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Vol. 23, No. 17

WEEKLY
REPORT

For
Week Ending
April 27, 1974

Morbidity and Mortality

U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE PUBLIC HEALTH SERVICE
DATE OF RELEASE: MAY 3, 1974 - ATLANTA, GEORGIA 30333

EPIDEMIOLOGIC NOTES AND REPORTS
FOLLOW-UP ON CUTANEOUS ANTHRAX ACQUIRED
FROM IMPORTED HAITIAN DRUMS - Florida

Since last week's article on cutaneous anthrax acquired from imported Haitian drums (MMWR Vol. 23, No. 16), 130 items recently imported from Haiti made in whole or part of goat skin have had a preliminary screening at CDC for contamination with *Bacillus anthracis*. Six of 124 drums, 2 of 2 rugs, 0 of 2 purses, and 0 of 2 mosaic pictures were contaminated. Because examination of these items is still incomplete, the true contamination rate may be higher. As noted last week, 3 of 7 drums purchased in Haiti by the Florida patient in late 1973 were also contaminated.

Despite the fact that both rugs examined to date appear to have undergone some type of tanning process, they

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were contaminated with *B. anthracis*. Therefore, any Haitian product made in whole or part of goat skin with attached hair should be considered potentially contaminated regardless of the type of processing in Haiti.

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

DISEASE	17th WEEK ENDING		MEDIAN 1969-1973	CUMULATIVE, FIRST 17 WEEKS		
	April 27, 1974	April 28, 1973		1974	1973	MEDIAN 1969-1973
Aseptic meningitis	31	34	34	556	623	552
Brucellosis	5	10	6	39	43	43
Chickenpox	3,339	5,990	---	63,173	96,652	---
Diphtheria	14	-	2	89	67	61
Encephalitis:						
Primary: Arthropod-borne and unspecified	16	28	24	280	325	333
Post-Infectious	7	8	8	69	75	91
Hepatitis, Viral:						
Type B	162	149	149	2,932	2,446	2,446
Type A	803	1,077	1,083	14,405	16,813	18,500
Type unspecified	211			2,834		
Malaria	3	2	47	49	70	800
Measles (rubeola)	851	1,229	1,229	10,770	14,325	15,345
Meningococcal infections, total	26	34	48	570	583	1,152
Civilian	21	34	47	552	568	985
Military	5	-	1	18	15	121
Mumps	1,282	2,302	2,928	27,724	34,285	41,854
Pertussis	13	-	-	411	-	-
Rubella (German measles)	421	1,582	1,862	5,318	16,038	22,779
Tetanus	-	4	2	14	22	24
Tuberculosis, new active	691	680	---	9,694	10,182	---
Tularemia	3	-	-	31	20	30
Typhoid fever	6	7	7	103	297	79
Typhus, tick-borne (Rky. Mt. spotted fever)	7	3	3	26	16	11
Venereal Diseases:						
Gonorrhea	15,729	16,671	---	270,576	247,809	---
Syphilis, primary and secondary	435	504	---	7,698	8,213	---
Rabies in animals	56	94	94	887	1,180	1,319

TABLE II. NOTIFIABLE DISEASES OF LOW FREQUENCY

	Cum.		Cum.
Anthrax:	2	Poliomyelitis, total:	2
Botulism:	3	Paralytic:	2
Congenital rubella syndrome:	26	Psittacosis: Fla. 1	7
Leprosy: * Calif. 4	45	Rabies in man:	-
Leptospirosis: *	17	Trichinosis:	43
Plague:	-	Typhus, murine:	7

*Delayed reports: Leprosy: Texas 2
Leptospirosis: Va. delete 1

ANTHRAX – Continued

Persons who have recently purchased such items are advised to turn them in to their local or state health departments for appropriate disposal. CDC also recommends that state and local health departments request retail and wholesale outlets in their jurisdiction to turn such items in to the

health department. Recommendations for appropriate disposal of items suspected to be contaminated with *B. anthracis* have been sent to state health departments and are also available from CDC.

(Reported by the Bacterial Diseases Division, and the Quarantine Division, Bureau of Epidemiology, CDC.)

**CURRENT TRENDS
PRIMARY AND SECONDARY SYPHILIS – United States, February 1974**

In February 1974, provisionally reported cases of primary and secondary syphilis in the United States decreased 0.1% from the number reported in February 1973. Infectious syphilis cases have decreased 2.0% in the 8-month period, July 1973–February 1974, compared with the same period in the previous year.

Eleven of a total of 59 reporting areas reported an increase of 40 or more cases in the 8-month period, July 1973–February 1974, compared with the same period in the previous year.

(Reported by the Venereal Disease Control Division, Bureau of State Services, CDC.)

