

Morbidity and Mortality

Weekly
Report



U. S. Department of
HEALTH, EDUCATION, AND WELFARE

Public Health Service

NATIONAL OFFICE OF VITAL STATISTICS

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Provisional Information on Selected Notifiable Diseases in the United States for Week Ended October 10, 1953

The number of reported cases of scarlet fever and streptococcal sore throat was 1,170 for the current week. This shows little change in the incidence over the previous week when 1,140 cases were reported. However, for the past 2 months the incidence has been on the increase. Since the first of August, which is considered the beginning of the current "disease year," a total of 9,627 cases has been reported as compared with 8,486 for the corresponding period of last year. The cumulative total for the calendar year was 109,234 as compared with 84,351 for the same period of 1952.

For the current week the incidence of poliomyelitis decreased 12 percent—from 1,459 cases last week to 1,290 for the current week. The cumulative total for the "disease year," which began about April 1, was 27,702 as compared with 43,883 for last year. For the calendar year the cumulative total was 29,216 as compared with 45,076 for the corresponding period of 1952.

The number of deaths from poliomyelitis for the current week was 12. They were distributed as follows: New York City, 2; Indiana, 1; Minnesota, 3; Florida, 1; Arkansas, 2; Washington, 1; and California, 2.

EPIDEMIOLOGICAL REPORTS

Encephalomyelitis in horses

Dr. L. A. Rosner, Veterinarian, Missouri Department of Public Health and Welfare, reports 427 cases of encephalomyelitis in horses for September 1953. So far no human cases have been reported.

Shigellosis

Dr. T. R. Hood, Executive Secretary, Kansas State Board of Health, reports an outbreak of shigellosis in a private college with an enrollment of 400 students. Of 250 who ate in the school cafeteria, approximately 190 became ill. More than 40 percent of those exposed developed fever, cramps, headache, and diarrhea over a 48-hour period. About 30 persons, some of whom did not eat in the cafeteria, became ill from 2 to 10 days later. The food that appeared to have spread the infection was scalloped potatoes which were served at two meals (lunch and supper) 2 days before onset of the mass illness. The scalloped potatoes were kept warm in the oven between lunch and supper. Stools from about 30 patients sampled at random revealed *Shigella boydii* VI. No samples of scalloped potatoes were available for bacteriological examination. Operation of the cafeteria appeared satisfactory. A further study of the outbreak is continuing.

Dr. W. R. Giedt, Washington State Department of Health, reports an outbreak of 105 cases of shigellosis in a school. The school is unusually clean and is well organized. Cases of dysentery in the students appeared in 3 different halls and probably was spread by person to person contact. *Shigella flexneri* II was found in stool cultures of 15 patients. Isolation measures and therapy were immediately instituted. The school was closed to admissions and visitors, and vacations were canceled. The outbreak seems to be under control. Stool cultures are now taken routinely on all new admissions.

Salmonellosis

Dr. A. C. Hollister, Jr., California Department of Public Health, reports an outbreak of salmonellosis among 84 persons who ate in a restaurant. Of these, 55 became ill from 5 to 52 hours after eating roast turkey. Variable nausea and vomiting preceding acute, severe, prostrating febrile episodes with abdominal cramps and diarrhea were the predominating symptoms. Headache and backache frequently accompanied the symptoms. Two turkeys were roasted and were allowed to cool before being placed in a refrigerator. The following day they were sliced on the same block on which they had been eviscerated and this block had been only superficially cleaned. An investigation revealed a large crack in the block which was filled with an accumulation of dirt and food particles. No food was available for laboratory examination but specimens from 16 patients were positive for 9-6 revealed *Salmonella newport* and 3 *S. derby*.

Dr. Hollister reports an outbreak of salmonellosis in a private family. A family of 4 visited a family of 5 and a snack meal was quickly prepared and eaten. The meal consisted of hamburger, tomatoes, milk, and ice cream. All 9 persons became ill from 8 to 20 hours later. Raw cream or ice cream was suspected to be the vehicle of infection. Laboratory examination of the cream strainer and washings from the ice cream freezer revealed *Salmonella typhimurium*. The same organism was found in specimens from all patients.

