2	4
Dallas, Tex.	13	19	18	10
El Paso, Tex.	9	8	11	6
Fort Worth, Tex.	7	6	6	5
Houston, Tex.	7	14	19	15
Little Rock, Ark.	4	6	18	3
New Orleans, La.	17	15	26	15
Oklahoma City, Okla.	7	3	8	7
San Antonio, Tex.	10	6	7	11
Shreveport, La.	3	3	12	1
Tulsa, Okla.	3	0	5	4
MOUNTAIN:				
Albuquerque, N. Mex.	3	2	4	2
Colorado Springs, Colo.	3	1	0	2
Denver, Colo.	5	8	5	6
Ogden, Utah.	1	1	0	3
Phoenix, Ariz.	8	1	4	11
Pueblo, Colo.	0	3	3	0
Salt Lake City, Utah.	4	5	5	4
Tucson, Ariz.	2	1	4	4
PACIFIC:				
Berkeley, Calif.	1	2	3	0
Fresno, Calif.	4	5	4	2
Glendale, Calif.	1	0	0	0
Honolulu, Hawaii.	8	3	5	3
Long Beach, Calif.	3	3	2	9
Los Angeles, Calif.	25	39	25	31
Oakland, Calif.	8	3	2	6
Pasadena, Calif.	2	2	1	1
Portland, Oreg.	4	4	7	8
Sacramento, Calif.	3	0	7	3
San Diego, Calif.	7	6	8	9
San Francisco, Calif.	1	6	9	12
San Jose, Calif.	3	7	4	9
Seattle, Wash.	8	5	9	9
Spokane, Wash.	3	4	1	1
Tacoma, Wash.	0	6	3	2
San Juan, P.R.	2	0	4	2

*Estimate - based on average percent of divisional total.
Totals for previous weeks include reported corrections.

NOTE: All deaths by place of occurrence.

°Current Week Mortality for 108 Selected Cities

4(A) Total Mortality, all ages	11,902
4(B) Pneumonia-Influenza Deaths, all ages	392
4(C) Total Deaths under 1 Year of Age	787
4(D) Total Deaths, Persons 65 years and over	6,538

oratory, Stockholm, indicates that on June 6 an 85-year-old woman, who lives with her daughter, went to a hospital out-patient department for routine follow-up of a chronic medical problem. The daughter called in advance informing clinic personnel that the elderly woman had developed a rash. On arrival at the out-patient clinic, the mother spent some time in the general waiting room and was then referred to the dermatology clinic, and again spent some time in the dermatology waiting room. When seen by physicians, a clinical diagnosis of smallpox was made. In all, she had spent some four hours at the hospital and presumably exposed some 450 persons in the two crowded waiting rooms. It was noted that on May 28 she had developed a low-grade fever with dizziness, followed by the appearance of rash on June 2.

She and her 54-year-old daughter share an apartment in a boarding house for women housing some 100 occupants. The daughter works as a mortician and on April 26 had prepared the body of smallpox Case 2 of the outbreak for cremation. She had been placed under surveillance as a contact and 16 days after her exposure to the dead woman, having had no symptoms or signs of illness, she was released from quarantine. She denied any evidence of illness since being released from surveillance. The total elapsed time from her contact with the body of Case 2 and the onset of disease in her mother was 32 days, consistent with two incubation periods of smallpox. Except for the daughter's exposure, no epidemiologic evidence could be found linking the mother with a source of smallpox. Neither the mother nor daughter had been vaccinated since childhood. The daughter demonstrated a high HAI titer on June 6, suggesting a recent infection, and in the absence of an alternative explanation, it may be presumed that the daughter developed a sub-clinical infection and transmitted virus to her mother. Two very unusual aspects of smallpox transmission seem apparent. The daughter, unvaccinated since childhood and exposed to hemorrhagic smallpox, developed an infection so mild as to produce no symptoms, yet developed serologic evidence of infection. Despite the presumed absence of any rash or systemic manifestations of disease, she was apparently able to transmit the illness to her mother.

The inadvertent exposure of the mother during her eruptive stage to some 450 persons at the hospital, as well as possible contacts in the boarding house, establishes an additional large group of contacts in which cases may yet occur.

An epidemic curve for the outbreak to date is presented showing the chronologic relationship of the generations of transmission. Using the median date in the span of onset dates for each generation, it is apparent that the median incubation periods for all generations are strikingly similar.