SUMMARY OF REPORTED CASES OF INFECTIOUS SYPHILIS

CASES OF PRIMARY AND SECONDARY SYPHILIS: By Reporting Area: February 1974 and February 1973 – Provisional Data

Reporting Area	February		Calendar Year Cumulative January–February		Reporting Area	February		Calendar Year Cumulative January–February	
	1974	1973	1974	1973		1974	1973	1974	1973
Connecticut	22	23	34	46	Arkansas	10	19	23	29
Maine	4	3	5	4	Louisiana	50	80	109	139
Massachusetts	50	67	112	147	New Mexico	5	7	10	15
New Hampshire	2	2	3	4	Oklahoma	10	24	25	37
Rhode Island	1	2	3	3	Texas	111	138	211	260
Vermont	0	3	0	6	DHEW REGION VI TOTAL	186	268	378	480
DHEW REGION I TOTAL	79	100	157	210	Iowa	1	2	9	4
New Jersey	60	70	134	155	Kansas	8	9	13	10
New York (Excluding NYC)	44	35	96	73	Missouri	27	2	43	16
New York City	286	192	570	512	Nebraska	1	0	1	1
DHEW REGION II TOTAL	390	297	800	740	DHEW REGION VII TOTAL	37	13	66	31
Delaware	4	7	19	15	Colorado	7	21	19	50
District of Columbia	70	65	117	127	Montana	0	0	0	0
Maryland (Excluding Baltimore)	14	23	39	45	North Dakota	0	0	0	0
Baltimore	36	43	74	97	South Dakota	1	0	1	1
Pennsylvania (Excluding Philadelphia)	13	23	29	46	Utah	1	2	5	2
Philadelphia	45	35	102	73	Wyoming	1	0	1	0
Virginia	59	40	157	112	DHEW REGION VIII TOTAL	10	23	26	53
West Virginia	0	0	3	2	Arizona	15	14	41	37
DHEW REGION III TOTAL	241	236	540	517	California (Excluding LA and SF)	91	75	219	172
Alabama	21	11	43	22	Los Angeles*	150	177	357	400
Florida	180	126	350	248	San Francisco*	62	52	135	112
Georgia (Excluding Atlanta)	88	79	153	147	Hawaii	6	4	8	11
Atlanta*	33	61	69	100	Nevada	3	3	14	9
Kentucky	29	35	50	76	DHEW REGION IX TOTAL	327	325	774	741
Mississippi	25	46	47	77	Alaska	0	1	0	2
North Carolina	87	46	142	111	Idaho	1	0	1	2
South Carolina	47	77	118	108	Oregon	5	5	15	10
Tennessee	25	29	69	60	Washington	12	7	27	31
DHEW REGION IV TOTAL	535	510	1,041	949	DHEW REGION X TOTAL	18	13	43	45
Illinois (Excluding Chicago)	25	21	43	38	UNITED STATES TOTAL	2,004	2,007	4,173	4,192
Chicago*	73	92	129	163	Puerto Rico	89	65	164	135
Indiana (Excluding Indianapolis)	14	16	30	33	Virgin Islands	0	2	0	7
Indianapolis*	3	5	8	19					
Michigan	33	42	69	91					
Minnesota	3	7	7	17					
Ohio	20	33	43	47					
Wisconsin	10	6	19	18					
DHEW REGION V TOTAL	181	222	348	426					

Note: Cumulative totals include revised and delayed reports through previous months.
Source: HSM 9.98 CDC, VD Control Division, Atlanta, Ga. 30333

*County Data

ZOSTER IMMUNE GLOBULIN PROGRAM

The Zoster Immune Globulin (ZIG) supply for spring 1974 has been exhausted. For the next 3 months, CDC will be collecting zoster convalescent plasma in preparation for the fractionation of the next lot of ZIG. Plasma should be collected from adults, otherwise in good health, from 14 to

35 days after the onset of the shingles (herpes zoster) rash; it will not be necessary to pre-titer a serum sample before plasma donation as in the past. Further information may be obtained from the Immunization Division, CDC.

(Reported by the Immunization Division, CDC.)

Morbidity and Mortality Weekly Report

**TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
FOR WEEKS ENDING APRIL 27, 1974 AND APRIL 28, 1973 (17th WEEK)**