Gastro-enteritis

Dr. T. H. Hood reports an outbreak of gastro-enteritis affecting 250 persons among a group of 300 who attended a public dinner in Kansas. Violent nausea and vomiting with some diarrhea occurred 4 to 6 hours after ingestion of the meal. There was no fever and recovery was rapid. None of the food served was available for laboratory examination. Several stool specimens demonstrated no pathogenic organisms. Epidemiological study revealed that potato salad was probably the vehicle of infection. All those who had eaten the salad were ill while most of those who remained well ate no salad. The potatoes for the salad were cooked 30 hours before the meal, cut up, cooled, and refrigerated. They were mixed about 4 hours before the meal with a salad dressing and refrigerated until served. None of the food handlers had been ill recently or had had any skin lesions.

Dr. Roy F. Feemster, Massachusetts Department of Public Health, reports an outbreak of gastro-enteritis among members of a club. About 40 cases occurred following a meal which consisted of roast turkey with dressing, potato salad, apple salad, and chocolate eclairs. Bacteriological examination of the potato salad and the eclairs showed *Staphylococcus aureus*.

Dr. A. C. Hollister reports an outbreak of gastro-enteritis following a wedding reception. Of approximately 150 persons who attended, 6 became ill 3½ to 5 hours after ingestion of the food. A potato and macaroni salad was suspected as the vehicle of infection. No refrigeration was used in connection with this food from the beginning of preparation to the time of serving, about 22 hours. Hemolytic staphylococcus (coagulase positive) was found in the salad.

COMMUNICABLE DISEASE CENTER
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ATLANTA 23, GEORGIA

Weekly Morbidity Report

Table 1. COMPARATIVE DATA FOR CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

(Numbers after diseases are category numbers of the Sixth Revision of the International Lists, 1948)

DISEASE	TOTAL FOR WEEK ENDED		5-year median 1948-52	Approximate seasonal low week ended	CUMULATIVE TOTAL SINCE SEASONAL LOW WEEK		5-year median 1947-48 through 1951-52	CUMULATIVE TOTAL FOR CALENDAR YEAR		5-year median 1948-52
	Oct. 10, 1953	Oct. 11, 1952			1952-53	1951-52		1953	1952	
Anthrax-----062	1 ¹	1	1	(2)	(2)	(2)	(2)	24	26	41
Botulism-----049.1	-	-	---	(2)	(2)	(2)	(2)	8	16	---
Brucellosis (undulant fever)-----044	27	58	---	(2)	(2)	(2)	(2)	1,422	1,707	---
Diphtheria-----055	67	90	155	July 1	573	741	1,294	1,605	2,122	4,303
Encephalitis, acute infectious---082	30	55	18	(2)	(2)	(2)	(2)	895	1,653	736
Hepatitis, infectious, and serum-----092, W998.5 pt.	681	359	---	(2)	(2)	(2)	(2)	25,121	12,289	---
Malaria-----110-117	38	130	---	(2)	(2)	(2)	(2)	1,239	7,094	---
Measles-----085	826	681	683	Sept. 1	4,560	3,806	3,806	415,238	645,034	555,310
Meningococcal infections-----057	71	60	46	Sept. 1	343	334	275	4,108	3,843	2,956
Polomyelitis, acute-----080	1,290	2,870	1,585	Apr. 1	² 27,702	43,883	22,148	³ 29,216	45,076	23,341
Rabies in man-----094	-	-	---	(2)	(2)	(2)	(2)	10	13	---
Rocky Mountain spotted fever-----104A	5	3	4	(2)	(2)	(2)	(2)	277	300	431
Scarlet fever and streptococcal sore throat-----050, 051	1,170	1,098	722	Aug. 1	9,627	8,486	3,574	109,234	84,351	59,195
Smallpox-----084	-	-	-	(2)	(2)	(2)	(2)	16	14	27
Trichiniasis-----128	3	2	---	(2)	(2)	(2)	(2)	314	295	---
Tularemia-----059	9	18	12	(2)	(2)	(2)	(2)	432	516	739
Typhoid fever-----040	66	42	65	Apr. 1	1,563	1,616	1,616	1,846	1,997	2,039
Typhus fever, endemic-----101	4	2	---	Apr. 1	166	112	---	204	139	---
Whooping cough-----056	809	591	832	Oct. 1	1,658	1,261	1,683	28,028	37,012	53,885
Rabies in animals-----	107	101	---	(2)	(2)	(2)	(2)	5,737	6,180	---

¹Reported in Pennsylvania.²Not computed.³Addition: Alabama, week ended September 26, 1 case.

