



Morbidity and Mortality

U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE / PUBLIC HEALTH SERVICE HEALTH SERVICES AND MENTAL HEALTH ADMINISTRATION
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CURRENT TRENDS INFLUENZA - United States

The third influenza prevalence survey of the season was conducted on Feb. 10, 1970, and indicated that there is considerably more influenza activity than was expected. Three states reported widespread activity (i.e., outbreaks in more than half the counties in the state) and 11 states reported regional activity (outbreaks in contiguous counties, but with the total involving less than half the state's counties); 24 states reported localized outbreaks and six states had only isolated cases (Figure 1). In comparison with last year's epidemic, the outbreaks this year seem to be much more localized, even in those states reporting widespread and regional activity, with the population groups affected tending to be smaller and more scattered. A number of communities not affected last year have been affected this year. There is a suggestion that the popula-

CONTENTS

Current Trends	
Influenza - United States	49
Mumps - United States 1969 and 1968	53
International Notes	
Imported Smallpox - Federal Republic of Germany	53
Surveillance Summary	
Diphtheria - United States 1968	55

tion affected this year is somewhat older than that of last year, in that high schools have tended to have higher absentee rates than junior high or elementary schools, and schools in at least six states have had to close because of teacher rather than student absenteeism. The larger urban centers have been largely spared this year, again in contrast to last year's epidemic.

(Continued on page 50)

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

DISEASE	5th WEEK ENDED		MEDIAN 1965 - 1969	CUMULATIVE, FIRST 5 WEEKS		
	February 7, 1970	February 1, 1969		1970	1969	MEDIAN 1965 - 1969
Aseptic meningitis	35	27	27	158	116	138
Brucellosis	5	-	1	11	7	14
Diphtheria	11	3	2	31	11	12
Encephalitis, primary:						
Arthropod-borne & unspecified	41	19	19	109	98	98
Encephalitis, post-infectious	5	3	13	30	22	45
Hepatitis, serum	110	113	910	608	473	4,021
Hepatitis, infectious	1,079	868	910	5,378	3,947	4,021
Malaria	59	51	51	265	204	146
Measles (rubeola)	888	443	2,472	4,344	1,616	8,483
Meningococcal infections, total	64	74	65	310	380	354
Civilian	61	71	58	296	368	322
Military	3	3	7	14	12	21
Mumps	2,762	2,150	-	12,124	10,080	-
Poliomyelitis, total	-	-	-	-	-	-
Paralytic	-	-	-	-	-	-
Rubella (German measles)	1,243	559	-	4,711	2,141	-
Tetanus	2	1	2	6	8	8
Tularemia	1	2	2	6	9	13
Typhoid fever	6	2	6	27	22	24
Typhus, tick-borne (Rky. Mt. spotted fever)	-	-	-	-	1	4
Rabies in animals	66	64	64	247	285	352

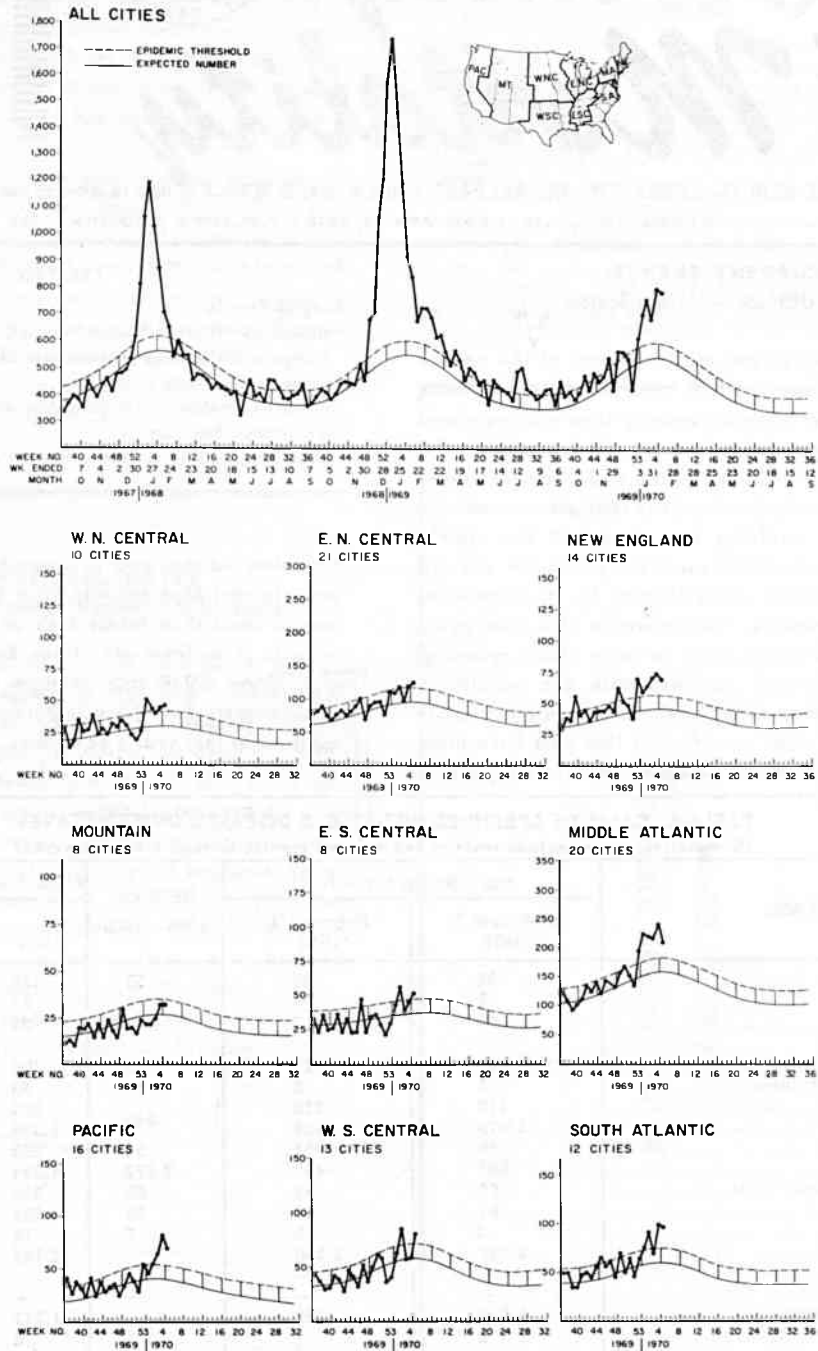
TABLE II. NOTIFIABLE DISEASES OF LOW FREQUENCY

	Cum.		Cum.
Anthrax:	-	Psittacosis: Ind.-1, Kans.-1	4
Botulism:	-	Rabies in Man:	-
Leptosy: Tex.-1	7	Rubella congenital syndrome: Calif.-1, La.-1	9
Leptospirosis: *	6	Trichinosis:	6
Plague:	-	Typhus, murine: *	-

*Delayed reports: Leptospirosis: Iowa 1
Typhus, murine: Tex. 2 (1969)

INFLUENZA - (Continued from front page)

