

Morbidity and Mortality



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INTERNATIONAL NOTES

SMALLPOX SURVEILLANCE - Worldwide, 1971

As of Jan. 11, 1972, 49,465 cases of smallpox were reported to the World Health Organization (WHO) for 1971. Delayed reports are expected to increase this total to 51,000 cases, which is 50% more cases than were recorded in 1970 (Figure 1). The increase is primarily due to markedly improved reporting in Ethiopia which recorded 25,372 cases, compared to only 722 cases in 1970. In the rest of the world, smallpox incidence declined by more than 25% for the fourth consecutive year.

While more cases of smallpox were reported in 1971, there was a continuing decline in the number of countries experiencing smallpox. Smallpox occurred in only 17 countries in 1971, compared to 23 countries in 1970 and 42 in 1967, the first year of the intensified eradication program.

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In 1971, only two endemic countries, Ethiopia and Sudan, recorded smallpox rates of 5.0 or more per 100,000 population, compared to five in 1970 and 1969, and 11 in 1968. Of the 11 countries recording rates of this magnitude in 1968, seven (Sierra Leone, Togo, Niger, Dahomey, Guinea, Burundi, and Swaziland) have detected no cases for more than a year.

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

DISEASE	3rd WEEK ENDED			CUMULATIVE, FIRST 3 WEEKS		
	January 22, 1972	January 23, 1971	MEDIAN 1967-1971	1972	1971	MEDIAN 1967-1971
Aseptic meningitis	41	61	29	121	182	77
Brucellosis	2	1	1	6	1	4
Chickenpox	2,490	---	---	6,293	---	---
Diphtheria	1	3	2	5	16	7
Encephalitis, primary:						
Arthropod-borne & unspecified	17	22	20	45	59	54
Encephalitis, post-infectious	7	5	7	12	18	18
Hepatitis, serum	209	238	84	535	549	261
Hepatitis, infectious	1,079	1,352	835	3,109	3,769	2,190
Malaria	11	60	36	153	169	112
Measles (rubeola)	715	1,214	866	1,914	3,139	2,336
Meningococcal infections, total	37	49	73	101	166	191
Civilian	36	45	68	97	155	177
Military	1	4	3	4	11	9
Mumps	2,080	3,058	---	5,961	8,095	---
Rubella (German measles)	526	522	610	1,146	1,347	1,363
Tetanus	---	---	2	---	1	2
Tuberculosis, new active	449	---	---	1,235	---	---
Tularemia	4	5	1	8	9	3
Typhoid fever	2	1	5	9	11	15
Typhus, tick-borne (Rky. Mt. spotted fever)	1	1	---	5	1	1
Venereal Diseases:						
Gonorrhea	11,849	---	---	36,480	---	---
Syphilis, primary and secondary	405	---	---	1,156	---	---
Rabies in animals	58	79	67	169	209	203

TABLE II. NOTIFIABLE DISEASES OF LOW FREQUENCY

	Cum.		Cum.
Anthrax:	---	Poliomyelitis, total: Calif.-1	1
Botulism:	---	Paralytic: Calif.-1	1
Congenital rubella syndrome:	---	Psittacosis:	1
Leprosy:	5	Rabies in man:	---
Leptospirosis:	---	Trichinosis: Calif.-1, Pa.1	8
Plague:	---	Typhus, murine: Tex.-1	3

SMALLPOX – Continued

The reduction in the extent of smallpox endemic areas is emphasized by the fact that 95% of all cases in the past 6 months were reported from only four countries: India, Pakistan, Ethiopia, and Sudan. In Brazil and Zaire, which recorded cases earlier in the year, transmission appears to have been virtually interrupted.

In 1971, introductions of smallpox into non-endemic countries occurred principally as a result of overland travel from adjacent endemic areas. No cases were imported into Europe or North America. The decreasing risk of smallpox introductions was a primary consideration in the decision by both the United States and the United Kingdom to discontinue routine smallpox vaccination [MMWR, Vol. 20, Nos. 38-39].

South America

Except for infrequent importations into Argentina, French Guiana, and Uruguay, all cases reported from South America since 1967 have occurred in Brazil [MMWR, Vol. 20, No. 50]. A peak in smallpox incidence was reached in 1969, coincident with the development of the surveillance program, but the incidence declined sharply thereafter. In the past 12 months, only one outbreak of 20 cases was reported in South America.

Mainland Asia

Between 1967 and 1970, smallpox incidence on the mainland of Asia declined steadily from 97,862 to 18,243 cases. In 1971, however, the incidence increased somewhat compared to 1970 as surveillance programs in many states of India, most of West Pakistan, and Nepal were intensified. In Afghanistan, where an active surveillance program has been in

progress for almost 2 years, a decrease in incidence was observed, while no cases were detected in East Pakistan.