SOURCE AND NATURE OF DATA

These provisional data are based on reports from State and territorial health departments to the Public Health Service. They give the total number of cases of certain communicable diseases reported during the week usually ended the preceding

Saturday. When the diseases which rarely occur (cholera, dengue, plague, typhus fever—epidemic, and yellow fever) are reported, they will be noted under the table above.

Symbols.—1 dash [-]: no cases reported; asterisk [*]: disease stated not notifiable; parentheses, [()]: data not included in total; 3 dashes [---]: data not available.

Weekly Morbidity Report

Table 2. CASES OF SPECIFIED DISEASES WITH COMPARATIVE DATA: UNITED STATES,
EACH DIVISION AND STATE FOR WEEK ENDED OCTOBER 10, 1953

(Numbers under diseases are category numbers of the Sixth Revision of the International Lists, 1948)

AREA	DIPHTHERIA (055)		HEPATITIS, INFECTIOUS, AND SERUM (092, N998.5 pt.)		MEASLES (085)		MENINGOCOCCAL INFECTIONS (057)		POLIOMYELITIS, ACUTE (080)		SCARLET FEVER AND STREPTOCOCCAL SORE THROAT (050,051)	
	40th week		40th week		40th week		40th week		40th week		40th week	
	1953	1952	1953	1952	1953	1952	1953	1952	1953	1952	1953	1952
UNITED STATES-----	67	90	681	359	826	681	71	60	1,290	2,870	1,170	1,098
NEW ENGLAND-----	1	1	25	60	33	17	-	9	89	74	57	54
Maine-----	-	-	8	2	21	5	-	3	20	7	7	2
New Hampshire-----	-	-	-	-	-	-	-	-	-	3	1	-
Vermont-----	-	-	-	-	2	3	-	-	7	3	4	1
Massachusetts-----	1	1	16	55	5	8	-	3	36	33	23	31
Rhode Island-----	-	-	1	-	-	-	-	-	14	10	-	4
Connecticut-----	-	-	-	3	5	1	-	3	12	18	22	16
MIDDLE ATLANTIC-----	2	4	101	50	112	83	9	2	252	257	64	98
New York-----	-	-	82	38	58	17	3	1	131	139	38	47
New Jersey-----	2	4	2	-	9	10	1	-	45	36	10	12
Pennsylvania-----	-	-	17	12	45	56	5	1	76	82	16	39
EAST NORTH CENTRAL-----	6	8	70	26	140	140	21	12	324	981	140	135
Ohio-----	1	-	32	5	16	23	6	1	126	190	46	23
Indiana-----	3	1	13	4	20	1	8	-	15	155	14	12
Illinois-----	1	1	9	12	45	13	3	7	48	280	30	26
Michigan-----	1	6	13	2	33	30	3	3	89	252	35	53
