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Morbidity and Mortality

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EPIDEMIOLOGIC NOTES AND REPORTS
ILLNESS ASSOCIATED WITH SOIL FUMIGATION
 California

On the evening of August 2, 1973, numerous residents of a Los Angeles suburb complained to the Police Department about "an insecticide odor in the air" that was associated with eye irritation, nausea, and other symptoms. Three residents required treatment at a local hospital emergency room.

Investigation revealed that a field adjacent to the residential area had been fumigated that day and that the odor emanated from that field. The Health Department recommended voluntary evacuation of a 6-block area affected by the odor. Some residents elected to stay home, but others left until the next day.

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The field covers approximately 15 acres, and 1 side borders on a residential housing tract (Figure 1). It is used to grow strawberries and reportedly is fumigated about once a year to "kill soil worms and weeds." On August 2, 6-inch holes were punched in the ground at regular intervals over a portion of the field, and a combination of methyl bromide and chloropicrin was pumped under pressure into the holes.

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

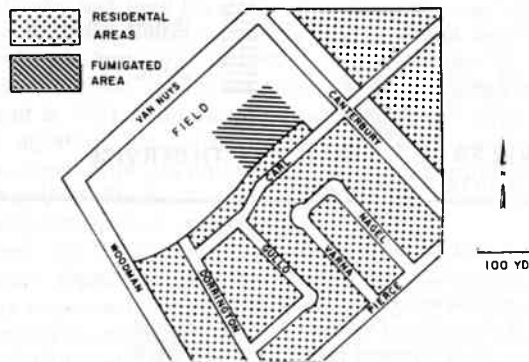
DISEASE	25th WEEK ENDING		MEDIAN 1969-1973	CUMULATIVE, FIRST 25 WEEKS		
	June 22, 1974	June 23, 1973		1974	1973	MEDIAN 1969-1973
Aseptic meningitis	71	52	72	934	952	936
Brucellosis	7	19	6	73	80	80
Chickenpox	2,043	2,705	—	91,309	136,539	—
Diphtheria	3	2	2	143	98	82
Encephalitis:						
Primary: Arthropod-borne and unspecified	31	18	21	410	513	512
Post-Infectious	7	10	13	128	147	153
Hepatitis, Viral:						
Type B	214	182	162	4,428	3,804	3,804
Type A	762	949	971	20,815	24,695	26,924
Type unspecified	143	—	—	4,136	—	—
Malaria	2	3	56	71	112	1,258
Measles (rubeola)	554	585	746	17,479	21,937	24,240
Meningococcal infections, total	16	24	37	745	823	1,478
Civilian	16	24	36	723	804	1,299
Military	—	—	1	22	19	151
Mumps	1,094	1,118	1,568	39,475	48,845	59,801
Pertussis	30	—	—	602	—	—
Rubella (German measles)	206	756	794	8,255	24,382	34,597
Tetanus	—	1	4	27	37	51
Tuberculosis, new active	662	642	—	14,774	15,331	—
Tularemia	9	7	5	57	64	50
Typhoid fever	3	9	8	158	364	131
Typhus, tick-borne (Rky. Mt. spotted fever)	40	43	24	264	219	137
Venereal Diseases:						
Gonorrhea	16,859	17,349	—	407,727	373,181	—
Syphilis, primary and secondary	427	545	—	11,496	11,873	—
Rabies in animals	49	85	66	1,352	1,849	1,849

TABLE II. NOTIFIABLE DISEASES OF LOW FREQUENCY

	Cum.		Cum.
Anthrax:	2	Poliomyelitis, total:	2
Botulism:	5	Paralytic:	2
Congenital rubella syndrome:	33	Psittacosis:	12
Leprosy: Calif. 1, La. 2, Ore. 1	60	Rabies in man:	—
Leptospirosis: Okla. 1	21	Trichinosis:	53
Plague:	—	Typhus, murine:	10

SOIL FUMIGATION – Continued

Figure 1
FIELD FUMIGATED WITH METHYL BROMIDE
AND CHLOROPICRIN – LOS ANGELES (CALIF.) SUBURB
AUGUST 1973



(Methyl bromide is a highly toxic, heavier-than-air, odorless gas used widely as an insecticidal fumigant; chloropicrin is a lachrymator, added as a warning agent, and a specific agent against verticillium wilt of strawberries.) The treated area was then covered with 1-mil thick, plastic sheets in an attempt to confine the fumigant to the soil. Reportedly, this procedure had been followed in the past with no complaints.