In India, special efforts were made in 1971 in many states to improve reporting and to intensify surveillance activities. In the southern states (population 187 million), only 546 cases were reported in 1971, compared to 38,809 in 1967. In the west of India, Gujarat State (population 27 million) which recorded more than 10% of the world's cases in 1969, has reported only one outbreak since June. Rajasthan State, which recorded the highest incidence in India in 1971, began an aggressive surveillance program in March and has succeeded in reducing smallpox incidence to very low levels. In many of the other states, however, progress has been less satisfactory.

In Punjab Province, the largest of West Pakistan's four provinces, a systematic program of vaccination has been completed and a highly effective surveillance program has been implemented. Almost all outbreaks can now be traced to importations from other provinces.

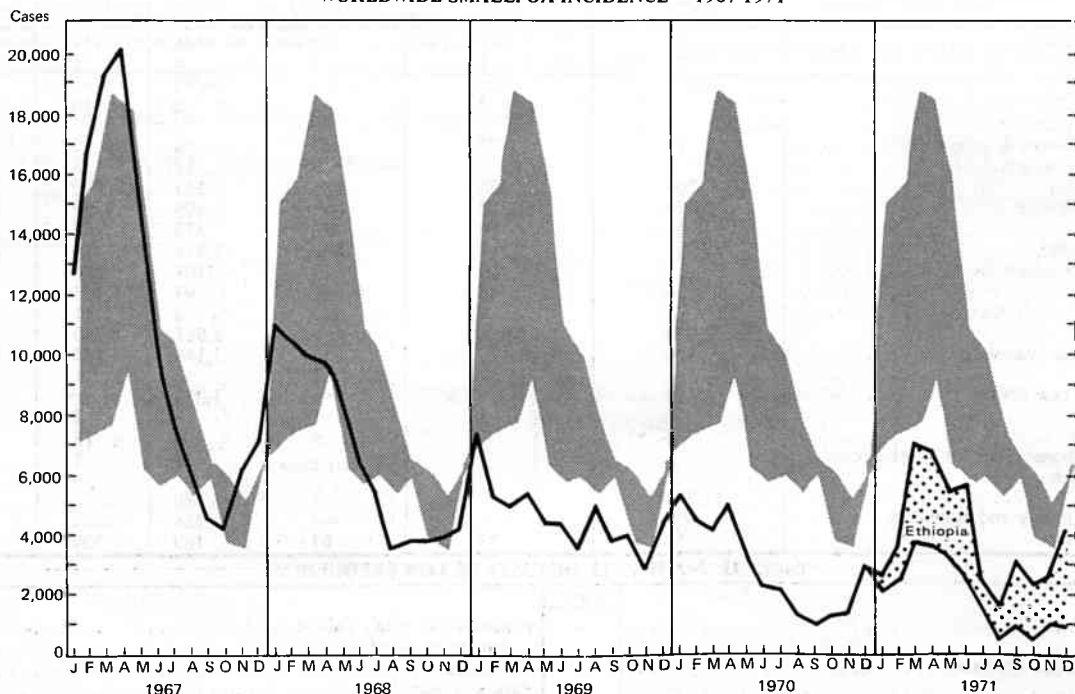
In Nepal, a vaccination program and surveillance activities have been gradually extended throughout the country in the past 3 years. Most outbreaks in 1971 occurred in areas near the Indian border, and almost all could be traced directly or indirectly to importations from India.

Afghanistan has recently experienced a considerable decrease in incidence with many of the recent cases originating from introductions from Pakistan and from spread of infection from variolated persons in remote areas not yet vaccinated in the systematic program.

Indonesia

Smallpox incidence in Indonesia decreased by more than 80% in 1971 as intensive efforts were made to interrupt

Figure 1
WORLDWIDE SMALLPOX INCIDENCE – 1967-1971



Note: The grey area represents the range between the highest and lowest incidence reported during the five-year period 1962-1966.

transmission in the few remaining foci in West Java, Sumatra, and Sulawesi. Transmission on the densely populated island of Java appeared to have been interrupted in April, but a focus of 128 cases was identified in December near Djakarta. Containment and investigation activities are in progress. The last known cases in Sumatra occurred in August and in Sulawesi in November.

Africa

In 1967, smallpox was endemic throughout most countries of Africa south of the Sahara Desert. Eradication programs undertaken in the past 5 years, however, have now reduced smallpox incidence to virtually nil in all countries except Sudan and Ethiopia. Smallpox transmission is now believed to be limited to these two countries and to an area along the border between Botswana and South Africa.

In Ethiopia, an eradication program began in January 1971 with a strategy principally directed toward surveillance, vaccination in conjunction with containment activities, and systematic vaccination in the major cities and along the main roads. A total of 25,372 cases were detected in 1971, compared to only 722 cases in 1970; almost 3 million persons

have been vaccinated. Because few vaccinations have been administered in previous years, there is a large susceptible population, and smallpox is widely dispersed throughout most provinces in a scattered, comparatively inaccessible population. No definite trend in incidence is yet apparent.