Wisconsin-----	-	-	3	3	26	73	1	1	46	104	15	21
WEST NORTH CENTRAL-----	-	2	61	24	26	69	8	1	144	803	51	17
Minnesota-----	-	1	21	8	2	18	-	1	74	302	29	5
Iowa-----	-	1	22	4	13	7	2	-	21	158	-	-
Missouri-----	-	-	2	3	-	15	-	-	18	75	6	8
North Dakota-----	-	-	2	3	7	5	1	-	6	9	7	-
South Dakota-----	-	-	11	-	-	17	-	-	4	79	2	1
Nebraska-----	-	-	2	5	-	2	-	-	6	99	1	-
Kansas-----	-	-	1	1	4	5	5	-	15	81	6	3
SOUTH ATLANTIC-----	32	33	179	93	59	44	13	12	131	175	163	193
Delaware-----	-	-	-	-	2	-	-	-	1	4	1	2
Maryland-----	-	-	11	7	8	3	4	-	26	10	9	11
District of Columbia-----	-	-	1	-	-	1	-	-	1	4	7	-
Virginia-----	-	9	52	25	6	17	2	1	15	34	81	108
West Virginia-----	-	1	11	8	7	11	2	1	19	18	8	9
North Carolina-----	5	5	94	27	6	4	1	2	10	34	28	41
South Carolina-----	10	5	-	1	1	4	-	-	5	10	2	4
Georgia-----	7	13	6	15	10	2	2	4	8	31	17	13
Florida-----	10	-	4	10	19	2	2	4	46	32	10	5
EAST SOUTH CENTRAL-----	24	31	81	49	29	17	2	4	28	107	57	35
Kentucky-----	5	1	16	4	1	4	2	3	7	60	10	11
Tennessee-----	4	1	11	11	22	3	-	-	11	22	30	15
Alabama-----	14	29	12	22	3	5	-	-	8	6	10	6
Mississippi-----	1	-	42	12	3	5	-	-	2	19	7	3
WEST SOUTH CENTRAL-----	2	9	27	11	121	53	10	9	62	110	503	348
Arkansas-----	1	2	2	1	1	8	-	2	9	15	13	11
Louisiana-----	-	1	-	-	2	2	2	2	19	13	-	2
Oklahoma-----	-	-	1	2	3	2	1	1	12	39	9	11
Texas-----	1	6	24	8	115	41	7	4	22	43	481	324
MOUNTAIN-----	-	2	22	6	81	86	-	3	42	141	30	133
Montana-----	-	-	-	-	12	45	-	-	12	17	5	7
Idaho-----	-	-	11	-	4	3	-	1	3	10	1	3
Wyoming-----	-	-	-	-	-	-	-	1	4	11	8	-
Colorado-----	-	1	-	-	-	-	-	-	4	46	2	11
New Mexico-----	-	1	-	-	6	2	-	1	2	14	6	3
Arizona-----	-	-	-	2	-	9	-	-	13	26	4	107
Utah-----	-	-	3	1	48	3	-	-	1	13	4	1
Nevada-----	-	-	-	-	-	1	-	-	3	4	-	1
PACIFIC-----	-	-	115	40	225	172	8	8	218	222	105	85
Washington-----	-	-	21	3	48	38	1	-	20	50	20	12
Oregon-----	-	-	17	4	41	25	-	1	12	34	11	10
California-----	-	-	77	33	136	109	7	7	186	138	74	63
Alaska-----	(-)	(-)	(-)	(-)	(47)	(4)	(-)	(-)	(-)	(7)	(-)	(-)
Hawaii-----	(-)	(-)	(2)	(1)	(1)	(4)	(-)	(1)	(-)	(2)	(4)	(5)
Puerto Rico-----	(2)	(5)	(14)	(-)	(43)	(35)	(-)	(-)	(-)	(4)	(-)	(-)

