



Morbidity and Mortality

U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE / PUBLIC HEALTH SERVICE HEALTH SERVICES AND MENTAL HEALTH ADMINISTRATION

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EPIDEMIOLOGIC NOTES AND REPORTS CATTLE ANTHRAX - Wyoming

On Sept. 7, 1970, a farmer in Yoder, Wyoming, found among his herd two dead cows which he then sent to a rendering plant. On inspection of his pasture he found two more cows that had been dead for some time; these were not sent to the rendering plant. On September 14 another cow and one bull died and were processed at the rendering plant. *Bacillus anthracis* was isolated from tissues of these last animals by the State Veterinary Laboratory in Laramie. Two more cows died on September 15. The remaining cattle herd of 182 animals as well as two horses were then vaccinated with anthrax vaccine (Anvax - Sterne's Noncapsulated Strain).^{*} There were 87 calves 1 month to 9 months old in the herd, but no cases occurred among them. This farm and adjacent farms were quarantined. No human cases or additional deaths among cattle have occurred to date.

The farm has an alkaline soil and experienced heavy rainfall in May with dry weather since June, conditions

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previously associated with anthrax outbreaks (1). There had been no known cases of anthrax on the premises or in the local area in the past, although one isolated outbreak occurred in 1968 in northern Wyoming, approximately 260 miles northwest of Yoder.

The hides from the four animals that had been sent to the rendering plant were identified by brand, the complete pile of hides was destroyed, and movement of rendered

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

DISEASE	39th WEEK ENDED		MEDIAN 1965 - 1969	CUMULATIVE, FIRST 39 WEEKS		
	October 3, 1970	September 27, 1969		1970	1969	MEDIAN 1965 - 1969
Aseptic meningitis	313	156	156	4,137	2,374	2,231
Brucellosis	2	10	10	155	174	193
Diphtheria	23	9	7	333	126	126
Encephalitis, primary:						
Arthropod-borne & unspecified	72	55	57	1,101	892	1,218
Encephalitis, post-infectious	6	3	7	332	251	558
Hepatitis, serum	149	101	1,007	5,361	3,917	30,328
Hepatitis, infectious	1,148	980		41,918	34,945	
Malaria	72	95	35	2,525	2,184	1,490
Measles (rubeola)	166	153	172	39,964	20,702	58,221
Meningococcal infections, total	31	21	26	1,942	2,415	2,379
Civilian	29	21	25	1,749	2,209	2,197
Military	2	—	1	193	206	182
Mumps	763	530	—	77,408	69,241	—
Poliomyelitis, total	4	1	1	23	14	46
Paralytic	4	1	1	23	13	39
Rubella (German measles)	243	351	—	50,053	49,682	—
Tetanus	4	5	6	89	116	137
Tularemia	9	4	4	117	114	138
Typhoid fever	12	8	9	242	224	287
Typhus, tick-borne (Rky. Mt. spotted fever)	7	10	6	314	404	256
Rabies in animals	34	60	57	2,284	2,659	3,183

TABLE II. NOTIFIABLE DISEASES OF LOW FREQUENCY

	Cum.		Cum.
Anthrax:	1	Psittacosis:	24
Botulism:	9	Rabies in Man:	2
Leprosy: Calif.-1, Hawaii-1	93	Rubella congenital syndrome: Calif.-1	49
Leptospirosis: Ky.-2	34	Trichinosis: Mass.-1, NYUps-2, S.C.-1, Tenn.-1	78
Plague: N. Mex.-1	12	Typhus, murine:	31

CATTLE ANTHRAX - (Continued from front page)

products from the plant was restricted. The Wyoming Department of Agriculture subsequently recommended that the rendered products be released from the retained status since all available information from the U.S. Department of Agriculture and other sources indicated that *B. anthracis* organisms will not survive the cooking process that the meat and bone scraps had undergone. All possible precautions were taken to guard against recontamination of the finished product. The plant was disinfected. The veterinarian, the farmer, and the employees of the rendering plant were placed on antibiotic prophylaxis.

Soil samples from the farm are being cultured for *B. anthracis* organisms.

(Reported by Norman Swanson, D.V.M., State Veterinarian,

Livestock and Sanitary Board, and H. S. Parish, M.D., Assistant State Administrator, Wyoming Division of Health and Medical Services; A. B. Kight, D.V.M., Wyoming Department of Agriculture Veterinarian in Charge of Meat Inspection; Personnel of the Animal Health Division, Wyoming Cooperative State Federal Program, U.S. Department of Agriculture; and an EIS Officer.)

*Anthrax Spore Vaccine (Sterne's Nonencapsulated Strain) Anvax, Jensen-Salsbery Laboratories - Inclusion of trade names is for identification only and does not imply endorsement by the USDHEW or the Public Health Service.