Figure 2
PNEUMONIA-INFLUENZA DEATHS IN 122 UNITED STATES CITIES



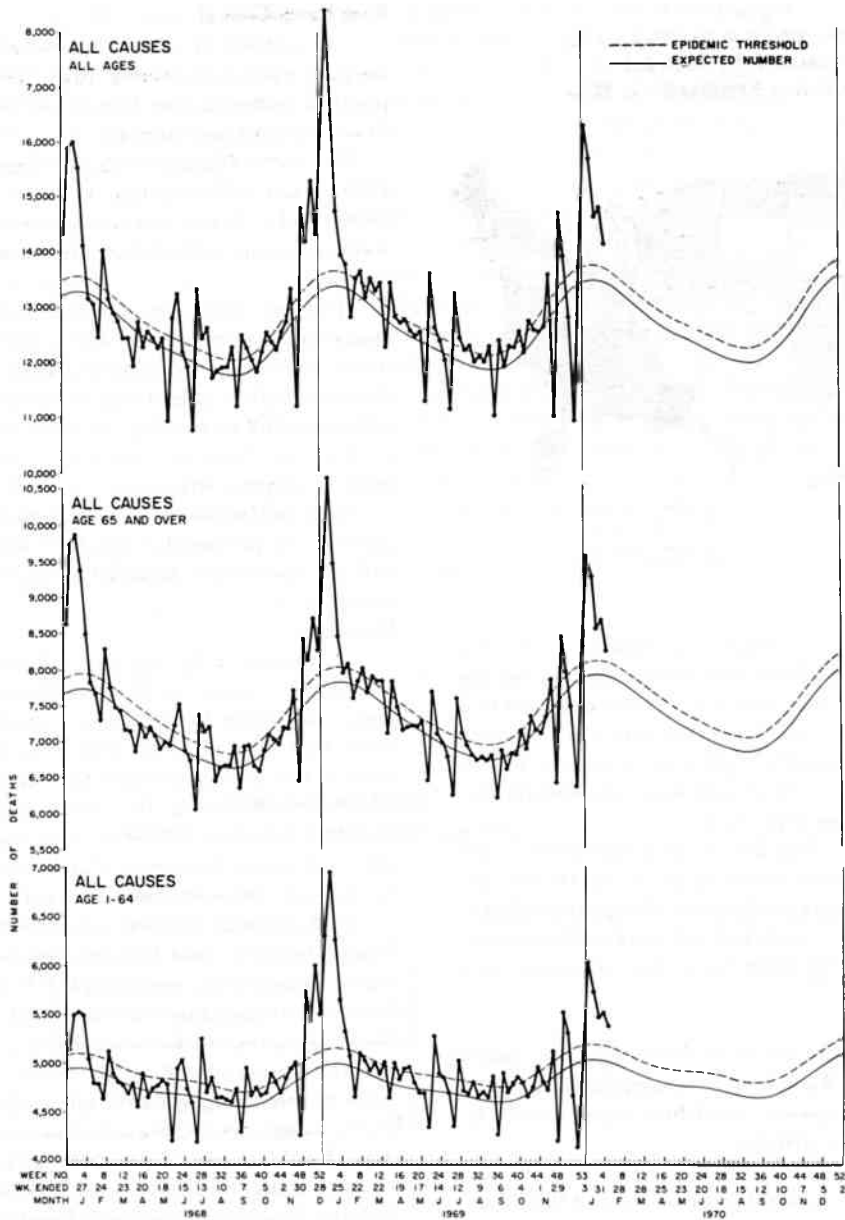
The East Coast, Southeast, and Pacific Northwest appeared to be the most heavily involved areas so far this season, with the Midwest and Mountain areas being relatively less affected, although isolated outbreaks were documented in each of the major geographic divisions.

During the past week, the following previously unreported information was obtained from state health departments.

New England

Maine first noted the appearance of influenza-like illness during Christmas and now has widespread activity. The towns of Augusta, Lewiston, and Portland have noted increased school absenteeism. Laboratory studies are in progress. In New Hampshire, the community of Claremont experienced an outbreak of upper respiratory illness with 50 percent absenteeism in the public schools. In Laconia

Figure 3
MORTALITY IN 122 UNITED STATES CITIES



and in Manchester, school absenteeism had been approximately twice the normal level because of upper respiratory illness. Laboratory studies are pending.

Middle Atlantic

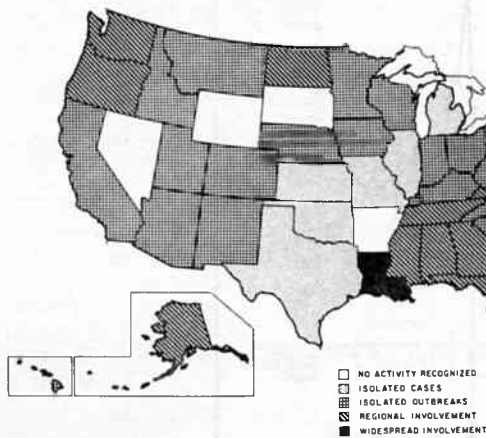
Several outbreaks of influenza and influenza-like illness have been noted, beginning in January. Counties having outbreaks included Sussex, Monmouth, Bergen, Middlesex, Morris, and Union. A2/Hong Kong-like influenza has been confirmed in the last three. School absenteeism has been elevated at one or more schools in each of these areas.

Increased influenza and influenza-like illness became apparent in Virginia the week ending January 3 and appears to have just passed its peak. Portsmouth, Chesapeake, Accomac County, and Montgomery County appeared to have been most affected, with marked increases in influenza activity in the counties of Norfolk, Loudoun, Fairfax, and Botetourt. Increased activity of lesser degree was noted in several other areas. Remarkably, there has been little excessive school absenteeism, if at all. In contrast, industrial absenteeism has been approximately twice the

(Continued on page 52)

INFLUENZA - (Continued from page 51)

Figure 1
STATES REPORTING INFLUENZA AND
INFLUENZA-LIKE ILLNESS
OCTOBER 1969 - FEBRUARY 7, 1970



usual level at one of the larger local industries. A total of four seroconversions have been documented so far. Increased levels of influenza-like illness were observed in a number of scattered counties in West Virginia, including Berkeley, Webster, Kanawha, and Ohio Counties. School absenteeism varied from normal to modestly elevated levels. Laboratory confirmation is pending.

During the week ending Feb. 3, 1970, increased levels of influenza-like activity began to be noted in Raleigh, North Carolina, with increased school absenteeism. Asheville and Winston-Salem also noted increased activity. Several isolates of A2/Hong Kong-like influenza have been documented.

East North Central

Isolated outbreaks of influenza-like illness were noted in Posey, Vermillion, Warrick, and Washington Counties in Indiana. School absenteeism varied from normal levels to 18 percent in the areas affected.

East South Central

Beginning during the third week of January influenza-like activity became apparent in five widely scattered counties with school absenteeism ranging from normal levels up to about 25 percent. Seroconversions have been documented in three of these counties for A2/Hong Kong-like influenza.

In Tennessee, a rapid increase in influenza-like illness was noted in the eastern and middle areas of the state. Confirmation laboratory studies are pending.

West North Central

An outbreak of influenza has been documented during the past week in Dunkerton, Iowa. Ten additional counties reported influenza-like illness which has not been confirmed by laboratory studies.

In North Dakota, markedly increased levels of influenza and influenza-like activity were documented in Grand Forks, Fargo, and the northern tier counties. Seven seroconversions were documented from Grand Forks.