In Sudan, more than 1,000 cases were reported both in 1970 and 1971, the highest recorded incidence in 15 years. Based on available information, it seems likely that Sudan had once succeeded in interrupting transmission in the early 1960's. Reintroduction of smallpox appears to have occurred in 1968, and in the absence of an effective surveillance program, spread throughout the country in the next 2 years. Since 1968, a partially effective eradication program has been in progress in the northern and central provinces, but activities are only beginning in the three southern provinces. Over half of the cases are reported from the southern provinces; most of the remaining cases are occurring in areas bordering on Ethiopia or among immigrant workers from the southern provinces.

(Reported by the World Health Organization: Weekly Epidemiological Record, Vol. 47, No. 2.)

CHOLERA – Worldwide

Since 1970, when El tor cholera first spread into Africa, 25 African countries have reported cholera to the World Health Organization (WHO). Table 1 shows the countries that are presently infected with the disease as well as all countries that have reported cholera since 1970 (1).

The country that reported cholera most recently to WHO was Angola, on the west coast of Africa, in the week ending Jan. 8, 1972. None of the countries bordering Angola

have reported the disease, so the spread to this country may have been by air or sea routes.

(Reported by the Bacterial Diseases Branch, Epidemiology Program, and the Foreign Quarantine Program, CDC.)

Reference

1. World Health Organization: *Weekly Epidemiological Record*, Vol. 45, Nos. 1-52, Vol. 46, Nos. 1-52, and Vol. 47, Nos. 1-3

Table 1
Countries Reporting Cholera – 1970-1972

Geographic Area	Presently Infected	Previously Infected in 1970-1971	Imported Cases Only	Geographic Area	Presently Infected	Previously Infected in 1970-1971	Imported Cases Only
Asia	Burma East Pakistan India Indonesia Malaysia Nepal Philippines Vietnam	Brunei Singapore South Korea Pakistan	Japan	Africa	Angola Cameroon Chad Dahomey Ghana Guinea Ivory Coast Kenya Liberia Mali Mauritania Nigeria Senegal Sierra Leone Togo	Affars and Issas Algeria Ethiopia Libya Morocco Niger Somalia Tunisia Uganda Upper Volta	

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TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED

JANUARY 22, 1972 AND JANUARY 23, 1971 (3rd WEEK)

AREA	ASEPTIC MENIN- GITIS	BRUCEL- LOSIS	CHICKEN- POX	DIPHTHERIA		ENCEPHALITIS			HEPATITIS		
						Primary including unsp. cases		Post In- fectious	Serum	Infectious	
						1972	1971	1972	1972	1972	1971