Reference:

1. Van Ness GB: Soil Relationship in the Oklahoma-Kansas Anthrax Outbreak of 1957. J Soil and Water Conservation 14(2), March 1959.

CURRENT TRENDS

CALIFORNIA ENCEPHALITIS - Wisconsin 1970

Through Sept. 23, 1970, routine testing of sera submitted to the Wisconsin State Laboratory on hospitalized patients with a history of fever and central nervous system symptoms has revealed serologic evidence of infection with California encephalitis (CE) virus for 27 persons hospitalized in Wisconsin in 1970. Twenty-one of this year's cases were residents of rural and suburban areas in southwestern Wisconsin, four were from northeastern Iowa, and two were from southeastern Minnesota.

The epidemiologic characteristics of cases in 1970 were similar to those for the 90 cases of CE infection reported from Wisconsin between 1960 and 1969. This year's patients included 17 boys and 10 girls; their ages ranged from 16 months to 14 years, with an average age of 6 years. One patient was hospitalized in late June, seven in July, 10 in August, and nine in September. Hemagglutination-inhibition (HI) antibody titers on acute and convalescent sera showed fourfold or greater rise to CE virus for 20 of these 27 patients. For the other seven patients, a presumptive diagnosis was made on the basis of elevated HI and neutralizing antibody titers on acute sera specimens. Re-

sults of comparative neutralization tests on positive sera in baby hamster kidney cells showed higher titers to the LaCrosse strain of virus than to the other three strains of CE group viruses that previously have been isolated in Wisconsin.

Epidemiologic histories from these patients associated infections with exposure to mosquitoes in hilly, hardwood deciduous forest areas. In University of Wisconsin studies during the past several years, 21 isolates of LaCrosse strain virus were obtained from mosquitoes; 16 isolates were from *Aedes triseriatus* mosquitoes. Antibodies to this virus type were found in sera of approximately one-half the 230 tree squirrels and two-thirds of the 124 chipmunks trapped in these forest areas.

(Reported by Wayne Thompson, Ph.D., Chief, Arbovirus Research Unit, Department of Preventive Medicine, Donald Nelson, Chief, Virus Diagnostic Section, Stanley L. Inhorn, M.D., Director, State Laboratory of Hygiene, and H. Grant Skinner, M.D., Epidemiologist, Wisconsin State Division of Health and Social Services.)

INTERNATIONAL NOTES
QUARANTINE MEASURES*Changes in the "Supplement - Vaccination Certificate
Requirements for International Travel,"*

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The following changes should be made in the Vaccination Certificate Requirements for International Travel:

Albania

Insert: Cholera - And from all countries any parts of which are infected.

Algeria

Insert: Cholera - And from Guinea, Iraq, Libya.

Australia

Delete the note concerning cholera and insert: Cholera - And from Burma, Guinea, India, Indonesia, Iran, Israel, Lebanon, Libya, Malaysia, Nepal, North Korea, Pakistan, Philippines, Republic of Korea, Republic of Vietnam, Thailand, UAR, and USSR.

In the note concerning smallpox, insert: French Polynesia.

British Honduras

Insert: Yellow fever – II.

Bulgaria

Insert: Cholera – And from Guinea, Southern Yemen, Yemen.

Burundi

Insert: Cholera – Certificate required of travelers arriving from or proceeding to all countries any parts of which are infected.

Cameroon

Insert: Cholera – Vaccination certificate required from arrivals from Guinea, Iran, Iraq, UAR, and all countries any parts of which are infected.

Chad

Insert: Cholera – Certificate required from arrivals from all countries any parts of which are infected, and Guinea, Iran, Iraq, Kuwait, UAR, and Yemen.

Czechoslovakia

Delete the note concerning cholera and insert: Cholera – And from Guinea, Iran, Iraq, Kuwait, Muscat and Oman, Saudi Arabia, Southern Yemen, Turkey, UAR, Yemen, and all countries any parts of which are infected.

Ethiopia

Delete all information concerning cholera and insert: I.

France

Insert: Cholera – And from Afghanistan, Guinea, Iran, Iraq, Jordan, Sudan, Syria, UAR, Yemen, and all countries any parts of which are infected.

Gabon

Insert: Cholera – Vaccination certificate required from arrivals from Guinea, Iran, Iraq, Israel, Jordan, Kuwait, Lebanon, Libya, Saudi Arabia, Syria, Trucial Oman, UAR, USSR.

Gambia

Insert: Cholera – II.

Gibraltar

Insert: Cholera – Certificate required from arrivals from all countries any parts of which are infected.

Greece

Insert: Cholera – And from Guinea, Iran, Iraq, Israel, Jordan, Kuwait, Lebanon, Libya, Saudi Arabia, Syria, UAR.

Hungary

In the note concerning cholera, insert: Guinea, Libya, Trucial Oman.

Iceland

Insert: Cholera – Certificate required from arrivals from all countries any parts of which are infected.