Mountain

Isolated outbreaks of influenza-like illness recently appeared in the communities of Libby and Deer Lodge and in the counties of Missoula and Flathead. Montana school absenteeism has ranged from 10 to 25 percent. Laboratory documentation is pending. In Idaho, the two northernmost counties of Boundary and Bonner reported outbreaks of upper respiratory illness.

Two outbreaks of influenza-like illness have been documented in Greenlee County, Arizona, and increased activity was noted in Mohave County, with increased school absenteeism.

Pacific

In Oregon, influenza and influenza-like activity appeared to be increasing at a rapid rate, particularly in rural areas unaffected by last year's epidemic although urban areas were also affected. Eleven A2/Hong Kong-like isolates and 16 seroconversions have been confirmed.

Beginning during the week ending Jan. 23, 1970, sporadic cases of influenza were documented in widely scattered areas throughout California. To date, no community-wide outbreaks have occurred.

In Ketchikan, Alaska, an outbreak of influenza-like illness began in mid-January and is now almost over. School absenteeism reached 25 percent at the peak, and the overall attack rate was estimated to be about 25 percent. Laboratory studies are pending.

The pneumonia-influenza mortality curves for 122 U.S. cities remained significantly elevated above the expected levels though the trend seemed to indicate a leveling-off effect for the country as a whole with slight decreases in the previously elevated levels in New England, Middle Atlantic, South Atlantic, and Pacific areas (Figure 2). The curves for deaths from all causes, while showing much wider fluctuations, in general, mirrored the pneumonia-influenza curves (Figure 3). A steep return to baseline expected levels is suggested by the total mortality curve.

(Reported by the Respiratory Diseases Unit, Viral Diseases Branch, and the Statistical Services Activity, Epidemiology Program, NCDC.)

INTERNATIONAL NOTES

IMPORTED SMALLPOX - Federal Republic of Germany*

Following the report of an imported case of smallpox in a patient hospitalized in Meschede, North Rhine-West-

phalia, on Jan. 16, 1970 (MMWR, Vol. 19, Nos. 3 and 4) and then transferred to a smallpox hospital in Wimbern, 15

Secondary cases of smallpox, confirmed by electron microscopy and/or virus isolation, have since occurred among patients, nurses, and visitors of the Meschede hospital. No deaths have occurred. One was a 17-year-old nurse and the second an 80-year-old hospital patient. All secondary cases experienced onsets of illness between January 23 and February 2 and have subsequently been isolated at the smallpox hospital in Wimbern. Ten of 15 secondary cases were among hospital patients at the Meschede hospital, of whom three occupied individual rooms in the Infectious Diseases Unit; eight patients occupied rooms in the General Medicine Units on the two floors above. Of the remaining five cases, three were in persons who cared for the patients in the General Medical Unit noted above, one was a priest who visited daily in the Infectious Diseases Unit, and one was a 42-year-old person who had briefly visited the Infectious Diseases Unit on January 13.

All cases except the 42-year-old visitor occurred among contacts who had been isolated since the diagnosis of the index case. The visitor, who lived in Suttrop, Kreis Hildesheim, had not originally been identified as a contact.

He had entered the hall in the Infectious Diseases Unit on January 13, intending to visit one of the patients but had been stopped in the hall and informed that visitors to the unit were not permitted.

The 42-year-old visitor developed fever on January 24 and subsequently a rash, which was limited in extent. He visited his physician in the neighboring town of Warstein, Kreis Arnsberg, on January 26, and, on suspicion of smallpox, he was isolated at the smallpox hospital in Wimbern. A total of 134 possible contacts of this patient were identified and placed under strict isolation, raising the total number of quarantined contacts to approximately 200.

On recognition of the index and subsequent cases, all contacts, depending on their medical status and previous vaccination history, were promptly vaccinated or given immune globulin and/or inactivated smallpox vaccine, and isolated. Considering the measures taken and the fact that all cases, with the exception of the 42-year-old visitor, have occurred among persons already in isolation, it is believed that the outbreak is well-contained.

*Source: *World Health Organization Weekly Epidemiological Record*, 45(6):65.

CURRENT TRENDS
MUMPS - United States 1969 and 1968

In 1969, a total of 89,688 cases of mumps were reported to the NCDC and in 1968, a total of 152,209 cases were reported (Table 1). The 1968 total was close to the 1967 average for 1960-1969 of 153,300 cases. The reason for the significant reduction in 1969 (41 percent), the lowest annual total in 40 years, from 1968 is not clear. The proportion of this reduction attributable to the distribution of live attenuated mumps virus vaccine since its introduction in late 1967 is unknown; however, immunization campaigns for mumps have been limited.

In 1969, 48 states reported cases and in 1968, 49 states reported cases. Mumps was reported throughout the year but is primarily evident in winter and spring (Figure 4).

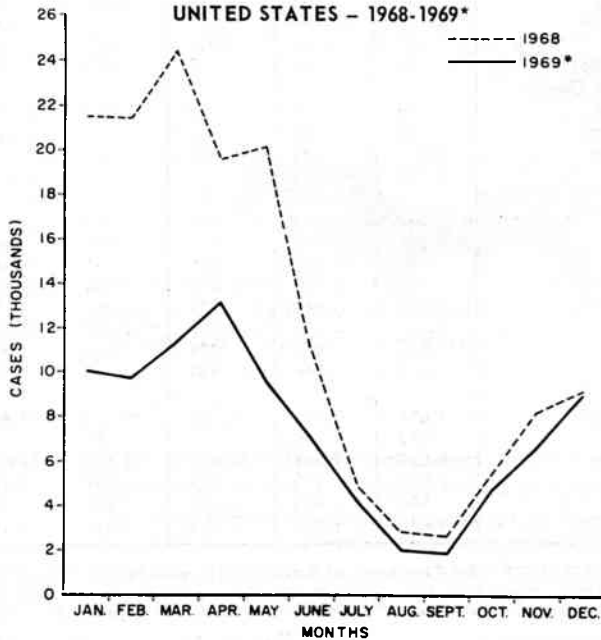
In 1968 (data are not yet available for 1969) 408 mumps-associated "encephalitis" were reported to NCDC from state and territorial health departments. Two of the 408 cases were fatal. The overall reported mumps-associated "encephalitis" rate was 2.7 cases "encephalitis" per 100 cases mumps.

Reported by Field Services Branch, and Statistical Services Activity, Epidemiology Program, NCDC.)

Literature Comment:

As has been noted in the NCDC annual encephalitis summaries, many cases reported to the states as mumps-associated encephalitis may actually represent aseptic meningitis rather than true encephalitis.