Weekly Morbidity Report

Table 3. CASES OF SPECIFIED DISEASES: SELECTED CITIES FOR WEEK ENDED
OCTOBER 10, 1953

(Numbers after diseases are category numbers of the Sixth Revision of the International Lists, 1948)

AREA	Brucellosis (undulant fever) (044)	Diphtheria (055)	Encephalitis, acute infectious (082)	Hepatitis, infectious, and serum (092, N998.5 pt.)	Measles (085)	Meningococcal infections (057)	Poliomyelitis, acute (080)	Rocky Mountain spotted fever (104A)	Scarlet fever and streptococcal sore throat (050,051)	Trichiniasis (128)	Tularemia (059)	Typhoid fever (040)	Typhus fever, endemic (101)	Whooping cough (056)	Rabies in animals
NEW ENGLAND															
Boston-----	-	-	-	7	1	2	8	-	5	-	-	-	-	5	-
Bridgeport-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cambridge-----	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
Fall River-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hartford-----	1	-	-	-	-	-	2	-	5	-	-	1	-	4	-
Lowell-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lynn-----	-	-	-	-	-	-	-	-	1	-	-	-	-	5	-
New Bedford-----	-	-	-	-	-	-	1	-	1	-	-	-	-	-	-
New Haven-----	-	-	-	-	-	-	2	-	2	-	-	-	-	-	-
Portland, Me.-----	-	-	-	-	-	-	1	-	1	-	-	-	-	2	-
Providence-----	-	-	-	1	-	-	7	-	2	-	-	-	-	2	-
Somerville-----	-	-	-	-	-	-	2	-	1	-	-	-	-	1	-
Springfield, Mass.-----	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
Waterbury-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Worcester-----	-	-	-	2	-	-	2	-	-	-	-	-	-	6	-
MIDDLE ATLANTIC															
Albany-----	-	-	-	2	-	-	3	-	1	-	-	-	-	9	-
Buffalo-----	-	-	-	1	5	-	10	-	-	-	-	-	-	8	-
Camden-----	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
Elizabeth-----	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-
Erie-----	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
Jersey City-----	-	-	-	-	3	-	4	-	1	-	-	-	-	1	-
Newark, N. J.-----	-	-	-	1	3	-	2	-	-	-	-	-	-	14	-
New York City-----	-	-	14	12	40	1	27	-	11	2	-	1	1	68	-
Paterson-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Philadelphia-----	-	-	-	7	1	1	4	-	5	-	-	-	-	18	-
Pittsburgh-----	-	-	-	2	7	-	26	-	1	-	-	2	-	3	-
Reading-----	-	-	-	-	1	-	-	-	-	-	-	-	-	2	-
Rochester, N. Y.-----	-	-	-	2	1	1	7	-	-	-	-	-	-	1	-
Schenectady-----	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
Syracuse-----	-	-	-	-	-	-	2	-	3	-	-	-	-	-	-
Trenton-----	-	1	-	-	-	-	2	-	-	-	-	-	-	11	-
Utica-----	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-
Yonkers-----	-	-	-	-	-	-	1	-	-	-	-	-	-	2	-
EAST NORTH CENTRAL															
Akron-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Canton-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chicago-----	-	-	-	2	35	4	15	-	21	-	-	1	-	2	-
Cincinnati-----	-	-	-	-	3	1	6	-	2	-	-	-	-	-	-
Cleveland-----	-	-	-	-	2	2	15	-	2	-	-	-	-	7	-
Columbus-----	-	-	-	4	-	-	10	-	7	-	-	-	-	27	-
Dayton-----	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-
Detroit-----	-	1	1	-	8	2	24	-	10	-	-	-	-	35	-
Evansville-----	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Flint-----	-	-	-	2	1	-	-	-	1	-	-	-	-	-	-
Fort Wayne-----	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-
Grand Rapids-----	-	-	-	-	-	-	2	-	2	-	-	-	-	2	-
Indianapolis-----	-	1	1	4	8	1	7	-	8	-	-	-	-	10	-
Milwaukee-----	-	-	-	-	11	1	7	-	-	-	-	-	-	19	-
Peoria-----	-	-	-	-	-	-	6	-	-	-	-	-	-	-	-
South Bend-----	-	-	-	-	2	-	3	-	-	-	-	-	-	-	-
Toledo-----	-	-	-	1	1	-	10	-	4	-	-	-	-	3	-
Youngstown-----	-	-	-	-	-	-	4	-	-	-	-	-	-	3	-
WEST NORTH CENTRAL															
Des Moines-----	-	-	-	-	-	-	2	-	1	-	-	-	-	10	-
Duluth-----	-	-	-	-	-	-	6	-	1	-	-	-	-	-	-
Kansas City, Kans.-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Kansas City, Mo.-----	-	-	-	1	-	-	4	-	2	-	-	-	-	1	-
Minneapolis-----	-	-	-	5	1	-	11	-	21	-	-	-	-	-	-
Omaha-----	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
St. Louis-----	-	-	-	-	-	-	6	-	-	-	-	-	-	4	-
St. Paul-----	-	-	-	8	1	-	23	-	3	-	-	-	-	-	-
Wichita-----	-	-	-	-	1	-	2	-	-	-	-	-	-	-	-

Anthrax: Philadelphia, Pa. 1 case.