Iran

In the note concerning cholera, insert: Cyprus, Kuwait, Lebanon, Morocco, Romania, Saudi Arabia, Turkey, USSR.

Italy

Insert: Cholera – And from Iran and Iraq (by air), and UAR.

Liberia

Insert: Cholera – Vaccination required from travelers arriving from Guinea, Tunisia, UAR and USSR, and from those proceeding to these countries.

Libya

Insert: Cholera – And from all countries in the Far East, Greece, Iran, Iraq, Jordan, Kuwait, Lebanon, Saudi Arabia, Southern Yemen, Sudan, Syria, Turkey, UAR, USSR, Yemen.

Malawi

In the note concerning cholera, insert: Guinea.

Maldives

Cholera – II; Yellow fever – II; Smallpox – I.

Mali

Insert: Cholera – Vaccination required from arrivals from Guinea and from countries any parts of which are infected.

Malta

Insert: Cholera – And from Guinea, Iran, Iraq, Turkey, UAR, and all countries any parts of which are infected.

Morocco

In the note concerning cholera, delete: Romania.

Nigeria

Delete the note concerning cholera and insert: Cholera – Vaccination certificate required from arrivals from countries in Asia, North Africa, Middle East, and from Guinea, Sudan, USSR. Certificate also required of passengers proceeding to these countries.

Pakistan

Insert: Cholera – And from all countries any parts of which are infected, and Afghanistan, Iraq, UAR.

Poland

Delete the note concerning cholera and insert: Cholera – And from Bahrain, Guinea, Iran, Iraq, Kuwait, Muscat and Oman, Qatar, Southern Yemen, Sudan, Turkey, UAR, Yemen, and all countries any parts of which are infected.

Portugal

Insert: Cholera – Certificate required of arrivals from all countries any parts of which are infected.

Romania

Insert: Cholera – And from Guinea, Israel, Jordan, Kuwait, Libya, Trucial Oman, Saudi Arabia, Southern Yemen, Yemen.

St. Helena

Insert: Cholera – And from all countries any parts of which are infected.

Senegal

Insert: Cholera – Vaccination certificate required from arrivals from Guinea.

Seychelles

Delete all information concerning cholera and insert: I.

Sierra Leone

Insert: Cholera – II

Somali

Insert: Cholera – I

Trinidad and Tobago

Insert: Smallpox – Except USA and the territories under its administration.

Turkey

Delete the note concerning cholera and insert: Cholera – And from Iran, Jordan, Lebanon, Libya, Syria, UAR, USSR.

Morbidity and Mortality Weekly Report

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED
OCTOBER 3, 1970 AND SEPTEMBER 27, 1969 (39th WEEK)