Figure 4
MUMPS CASES BY MONTH OF REPORT
UNITED STATES - 1968-1969*



*PRELIMINARY DATA - 1969

Table 1
Reported Cases of Mumps by State - 1960-1969*

	1969	1968	1967	1966	1965	1964	1963	1962	1961	1960
No. of States Reporting Cases**	48	49	43	40	38	38	38	38	38	37
United States	89,688	152,209	185,691	128,295	114,491	212,932	180,448	114,237	159,800	195,673
New England										
Maine	1,455	1,091	1,138	3,459	2,844	2,271	2,254	2,424	2,739	2,187
New Hampshire	413	333	351	379	6	411	520	1,338	450	628
Vermont	1,287	1,265	1,689	776	498	2,120	1,475	1,644	1,600	1,242
Massachusetts	4,505	9,024	11,642	7,625	6,311	12,465	12,196	10,449	12,009	14,183
Rhode Island	1,339	1,668	4,386	1,966	1,775	2,583	2,744	2,226	996	1,521
Connecticut	4,135	3,996	7,852	8,550	4,816	7,118	10,524	5,051	6,460	10,620
Middle Atlantic										
New York City	3,987	3,890	3,305	5,947	6,266	2,743	6,978	5,561	4,694	5,295
New York, Up-State	---	---	---	---	---	---	---	---	---	---
New Jersey	1,902	4,010	---	---	---	---	---	---	---	---
Pennsylvania	---	---	---	---	---	---	---	---	---	---
East North Central										
Ohio	2,157	2,633	12,673	7,407	3,611	11,973	10,459	4,698	9,620	11,634
Indiana	2,873	4,292	5,684	3,423	2,469	6,853	3,394	3,088	5,363	3,336
Illinois	2,972	5,404	10,845	6,575	4,890	14,598	8,568	4,685	11,234	10,551
Michigan	5,252	14,655	18,023	10,798	9,419	19,867	10,688	8,620	17,206	10,770
Wisconsin	8,922	17,067	30,747	21,511	16,905	27,711	38,413	19,118	15,591	35,662
West North Central										
Minnesota	740	698	375	93	73	161	64	63	339	116
Iowa	4,550	12,539	7,686	3,397	3,871	9,105	3,959	2,186	4,621	4,474
Missouri	437	1,183	574	1,256	1,221	1,388	1,218	902	1,171	1,790
North Dakota	425	1,571	2,044	1,643	2,120	1,294	2,211	3,332	2,009	3,008
South Dakota	---	1	1	26	46	31	24	136	5	---
Nebraska	299	596	384	119	238	193	79	113	120	53
Kansas	175	781	77	---	---	---	---	---	---	---
South Atlantic										
Delaware	146	311	614	242	320	447	214	746	347	507
Maryland	618	1,197	2,873	1,642	1,231	1,159	2,094	1,231	746	2,414
District of Columbia	101	255	274	214	194	106	408	249	81	363
Virginia	1,334	1,266	---	---	---	---	---	---	---	---
West Virginia	2,908	3,482	5,178	3,972	2,317	7,154	4,240	1,801	2,435	3,216
North Carolina	---	---	---	---	---	---	---	---	---	---
South Carolina	489	287	685	280	---	---	---	---	---	---
Georgia	4	10	86	---	---	---	---	---	---	---
Florida	1,681	2,252	5,513	3,276	2,030	5,715	3,603	2,798	4,007	4,390
East South Central										
Kentucky	1,436	2,830	3,762	2,309	2,459	6,351	3,126	3,516	4,062	6,270
Tennessee	2,446	4,321	---	---	---	---	---	---	---	---
Alabama	237	550	1,018	427	459	1,709	906	470	435	1,646
Mississippi	51	250	507	473	371	985	731	504	635	964
West South Central										
Arkansas	89	30	393	542	240	1,014	830	216	769	1,071
Louisiana	27	69	---	---	---	---	---	---	---	---
Oklahoma	1,043	191	396	---	---	---	---	---	---	---
Texas	8,445	11,611	---	---	---	---	---	---	---	---
Mountain										
Montana	783	631	107	---	---	---	---	---	---	---
Idaho	227	548	871	259	852	974	747	750	497	1,585
Wyoming	8	358	226	33	164	217	147	293	165	34
Colorado	910	2,789	5,310	3,604	2,199	5,463	5,683	2,731	3,106	4,249
New Mexico	1,048	983	277	282	71	507	930	347	161	1,209
Arizona	2,246	2,032	1,872	2,097	3,231	4,426	4,496	2,240	4,270	4,617
Utah	353	696	404	371	1,370	2,107	592	540	1,000	1,680
Nevada	0	318	427	54	158	380	278	107	274	820
Pacific										
Washington	4,537	7,891	12,375	10,541	9,604	21,496	14,009	7,675	14,692	14,590
Oregon	689	1,025	---	78	---	---	---	---	---	---
California	8,320	17,598	19,466	11,113	17,827	25,119	18,110	11,510	23,177	26,190
Alaska	1,028	705	394	737	1,423	712	938	145	1,994	1,132
Hawaii	659	1,026	3,187	799	592	4,006	2,598	734	720	1,656
Puerto Rico	1,062	1,031	1,049	1,082	1,193	1,007	1,227	755	266	442

*Source: 1960-1968 Reported incidence of Notifiable Diseases in U.S., Annual Supplement to MMWR.

1969 - Preliminary figures from Weekly Telegraphic Reports with revisions through January 10, 1970.

**Includes District of Columbia

SURVEILLANCE SUMMARY
DIPHTHERIA - United States 1968

A total of 260 cases of diphtheria were reported in the United States in 1968, and individual surveillance case reports were submitted to NCDC on 252 of these. Although a slight increase in incidence and mortality rates was noted in 1968 compared with recent years, the 1968 rates still were substantially below those of prior decades (Figure 5). The incidence of diphtheria continued to decrease in the northern and western states, and the rate in the South continued to rise (Figures 6 and 7). As in previous years, diphtheria was most prevalent during the autumn; 139 of 243 cases with known dates of onset occurred between August and November.

The age, race, and sex distribution of the cases and deaths in 1968 was similar to the past several years. Most cases (82 percent) occurred in persons under 15 years of age. The incidence rate for Caucasians was considerably less than that for Negroes and other racial groups (0.08 and 0.58 cases per 100,000 population, respectively), reflecting lower incidence rates in all age groups and sexes