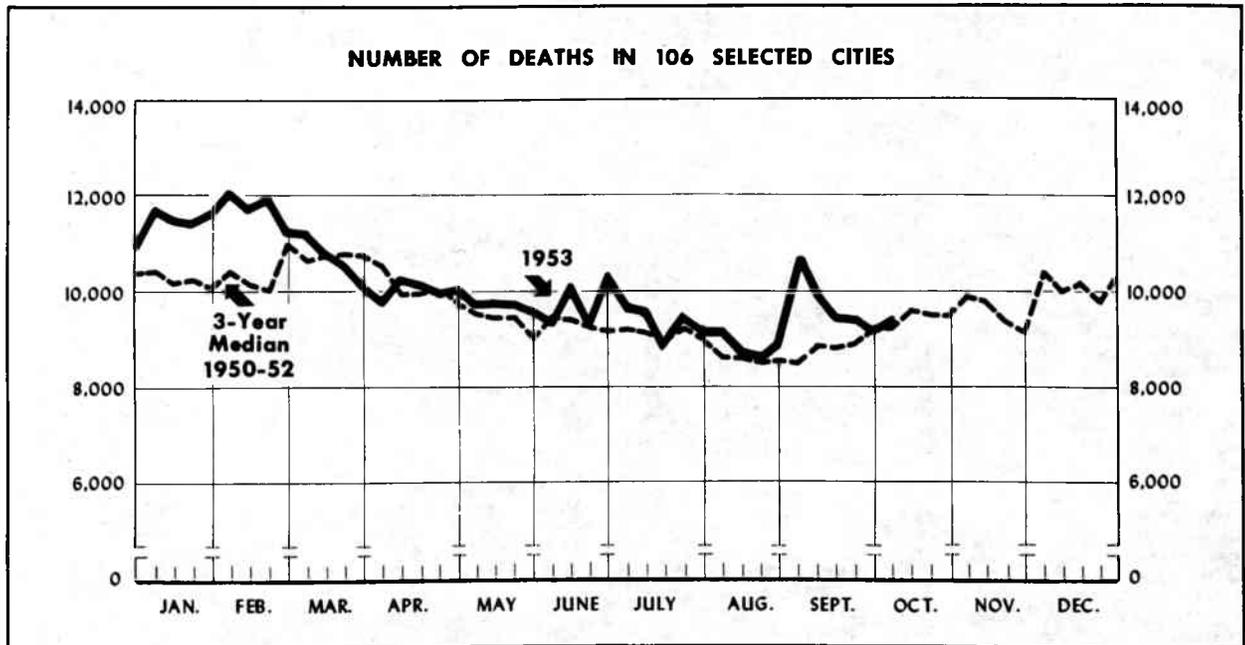
Weekly Morbidity Report

Table 3. CASES OF SPECIFIED DISEASES: SELECTED CITIES FOR WEEK ENDED OCTOBER 10, 1953—Continued

(Numbers after diseases are category numbers of the Sixth Revision of the International Lists, 1948)

AREA	Brucellosis (undulant fever) (044)	Diphtheria (055)	Encephalitis, acute infectious (082)	Hepatitis, infectious, and serum (082, N999.5 pt.)	Measles (085)	Meningococcal infections (057)	Poliomyelitis, acute (080)	Rocky Mountain spotted fever (104A)	Scarlet fever and streptococcal sore throat (050, 051)	Trichiniasis (128)	Tularemia (059)	Typhoid fever (040)	Typhus fever, endemic (101)	Whooping cough (056)	Rabies in animals
SOUTH ATLANTIC															
Atlanta-----							4		2				1	1	
Baltimore-----				5	6	1	1		3					4	
Charleston, S. C.-----		1					1								
Charleston, W. Va.-----							1								
Charlotte-----					1				1						
Miami-----							2								
Norfolk-----							1								
Richmond-----				2			2							1	
Savannah-----					6		1		1						
Tampa-----				1	1		6		2						
Washington, D. C.-----				1			1		7					3	
Wilmington, Del.-----					1										
EAST SOUTH CENTRAL															
Birmingham-----		2			1		6		1			1	1		1
Chattanooga-----															
Knoxville-----		2			1										
Louisville-----				3	1		1							1	
Memphis-----				1	1		2								
Mobile-----									1						
Montgomery-----		4			1		1		3						
Nashville-----	1														
WEST SOUTH CENTRAL															
Dallas-----						2	2								
El Paso-----					5				3						
Fort Worth-----							1		2						
Galveston-----		2				1									
Houston-----				2			1		5						6
Little Rock-----					1										
New Orleans-----		1		6	2	3	3					2		2	
Oklahoma City-----									2					1	
San Antonio-----					1		1							1	1
Shreveport-----															
Tulsa-----							1								
MOUNTAIN															
Albuquerque-----									1						
Boise City-----					1										
Colorado Springs-----															
Denver-----							2								
Ogden-----				1			2		2						
Phoenix-----															
Pueblo-----															
Salt Lake City-----					20		1							1	
Tucson-----															
PACIFIC															
Long Beach-----				1	2		6								
Los Angeles-----				11	3	1	27		4					4	
Oakland-----			1	6	1		6		1						
Portland, Oreg.-----							2		2						
Sacramento-----					2										
San Diego-----				2	19		11		3					2	
San Francisco-----					23		4		3						
Seattle-----					5		4		1						
Spokane-----				3	1		5		1						
Tacoma-----				1	4				1						
Honolulu-----				1					1						

Provisional Statistics for Deaths in Selected Cities for
Week Ended October 10, 1953



The chart shows the number of deaths reported for 106 major cities of the United States by week for the current year, and, for comparison, the median of the number of deaths reported for the corresponding weeks of the three previous calendar years. (The median is the central one of the three values arranged in order of magnitude.) If a report is not received from a city in time to be included in the total for the current week, an estimate is made to maintain comparability for graphic presentation.