AREA	ASEPTIC MENIN- GITIS	BRUCEL- LOSIS	CHICKEN- POX	DIPHTHERIA		ENCEPHALITIS			HEPATITIS, VIRAL			MALARIA	
						Primary: Arthropod- borne and Unspecified		Post In- fectious	Type B	Type A	Type Unspecified		
						1974	1973	1974	1974	1974	1974		
UNITED STATES	31	5	3,339	14	Cum. 1974 89	16	28	7	162	803	211	3	49
NEW ENGLAND	2	-	314	-	-	-	-	1	3	22	19	-	3
Maine *	-	-	9	-	-	-	-	-	-	-	-	-	-
New Hampshire *	-	-	69	-	-	-	-	-	-	1	-	-	-
Vermont	-	-	24	-	-	-	-	-	-	3	-	-	-
Massachusetts	1	-	132	-	-	-	-	-	1	7	19	-	1
Rhode Island	1	-	80	-	-	-	-	1	-	3	-	-	2
Connecticut	-	-	-	-	-	-	-	-	2	8	-	-	-
MIDDLE ATLANTIC	-	-	313	-	-	4	2	1	24	103	25	1	6
Upstate New York	-	-	139	-	-	-	-	1	6	49	1	1	3
New York City	-	-	166	-	-	3	1	-	3	8	-	-	2
New Jersey*	-	-	NN	-	-	-	-	-	8	21	21	-	-
Pennsylvania*	-	-	8	-	-	1	1	-	7	25	3	-	1
EAST NORTH CENTRAL	9	-	1,453	-	-	4	15	3	35	205	21	1	5
Ohio	2	-	187	-	-	1	7	1	2	25	-	-	3
Indiana	1	-	210	-	-	-	-	-	1	22	-	-	-
Illinois	-	-	-	-	-	1	5	1	9	80	19	-	1
Michigan	4	-	496	-	-	2	2	1	18	65	2	1	1
Wisconsin	2	-	560	-	-	-	1	-	5	13	-	-	-
WEST NORTH CENTRAL	5	1	473	-	-	1	-	-	6	20	20	-	2
Minnesota	-	-	37	-	-	-	-	-	3	3	1	-	-
Iowa	3	1	275	-	-	1	-	-	3	3	2	-	-
Missouri	2	-	66	-	-	-	-	-	-	1	11	-	1
North Dakota	-	-	56	-	-	-	-	-	-	-	1	-	-
South Dakota	-	-	3	-	-	-	-	-	-	1	-	-	1
Nebraska	-	-	6	-	-	-	-	-	-	4	1	-	-
Kansas	-	-	30	-	-	-	-	-	-	8	4	-	-
SOUTH ATLANTIC	2	-	326	-	-	1	-	-	10	128	23	1	9
Delaware	-	-	5	-	-	-	-	-	-	-	-	-	-
Maryland	1	-	17	-	-	-	-	-	2	7	3	-	1
District of Columbia	-	-	-	-	-	-	-	-	-	-	-	-	2
Virginia	-	-	32	-	-	-	-	-	-	13	-	-	2
West Virginia	-	-	213	-	-	-	-	-	-	3	-	-	-
North Carolina	-	-	NN	-	-	-	-	-	3	13	4	-	1
South Carolina	-	-	50	-	-	1	-	-	2	7	1	-	-
Georgia	-	-	9	-	-	-	-	-	-	18	-	-	-
Florida	1	-	-	-	-	-	-	-	3	67	15	1	3
EAST SOUTH CENTRAL	1	2	48	-	-	-	3	1	11	88	44	-	2
Kentucky	-	-	24	-	-	-	1	-	2	21	41	-	2
Tennessee	1	-	-	-	-	-	-	1	6	50	-	-	-
Alabama	-	-	21	-	-	-	2	-	3	3	3	-	-
Mississippi	-	2	3	-	-	-	-	-	-	14	-	-	-
WEST SOUTH CENTRAL	1	-	50	-	8	2	-	-	7	31	8	-	3
Arkansas	-	-	6	-	-	-	-	-	-	14	2	-	-
Louisiana	1	-	NN	-	-	2	-	-	7	8	4	-	1
Oklahoma	-	-	44	-	-	-	-	-	-	9	2	-	1
Texas *	---	---	---	---	8	---	---	---	---	---	---	---	1
MOUNTAIN	-	-	94	2	11	1	1	-	7	47	17	-	2
Montana	-	-	45	-	-	1	-	-	2	2	-	-	-
Idaho	-	-	-	-	-	-	1	-	-	1	-	-	-
Wyoming	-	-	-	-	-	-	-	-	-	-	-	-	-
Colorado *	-	-	22	-	-	-	-	-	1	3	8	-	1
New Mexico	-	-	26	-	6	-	-	-	-	13	-	-	-
Arizona	-	-	-	2	5	-	-	-	2	18	6	-	-
Utah	-	-	1	-	-	-	-	-	1	6	3	-	-
Nevada	-	-	-	-	-	-	-	-	1	4	-	-	-
PACIFIC	11	2	268	12	70	3	7	1	59	159	34	-	17
Washington	-	-	233	11	63	-	-	-	7	21	7	-	-
Oregon	-	-	1	-	-	-	-	-	3	18	4	-	-
California *	10	1	-	-	4	3	7	1	41	109	20	-	17
Alaska	-	1	6	1	3	-	-	-	2	2	1	-	-
Hawaii	1	-	28	-	-	-	-	-	6	9	2	-	-
Guam *	-	-	-	-	-	-	-	-	-	-	-	-	1
Puerto Rico	-	-	27	-	-	-	-	-	-	-	11	-	-
Virgin Islands	-	-	15	-	-	-	-	-	-	-	-	-	-

*Delayed reports: Aseptic Meningitis: Texas 1, Col. delete 1; (1973) N.J. 1
 Chickenpox: Me. 13, N.H. 9, Texas 262, Calif. 134
 Encephalitis, primary: Texas 2; (1973) N.J. 1

Hepatitis B: Texas 6, Guam 3
 Hepatitis A: Me. 6, N.H. 2, Texas 82, Guam 8; (1973) Penn. 2

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TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
FOR WEEKS ENDING APRIL 27, 1974 AND APRIL 28, 1973 (17th WEEK) - Continued