Residents noted almost no wind that evening until about 9 p.m.; then a light wind arose, which apparently carried accumulated fumigant across the houses near the field.

Because reactions to low concentrations of methyl bromide can be delayed for 12 to 24 hours, health officials conducted a household survey in the area approximately 18 hours after the incident occurred. Histories were obtained from 133 persons living in 38 households near the field. Thirty-five individuals (27%) reported eye irritation, with or without other symptoms, an average of 2.5 hours after noticing a "bad odor" in the air. Table 1 shows the other symptoms reported by those who had eye irritation.

Proximity to the fumigated field contributed to the frequency of symptoms. Several policemen who inspected the field developed severe eye irritation and dyspnea, requiring emergency room treatment. The attack rate among residents of Carl Street adjacent to the field was 53% compared with 12% among residents elsewhere in the 6-block area ($\chi^2 = 24.97$, $p < 0.001$).

The fumigator alleged that all required, protective procedures had been carried out during the fumigation (1). However, investigation revealed poor sealing of the plastic sheets covering the fumigated area. The agricultural pest control operator's license of the fumigator was temporarily suspended because of his negligence in carrying out the procedure, but

it was subsequently reinstated after the fumigator agreed to modify his methods.

Table 1
Symptoms Experienced by Persons Reporting Eye Irritation

Symptom	% With Symptom
Eye irritation	100
Nausea	20
Coughing	11
Sore or burning throat	11
Vomiting	6
Dizziness	6
Drowsiness	6
Wheezing	3
Blurred vision	3
Skin irritation	3
Headache	3
Bad taste in mouth	3

(Reported by Robert A. Murray, M.P.H., Epidemiology Analyst, Louis E. Mahoney, M.D., Dr.P.H., Chief, Division of Non-Communicable Disease Epidemiology, and Ralph R. Sachs, M.D., M.P.H., Deputy Director, Community Health Services, County of Los Angeles Department of Health Services.)

Editorial Note

Methylated halogens are highly toxic gases that are used as fumigants and refrigerants. The maximum allowable concentration for methyl bromide for continuous occupational exposure is 15 ppm (2). Symptoms, which can result from inhalation or skin absorption, include nausea, vomiting, blurred vision, vertigo, weakness, oliguria or anuria, drowsiness, confusion, hyperactivity, lowered blood pressure, coma, convulsions, and pulmonary edema (3).

Fortunately, most of the symptoms in this outbreak probably were caused by the warning agent, chloropicrin, not by the methyl bromide. While the fumigator alleged that all regulations pertaining to the use of these fumigants were complied with, heavy airborne contamination occurred adjacent to the treated area. Agricultural use of these fumigants in or near residential areas merits close attention by regulatory agencies.

References

- California Administrative Code, Chapter 4, Plant Industry, Section 2463.1, Chloropicrin and Methyl Bromide. Revised May 1974
- American Conference of Governmental Industrial Hygienists: Threshold Limit Values for Chemical Substances and Physical Agents in the Workroom Environment with Intended Changes for 1973. Cincinnati, 1973, p 23
- Dreisbach RH: Diagnosis and treatment. In Handbook of Poisoning. 7th ed. Los Altos, California, Lange Medical Publications, 1971

WILD RODENT PLAGUE – Colorado

At noon on Friday, June 21, the Vectorborne Diseases Division, Bureau of Laboratories, CDC, reported a positive fluorescent antibody staining test for *Yersinia pestis* in laboratory mice inoculated on June 18 with a pool of 4 fleas collected from deer mice (*Peromyscus maniculatus*) at Moraine camp ground, Rocky Mountain National Park. The fluorescent antibody test was confirmed by bacteriologic methods

on June 23. The fleas were collected during Colorado tick fever studies being conducted at the park by CDC.