The figures reported represent the number of death certificates received in the vital statistics offices during the week indicated, for deaths occurring in that city. Figures compiled in this way, by week of receipt, usually approximate closely the number of deaths occurring during the week. However, differences are to be expected because of variations in the interval

between death and receipt of the certificate.

While week-to-week changes in the total number of deaths reported for all major cities generally represent a change in mortality conditions, this may not be true for variations in weekly figures for each city. For example, in a city where 50 deaths are the weekly average, the number of deaths occurring in a week may be expected to vary by chance alone from 36 to 64 ($d \pm 2\sqrt{d}$, where d represents the average number of deaths per week).

The number of deaths in cities of the same size may also differ because of variations in the age, race, and sex composition of their populations, and because some cities are hospital centers serving the surrounding areas. Changes from year to year in the number of deaths may be due in part to population increases or decreases.

Table 4. DEATHS IN SELECTED CITIES BY GEOGRAPHIC DIVISION

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

GEOGRAPHIC DIVISION	40th week ended Oct. 10, 1953	39th week ended Oct. 5, 1953	40th week median 1950-52	Percentage difference between current week and median	CUMULATIVE NUMBER FOR FIRST 40 WEEKS		
					1953	1952	Percentage difference
TOTAL: 106 REPORTING CITIES-----	9,131	8,966	8,945	+2.1	395,071	383,031	+3.1
New England----- (13 cities)	612	594	571	+7.2	25,477	25,154	+1.3
Middle Atlantic----- (16 cities)	2,853	2,621	2,742	+4.0	117,054	114,258	+2.4
East North Central----- (17 cities)	1,938	1,877	1,881	+3.0	84,185	80,893	+4.1
West North Central----- (9 cities)	673	733	653	+3.1	30,799	29,065	+6.0
South Atlantic----- (9 cities)	755	679	683	+10.5	30,972	30,676	+1.0
East South Central----- (7 cities)	417	396	404	+3.2	17,811	16,920	+5.3
West South Central----- (13 cities)	619	745	672	-7.9	30,806	29,248	+5.3
Mountain----- (7 cities)	197	202	202	-2.5	9,482	8,970	+5.7
Pacific----- (12 cities)	1,067	1,119	966	+10.5	48,485	47,847	+1.3