AREA	MEASLES (Rubeola)			MENINGOCOCCAL INFECTIONS, TOTAL			MUMPS		PERTUSSIS	RUBELLA		TETANUS
	1974	Cumulative		1974	Cumulative		1974	Cum. 1974	1974	1974	Cum. 1974	Cum. 1974
		1974	1973		1974	1973						
UNITED STATES	851	10,770	14,325	26	570	583	1,282	27,724	13	421	5,318	14
NEW ENGLAND	35	526	5,241	--	33	27	105	3,848	2	32	492	--
Maine *	--	24	18	--	1	--	9	618	--	11	132	--
New Hampshire*	--	194	800	--	6	4	--	177	--	1	13	--
Vermont	6	37	83	--	1	2	2	13	--	2	11	--
Massachusetts	17	163	2,825	--	9	11	20	612	--	10	189	--
Rhode Island	5	58	301	--	6	1	61	1,340	--	--	15	--
Connecticut	7	50	1,214	--	10	9	13	1,088	2	8	132	--
MIDDLE ATLANTIC	386	4,189	1,102	--	69	85	101	2,109	--	34	561	1
Upstate New York	14	81	282	--	31	30	23	457	--	6	125	--
New York City	18	229	582	--	12	15	20	305	--	5	68	--
New Jersey	311	3,438	127	--	21	20	14	446	--	14	241	1
Pennsylvania	43	441	111	--	5	20	44	901	--	9	127	--
EAST NORTH CENTRAL	309	4,201	4,568	5	66	66	371	8,098	--	175	1,650	1
Ohio *	129	1,843	195	--	20	31	58	2,130	--	7	216	--
Indiana	10	127	394	1	7	1	38	615	--	10	342	--
Illinois	69	808	1,035	2	9	12	19	689	--	12	199	--
Michigan	71	1,203	2,276	1	19	18	176	3,456	--	138	648	1
Wisconsin	30	220	668	1	11	4	80	1,208	--	8	245	--
WEST NORTH CENTRAL	9	354	272	2	40	47	85	2,019	--	5	135	3
Minnesota	--	76	14	1	15	--	--	27	--	1	6	--
Iowa	--	8	183	1	6	7	48	1,338	--	1	12	--
Missouri	--	115	22	--	10	25	14	294	--	1	24	2
North Dakota	--	24	29	--	1	3	--	12	--	1	8	--
South Dakota	1	23	--	--	2	3	--	2	--	--	25	--
Nebraska	--	2	1	--	1	4	3	61	--	1	6	--
Kansas	8	106	23	--	5	5	20	285	--	--	54	1
SOUTH ATLANTIC	15	324	817	7	112	98	235	3,427	1	48	594	4
Delaware	2	5	4	--	3	1	3	47	--	--	11	--
Maryland	--	21	--	--	13	16	8	60	--	--	--	--
District of Columbia	--	2	--	--	--	1	1	35	--	--	1	--
Virginia*	--	12	343	2	17	14	34	262	1	1	19	2
West Virginia	9	86	129	--	4	2	125	1,990	--	8	100	--
North Carolina	--	2	4	1	25	19	NN	NN	--	--	43	--
South Carolina	3	31	37	1	11	7	11	65	--	38	308	--
Georgia	--	1	121	1	5	16	--	--	--	--	2	--
Florida	1	164	179	2	34	22	53	968	--	1	110	2
EAST SOUTH CENTRAL	7	67	445	2	60	55	172	2,847	--	30	308	2
Kentucky	6	52	315	--	27	23	44	1,117	--	15	103	--
Tennessee	--	1	103	2	28	19	82	1,369	--	7	145	1
Alabama	--	2	--	--	5	9	41	308	--	5	47	--
Mississippi	1	12	27	--	--	4	5	53	--	3	13	1
WEST SOUTH CENTRAL	1	104	493	5	112	90	36	1,833	1	19	160	1
Arkansas	--	4	59	--	8	11	2	113	--	--	7	--
Louisiana	--	7	53	5	22	18	21	118	1	18	28	--
Oklahoma	1	13	22	--	12	7	13	253	--	1	23	--
Texas*	---	80	359	---	70	54	---	1,349	---	---	102	1
MOUNTAIN	36	451	335	--	13	14	16	725	--	2	216	--
Montana	1	214	12	--	1	3	--	121	--	--	60	--
Idaho	1	47	158	--	1	1	--	142	--	--	11	--
Wyoming	--	3	10	--	2	--	--	4	--	--	--	--
Colorado	--	25	55	--	2	2	15	319	--	1	76	--
New Mexico	--	40	90	--	2	1	1	134	--	1	37	--
Arizona	--	10	9	--	3	4	--	--	--	--	--	--
Utah	--	--	1	--	1	1	--	3	--	--	9	--
Nevada	34	112	--	--	1	2	--	2	--	--	23	--
PACIFIC	53	554	1,052	5	65	101	161	2,818	9	76	1,202	2
Washington	4	39	419	--	7	7	66	1,043	4	5	230	--
Oregon	--	--	282	1	8	8	28	560	1	12	164	--
California	23	468	344	4	45	83	67	1,123	4	59	797	2
Alaska	--	--	--	--	2	3	--	63	--	--	--	--
Hawaii	26	47	7	--	3	--	--	29	--	--	11	--
Guam *	--	4	3	--	1	--	--	197	--	--	1	--
Puerto Rico	9	298	973	--	1	4	23	865	2	--	9	1
Virgin Islands	2	10	--	--	--	--	4	20	--	--	--	1

*Delayed reports: Measles: Texas 4 Pertussis: Texas delete 11
Meningococcal Infection: N.H. 2, Ohio 1 Rubella: Me. 10, Va. delete 2, Texas 2
Mumps: N.H. 2, Texas 79, Guam 15