UNITED STATES.....	41	2	2,490	1	5	17	22	7	209	1,079	1,352
NEW ENGLAND.....	-	-	294	-	-	1	2	-	8	82	87
Maine.*.....	-	-	31	-	-	-	1	-	-	11	-
New Hampshire.*.....	-	-	12	-	-	-	-	-	1	5	6
Vermont.....	-	-	14	-	-	-	-	-	2	7	27
Massachusetts.....	-	-	-	-	-	1	1	-	1	33	21
Rhode Island.....	-	-	77	-	-	-	-	-	1	6	8
Connecticut.....	-	-	160	-	-	-	-	-	3	20	25
MIDDLE ATLANTIC.....	21	-	68	-	-	2	3	1	88	153	329
New York City.....	-	-	62	-	-	-	-	-	21	57	96
New York, Up-State....	9	-	2	-	-	-	1	-	14	33	90
New Jersey.*.....	10	-	NN	-	-	-	-	-	20	60	75
Pennsylvania.....	2	-	4	-	-	2	2	1	33	3	68
EAST NORTH CENTRAL.....	-	-	1,073	-	-	6	6	1	26	158	164
Ohio.....	-	-	227	-	-	-	3	1	4	23	57
Indiana.....	-	-	144	-	-	-	-	-	-	6	5
Illinois.....	-	-	-	-	-	-	-	-	-	19	30
Michigan.....	-	-	702	-	-	6	3	-	22	103	64
Wisconsin.....	-	-	-	-	-	-	-	-	-	7	8
WEST NORTH CENTRAL.....	-	-	410	-	2	-	2	-	-	58	73
Minnesota.*.....	-	-	34	-	-	-	-	-	-	6	13
Iowa.....	-	-	250	-	-	-	1	-	-	2	7
Missouri.....	-	-	-	-	-	-	-	-	-	6	31
North Dakota.....	-	-	-	-	-	-	-	-	-	10	8
South Dakota.....	-	-	2	-	2	-	1	-	-	4	3
Nebraska.....	-	-	4	-	-	-	-	-	-	4	2
Kansas.*.....	-	-	120	-	-	-	-	-	-	26	9
SOUTH ATLANTIC.....	5	-	411	-	2	1	5	2	23	164	128
Delaware.....	1	-	11	-	-	-	-	-	-	1	-
Maryland.....	-	-	37	-	-	-	-	-	3	26	17
Dist. of Columbia....	-	-	3	-	-	-	-	-	-	2	3
Virginia.....	-	-	54	-	-	1	2	-	2	22	18
West Virginia.*.....	-	-	279	-	-	-	-	-	1	9	14
North Carolina.....	-	-	-	-	-	-	3	-	6	30	14
South Carolina.....	-	-	27	-	-	-	-	-	-	7	9
Georgia.....	-	-	-	-	-	-	-	-	-	11	20
Florida.....	4	-	-	-	2	-	-	2	11	56	33
EAST SOUTH CENTRAL.....	3	-	83	-	-	3	1	1	9	75	121
Kentucky.....	1	-	38	-	-	-	-	-	7	34	82
Tennessee.....	1	-	NN	-	-	1	-	1	-	33	25
Alabama.....	1	-	34	-	-	2	1	-	2	5	13
Mississippi.....	-	-	11	-	-	-	-	-	-	3	1
WEST SOUTH CENTRAL.....	2	-	10	1	1	1	-	-	6	102	107
Arkansas.....	-	-	2	-	-	-	-	-	-	7	10
Louisiana.*.....	-	-	-	1	1	-	-	-	3	9	18
Oklahoma.*.....	1	-	8	-	-	1	-	-	1	36	5
Texas.....	1	-	-	-	-	-	-	-	2	50	74
MOUNTAIN.....	1	-	140	-	-	-	-	-	4	41	58
Montana.....	-	-	17	-	-	-	-	-	-	3	3
Idaho.....	-	-	-	-	-	-	-	-	2	-	4
Wyoming.....	-	-	37	-	-	-	-	-	-	-	-
Colorado.....	1	-	2	-	-	-	-	-	2	11	9
New Mexico.....	-	-	21	-	-	-	-	-	-	7	20
Arizona.....	-	-	63	-	-	-	-	-	-	15	14
Utah.....	-	-	-	-	-	-	-	-	-	5	8
Nevada.....	-	-	-	-	-	-	-	-	-	-	-
PACIFIC.....	9	2	1	-	-	3	3	2	45	246	285
Washington.....	-	-	-	-	-	-	-	-	-	19	27
Oregon.....	-	-	1	-	-	-	-	-	1	30	44
California.....	9	2	-	-	-	3	2	2	44	190	202
Alaska.....	-	-	-	-	-	-	-	-	-	4	11
Hawaii.....	-	-	-	-	-	-	1	-	-	3	1
Puerto Rico.....	-	-	-	-	-	-	-	-	-	-	23
Virgin Islands.....	-	-	-	-	-	-	-	-	-	-	-