AREA	ASEPTIC MENIN- GITIS	BRUCEL- LOSIS	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.....	313	2	23	72	55	6	149	1,148	980	72	2,525
NEW ENGLAND.....	15	-	-	1	4	-	8	102	111	2	74
Maine.....	-	-	-	-	1	-	1	15	8	-	7
New Hampshire.....	-	-	-	-	-	-	-	-	1	-	6
Vermont.....	-	-	-	-	-	-	-	12	5	-	5
Massachusetts.....	12	-	-	1	-	-	4	43	56	1	35
Rhode Island.....	2	-	-	-	1	-	1	14	23	1	9
Connecticut.....	1	-	-	-	2	-	2	18	18	-	12
MIDDLE ATLANTIC.....	58	-	-	5	6	1	64	216	187	3	263
New York City.....	34	-	-	-	1	-	27	28	55	1	35
New York, Up-State...	3	-	-	1	2	-	6	46	27	-	76
New Jersey.*.....	16	-	-	-	-	-	21	69	64	1	70
Pennsylvania.....	5	-	-	4	3	1	10	73	41	1	82
EAST NORTH CENTRAL.....	52	-	-	33	28	-	21	206	166	11	153
Ohio.....	21	-	-	25	17	-	3	40	37	-	27
Indiana.....	4	-	-	1	1	-	-	5	10	1	17
Illinois.....	4	-	-	2	2	-	3	72	64	5	44
Michigan.....	23	-	-	5	8	-	15	73	50	5	65
Wisconsin.....	-	-	-	-	-	-	-	16	5	-	-
WEST NORTH CENTRAL.....	8	-	-	6	3	1	1	38	32	12	247
Minnesota.....	8	-	-	-	1	-	1	6	11	-	20
Iowa.....	-	-	-	1	1	-	-	4	4	-	20
Missouri.....	-	-	-	-	-	-	-	10	6	1	22
North Dakota.....	-	-	-	1	1	1	-	1	1	-	3
South Dakota.....	-	-	-	1	-	-	-	2	-	-	2
Nebraska.....	-	-	-	1	-	-	-	3	-	-	3
Kansas.....	-	-	-	2	-	-	-	12	10	11	177
SOUTH ATLANTIC.....	51	-	3	16	1	1	16	162	126	26	499
Delaware.....	-	-	-	3	-	-	2	4	3	-	2
Maryland.....	5	-	3	-	-	-	1	21	19	13	65
Dist. of Columbia....	-	-	-	-	-	-	2	2	4	-	2
Virginia.....	35	-	-	4	-	-	1	24	27	-	62
West Virginia.....	-	-	-	-	-	-	-	22	29	-	7
North Carolina.....	1	-	-	1	-	-	5	27	4	8	195
South Carolina.....	2	-	-	2	1	-	-	2	8	2	46
Georgia.....	2	-	-	-	-	-	-	22	3	-	74
Florida.....	6	-	-	6	-	1	5	38	29	3	46
EAST SOUTH CENTRAL.....	17	-	4	6	5	2	-	69	58	2	166
Kentucky.....	3	-	-	-	-	-	-	16	16	1	134
Tennessee.....	8	-	1	6	1	2	-	36	29	-	-
Alabama.*.....	3	-	1	-	-	-	-	10	6	1	21
Mississippi.....	3	-	2	-	4	-	-	7	7	-	11
WEST SOUTH CENTRAL.....	15	1	15	2	3	-	3	77	70	7	445
Arkansas.....	4	-	-	-	-	-	-	4	-	1	10
Louisiana.....	6	-	-	-	3	-	2	7	28	-	32
Oklahoma.....	1	-	-	2	-	-	-	16	8	3	78
Texas.....	4	1	15	-	-	-	1	50	34	3	325
MOUNTAIN.....	10	-	1	-	1	-	4	61	39	1	194
Montana.....	1	-	-	-	-	-	-	7	-	-	10
Idaho.....	2	-	-	-	1	-	-	3	1	-	4
Wyoming.....	-	-	-	-	-	-	-	3	6	-	-
Colorado.....	1	-	-	-	-	-	2	15	5	-	161
New Mexico.....	-	-	-	-	-	-	-	4	3	-	8
Arizona.....	5	-	1	-	-	-	1	15	15	1	8
Utah.....	1	-	-	-	-	-	1	14	9	-	3
Nevada.....	-	-	-	-	-	-	-	-	-	-	-
PACIFIC.....	87	1	-	3	4	1	32	217	191	8	484
Washington.....	6	-	-	1	-	-	-	21	5	-	45
Oregon.....	1	-	-	-	1	-	1	21	14	-	15
California.....	75	1	-	2	3	1	31	167	164	8	312
Alaska.....	5	-	-	-	-	-	-	4	1	-	1
Hawaii.....	-	-	-	-	-	-	-	4	7	-	111
Puerto Rico.....	-	-	-	-	-	-	6	50	44	-	9
Virgin Islands.....	-	-	-	-	-	-	-	-	-	-	-

* Delayed reports: Hepatitis, serum: N.J. delete 2
Hepatitis, infectious: N.J. delete 3, Ala, 1