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES FOR WEEKS ENDING APRIL 27, 1974 AND APRIL 28, 1973 (17th WEEK) - Continued

AREA	TUBERCULOSIS (New Active)		TULA- REMI- A	TYPHOID FEVER		TYPHUS-FEVER TICK- BORNE (Rky. Mt. spotted fever)		VENEREAL DISEASES						RABIES IN ANIMALS
	1974	Cum. 1974		Cum. 1974	1974	Cum. 1974	1974	Cum. 1974	GONORRHEA		SYPHILIS (Pri. & Sec.)		Cum. 1974	
			1974						Cumulative		1974	Cumulative		
									1974	1973		1974		1974
UNITED STATES	691	9,694	31	6	103	7	26	15,729	270,576	247,809	435	7,698	8,213	887
NEW ENGLAND	40	437	-	-	5	-	-	402	6,237	6,798	9	149	238	5
Maine *	1	30	-	-	-	-	-	29	517	363	-	11	9	1
New Hampshire	2	13	-	-	1	-	-	10	216	233	1	5	4	1
Vermont	1	4	-	-	-	-	-	13	214	83	-	1	8	-
Massachusetts	25	259	-	-	2	-	-	195	2,348	3,260	3	62	121	1
Rhode Island	9	45	-	-	2	-	-	37	600	725	1	5	6	2
Connecticut	2	86	-	-	-	-	-	118	2,342	2,134	4	65	90	-
MIDDLE ATLANTIC	201	1,664	1	-	18	-	9	1,177	32,766	32,332	96	1,692	1,843	4
Upstate New York	13	184	1	-	3	-	-	110	6,248	7,082	10	164	95	2
New York City	65	647	-	-	13	-	-	882	14,064	13,768	67	999	1,167	-
New Jersey	22	337	-	-	2	-	-	185	4,663	4,228	19	267	321	-
Pennsylvania	101	496	-	-	-	-	9	---	7,791	7,254	---	262	260	2
EAST NORTH CENTRAL	57	1,244	4	2	8	-	-	2,932	36,871	29,116	47	469	471	54
Ohio	11	362	-	2	3	-	-	911	12,636	9,133	8	89	90	-
Indiana	10	192	-	-	-	-	-	310	3,865	3,374	4	67	112	3
Illinois	25	341	2	-	3	-	-	988	6,012	4,268	28	144	59	9
Michigan	11	349	-	-	2	-	-	531	10,225	9,259	5	132	177	1
Wisconsin	-	-	2	-	-	-	-	192	4,133	3,082	2	37	33	41
WEST NORTH CENTRAL	20	337	8	-	3	-	-	1,051	14,227	14,293	25	182	105	212
Minnesota	2	56	-	-	2	-	-	109	3,325	2,741	2	23	40	98
Iowa	2	36	-	-	-	-	-	276	2,023	1,884	-	12	11	43
Missouri	13	166	7	-	1	-	-	292	4,261	5,022	22	124	36	7
North Dakota	-	9	-	-	-	-	-	19	242	210	-	-	1	45
South Dakota	3	22	1	-	-	-	-	27	662	712	-	1	1	-
Nebraska	-	13	-	-	-	-	-	138	1,204	1,514	-	3	1	-
Kansas	-	35	-	-	-	-	-	190	2,510	2,210	1	19	15	19
SOUTH ATLANTIC	157	2,026	2	1	16	3	10	4,422	69,061	63,104	147	2,497	2,372	109
Delaware	-	29	-	-	-	-	-	59	959	878	4	31	26	-
Maryland	20	246	-	-	1	-	1	350	6,281	5,419	10	278	243	-
District of Columbia	4	127	-	-	-	-	-	271	5,172	5,402	6	212	263	-
Virginia	18	262	1	-	1	1	2	636	6,110	5,861	7	299	241	46
West Virginia	8	106	-	-	3	-	-	59	833	966	-	7	10	17
North Carolina *	19	326	1	-	1	-	2	510	8,985	9,335	21	269	197	5
South Carolina	22	209	-	-	-	2	2	466	7,852	6,712	24	324	362	2
Georgia	30	258	-	1	1	-	2	1,020	14,160	11,517	18	266	447	26
Florida	36	463	-	-	9	-	1	1,051	18,709	17,014	57	811	583	13
EAST SOUTH CENTRAL	57	888	7	-	13	1	1	1,553	23,559	21,574	26	405	585	116
Kentucky	13	194	1	-	7	-	-	138	2,873	2,597	6	86	245	77
Tennessee	14	278	4	-	4	1	1	495	9,057	7,861	9	161	148	27
Alabama	27	279	2	-	2	-	-	599	6,625	6,247	6	82	41	12
Mississippi	3	137	-	-	-	-	-	321	5,004	4,869	5	76	151	-
WEST SOUTH CENTRAL	24	1,242	6	-	8	2	3	929	37,679	33,380	20	776	952	234
Arkansas	10	170	2	-	1	-	-	131	3,537	4,689	-	41	60	33
Louisiana	6	146	1	-	1	-	-	572	8,256	6,818	14	226	263	8
Oklahoma	8	95	2	-	-	2	3	226	3,291	3,652	6	53	73	50
Texas *	---	831	1	---	6	---	---	---	22,595	18,221	---	456	556	143
MOUNTAIN	22	314	2	1	9	1	2	711	10,424	9,434	15	190	278	24
Montana	1	24	-	-	-	-	-	42	633	535	-	-	2	-
Idaho	1	13	-	-	-	-	-	34	618	568	1	3	5	-
Wyoming	-	9	1	-	2	1	1	27	214	141	-	4	11	3
Colorado*	4	50	-	-	-	-	1	167	2,974	2,542	5	40	89	-
New Mexico	1	70	1	-	1	-	-	88	1,410	1,535	3	32	26	11
Arizona	15	116	-	1	6	-	-	256	3,237	2,802	4	64	66	10
Utah	-	12	-	-	-	-	-	40	529	483	-	6	7	-
Nevada	-	20	-	-	-	-	-	57	809	828	2	41	72	-
PACIFIC	113	1,542	1	2	23	-	1	2,552	39,752	37,778	50	1,338	1,369	129
Washington	10	106	-	-	4	-	-	242	3,594	3,400	-	27	46	-
Oregon	7	62	-	-	-	-	1	200	3,400	3,409	2	27	28	8
California	90	1,224	1	2	19	-	-	1,964	30,964	29,308	47	1,269	1,232	115
Alaska	-	27	-	-	-	-	-	85	896	919	-	1	24	6
Hawaii	6	123	-	-	-	-	-	61	898	742	1	14	39	-
Guam *	-	13	-	-	-	-	-	-	72	106	-	-	-	-
Puerto Rico	-	191	-	-	1	-	-	38	891	1,373	19	297	249	22
Virgin Islands	-	-	-	-	-	-	-	5	92	65	1	11	7	-