*Delayed reports: Aseptic meningitis: (1971) La. delete 2, add 1; Chickenpox: (1972) W. Va. 227; Diphtheria: (1971) La. 1; Encephalitis, Post: (1971) Minn. 3; Hepatitis, Serum: (1971) Kans. 1, La. 2 (1972), N.J. delete 2; Hepatitis, Infectious: (1971) N.J. delete 5, Minn. 1, Kans. 6, W. Va. delete 1, La. 6, Okla. delete 1, (1972) Me. 3, N.H. 5, N.J. delete 2

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TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
FOR WEEKS ENDED
JANUARY 22, 1972 AND JANUARY 23, 1971 (3rd WEEK) - CONTINUED

AREA	MALARIA		MEASLES (Rubeola)			MENINGOCOCCAL INFECTIONS, TOTAL			MUMPS		RUBELLA	
	1972	Cum. 1972	1972	Cumulative		1972	Cumulative		1972	Cum. 1972	1972	Cum. 1972
				1972	1971		1972	1971				
UNITED STATES.....	11	153	715	1,914	3,139	37	101	166	2,080	5,961	526	1,146
NEW ENGLAND.....	-	1	12	47	92	1	3	6	87	231	16	39
Maine.....*	-	-	-	5	60	-	1	1	3	7	-	2
New Hampshire.....*	-	1	3	4	-	-	-	1	3	8	-	9
Vermont.....	-	-	2	2	-	-	-	-	4	25	1	1
Massachusetts.....*	-	-	1	2	29	-	-	1	13	48	6	14
Rhode Island.....	-	-	4	27	2	1	2	1	16	33	2	3
Connecticut.....	-	-	2	7	1	-	-	2	48	110	7	10
MIDDLE ATLANTIC.....	-	2	58	190	350	5	8	18	100	349	34	74
New York City.....	-	-	5	19	193	-	1	2	35	114	8	14
New York, Up-State....	-	-	2	3	56	1	3	4	NN	NN	-	6
New Jersey.....	-	2	50	165	12	3	3	2	32	178	12	35
Pennsylvania.....	-	-	1	3	89	1	1	10	33	57	14	19
EAST NORTH CENTRAL.....	-	3	410	901	514	4	14	10	653	1,623	146	290
Ohio.....	-	-	4	19	257	2	8	6	105	250	4	27
Indiana.....	-	-	156	279	2	-	1	-	39	142	27	74
Illinois.....	-	-	69	249	68	-	1	1	145	285	40	68
Michigan.....*	-	3	69	112	39	2	4	2	111	246	45	67
Wisconsin.....	-	-	112	242	148	-	-	-	253	700	30	54
WEST NORTH CENTRAL.....	-	2	10	31	70	-	4	15	310	1,052	21	60
Minnesota.....*	-	-	-	1	3	-	-	3	39	101	-	4
Iowa.....	-	1	6	22	34	-	-	1	204	814	15	28
Missouri.....	-	-	-	3	11	-	-	4	-	19	-	17
North Dakota.....	-	-	3	4	1	-	-	1	51	82	2	3
South Dakota.....	-	-	1	1	17	-	1	3	-	4	-	2
Nebraska.....	-	1	-	-	2	-	1	1	11	23	4	6
Kansas.....	-	-	-	-	2	-	2	2	5	9	-	-
SOUTH ATLANTIC.....	-	15	45	232	511	9	25	13	206	551	41	97
Delaware.....	-	-	-	-	2	-	1	-	-	1	-	1
Maryland.....	-	-	1	2	3	-	-	1	18	37	1	2
Dist. of Columbia....	-	-	-	-	1	-	-	1	1	1	-	-
Virginia.....	-	1	-	-	324	6	10	-	33	62	3	9
West Virginia.....	-	1	5	8	23	-	3	1	82	338	19	46
North Carolina.....	-	6	5	10	87	-	4	2	NN	NN	1	1
South Carolina.....	-	2	8	19	56	1	3	-	6	30	3	7
Georgia.....	-	2	-	19	1	-	-	3	-	-	-	1
Florida.....	-	3	26	174	14	2	4	5	66	82	14	30
EAST SOUTH CENTRAL.....	1	107	44	124	547	2	7	12	167	323	48	98
Kentucky.....	-	106	15	73	315	-	3	4	29	36	24	53
Tennessee.....	-	-	6	18	55	1	1	4	72	199	15	34
Alabama.....	1	1	12	22	145	-	2	3	50	70	5	7
Mississippi.....	-	-	11	11	32	1	1	1	16	18	4	4
WEST SOUTH CENTRAL.....	-	4	36	83	763	5	10	16	148	482	74	145
Arkansas.....	-	2	-	1	3	-	-	-	-	6	6	7
Louisiana.....*	-	-	-	-	41	2	4	6	-	-	-	-
Oklahoma.....	-	1	1	2	118	-	-	-	14	32	-	1
Texas.....	-	1	35	80	601	3	6	10	134	444	68	137
MOUNTAIN.....	3	3	41	123	150	-	1	12	85	243	27	40
Montana.....	-	-	-	1	26	-	-	-	3	31	2	4
Idaho.....	-	-	1	1	46	-	-	-	3	15	3	3
Wyoming.....	-	-	-	-	-	-	1	-	10	36	-	-
Colorado.....	3	3	23	79	16	-	-	3	35	64	10	10
New Mexico.....	-	-	3	4	43	-	-	-	6	25	4	4
Arizona.....	-	-	11	35	12	-	-	5	28	71	4	14
Utah.....	-	-	3	3	7	-	-	3	-	1	4	5
Nevada.....	-	-	-	-	-	-	-	1	-	-	-	-
PACIFIC.....	7	16	59	183	142	11	29	64	324	1,107	119	303
Washington.....	-	-	26	52	16	2	2	3	56	379	29	73
Oregon.....	-	1	1	4	21	1	1	5	77	178	20	43
California.....	5	13	28	121	98	8	26	54	191	536	66	179
Alaska.....	-	-	-	-	-	-	-	-	-	9	-	-
Hawaii.....	2	2	4	6	7	-	-	2	-	5	4	8
Puerto Rico.....	-	-	-	-	9	-	-	-	-	11	-	-
Virgin Islands.....	-	-	-	-	1	-	-	-	-	4	-	-

*Delayed reports: Malaria: (1971) La. 1; Measles: (1971) Mass. delete 1, (1972) Me. 1; Meningococcal Infections: (1971) La. 1; Mumps: (1971) Minn. 3, La. 5, (1972) Me. 2, Mich. 50; Rubella: (1971) La. 1, (1972) Me. 1, N.H. 9

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TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
FOR WEEKS ENDED
JANUARY 22, 1972 AND JANUARY 23, 1971 (3rd WEEK) - CONTINUED