Figure 5
DIPHTHERIA-REPORTED ANNUAL INCIDENCE AND MORTALITY RATES, AND CASE FATALITY RATIO
UNITED STATES - 1920-1968

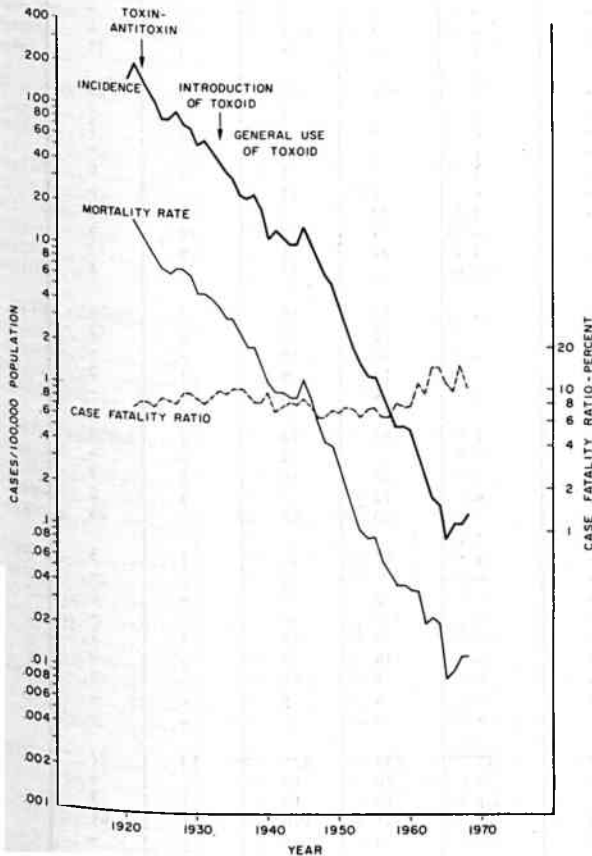


Figure 6
DIPHTHERIA ATTACK RATES BY YEAR AND REGION
UNITED STATES - 1959-1967

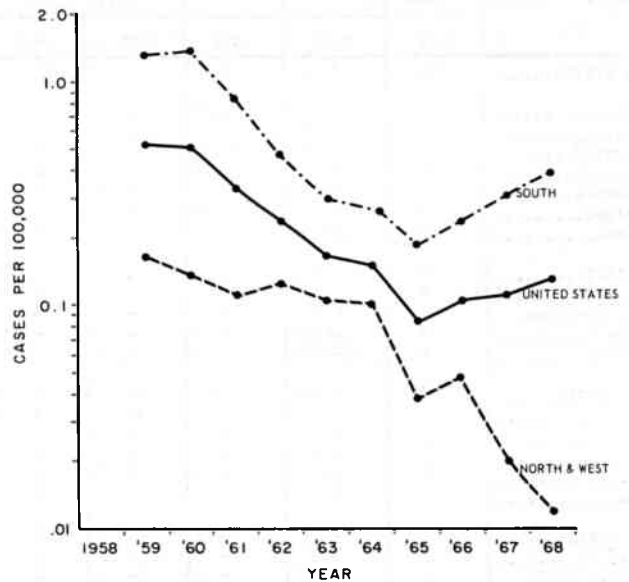
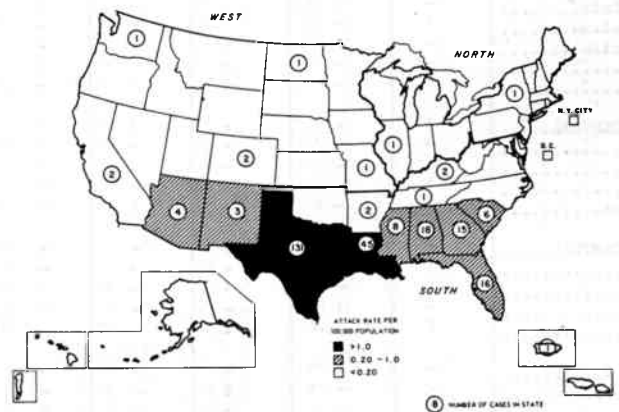


Figure 7
DIPHTHERIA - REPORTED CASES AND ATTACK RATES
PER 100,000 POPULATION, BY STATE AND REGION
UNITED STATES - 1968



for Caucasians. The percentages of cases in boys in the age groups 0-4 and 15-19 years were higher than for girls, but in all other age groups the percentages were higher for females than males. This discrepancy increased with increasing age, with 16 of 22 cases recorded in persons over 20 years of age or older in females.

(Continued on page 60)

Morbidity and Mortality Weekly Report

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED
FEBRUARY 7, 1970 AND FEBRUARY 1, 1969 (5th WEEK)

AREA	ASEPTIC MENINGITIS	BRUCELLOSIS	DIPH-THERIA	ENCEPHALITIS			HEPATITIS		MALARIA		
				Primary including unsp. cases		Post In-fectious	Serum	Infectious		1970	Cum. 1970
				1970	1969	1970	1970	1970	1969		
UNITED STATES.....	35	5	11	41	19	5	110	1,079	868	59	265
NEW ENGLAND.....	1	-	-	-	1	-	4	106	92	1	5
Maine.....	-	-	-	-	-	-	-	4	10	-	-
New Hampshire.....	-	-	-	-	-	-	-	11	1	-	-
Vermont.....	-	-	-	-	-	-	-	6	-	-	1
Massachusetts.....	1	-	-	-	1	-	-	64	49	-	-
Rhode Island.....	-	-	-	-	-	-	1	8	19	-	1
Connecticut.....	-	-	-	-	-	-	3	13	13	1	3
MIDDLE ATLANTIC.....	8	-	-	2	4	-	35	164	133	14	50
New York City.....	4	-	-	2	-	-	19	59	54	-	4
New York, Up-State...	-	-	-	-	3	-	-	4	36	2	12
New Jersey*.....	2	-	-	-	-	-	9	42	30	-	17
Pennsylvania.....	2	-	-	-	1	-	7	59	13	12	17
EAST NORTH CENTRAL.....	3	1	3	29	4	1	18	194	157	8	18
Ohio.....	-	-	-	26	2	1	3	85	82	-	4
Indiana.....	-	-	-	-	-	-	-	8	6	-	-
Illinois.....	1	-	3	1	-	-	-	19	15	1	3
Michigan.....	2	-	-	2	2	-	15	67	46	7	11
Wisconsin.....	-	1	-	-	-	-	-	15	8	-	-
WEST NORTH CENTRAL.....	1	2	-	1	-	1	4	65	40	1	13
Minnesota.....	1	1	-	-	-	-	1	7	9	-	-
Iowa*.....	-	1	-	-	-	-	-	10	11	-	2
Missouri.....	-	-	-	-	-	-	-	9	12	-	-
North Dakota.....	-	-	-	-	-	-	-	2	-	-	-
South Dakota.....	-	-	-	-	-	-	-	-	1	-	-
Nebraska.....	-	-	-	-	-	-	-	2	1	-	-
Kansas*.....	-	-	-	1	-	1	3	35	6	1	11
SOUTH ATLANTIC.....	3	1	1	4	1	-	17	106	68	15	51
Delaware.....	-	-	-	-	-	-	-	-	1	-	-
Maryland.....	1	1	-	-	-	-	2	8	13	1	7
Dist. of Columbia...	-	-	-	-	-	-	-	-	-	-	-
Virginia*.....	-	-	-	4	-	-	3	17	5	2	6
West Virginia*.....	-	-	-	-	1	-	-	7	11	-	-
North Carolina.....	1	-	-	-	-	-	2	22	7	-	13
South Carolina.....	-	-	-	-	-	-	-	6	8	2	4
Georgia.....	-	-	-	-	-	-	-	22	6	9	17
Florida.....	1	-	1	-	-	-	10	24	17	1	4
EAST SOUTH CENTRAL.....	1	-	-	2	-	-	-	77	45	1	14
Kentucky.....	-	-	-	-	-	-	-	25	13	-	12
Tennessee.....	-	-	-	1	-	-	-	36	18	-	-
Alabama*.....	1	-	-	-	-	-	-	12	6	1	2
Mississippi.....	-	-	-	1	-	-	-	4	8	-	-
WEST SOUTH CENTRAL.....	4	1	3	-	-	-	1	87	78	5	32
Arkansas.....	1	-	-	-	-	-	-	-	13	-	-
Louisiana.....	1	-	1	-	-	-	1	25	16	2	2
Oklahoma.....	-	1	-	-	-	-	-	12	2	3	5
Texas*.....	2	-	2	-	-	-	-	50	47	-	25
MOUNTAIN.....	-	-	4	-	-	-	-	47	34	1	5
Montana.....	-	-	2	-	-	-	-	-	2	-	-
Idaho.....	-	-	-	-	-	-	-	2	1	-	1
Wyoming.....	-	-	-	-	-	-	-	-	-	-	-
Colorado.....	-	-	-	-	-	-	-	7	11	1	1
New Mexico.....	-	-	-	-	-	-	-	19	1	-	-
Arizona.....	-	-	2	-	-	-	-	9	14	-	3
Utah.....	-	-	-	-	-	-	-	9	5	-	-
Nevada.....	-	-	-	-	-	-	-	1	-	-	-
PACIFIC.....	14	-	-	3	9	3	31	233	221	13	77
Washington.....	3	-	-	1	-	-	-	28	19	-	4
Oregon.....	-	-	-	-	1	-	1	15	10	1	5
California.....	11	-	-	2	8	3	28	181	190	11	61
Alaska.....	-	-	-	-	-	-	-	1	-	-	-
Hawaii.....	-	-	-	-	-	-	2	8	2	1	7
Puerto Rico.....	---	---	---	---	---	---	---	---	21	---	---
Virgin Islands.....	-	-	-	-	-	-	-	2	-	-	-