*Delayed reports: Tuberculosis: N.C. delete 1, Col. 1, Texas 63
Typhoid: Texas 2
Gonorrhea: Me. 46, Texas 1263, Guam 11

Syphilis: Texas 31
Rabies: Texas 2

Week No.

TABLE IV. DEATHS IN 121 UNITED STATES CITIES FOR WEEK ENDING APRIL 27, 1974

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

Area	All Causes					Pneumonia and Influenza All Ages	Area	All Causes					Pneumonia and Influenza All Ages
	All Ages	65 years and over	45-64 years	25-44 years	Under 1 year			All Ages	65 years and over	45-64 years	25-44 years	Under 1 year	
NEW ENGLAND	737	507	155	36	16	44	SOUTH ATLANTIC	1,368	778	424	81	39	51
Boston, Mass.	238	154	53	12	7	13	Atlanta, Ga.	133	69	45	10	2	5
Bridgeport, Conn.	30	22	5	1	1	2	Baltimore, Md.	299	164	97	20	8	3
Cambridge, Mass.	20	15	3	-	2	3	Charlotte, N. C.	67	36	21	4	5	-
Fall River, Mass.	37	29	7	1	-	-	Jacksonville, Fla.	107	72	24	5	3	-
Hartford, Conn.	59	38	15	4	2	3	Miami, Fla.	86	46	32	3	1	8
Lowell, Mass.	32	24	7	1	-	2	Norfolk, Va.	71	39	19	5	5	6
Lynn, Mass.	21	13	4	4	-	2	Richmond, Va.	97	56	32	7	1	9
New Bedford, Mass.	19	16	3	-	-	1	Savannah, Ga.	41	21	14	1	2	2
New Haven, Conn.	52	32	15	2	1	-	St. Petersburg, Fla.	124	101	17	3	2	1
Providence, R. I.	68	45	14	4	1	10	Tampa, Fla.	80	45	21	6	3	9
Somerville, Mass.	16	13	3	-	-	-	Washington, D. C.	207	103	81	12	5	6
Springfield, Mass.	49	36	10	3	-	3	Wilmington, Del.	56	26	21	5	2	2
Waterbury, Conn.	35	25	7	1	-	1	EAST SOUTH CENTRAL	687	397	170	45	40	28
Worcester, Mass.	61	45	9	3	2	4	Birmingham, Ala.	111	61	32	9	5	1
MIDDLE ATLANTIC	3,211	2,036	806	191	76	136	Chattanooga, Tenn.	46	27	12	3	2	1
Albany, N. Y.	58	32	20	4	1	2	Knoxville, Tenn.	42	28	9	4	-	1
Allentown, Pa.	41	31	8	1	-	-	Louisville, Ky.	111	63	30	2	12	8
Buffalo, N. Y.	148	91	39	7	4	17	Memphis, Tenn.	167	97	39	9	13	5
Camden, N. J.	30	14	13	1	1	3	Mobile, Ala.	63	35	15	2	5	1
Elizabeth, N. J.	29	19	6	2	-	1	Montgomery, Ala.	30	20	4	3	1	2
Erie, Pa.	29	19	7	2	-	-	Nashville, Tenn.	117	66	29	13	2	9
Jersey City, N. J.	60	37	12	3	6	-	WEST SOUTH CENTRAL	1,136	626	348	78	37	45
Newark, N. J.	78	32	24	9	6	-	Austin, Tex.	42	22	12	4	1	4
New York City, N. Y.	1,551	997	360	105	34	63	Baton Rouge, La.	42	22	9	3	2	-
Paterson, N. J.	37	26	7	3	1	3	Corpus Christi, Tex.	21	12	7	1	-	2
Philadelphia, Pa.	500	305	144	26	13	7	Dallas, Tex.	179	95	61	11	6	4
Pittsburgh, Pa.	190	109	68	7	4	17	El Paso, Tex.	52	27	15	9	1	6
Reading, Pa.	34	27	5	2	-	-	Fort Worth, Tex.	81	55	16	3	4	-
Rochester, N. Y.	137	93	32	5	3	7	Houston, Tex.	301	146	103	24	16	11
Schenectady, N. Y.	28	20	6	1	-	3	Little Rock, Ark.	53	33	16	1	2	2
Scranton, Pa.	48	30	15	2	-	1	New Orleans, La.	120	58	41	13	2	1
Syracuse, N. Y.	104	72	25	3	2	3	San Antonio, Tex.	101	71	25	1	-	5