AREA	TETANUS	NEW ACTIVE TB	TULAREMIA		TYPHOID FEVER		TYPHUS FEVER TICK-BORNE (Rky. Mt. Spotted)		VENEREAL DISEASES		RABIES IN ANIMALS			
			1972	1972	1972	Cum. 1972	1972	Cum. 1972	1972	Cum. 1972	GONOR-RHEA	SYPHILIS (Pri. & Sec.)	1972	Cum. 1972
											1972	1972		
UNITED STATES.....	-	449	4	8	2	9	1	5	11,849	405	58	169		
NEW ENGLAND.....	-	4	-	-	-	-	-	-	363	13	4	8		
Maine.....	-	3	-	-	-	-	-	-	9	-	4	8		
New Hampshire.....	-	-	-	-	-	-	-	-	9	-	-	-		
Vermont.....	-	-	-	-	-	-	-	-	-	-	-	-		
Massachusetts.....	-	-	-	-	-	-	-	-	163	5	-	-		
Rhode Island.....	-	1	-	-	-	-	-	-	29	-	-	-		
Connecticut.....	-	-	-	-	-	-	-	-	153	8	-	-		
MIDDLE ATLANTIC.....	-	102	-	-	-	-	-	1	1,023	32	1	5		
New York City.....	-	24	-	-	-	-	-	-	-	-	-	-		
New York, Up-State...	-	22	-	-	-	-	-	-	500	7	-	2		
New Jersey.....	-	30	-	-	-	-	-	1	210	17	-	-		
Pennsylvania.....	-	26	-	-	-	-	-	-	313	8	1	3		
EAST NORTH CENTRAL.....	-	80	1	1	-	-	-	-	1,608	39	1	6		
Ohio.....	-	27	1	1	-	-	-	-	660	6	-	1		
Indiana.....	-	19	-	-	-	-	-	-	116	5	-	1		
Illinois.....	-	9	-	-	-	-	-	-	289	2	1	1		
Michigan.....	-	25	-	-	-	-	-	-	381	24	-	-		
Wisconsin.....	-	-	-	-	-	-	-	-	162	2	-	3		
WEST NORTH CENTRAL.....	-	14	2	3	-	-	-	-	719	6	22	52		
Minnesota*.....	-	-	-	-	-	-	-	-	148	1	7	13		
Iowa.....	-	2	-	-	-	-	-	-	140	-	3	12		
Missouri.....	-	9	2	3	-	-	-	-	298	5	3	8		
North Dakota.....	-	-	-	-	-	-	-	-	12	-	8	17		
South Dakota.....	-	1	-	-	-	-	-	-	27	-	1	1		
Nebraska.....	-	2	-	-	-	-	-	-	94	-	-	-		
Kansas*.....	-	-	-	-	-	-	-	-	-	-	-	1		
SOUTH ATLANTIC.....	-	105	-	1	-	1	-	1	3,092	172	2	12		
Delaware.....	-	2	-	-	-	-	-	-	37	2	-	-		
Maryland.....	-	20	-	-	-	-	-	-	276	16	-	-		
Dist. of Columbia....	-	6	-	-	-	-	-	-	268	19	-	-		
Virginia.....	-	17	-	1	-	1	-	-	410	45	1	5		
West Virginia.....	-	8	-	-	-	-	-	-	25	1	-	1		
North Carolina.....	-	25	-	-	-	-	-	1	383	17	-	-		
South Carolina.....	-	-	-	-	-	-	-	-	220	15	-	-		
Georgia.....	-	15	-	-	-	-	-	-	587	36	1	5		
Florida.....	-	12	-	-	-	-	-	-	886	21	-	1		
EAST SOUTH CENTRAL.....	-	47	-	1	-	-	-	-	1,001	11	16	50		
Kentucky.....	-	10	-	-	-	-	-	-	181	1	6	22		
Tennessee.....	-	12	-	-	-	-	-	-	444	5	6	21		
Alabama.....	-	19	-	1	-	-	-	-	224	2	4	7		
Mississippi.....	-	6	-	-	-	-	-	-	152	3	-	-		
WEST SOUTH CENTRAL.....	-	14	-	-	-	-	1	3	1,487	62	11	31		
Arkansas.....	-	5	-	-	-	-	-	-	62	7	4	10		
Louisiana.....	-	-	-	-	-	-	-	-	22	19	2	2		
Oklahoma.....	-	9	-	-	-	-	1	1	227	3	1	7		
Texas.....	-	-	-	-	-	-	-	2	1,176	33	4	12		
MOUNTAIN.....	-	6	1	1	-	2	-	-	350	8	-	2		
Montana.....	-	1	-	-	-	-	-	-	16	-	-	-		
Idaho.....	-	-	-	-	-	-	-	-	22	-	-	-		
Wyoming.....	-	1	-	-	-	-	-	-	1	3	-	-		
Colorado.....	-	3	1	1	-	-	-	-	107	-	-	-		
New Mexico.....	-	1	-	-	-	1	-	-	78	4	-	-		
Arizona.....	-	-	-	-	-	1	-	-	101	1	-	2		
Utah.....	-	-	-	-	-	-	-	-	11	-	-	-		
Nevada.....	-	-	-	-	-	-	-	-	14	-	-	-		
PACIFIC.....	-	77	-	1	2	6	-	-	2,206	62	1	3		
Washington.....	-	5	-	-	-	-	-	-	-	-	-	-		
Oregon.....	-	2	-	-	-	-	-	-	213	3	-	-		
California*.....	-	61	-	-	2	5	-	-	1,937	59	1	3		
Alaska.....	-	4	-	1	-	-	-	-	56	-	-	-		
Hawaii.....	-	5	-	-	-	1	-	-	-	-	-	-		
Puerto Rico.....	-	-	-	-	-	-	-	-	-	-	-	-		
Virgin Islands.....	-	2	-	-	-	-	-	-	-	-	-	-		