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
FOR WEEKS ENDED
OCTOBER 3, 1970 AND SEPTEMBER 27, 1969 (39th 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.....	166	39,964	20,702	31	1,942	2,415	763	77,408	4	4	23
NEW ENGLAND.....	1	887	1,116	-	83	94	42	9,010	-	-	-
Maine.....	-	205	9	-	3	6	-	693	-	-	-
New Hampshire.....	-	52	238	-	8	3	1	333	-	-	-
Vermont.....	-	8	3	-	7	-	8	595	-	-	-
Massachusetts.....	1	417	219	-	37	37	9	2,830	-	-	-
Rhode Island.....	-	120	27	-	6	12	13	1,542	-	-	-
Connecticut.....	-	85	620	-	22	36	11	3,017	-	-	-
MIDDLE ATLANTIC.....	33	4,914	7,524	5	355	396	48	7,653	-	-	-
New York City.....	9	900	4,921	-	84	76	26	2,812	-	-	-
New York, Up-State...	17	302	601	3	70	77	NN	NN	-	-	-
New Jersey.....	2	1,710	905	1	133	158	5	2,091	-	-	-
Pennsylvania.....	5	2,002	1,097	1	68	85	17	2,750	-	-	-
EAST NORTH CENTRAL.....	22	9,835	2,283	6	226	331	272	20,800	-	-	2
Ohio.....	1	3,812	386	-	86	124	25	3,685	-	-	-
Indiana*.....	1	273	467	-	19	39	28	1,860	-	-	-
Illinois.....	5	3,064	550	4	56	49	4	1,762	-	-	-
Michigan.....	9	1,742	294	2	55	95	45	5,049	-	-	1
Wisconsin.....	6	944	586	-	10	24	170	8,444	-	-	1
WEST NORTH CENTRAL.....	1	3,871	564	4	101	122	33	3,852	-	-	1
Minnesota*.....	-	38	8	2	15	26	5	364	-	-	-
Iowa.....	1	1,148	332	-	12	18	16	2,344	-	-	-
Missouri.....	-	1,275	28	-	56	51	3	278	-	-	1
North Dakota.....	-	319	15	-	5	1	5	294	-	-	-
South Dakota.....	-	96	3	1	1	1	-	40	-	-	-
Nebraska.....	-	927	171	1	7	9	-	388	-	-	-
Kansas.....	-	68	7	-	5	16	4	144	-	-	-
SOUTH ATLANTIC.....	13	7,196	2,546	5	388	415	67	8,893	-	-	1
Delaware.....	-	261	384	-	3	10	3	312	-	-	-
Maryland.....	-	1,376	77	-	40	39	5	951	-	-	-
Dist. of Columbia....	-	343	25	-	3	9	-	188	-	-	-
Virginia.....	4	1,989	884	1	41	53	12	2,029	-	-	-
West Virginia.....	2	317	201	-	10	18	29	2,167	-	-	1
North Carolina.....	3	872	316	1	79	70	NN	NN	-	-	-
South Carolina.....	-	595	120	-	44	56	1	872	-	-	-
Georgia.....	-	14	2	1	35	70	-	3	-	-	-
Florida.....	4	1,429	537	2	133	90	17	2,371	-	-	-
EAST SOUTH CENTRAL.....	12	1,356	113	2	141	148	42	4,486	-	-	-
Kentucky.....	10	781	66	-	48	51	6	1,594	-	-	-
Tennessee.....	-	383	17	-	59	56	33	2,578	-	-	-
Alabama.....	2	102	6	1	24	24	3	266	-	-	-
Mississippi.....	-	90	24	1	10	17	-	48	-	-	-
WEST SOUTH CENTRAL.....	49	7,661	4,600	3	259	325	56	7,427	3	3	18
Arkansas.....	-	30	16	-	22	31	-	119	-	-	-
Louisiana.....	4	108	120	1	63	86	-	29	-	-	-
Oklahoma.....	21	494	142	-	20	31	21	2,460	-	-	-
Texas.....	24	7,029	4,322	2	154	177	35	4,819	3	3	18
MOUNTAIN.....	15	1,550	895	3	44	46	33	3,539	1	1	1
Montana.....	-	62	18	-	1	8	5	737	-	-	-
Idaho.....	-	45	89	-	6	9	-	89	-	-	-
Wyoming.....	-	11	-	-	2	-	-	36	-	-	-
Colorado.....	-	183	141	1	16	8	17	1,145	1	1	1
New Mexico.....	15	220	263	-	1	6	4	682	-	-	-
Arizona.....	-	973	373	2	15	10	7	726	-	-	-
Utah.....	-	35	10	-	2	3	-	124	-	-	-
Nevada.....	-	21	1	-	1	2	-	-	-	-	-
PACIFIC.....	20	2,694	1,061	3	345	538	170	11,748	-	-	-
Washington.....	3	529	60	-	44	56	57	4,326	-	-	-
Oregon.....	-	233	198	-	25	18	9	1,024	-	-	-
California.....	16	1,608	754	3	273	443	89	4,858	-	-	-
Alaska.....	-	138	9	-	-	11	-	379	-	-	-
Hawaii.....	1	186	40	-	3	10	15	1,161	-	-	-
Puerto Rico.....	9	923	1,544	-	5	19	5	765	-	-	-
Virgin Islands.....	-	6	41	-	1	-	1	3	-	-	-