Weekly Mortality Report

Table 5. DEATHS IN SELECTED CITIES FOR WEEK ENDED
OCTOBER 10, 1953

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

CITY	40th week ended Oct. 10, 1953	39th week ended Oct. 3, 1953	CUMULATIVE NUMBER FOR FIRST 40 WEEKS		CITY	40th week ended Oct. 10, 1953	39th week ended Oct. 3, 1953	CUMULATIVE NUMBER FOR FIRST 40 WEEKS	
			1953	1952				1953	1952
NEW ENGLAND					WEST NORTH CENTRAL—Con.				
Boston-----	229	222	8,893	8,759	St. Paul-----	63	61	2,522	2,397
Bridgeport-----	32	36	1,342	1,366	Wichita-----	38	45	1,598	1,579
Cambridge-----	21	32	1,108	1,158	SOUTH ATLANTIC				
Fall River-----	20	20	1,101	1,058	Atlanta-----	108	94	4,142	3,949
Hartford-----	35	45	1,813	1,763	Baltimore-----	192	204	9,009	9,284
Lowell-----	(20)	---	---	(984)	Charlotte-----	39	14	1,136	1,121
Lynn-----	22	25	873	848	Miami-----	57	42	2,372	2,144
New Bedford-----	24	19	917	912	Norfolk-----	39	27	1,278	1,242
New Haven-----	38	39	1,715	1,695	Richmond-----	73	54	2,560	2,655
Providence-----	68	50	2,378	2,465	Tampa-----	48	49	2,100	2,139
Somerville-----	15	12	607	632	Washington, D. C.-----	175	165	7,057	6,878
Springfield, Mass.-----	40	31	1,551	1,485	Wilmington, Del.-----	24	30	1,318	1,264
Waterbury-----	19	30	1,037	941	EAST SOUTH CENTRAL				
Worcester-----	49	33	2,142	2,072	Birmingham-----	65	74	2,928	2,757
MIDDLE ATLANTIC					Birmingham-----	36	22	1,812	1,773
Albany-----	53	46	1,807	1,642	Chattanooga-----	34	23	1,307	1,286
Buffalo-----	142	137	5,692	5,393	Knoxville-----	93	95	4,188	3,934
Camden-----	23	43	1,462	1,422	Louisville-----	104	105	4,258	3,789
Elizabeth-----	16	14	1,055	1,170	Memphis-----	33	25	1,254	1,242
Erle-----	22	38	1,357	1,296	Montgomery-----	(23)	(27)	(1,091)	(1,047)
Jersey City-----	---	(51)	---	(2,841)	Nashville-----	52	52	2,064	2,139
Newark, N. J.-----	84	87	4,166	4,112	WEST SOUTH CENTRAL				
New York City-----	1,541	1,403	62,905	61,733	Austin-----	20	26	1,009	906
Paterson-----	39	35	1,535	1,468	Baton Rouge-----	14	17	631	632
Philadelphia-----	504	430	19,290	18,699	Corpus Christi-----	9	25	678	667
Pittsburgh-----	162	144	6,785	6,809	Dallas-----	85	88	3,752	3,494
Rochester, N. Y.-----	89	79	3,747	3,590	El Paso-----	29	21	1,095	1,057
Schenectady-----	16	26	930	889	Fort Worth-----	48	40	2,284	2,113
Syracuse-----	50	52	2,158	2,055	Houston-----	99	78	4,916	4,559
Trenton-----	55	35	1,844	1,736	Little Rock-----	45	50	1,715	1,794
Utica-----	30	30	1,253	1,126	New Orleans-----	101	159	6,267	5,963
Yonkers-----	27	22	1,068	1,118	Oklahoma City-----	50	73	2,150	2,048
EAST NORTH CENTRAL					San Antonio-----	60	77	3,219	2,976
Akron-----	44	45	2,289	2,178	Shreveport-----	26	42	1,566	1,503
Canton-----	29	25	1,133	1,109	Tulsa-----	33	49	1,524	1,536
Chicago-----	668	664	29,527	28,341	MOUNTAIN				
Cincinnati-----	142	101	5,849	5,544	Albuquerque-----	27	27	1,049	1,014
Cleveland-----	195	198	8,170	8,176	Colorado Springs-----	7	14	536	522
Columbus-----	100	80	4,127	3,928	Denver-----	86	85	4,298	4,005
Dayton-----	58	50	2,432	2,334	Ogden-----	13	12	491	505
Detroit-----	288	300	12,590	12,196	Phoenix-----	10	25	896	823
Evansville-----	24	26	1,295	1,355	Pueblo-----	15	11	549	491
Flint-----	35	30	1,449	1,342	Salt Lake City-----	39	28	1,663	1,610
Fort Wayne-----	36	38	1,237	1,176	Tucson-----	(4)	(3)	(200)	(187)
Grand Rapids-----	27	36	1,539	1,440	PACIFIC				
Indianapolis-----	118	104	4,451	4,358	Berkeley-----	10	20	665	738
Milwaukee-----	(95)	---	---	(4,710)	Long Beach-----	41	49	1,848	1,802
Peoria-----	27	37	1,249	1,164	Los Angeles-----	359	381	17,439	17,075
South Bend-----	28	16	936	914	Oakland-----	83	87	3,707	3,745
Toledo-----	66	83	3,683	3,464	Pasadena-----	30	49	1,356	1,264
Youngstown-----	53	44	2,129	1,874	Portland, Oreg.-----	100	88	3,932	3,774
WEST NORTH CENTRAL					Sacramento-----	40	39	1,856	1,831
Des Moines-----	48	34	1,954	1,941	San Diego-----	68	75	2,800	2,780
Duluth-----	30	29	1,081	1,024	San Francisco-----	181	139	7,406	7,483
Kansas City, Kans.-----	22	42	1,341	1,367	Seattle-----	86	108	4,530	4,373
Kansas City, Mo.-----	102	125	4,903	4,394	Spokane-----	47	57	1,652	1,639
Minneapolis-----	115	119	5,058	4,531	Tacoma-----	22	27	1,296	1,343
Omaha-----	67	64	2,604	2,481	Honolulu-----	(33)	(31)	(1,271)	(1,285)
St. Louis-----	188	214	9,738	9,351					

Symbols.—parentheses [()]: data not included in table 4; 3 dashes [---]: data not available.