*Delayed reports: Tetanus: (1971) Kans. 1; Tuberculosis: (1972) Calif. 71; Syphilis: (1972) Calif. 41; Rabies in Animals: (1971) Minn. 1

Morbidity and Mortality Weekly Report

Week No. 3 TABLE IV. DEATHS IN 122 UNITED STATES CITIES FOR WEEK ENDED JANUARY 22, 1972

(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:	852	578	115	27	SOUTH ATLANTIC:	1,414	731	82	56
Boston, Mass.-----	271	170	32	11	Atlanta, Ga.-----	159	77	3	1
Bridgeport, Conn.-----	44	35	10	—	Baltimore, Md.-----	292	154	13	10
Cambridge, Mass.-----	33	27	11	—	Charlotte, N. C.-----	51	23	—	3
Fall River, Mass.-----	24	16	2	2	Jacksonville, Fla.-----	69	38	1	3
Hartford, Conn.-----	83	51	11	4	Miami, Fla.-----	113	58	9	2
Lowell, Mass.-----	36	25	5	—	Norfolk, Va.-----	67	37	11	3
Lynn, Mass.-----	18	14	2	—	Richmond, Va.-----	106	44	10	10
New Bedford, Mass.-----	32	22	4	2	Savannah, Ga.-----	35	12	5	4
New Haven, Conn.-----	56	38	1	3	St. Petersburg, Fla.-----	102	86	4	2
Providence, R. I.-----	78	52	10	3	Tampa, Fla.-----	86	48	13	2
Somerville, Mass.-----	15	12	2	—	Washington, D. C.-----	242	105	8	14
Springfield, Mass.-----	64	50	18	1	Wilmington, Del.-----	92	49	5	2
Waterbury, Conn.-----	24	17	—	—					
Worcester, Mass.-----	74	49	7	1	EAST SOUTH CENTRAL:	734	443	35	31
MIDDLE ATLANTIC:	4,151	2,522	261	110	Birmingham, Ala.-----	129	73	3	3
Albany, N. Y.-----	65	37	8	3	Chattanooga, Tenn.-----	44	19	2	9
Allentown, Pa.-----	30	24	6	—	Knoxville, Tenn.-----	48	39	1	1
Buffalo, N. Y.-----	168	103	16	3	Louisville, Ky.-----	134	81	13	5
Camden, N. J.-----	50	31	6	3	Memphis, Tenn.-----	152	87	2	7
Elizabeth, N. J.-----	30	19	4	—	Mobile, Ala.-----	69	43	2	3
Erie, Pa.-----	50	36	5	—	Montgomery, Ala.-----	39	25	3	1
Jersey City, N. J.-----	97	69	6	—	Nashville, Tenn.-----	119	76	9	2
Newark, N. J.-----	86	42	2	2	WEST SOUTH CENTRAL:	1,535	817	76	79
New York City, N. Y.-----	2,021	1,239	111	50	Austin, Tex.-----	44	24	8	3
Paterson, N. J.-----	46	27	6	3	Baton Rouge, La.-----	68	29	5	2
Philadelphia, Pa.-----	685	407	12	19	Corpus Christi, Tex.-----	40	19	—	3
Pittsburgh, Pa.-----	301	166	28	7	Dallas, Tex.-----	258	128	12	11
Reading, Pa.-----	54	29	4	2	El Paso, Tex.-----	55	30	4	4
Rochester, N. Y.-----	144	95	26	5	Fort Worth, Tex.-----	93	61	6	4
Schenectady, N. Y.-----	41	21	8	1	Houston, Tex.-----	299	149	7	15
Scranton, Pa.-----	55	41	2	—	Little Rock, Ark.-----	85	47	4	4
Syracuse, N. Y.-----	94	52	6	7	New Orleans, La.-----	192	105	10	9
Trenton, N. J.-----	63	35	4	3	Oklahoma City, Okla.-----	109	52	5	8
Utica, N. Y.-----	43	33	—	—	San Antonio, Tex.-----	148	83	3	11
Yonkers, N. Y.-----	28	16	1	2	Shreveport, La.-----	62	34	3	4
					Tulsa, Okla.-----	82	56	9	1
EAST NORTH CENTRAL:	3,230	1,924	189	117	MOUNTAIN:	593	357	43	25
Akron, Ohio-----	95	60	2	2	Albuquerque, N. Mex.-----	62	33	2	1
Canton, Ohio-----	49	29	3	1	Colorado Springs, Colo.-----	44	30	14	2
Chicago, Ill.-----	871	473	39	33	Denver, Colo.-----	164	109	8	7
Cincinnati, Ohio-----	203	121	11	13	Ogden, Utah-----	34	24	8	—
Cleveland, Ohio-----	288	157	22	8	Phoenix, Ariz.-----	131	81	5	7
Columbus, Ohio-----	130	72	5	3	Pueblo, Colo.-----	23	10	3	—
Dayton, Ohio-----	134	84	4	6	Salt Lake City, Utah-----	73	37	1	7
Detroit, Mich.-----	419	247	22	10	Tucson, Ariz.-----	62	33	2	1
Evansville, Ind.-----	43	35	5	3	PACIFIC:	1,924	1,195	66	57
Flint, Mich.-----	65	37	4	4	Berkeley, Calif.-----	24	20	1	—
Fort Wayne, Ind.-----	70	42	3	4	Fresno, Calif.-----	58	32	2	4
Gary, Ind.-----	52	28	4	4	Glendale, Calif.-----	50	38	2	4
Grand Rapids, Mich.-----	79	60	14	1	Honolulu, Hawaii-----	62	31	3	4
Indianapolis, Ind.-----	181	112	5	7	Long Beach, Calif.-----	118	76	6	2
Madison, Wis.-----	43	22	9	7	Los Angeles, Calif.-----	578	361	21	15
Milwaukee, Wis.-----	184	117	10	2	Oakland, Calif.-----	78	49	2	4
Peoria, Ill.-----	53	30	4	3	Pasadena, Calif.-----	48	30	1	1
Rockford, Ill.-----	49	34	10	4	Portland, Oreg.-----	176	107	1	6
South Bend, Ind.-----	48	33	5	—	Sacramento, Calif.-----	60	34	1	1
Toledo, Ohio-----	112	84	5	1	San Diego, Calif.-----	120	73	6	6
Youngstown, Ohio-----	62	47	3	1	San Francisco, Calif.-----	207	121	7	3
WEST NORTH CENTRAL:	1,112	710	53	49	San Jose, Calif.-----	57	40	1	3
Des Moines, Iowa-----	73	50	2	3	Seattle, Wash.-----	158	94	5	3
Duluth, Minn.-----	26	20	—	—	Spokane, Wash.-----	79	55	6	—
Kansas City, Kans.-----	50	27	2	5	Tacoma, Wash.-----	51	34	1	1
Kansas City, Mo.-----	264	179	15	6					
Lincoln, Nebr.-----	40	34	7	2	Total	15,545	9,277	920	551
Minneapolis, Minn.-----	128	84	4	4	Expected Number	13,541	7,879	584	594
Omaha, Nebr.-----	122	74	6	8	Cumulative Total (includes reported corrections for previous weeks)	46,008	27,254	2,531	1,710
St. Louis, Mo.-----	285	171	8	15					
St. Paul, Minn.-----	85	51	3	3					
Wichita, Kans.-----	39	20	6	3					
Las Vegas, Nev.*	19	5	—	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.