*Delayed reports: Measles: Minn. delete 9
Poliomyelitis, total: Ind. delete 1

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
FOR WEEKS ENDED
OCTOBER 3, 1970 AND SEPTEMBER 27, 1969 (39th 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.....	243	50,053	4	89	9	117	12	242	7	314	34	2,284
NEW ENGLAND.....	11	2,485	-	3	-	1	-	7	-	-	5	83
Maine.....	1	399	-	-	-	-	-	-	-	-	4	31
New Hampshire.....	1	151	-	-	-	-	-	-	-	-	-	1
Vermont.....	-	53	-	-	-	-	-	-	-	-	1	43
Massachusetts.....	6	1,202	-	2	-	1	-	5	-	-	-	4
Rhode Island.....	-	113	-	-	-	-	-	-	-	-	-	1
Connecticut.....	3	567	-	1	-	-	-	2	-	-	-	3
MIDDLE ATLANTIC.....	19	3,987	-	9	-	2	2	48	1	13	5	208
New York City.....	7	596	-	3	-	-	1	12	-	-	-	-
New York, Up-State..	6	441	-	2	-	1	1	18	-	6	3	194
New Jersey.....	1	855	-	3	-	-	-	10	1	4	-	-
Pennsylvania.....	5	2,095	-	1	-	1	-	8	-	3	2	14
EAST NORTH CENTRAL....	76	10,410	1	16	-	18	-	33	-	9	2	188
Ohio.....	3	2,034	-	1	-	2	-	10	-	8	-	44
Indiana.....	20	1,892	1	7	-	12	-	2	-	-	-	21
Illinois.....	4	1,698	-	4	-	2	-	8	-	1	-	57
Michigan.....	25	2,705	-	4	-	-	-	11	-	-	1	21
Wisconsin.....	24	2,081	-	-	-	2	-	2	-	-	1	45
WEST NORTH CENTRAL....	7	3,297	-	4	3	29	1	8	-	4	7	433
Minnesota.....	-	118	-	1	-	1	-	1	-	-	-	94
Iowa.....	1	2,004	-	1	-	-	-	1	-	1	4	81
Missouri.....	3	419	-	1	3	25	1	2	-	3	2	82
North Dakota.....	2	151	-	-	-	1	-	2	-	-	1	30
South Dakota.....	-	1	-	1	-	1	-	-	-	-	-	60
Nebraska.....	1	555	-	-	-	-	-	2	-	-	-	6
Kansas.....	-	49	-	-	-	1	-	-	-	-	-	80
SOUTH ATLANTIC.....	19	6,315	2	25	-	10	4	34	6	212	2	461
Delaware.....	-	44	-	-	-	-	-	-	-	4	-	-
Maryland.....	1	320	-	-	-	-	-	9	1	21	-	1
Dist. of Columbia...	-	19	-	1	-	-	-	1	-	-	-	-
Virginia.....	1	715	-	1	-	2	4	8	2	56	2	190
West Virginia.....	10	1,314	-	-	-	-	-	-	-	5	-	118
North Carolina.....	-	43	-	3	-	4	-	2	3	83	-	1
South Carolina.....	4	650	-	1	-	-	-	-	-	35	-	-
Georgia.....	-	-	1	6	-	3	-	8	-	8	-	85
Florida.....	3	3,210	1	13	-	1	-	6	-	-	-	66
EAST SOUTH CENTRAL....	23	2,682	1	10	1	7	1	33	-	35	3	185
Kentucky.....	-	931	-	1	1	2	-	8	-	3	2	100
Tennessee.....	19	1,385	1	4	-	5	1	16	-	22	1	52
Alabama.....	4	287	-	5	-	-	-	8	-	7	-	32
Mississippi.....	-	79	-	-	-	-	-	1	-	3	-	1
WEST SOUTH CENTRAL....	22	8,843	-	13	5	32	1	22	-	34	2	387
Arkansas.....	-	34	-	3	4	15	1	6	-	6	2	67
Louisiana.....	-	150	-	3	1	5	-	3	-	1	-	56
Oklahoma.....	-	811	-	-	-	9	-	1	-	22	-	81
Texas.....	22	7,848	-	7	-	3	-	12	-	5	-	183
MOUNTAIN.....	8	2,005	-	-	-	11	1	14	-	6	-	74
Montana.....	-	316	-	-	-	1	-	1	-	1	-	1
Idaho.....	-	195	-	-	-	-	-	-	-	2	-	-
Wyoming.....	-	134	-	-	-	-	1	2	-	1	-	3
Colorado.....	4	398	-	-	-	-	-	3	-	2	-	34
New Mexico.....	1	212	-	-	-	-	-	6	-	-	-	11
Arizona.....	3	588	-	-	-	-	-	1	-	-	-	12
Utah.....	-	162	-	-	-	10	-	1	-	-	-	3
Nevada.....	-	-	-	-	-	-	-	-	-	-	-	10
PACIFIC.....	58	10,029	-	9	-	7	2	43	-	1	8	265
Washington.....	18	4,640	-	2	-	2	-	4	-	-	-	9
Oregon.....	15	861	-	3	-	1	-	1	-	-	1	3
California.....	22	4,221	-	4	-	4	2	35	-	1	7	253
Alaska.....	-	98	-	-	-	-	-	2	-	-	-	-
Hawaii.....	3	209	-	-	-	-	-	1	-	-	-	-
Puerto Rico.....	-	27	1	10	-	-	-	4	-	-	-	41
Virgin Islands.....	-	1	-	-	-	-	-	1	-	-	-	-