*Delayed reports: Aseptic meningitis: N.J. 1, Minn. 2 (1969)
 Brucellosis: Minn. 1 (1969)
 Diphtheria: Tex. 3 (1969)
 Hepatitis, serum: Minn. 1 (1969), Kans. 1 (1969)
 Hepatitis, infectious: N.J. delete 2 (1969), Minn. 1 (1969), Kans. W. Va. delete 6 (1969), Ala. 1
 Malaria: Iowa 1, Va. delete 5 (1969)

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED

FEBRUARY 7, 1970 AND FEBRUARY 1, 1969 (5th WEEK) - CONTINUED

AREA	MEASLES (Rubeola)			MENINGOCOCCAL INFECTIONS, TOTAL			MUMPS		POLIOMYELITIS		
	1970	Cumulative		1970	Cumulative		1970	Cum. 1970	Total 1970	Paralytic	
		1970	1969		1970	1969				1970	Cum. 1970
UNITED STATES.....	888	4,344	1,616	64	310	380	2,762	12,124	-	-	-
NEW ENGLAND.....	22	80	54	5	16	14	340	1,850	-	-	-
Maine.....	-	-	2	-	-	1	24	241	-	-	-
New Hampshire.....	-	6	1	2	3	-	18	144	-	-	-
Vermont.....	-	-	-	1	1	-	13	87	-	-	-
Massachusetts.....	20	57	8	1	5	6	113	551	-	-	-
Rhode Island.....	-	2	4	1	2	2	30	191	-	-	-
Connecticut.....	2	15	39	-	5	5	142	636	-	-	-
MIDDLE ATLANTIC.....	176	728	502	11	55	47	251	1,292	-	-	-
New York City.....	23	92	292	5	16	8	57	373	-	-	-
New York, Up-State...	-	25	38	-	10	11	4	4	-	-	-
New Jersey.....	73	380	103	3	11	15	85	440	-	-	-
Pennsylvania.....	80	231	69	3	18	13	105	475	-	-	-
EAST NORTH CENTRAL.....	192	1,170	143	12	38	55	667	2,813	-	-	-
Ohio.....	69	300	22	3	14	15	119	298	-	-	-
Indiana.....	5	31	29	1	2	5	-	187	-	-	-
Illinois.....	78	704	15	4	7	6	47	306	-	-	-
Michigan.....	20	60	13	4	14	25	151	653	-	-	-
Wisconsin.....	20	75	64	-	1	4	350	1,369	-	-	-
WEST NORTH CENTRAL.....	66	445	41	-	4	20	178	627	-	-	-
Minnesota*.....	3	4	-	-	2	5	21	39	-	-	-
Iowa.....	-	-	20	-	1	2	135	454	-	-	-
Missouri.....	-	4	-	-	1	8	2	17	-	-	-
North Dakota.....	1	14	1	-	-	-	9	66	-	-	-
South Dakota.....	31	31	-	-	-	-	1	1	-	-	-
Nebraska.....	26	386	20	-	-	2	10	50	-	-	-
Kansas.....	5	6	-	-	-	3	-	-	-	-	-
SOUTH ATLANTIC.....	110	636	322	11	68	76	244	1,218	-	-	-
Delaware.....	2	57	1	-	2	3	2	32	-	-	-
Maryland.....	23	110	1	1	5	7	35	91	-	-	-
Dist. of Columbia...	27	154	-	1	1	1	4	26	-	-	-
Virginia.....	12	111	89	-	6	13	67	221	-	-	-
West Virginia.....	6	28	23	-	1	2	55	439	-	-	-
North Carolina.....	9	37	5	2	12	10	NN	NN	-	-	-
South Carolina.....	5	13	22	-	3	9	23	87	-	-	-
Georgia.....	-	-	-	2	15	12	-	-	-	-	-
Florida.....	26	125	181	5	23	19	58	322	-	-	-
EAST SOUTH CENTRAL.....	-	65	23	3	27	16	371	999	-	-	-
Kentucky.....	-	50	6	-	10	6	238	446	-	-	-
Tennessee.....	-	4	4	2	12	9	115	501	-	-	-
Alabama.....	-	4	-	1	4	1	16	46	-	-	-
Mississippi.....	-	7	13	-	1	-	2	6	-	-	-
WEST SOUTH CENTRAL.....	226	873	410	11	46	46	298	1,202	-	-	-
Arkansas.....	-	-	2	-	2	-	12	12	-	-	-
Louisiana.....	1	7	-	4	11	18	-	1	-	-	-
Oklahoma.....	-	-	1	-	6	3	85	384	-	-	-
Texas.....	225	866	407	7	27	25	201	805	-	-	-
MOUNTAIN.....	43	188	34	-	4	15	64	462	-	-	-
Montana.....	-	8	-	-	-	-	12	94	-	-	-
Idaho.....	-	-	-	-	-	2	2	46	-	-	-
Wyoming.....	-	-	-	-	-	-	-	7	-	-	-
Colorado.....	-	4	5	-	1	1	27	133	-	-	-
New Mexico.....	14	37	9	-	-	4	6	82	-	-	-
Arizona.....	29	137	19	-	1	5	9	62	-	-	-
Utah.....	-	-	-	-	2	1	8	38	-	-	-
Nevada.....	-	2	1	-	-	2	-	-	-	-	-
PACIFIC.....	53	159	87	11	52	91	349	1,661	-	-	-
Washington.....	6	11	6	1	5	3	117	685	-	-	-
Oregon.....	-	-	24	-	3	3	51	173	-	-	-
California.....	43	136	54	10	44	82	125	616	-	-	-
Alaska.....	1	1	3	-	-	-	21	96	-	-	-
Hawaii.....	3	11	-	-	-	3	35	91	-	-	-
Puerto Rico.....	---	178	46	---	-	2	---	64	---	---	-
Virgin Islands.....	---	2	-	---	-	-	---	-	---	---	-

Delayed reports: Measles: Ind. delete 2, Kans. 8 (1969)

Mumps: Minn. 1 (1969), Kans. 7 (1969)

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
FOR WEEKS ENDED
FEBRUARY 7, 1970 AND FEBRUARY 1, 1969 (5th WEEK) - CONTINUED