Trenton, N. J.	40	30	6	2	1	6	Shreveport, La.	78	46	25	4	-	6
Utica, N. Y.	33	26	3	3	-	2	Tulsa, Okla.	66	39	18	4	3	4
Yonkers, N. Y.	36	26	6	3	-	1	MOUNTAIN	617	352	171	34	23	35
EAST NORTH CENTRAL	2,633	1,552	717	160	94	81	Albuquerque, N. Mex.	66	30	23	3	4	13
Akron, Ohio	71	49	15	4	2	-	Colorado Springs, Colo.	35	15	8	5	1	2
Canton, Ohio	58	41	13	2	-	2	Denver, Colo.	150	92	41	11	1	9
Chicago, Ill.	691	382	199	56	28	17	Las Vegas, Nev.	27	11	11	4	-	-
Cincinnati, Ohio	182	107	50	8	5	7	Ogden, Utah	25	14	5	1	-	-
Cleveland, Ohio	199	118	56	15	5	6	Phoenix, Ariz.	157	84	53	7	5	3
Columbus, Ohio	137	72	44	6	8	4	Pueblo, Colo.	37	26	7	1	1	4
Dayton, Ohio	115	69	29	5	6	2	Salt Lake City, Utah	58	37	8	2	8	2
Detroit, Mich.	354	208	88	32	6	8	Tucson, Ariz.	62	43	15	-	3	2
Evansville, Ind.	45	38	7	-	1	3	PACIFIC	1,696	1,043	433	110	57	42
Fort Wayne, Ind.	54	38	13	2	1	3	Berkeley, Calif.	16	13	1	1	-	-
Gary, Ind.	28	13	8	2	3	3	Fresno, Calif.	46	26	11	2	5	-
Grand Rapids, Mich.	65	41	14	-	6	5	Glendale, Calif.	28	21	5	1	1	-
Indianapolis, Ind.	174	91	61	5	8	2	Honolulu, Hawaii	65	29	20	9	5	1
Madison, Wis.	30	15	7	2	3	5	Long Beach, Calif.	97	59	31	4	1	3
Milwaukee, Wis.	141	86	38	12	2	4	Los Angeles, Calif.	527	330	138	38	9	11
Peoria, Ill.	49	29	13	3	2	-	Oakland, Calif.	78	47	18	7	5	1
Rockford, Ill.	40	31	8	-	-	2	Pasadena, Calif.	38	29	8	1	-	-
South Bend, Ind.	34	18	10	1	1	5	Portland, Oreg.	138	94	29	6	4	3
Toledo, Ohio	100	71	20	2	4	1	Sacramento, Calif.	57	27	17	7	4	-
Youngstown, Ohio	66	35	24	3	4	2	San Diego, Calif.	135	76	38	10	3	4
WEST NORTH CENTRAL	796	503	202	35	31	31	San Francisco, Calif.	158	82	49	13	8	8
Des Moines, Iowa	60	45	10	3	1	1	San Jose, Calif.	64	46	12	2	-	1
Duluth, Minn.	36	27	6	3	-	6	Seattle, Wash.	142	86	34	6	11	6
Kansas City, Kans.	34	24	6	3	-	4	Spokane, Wash.	63	46	13	1	1	4
Kansas City, Mo.	130	85	32	3	3	-	Tacoma, Wash.	44	32	9	2	-	-
Lincoln, Nebr.	38	26	10	-	2	5	Total	12,881	7,794	3,426	770	413	493
Minneapolis, Minn.	76	52	14	3	6	3	Expected Number	12,181	7,135	3,334	799	420	401
Omaha, Nebr.	79	43	25	4	5	-							
St. Louis, Mo.	197	120	56	10	5	3							
St. Paul, Minn.	86	55	22	2	5	1							
Wichita, Kans.	60	26	21	4	4	8							

†Delayed report for week ending April 20, 1974

EPIDEMIOLOGIC NOTES AND REPORTS

PROBABLE STAPHYLOCOCCAL ENTEROTOXIN CONTAMINATION OF COMMERCIALY PRODUCED MILKSHAKE MIXES - Maryland, New Jersey, Pennsylvania, West Virginia

During the past 5 weeks, episodes of illness compatible with staphylococcal food poisoning related to consumption of milkshakes prepared from milkshake mixes produced by 2 independent Pennsylvania dairies have been reported to CDC.