Delayed report for week ended Jan. 15, 1972
 **Estimate based on average percent of divisional total

INTERNATIONAL NOTES
POLIOMYELITIS – Trinidad and Tobago

On Nov. 14, 1971, an outbreak of paralytic poliomyelitis was reported from Trinidad, off the northern coast of South America. As of Jan. 6, 1972, 50 cases and one death were recorded. Polio virus type 1 was isolated from specimens from 24 patients.

(Reported by the World Health Organization: Weekly Epidemiological Record, Vol. 47, No. 2.)

Editorial Note

Cases are being investigated, and an island-wide vaccination campaign is underway.

EPIDEMIOLOGIC NOTES AND REPORTS
CARBON MONOXIDE POISONING – Washington

Between Dec. 4 and 7, 1971, 15 children in Seattle, Washington, who had been skating at a local ice-skating rink experienced headaches; four also became nauseated, and two vomited. The children's symptoms usually appeared before they left the rink, and all but one child recovered within 24 hours after leaving.

Epidemiologic investigation failed to incriminate any food served at the concession stand as the source of the illnesses. Questioning revealed that many visitors to the rink in previous months had also experienced headaches. It was learned that a propane-powered ice-resurfacing machine was used frequently in the rink, which was poorly ventilated. The building was monitored for carbon monoxide (CO) levels on four occasions, and levels as high as 304 ppm were found. The maximum allowable levels of CO set by the Environmental Protection Agency (EPA) are 35 ppm for 1 hour and 9 ppm for 8 hours. Because people at the rink may be ex-

posed for as long as 8 hours, it was decided that these standards should apply. Control measures included satisfactory temporary ventilation, as determined by CO monitoring equipment, and less frequent use of the ice-resurfacing machine until an adequate ventilating system could be installed.

CO levels at three other ice-skating rinks in the Seattle area were also tested. None of the rinks met EPA standards for maximum allowable concentrations of CO. Efforts are underway to correct this problem, and the rinks will continue to be checked periodically.

(Reported by Carl J. Johnson, M.D., District Health Officer, Steve C. Paine, R.S., Supervising Sanitarian, Herbert W. Anderson, R.S., Environmental Epidemiologist, John C. Moran, R.S., Senior Sanitarian, Seattle-King County Department of Public Health, Washington; Peter A. Breysse, Assistant Professor, Department of Environmental Health, School of Public Health and Community Medicine, University of Washington, Seattle.)

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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.

In addition to the established procedures for reporting morbidity and mortality, the editor welcomes accounts of interesting outbreaks or case investigations of current interest to health officials.

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