AREA	RUBELLA		TETANUS		TULAREMIA		TYPHOID FEVER		TYPHUS FEVER TICK-BORNE (Rky. Mt. Spotted)		RABIES IN ANIMALS	
	1970	Cum. 1970	1970	Cum. 1970	1970	Cum. 1970	1970	Cum. 1970	1970	Cum. 1970	1970	Cum. 1970
UNITED STATES.....	1,243	4,711	2	6	1	6	6	27	-	-	66	247
NEW ENGLAND.....	30	200	1	1	-	-	1	1	-	-	2	13
Maine.....	1	21	-	-	-	-	-	-	-	-	-	-
New Hampshire.....	-	24	-	-	-	-	-	-	-	-	-	-
Vermont.....	-	5	-	-	-	-	-	-	-	-	2	13
Massachusetts.....	18	80	1	1	-	-	1	1	-	-	-	-
Rhode Island.....	-	5	-	-	-	-	-	-	-	-	-	-
Connecticut.....	11	65	-	-	-	-	-	-	-	-	-	-
MIDDLE ATLANTIC.....	80	357	-	2	-	-	-	5	-	-	1	22
New York City.....	16	60	-	-	-	-	-	1	-	-	-	21
New York, Up-State..	-	40	-	-	-	-	-	3	-	-	-	-
New Jersey.....	28	98	-	1	-	-	-	-	-	-	-	1
Pennsylvania.....	36	159	-	1	-	-	-	1	-	-	1	-
EAST NORTH CENTRAL....	240	1,071	-	1	1	2	-	2	-	-	2	9
Ohio.....	32	78	-	-	-	-	-	1	-	-	2	6
Indiana.....	-	120	-	1	1	2	-	-	-	-	-	1
Illinois.....	52	143	-	-	-	-	-	-	-	-	-	-
Michigan.....	59	376	-	-	-	-	-	1	-	-	-	2
Wisconsin.....	97	354	-	-	-	-	-	-	-	-	-	-
WEST NORTH CENTRAL....	130	474	-	-	-	1	-	-	-	-	11	34
Minnesota.....	11	28	-	-	-	-	-	-	-	-	5	7
Iowa.....	84	331	-	-	-	-	-	-	-	-	2	5
Missouri.....	2	10	-	-	-	1	-	-	-	-	1	6
North Dakota.....	11	24	-	-	-	-	-	-	-	-	-	-
South Dakota.....	-	-	-	-	-	-	-	-	-	-	-	-
Nebraska.....	15	74	-	-	-	-	-	-	-	-	-	3
Kansas.....	7	7	-	-	-	-	-	-	-	-	-	-
SOUTH ATLANTIC.....	144	550	1	1	-	1	-	7	-	-	25	77
Delaware.....	-	6	-	-	-	-	-	-	-	-	-	1
Maryland.....	3	24	-	-	-	-	-	3	-	-	1	-
Dist. of Columbia...	-	1	1	1	-	-	-	-	-	-	-	41
Virginia.....	33	102	-	-	-	-	-	-	-	-	13	9
West Virginia.....	39	207	-	-	-	-	-	-	-	-	3	-
North Carolina.....	-	-	-	-	-	-	-	-	-	-	-	-
South Carolina.....	7	13	-	-	-	-	-	-	-	-	-	19
Georgia.....	-	-	-	-	-	-	-	4	-	-	1	7
Florida.....	62	197	-	-	-	1	-	-	-	-	7	-
EAST SOUTH CENTRAL....	60	235	-	-	-	2	-	-	-	-	7	25
Kentucky.....	1	43	-	-	-	1	-	-	-	-	5	12
Tennessee.....	52	164	-	-	-	1	-	-	-	-	2	11
Alabama.....	6	22	-	-	-	-	-	-	-	-	-	2
Mississippi.....	1	6	-	-	-	-	-	-	-	-	-	-
WEST SOUTH CENTRAL....	254	728	-	1	-	-	-	-	-	-	9	40
Arkansas.....	-	-	-	-	-	-	-	-	-	-	2	6
Louisiana.....	2	2	-	1	-	-	-	-	-	-	2	12
Oklahoma.....	89	277	-	-	-	-	-	-	-	-	1	4
Texas.....	163	449	-	-	-	-	-	-	-	-	4	18
MOUNTAIN.....	43	187	-	-	-	-	-	1	-	-	1	4
Montana.....	5	31	-	-	-	-	-	-	-	-	-	-
Idaho.....	-	3	-	-	-	-	-	-	-	-	-	-
Wyoming.....	-	27	-	-	-	-	-	-	-	-	-	-
Colorado.....	5	35	-	-	-	-	-	1	-	-	-	-
New Mexico.....	8	14	-	-	-	-	-	-	-	-	1	-
Arizona.....	19	60	-	-	-	-	-	-	-	-	-	-
Utah.....	6	17	-	-	-	-	-	-	-	-	-	-
Nevada.....	-	-	-	-	-	-	-	-	-	-	-	-
PACIFIC.....	262	909	-	-	-	-	5	11	-	-	8	23
Washington.....	134	433	-	-	-	-	-	1	-	-	-	-
Oregon.....	18	99	-	-	-	-	-	-	-	-	-	-
California.....	84	294	-	-	-	-	5	10	-	-	8	23
Alaska.....	7	42	-	-	-	-	-	-	-	-	-	-
Hawaii.....	19	41	-	-	-	-	-	-	-	-	-	-
Puerto Rico.....	---	2	---	1	---	---	---	---	---	---	---	---
Virgin Islands.....	-	-	-	-	-	-	-	-	-	-	-	-