During the last week in March, 1974, 9 separate episodes of acute gastrointestinal illness affecting at least 43 individuals were reported in Chester and York Counties in Pennsylvania. Food histories from ill individuals and members of their families incriminated milkshakes purchased from several restaurants; the milkshakes were prepared from a liquid milkshake mix made by a dairy (Dairy A) in eastern Pennsylvania (Table 1). The mix was distributed in eastern Pennsylvania and in small areas in northeastern Maryland and Delaware. The illness was characterized primarily by nausea and vomiting; the median incubation period was 6 hours, and the median duration of illness was 20 hours. Dairy A voluntarily recalled the implicated lots on March 30, and no complaints of illness following consumption of milkshakes made with this dairy's milkshake mix were reported after April 2.

Between April 18 and 23, 37 episodes of acute gastrointestinal illness affecting approximately 120 people were reported from Chester, Lackawanna, Delaware, Montgomery, Lehigh, and Philadelphia Counties in Pennsylvania; Camden, Gloucester, and Mercer Counties in New Jersey; Allegheny and Garrett Counties in Maryland; and Mineral and Hardy Counties in West Virginia. In addition, 2 individuals from New York became ill following consumption of milkshakes made from the same mix and purchased in Pennsylvania.

Food-specific attack rates from individuals in Pennsylvania, New Jersey, and Maryland implicated milkshakes prepared from a liquid mix made by another dairy (Dairy B) in central Pennsylvania (Table 1). Nausea and vomiting were the most frequent symptoms; diarrhea and abdominal cramps occurred less commonly (Table 2). The illness was characterized by a median incubation period of 5 to 6 hours and a duration of less than 12 hours. Dairy B distributed this milkshake mix to food service establishments in parts of Pennsylvania, New Jersey, Maryland, and West Virginia.

On April 23, Dairy B voluntarily recalled all milkshake mixes produced on April 21 or earlier. On April 26, this dairy recalled all of its milkshake mixes and ceased production of the milkshake mix. No documented cases of illness

consistent with the above clinical findings following consumption of milkshakes prepared from mix from Dairy B have been reported to state health departments in Pennsylvania, New Jersey, Maryland, or West Virginia since April 25.

Only one item, whey powder from a single distributor, is common to milkshake mixes produced by Dairies A and B. FDA has inspected this plant and is analyzing samples of the whey powder.

Cultures of whey and milkshake mix obtained from Dairy A yielded coagulase-positive staphylococci; the isolates from whey were enterotoxigenic. Analysis of these same samples for preformed staphylococcal enterotoxin by FDA is in progress. Whey powder and milkshake mix from Dairy B are also being analyzed. Staphylococci isolated from clinical specimens, whey, and milkshake mixes are being collected for phage typing at CDC.

Editorial Note

The incubation period, symptomatology, and duration of illness are compatible with staphylococcal food poisoning. A median incubation period of 5-6 hours suggests that the concentration of enterotoxin presumed to be present in the milkshake mixes was relatively low.

The epidemiologic data in these outbreaks was sufficiently convincing that both dairies initiated voluntary recalls of their milkshake mixes in the absence of confirmatory laboratory data (i.e., isolation of preformed staphylococcal enterotoxin from whey powder or milkshake mix).

The fact that whey powder obtained from a single firm was the only item common to both milkshake mixes raises the possibility that it may contain staphylococcal enterotoxin. Phage typing of staphylococci obtained from clinical

Table 2
Symptoms of 35 Ill Persons in New Jersey

Symptom	Number With Symptom	Percent With Symptom
Vomiting	34	97
Abdominal cramps	14	40
Diarrhea	13	37
Chills	4	11
Fever	2	6
Dizziness	1	3

Table 1
Attack Rates Associated with Milkshake Consumption

	Number Who Drank				Number Who Did Not Drink			
	Ill	Well	Total	Percent Ill	Ill	Well	Total	Percent Ill
Milkshake made from Dairy A mix Pennsylvania	21	8	29	72*	1	32	33	3*
Milkshake made from Dairy B mix								
Pennsylvania	24	3	27	89	0	17	17	0
New Jersey	33	3	36	92	2	13	15	13
Maryland	38	2	40	95	1	16	17	6
Total	95	8	103	92**	3	46	49	6**

* $\chi^2=29.50$; $p<.00002$ ** $\chi^2=103.76$; $p<.00002$

STAPHYLOCOCCAL ENTEROTOXIN – Continued

specimens, whey powder, and milkshake mix may be useful in determining the source of the presumed contamination of the milkshake products with staphylococcal enterotoxin. (Reported by Gaylord Brooks, Supervisor, Environmental Health Division, and Elmer Hill, M.D., Health Officer, Allegheny County, Maryland, Health Department; Anita Bahn, M.D., State Epidemiologist, Maryland State Department of Health and Mental Hygiene; Howard Rosenfeld, D.V.M., Senior Public Health Veterinarian, Ronald Altman, M.D., Director, Epidemiologic Services, and Martin Goldfield, M.D., Assistant Commissioner, New Jersey State Department of Health; Victoria Smith, M.D., Public Health Physician, and Alan R. Hinman, M.D., Assistant Commissioner for Epidemiology and Preventive Health Services, Bureau of Acute Communicable Disease Control, New York State Department of Health; Ronald H. Smith, M.S., Assistant Chief, and Robert L. Davis, M.S., Chief, Milk and Food Section, Environmen-

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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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