Morbidity and Mortality Weekly Report

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 TABLE IV. DEATHS IN 122 UNITED STATES CITIES FOR WEEK ENDED OCTOBER 3, 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:	711	432	38	33	SOUTH ATLANTIC:	1,175	585	63	55
Boston, Mass.-----	234	131	8	6	Atlanta, Ga.-----	140	63	7	6
Bridgeport, Conn.-----	35	21	3	—	Baltimore, Md.-----	225	112	7	11
Cambridge, Mass.-----	31	24	7	1	Charlotte, N. C.-----	58	26	—	4
Fall River, Mass.-----	37	22	3	4	Jacksonville, Fla.-----	65	29	—	4
Hartford, Conn.-----	64	36	1	6	Miami, Fla.-----	113	65	6	3
Lowell, Mass.-----	16	10	—	1	Norfolk, Va.-----	53	21	5	3
Lynn, Mass.-----	24	15	—	4	Richmond, Va.-----	71	38	7	3
New Bedford, Mass.-----	25	16	—	1	Savannah, Ga.-----	30	15	8	—
New Haven, Conn.-----	40	23	1	3	St. Petersburg, Fla.-----	90	64	6	1
Providence, R. I.-----	60	36	8	4	Tampa, Fla.-----	60	34	6	4
Somerville, Mass.-----	9	6	—	—	Washington, D. C.-----	204	85	8	9
Springfield, Mass.-----	52	34	1	2	Wilmington, Del.-----	66	33	3	7
Waterbury, Conn.-----	34	25	—	—					
Worcester, Mass.-----	50	33	6	1	EAST SOUTH CENTRAL:	642	350	26	41
MIDDLE ATLANTIC:	3,198	1,834	114	161	Birmingham, Ala.-----	87	46	1	5
Albany, N. Y.-----	54	34	2	2	Chattanooga, Tenn.-----	56	33	3	6
Allentown, Pa.-----	33	21	4	1	Knoxville, Tenn.-----	55	31	7	1
Buffalo, N. Y.-----	137	76	2	4	Louisville, Ky.-----	106	62	5	4
Camden, N. J.-----	42	26	1	2	Memphis, Tenn.-----	139	70	4	6
Elizabeth, N. J.-----	26	18	—	—	Mobile, Ala.-----	53	31	2	6
Erie, Pa.-----	38	23	5	4	Montgomery, Ala.-----	29	14	3	4
Jersey City, N. J.-----	67	44	4	2	Nashville, Tenn.-----	117	63	1	9
Newark, N. J.-----	108	47	5	29	WEST SOUTH CENTRAL:	1,223	626	34	99
New York City, N. Y.+	1,650	932	58	70	Austin, Tex.-----	60	26	4	8
Paterson, N. J.-----	48	20	3	3	Baton Rouge, La.-----	48	32	1	1
Philadelphia, Pa.-----	402	225	6	22	Corpus Christi, Tex.-----	34	19	—	4
Pittsburgh, Pa.-----	185	82	5	15	Dallas, Tex.-----	150	74	—	8
Reading, Pa.-----	54	42	3	1	El Paso, Tex.-----	51	19	2	12
Rochester, N. Y.-----	131	89	7	3	Fort Worth, Tex.-----	67	42	1	5
Schenectady, N. Y.-----	16	9	1	—	Houston, Tex.-----	221	99	2	19
Scranton, Pa.-----	36	22	2	1	Little Rock, Ark.-----	70	36	9	4
Syracuse, N. Y.-----	74	57	2	—	New Orleans, La.-----	146	74	1	14
Trenton, N. J.-----	43	31	3	1	Oklahoma City, Okla.-----	100	52	3	8
Utica, N. Y.-----	20	13	—	—	San Antonio, Tex.-----	134	69	3	7
Yonkers, N. Y.-----	34	23	1	1	Shreveport, La.-----	59	32	1	2
					Tulsa, Okla.-----	83	52	7	7
EAST NORTH CENTRAL:	2,439	1,381	78	116	MOUNTAIN:	435	242	17	18
Akron, Ohio-----	67	35	—	4	Albuquerque, N. Mex.-----	39	20	3	1
Canton, Ohio-----	28	18	3	2	Colorado Springs, Colo.-----	29	17	4	5
Chicago, Ill.-----	706	380	22	33	Denver, Colo.-----	108	64	4	5
Cincinnati, Ohio-----	150	91	6	4	Ogden, Utah-----	13	7	1	—
Cleveland, Ohio-----	174	79	1	9	Phoenix, Ariz.-----	102	56	—	2
Columbus, Ohio-----	138	73	11	7	Pueblo, Colo.-----	17	9	2	1
Dayton, Ohio-----	71	41	2	6	Salt Lake City, Utah-----	65	32	2	3
Detroit, Mich.-----	324	171	7	19	Tucson, Ariz.-----	62	37	1	1
Evansville, Ind.-----	37	29	1	1	PACIFIC:	1,742	1,077	41	59
Flint, Mich.-----	42	21	1	3	Berkeley, Calif.-----	19	16	—	—
Fort Wayne, Ind.-----	40	29	2	1	Fresno, Calif.-----	52	28	4	2
Gary, Ind.-----	29	13	3	—	Glendale, Calif.-----	42	36	1	—
Grand Rapids, Mich.-----	41	27	2	—	Honolulu, Hawaii-----	52	28	1	1
Indianapolis, Ind.-----	161	99	2	4	Long Beach, Calif.-----	116	65	5	4
Madison, Wis.-----	32	17	3	3	Los Angeles, Calif.-----	536	317	10	15
Milwaukee, Wis.-----	132	80	2	5	Oakland, Calif.-----	64	39	1	2
Peoria, Ill.-----	37	26	—	4	Pasadena, Calif.-----	30	16	1	1
Rockford, Ill.-----	34	24	4	2	Portland, Ore.-----	145	97	4	8
South Bend, Ind.-----	29	19	2	2	Sacramento, Calif.-----	54	28	—	3
Toledo, Ohio-----	97	63	3	7	San Diego, Calif.-----	120	70	1	8
Youngstown, Ohio-----	70	46	1	—	San Francisco, Calif.-----	195	126	3	2
WEST NORTH CENTRAL:	803	471	30	44	San Jose, Calif.-----	52	37	—	3
Des Moines, Iowa-----	45	25	2	3	Seattle, Wash.-----	156	97	3	8
Duluth, Minn.-----	17	11	2	—	Spokane, Wash.-----	68	51	6	1
Kansas City, Kans.-----	38	17	6	5	Tacoma, Wash.-----	41	26	1	1
Kansas City, Mo.-----	135	82	3	5					
Lincoln, Nebr.-----	28	13	2	—	Total	4,744	12,368	6,998	441
Minneapolis, Minn.-----	89	61	4	5	Expected Number	12,155	6,900	394	542
Omaha, Nebr.-----	83	45	—	6	Cumulative Total				
St. Louis, Mo.-----	228	126	5	14	(includes reported corrections for previous weeks)	502,372	286,447	19,676	23,901
St. Paul, Minn.-----	87	58	3	4					
Wichita, Kans.-----	53	33	3	2					
Las Vegas, Nev.*	14	3	2	—					