*Delayed reports: Rubella: Mich. 142

Tularemia: Ind. delete 1

Rabies in animals: Nebr. 2

Morbidity and Mortality Weekly Report

59

Week No. 5
TABLE IV. DEATHS IN 122 UNITED STATES CITIES FOR WEEK ENDED FEBRUARY 7, 1970

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

Area	All Causes		Pneumonia and Influenza All Ages	Under 1 year All Causes	Area	All Causes		Pneumonia and Influenza All Ages	Under 1 year All Causes
	All Ages	65 years and over				All Ages	65 years and over		
NEW ENGLAND:	809	517	69	26	SOUTH ATLANTIC:	1,371	734	97	57
Boston, Mass.-----	253	143	23	6	Atlanta, Ga.-----	169	82	11	6
Bridgeport, Conn.-----	49	26	6	5	Baltimore, Md.-----	311	167	17	13
Cambridge, Mass.-----	25	12	7	—	Charlotte, N. C.-----	64	39	2	2
Fall River, Mass.-----	34	25	2	2	Jacksonville, Fla.-----	101	53	6	7
Hartford, Conn.-----	57	35	2	—	Miami, Fla.-----	138	72	5	4
Lowell, Mass.-----	25	17	4	—	Norfolk, Va.-----	61	38	9	1
Lynn, Mass.-----	35	28	2	—	Richmond, Va.-----	104	48	17	4
New Bedford, Mass.-----	33	27	3	—	Savannah, Ga.-----	37	20	6	2
New Haven, Conn.-----	66	42	2	1	St. Petersburg, Fla.-----	101	82	5	1
Providence, R. I.-----	72	45	5	5	Tampa, Fla.-----	67	36	13	1
Somerville, Mass.-----	23	16	2	1	Washington, D. C.-----	180	79	5	11
Springfield, Mass.-----	47	31	3	2	Wilmington, Del.-----	38	18	1	5
Waterbury, Conn.-----	30	21	1	1	EAST SOUTH CENTRAL:	708	379	52	34
Worcester, Mass.-----	60	49	7	3	Birmingham, Ala.-----	113	54	2	8
MIDDLE ATLANTIC:	3,801	2,321	209	128	Chattanooga, Tenn.-----	67	40	7	4
Albany, N. Y.-----	67	41	1	1	Knoxville, Tenn.-----	48	37	5	1
Allentown, Pa.-----	52	27	3	2	Louisville, Ky.-----	159	86	17	6
Buffalo, N. Y.-----	162	98	9	6	Memphis, Tenn.-----	109	53	3	5
Camden, N. J.-----	43	24	6	3	Mobile, Ala.-----	51	27	7	—
Elizabeth, N. J.-----	45	24	3	1	Montgomery, Ala.-----	48	30	3	1
Erie, Pa.-----	55	39	7	3	Nashville, Tenn.-----	113	52	8	9
Jersey City, N. J.-----	77	46	5	2	WEST SOUTH CENTRAL:	1,443	766	80	53
Newark, N. J.-----	103	49	9	7	Austin, Tex.-----	36	19	5	1
New York City, N. Y.-----	1,848	1,128	102	52	Baton Rouge, La.-----	73	33	7	4
Paterson, N. J.-----	54	30	3	2	Corpus Christi, Tex.-----	35	19	2	2
Philadelphia, Pa.-----	599	373	12	26	Dallas, Tex.-----	203	98	7	8
Pittsburgh, Pa.-----	235	135	17	8	El Paso, Tex.-----	67	38	7	9
Reading, Pa.-----	51	38	4	—	Fort Worth, Tex.-----	92	59	7	3
Rochester, N. Y.-----	122	79	14	6	Houston, Tex.-----	274	127	10	—
Schenectady, N. Y.-----	24	17	2	1	Little Rock, Ark.-----	91	54	5	3
Scranton, Pa.-----	51	35	1	1	New Orleans, La.-----	187	87	6	6
Syracuse, N. Y.-----	102	65	3	6	Oklahoma City, Okla.-----	105	63	3	7
Trenton, N. J.-----	39	23	2	—	San Antonio, Tex.-----	141	80	6	7
Utica, N. Y.-----	33	24	5	—	Shreveport, La.-----	63	37	8	2
Yonkers, N. Y.-----	39	26	1	1	Tulsa, Okla.-----	76	52	7	1
EAST NORTH CENTRAL:	2,824	1,617	123	137	MOUNTAIN:	522	308	32	24
Akron, Ohio-----	64	35	—	4	Albuquerque, N. Mex.-----	52	25	5	7
Canton, Ohio-----	37	23	5	2	Colorado Springs, Colo.-----	33	20	3	1
Chicago, Ill.-----	825	448	38	35	Denver, Colo.-----	112	64	9	7
Cincinnati, Ohio-----	181	109	9	4	Ogden, Utah-----	15	10	1	2
Cleveland, Ohio-----	217	116	2	11	Phoenix, Ariz.-----	145	82	3	3
Columbus, Ohio-----	132	67	5	9	Pueblo, Colo.-----	30	17	4	—
Dayton, Ohio-----	79	43	2	2	Salt Lake City, Utah-----	60	41	—	1
Detroit, Mich.-----	384	223	12	18	Tucson, Ariz.-----	75	49	7	3
Evansville, Ind.-----	51	30	—	1	PACIFIC:	1,729	1,034	71	58
Flint, Mich.-----	49	21	3	6	Berkeley, Calif.-----	19	14	—	—
Fort Wayne, Ind.-----	58	35	8	4	Fresno, Calif.-----	41	24	2	1
Gary, Ind.-----	37	15	4	3	Glendale, Calif.-----	30	20	3	2
Grand Rapids, Mich.-----	61	42	10	5	Honolulu, Hawaii-----	60	28	2	6
Indianapolis, Ind.-----	179	110	1	11	Long Beach, Calif.-----	99	59	4	6
Madison, Wis.-----	33	21	4	3	Los Angeles, Calif.-----	527	325	18	17
Milwaukee, Wis.-----	132	87	4	6	Oakland, Calif.-----	84	35	2	2
Peoria, Ill.-----	34	18	1	3	Pasadena, Calif.-----	52	40	2	1
Rockford, Ill.-----	35	24	6	3	Portland, Oreg.-----	144	84	5	6
South Bend, Ind.-----	40	22	5	1	Sacramento, Calif.-----	62	41	1	1
Toledo, Ohio-----	117	70	3	4	San Diego, Calif.-----	86	52	2	4
Youngstown, Ohio-----	79	58	1	2	San Francisco, Calif.-----	179	100	9	3
WEST NORTH CENTRAL:	893	522	47	30	San Jose, Calif.-----	74	46	5	1
Des Moines, Iowa-----	62	37	3	3	Seattle, Wash.-----	173	99	14	7
Duluth, Minn.-----	16	10	2	1	Spokane, Wash.-----	57	39	—	1
Kansas City, Kans.-----	44	24	6	2	Tacoma, Wash.-----	42	28	2	—
Kansas City, Mo.-----	144	91	3	3	Total	14,100	8,198	780	547
Lincoln, Neb.-----	31	23	—	1	Expected Number	13,444	7,907	536	535
Minneapolis, Minn.-----	114	60	5	9	Cumulative Total (includes reported corrections for previous weeks)	75,353	44,118	3,700	3,244
Omaha, Neb.-----	100	68	2	2					
St. Louis, Mo.-----	248	134	10	2					
St. Paul, Minn.-----	80	44	6	4					
Wichita, Kans.-----	54	31	10	3					
Las Vegas, Nev.*	20	9	1	—					

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

DIPHTHERIA - (Continued from page 55)

A total of 186 laboratory confirmed cases were classified as to clinical severity of illness: 54.3 percent were mild (localized symptoms, no systemic effects), 26.3 percent were moderate (moderate systemic effects), 10.2 percent were severe (symptomatic with marked systemic effects), and 9.1 percent were fatal.

Cultures confirmation was obtained in 218 of the 252 cases analyzed for this report. Of these, 70 isolates were typed: 68.4 percent were mitis, 21.4 percent were gravis, 7.1 percent were intermedius, and 2.9 percent were indeterminate. Toxicogenicity tests were performed on 193 isolates, and of these, 182 (94 percent) were toxigenic.

Surveillance data for 216 carriers were reported to the NCDC for the year 1968. The age and sex distribution of the carriers was comparable to that of cases. Approximately 45 percent of the carriers had histories of a completed primary immunization series.

(Reported by the Special Pathogens Section, Bacterial Diseases Branch, and the Statistical Services Activity, Epidemiology Program, and the Diphtheria Laboratory, Bacterial Immunology Unit, Laboratory Division, NCDC.)

A copy of the report from which these data were derived is available on request from

National Communicable Disease Center
Attn: Chief, Special Pathogens Section,
Bacterial Diseases Branch, Epidemiology Program
Atlanta, Georgia 30333

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

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

NATIONAL COMMUNICABLE DISEASE CENTER
ATTN: THE EDITOR
MORBIDITY AND MORTALITY WEEKLY REPORT
ATLANTA, GEORGIA 30333

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

U.S. DEPARTMENT OF
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