*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.

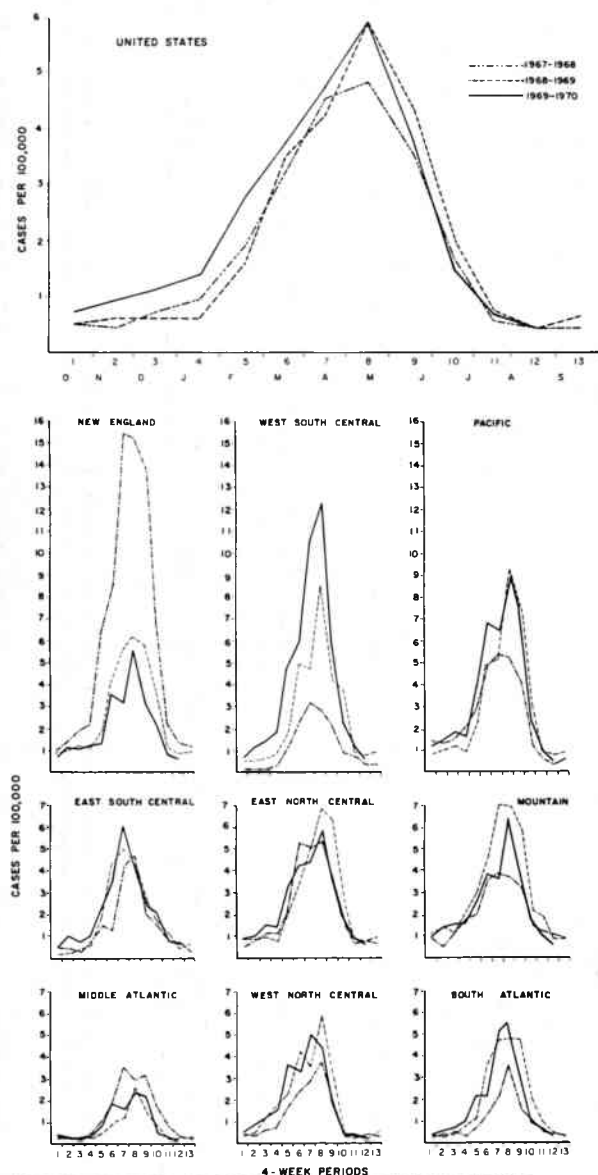
+ Delayed Report for week ended September 26, 1970

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In the article "Surveillance Summary, Rubella—United States," the abscissa in Figure 3 was incorrect. The corrected figure is shown below. In addition, in the corrected figure, data for 1969-1970 have been plotted through August 1970; in the earlier figure data for 1969-1970 were plotted only through March 1970.

Figure 3

RUBELLA CASE RATES, BY 4-WEEK PERIODS EPIDEMIOLOGIC YEARS*, 1967-68; 1968-69; 1969-70



*THE RUBELLA EPIDEMIOLOGIC YEAR IS THE 52 WEEKS BEGINNING WITH THE FIRST REPORTING WEEK IN OCTOBER

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

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

CENTER FOR DISEASE CONTROL
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 CDC 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.

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