Because of the potential for a plague epizootic and resultant risk of human exposure at Moraine camp ground (high rodent and flea densities plus high human population), control measures were undertaken on June 22. The national

(Continued on page 224)

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TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
FOR WEEKS ENDING JUNE 22, 1974 AND JUNE 23, 1973 (25th 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	71	7	2,043	3	143	31	18	7	214	762	143	2	71
NEW ENGLAND	4	—	339	—	—	1	1	—	3	34	16	—	5
Maine *	—	—	1	—	—	—	—	—	—	—	—	—	—
New Hampshire *	—	—	10	—	—	—	—	—	—	2	—	—	—
Vermont	—	—	5	—	—	—	—	—	—	1	—	—	—
Massachusetts	1	—	—	—	—	1	1	—	2	8	16	—	1
Rhode Island	2	—	116	—	—	—	—	—	—	11	—	—	3
Connecticut	1	—	207	—	—	—	—	—	1	12	—	—	1
MIDDLE ATLANTIC	10	—	284	—	1	4	2	1	25	114	13	1	10
Upstate New York	4	—	112	—	—	1	—	—	2	56	1	—	3
New York City	—	—	166	—	—	1	—	—	3	10	—	1	4
New Jersey	1	—	NN	—	—	2	—	—	7	16	10	—	1
Pennsylvania	5	—	6	—	1	—	2	1	13	32	2	—	2
EAST NORTH CENTRAL	5	—	939	—	2	2	6	—	39	126	13	—	9
Ohio	—	—	109	—	1	2	3	—	8	18	—	—	4
Indiana	3	—	41	—	—	—	—	—	—	5	—	—	—
Illinois	—	—	—	—	1	—	1	—	9	45	8	—	2
Michigan	2	—	438	—	—	—	2	—	12	39	4	—	2
Wisconsin	—	—	351	—	—	—	—	—	10	19	1	—	1
WEST NORTH CENTRAL	4	—	38	—	—	9	2	—	17	31	15	—	2
Minnesota *	—	—	3	—	—	—	—	—	8	4	2	—	—
Iowa *	3	—	27	—	—	—	—	—	1	6	2	—	—
Missouri	1	—	3	—	—	8	2	—	3	3	7	—	1
North Dakota	—	—	—	—	—	—	—	—	—	1	—	—	—
South Dakota	—	—	—	—	—	—	—	—	—	9	—	—	1
Nebraska	—	—	5	—	—	—	—	—	—	—	1	—	—
Kansas	—	—	—	—	—	1	—	—	5	8	3	—	—
SOUTH ATLANTIC	12	—	134	—	1	2	1	3	29	121	19	—	12
Delaware	—	—	3	—	—	—	—	—	—	—	—	—	—
Maryland	1	—	9	—	—	1	—	—	2	7	2	—	2
District of Columbia	—	—	2	—	—	—	—	—	—	2	—	—	2
Virginia *	—	—	4	—	—	—	—	—	2	7	5	—	3
West Virginia	—	—	92	—	—	1	—	—	1	2	—	—	—
North Carolina *	—	—	NN	—	1	—	—	—	2	30	2	—	2
South Carolina	—	—	24	—	—	—	1	—	—	6	3	—	—
Georgia *	—	—	—	—	—	—	—	—	—	23	—	—	—
Florida	11	—	—	—	—	—	—	3	22	44	7	—	3
EAST SOUTH CENTRAL	4	1	8	—	—	—	1	1	11	61	6	—	3
Kentucky	—	—	3	—	—	—	—	—	3	25	4	—	2
Tennessee	3	1	NN	—	—	—	—	1	5	31	—	—	1
Alabama	1	—	3	—	—	—	—	—	3	2	2	—	—
Mississippi	—	—	2	—	—	—	1	—	—	3	—	—	—
WEST SOUTH CENTRAL	14	5	107	—	8	12	2	1	12	108	6	—	3
Arkansas	—	1	1	—	—	—	—	—	1	13	1	—	—
Louisiana	10	1	NN	—	—	—	1	1	4	11	1	—	1
Oklahoma	2	2	28	—	—	11	1	—	3	16	4	—	1
Texas	2	1	78	—	8	1	—	—	4	68	—	—	1
MOUNTAIN	2	—	45	—	27	—	—	—	8	39	21	—	3
Montana *	1	—	17	—	—	—	—	—	—	1	—	—	—
Idaho	—	—	—	—	—	—	—	—	—	2	—	—	—
Wyoming	—	—	—	—	—	—	—	—	—	3	—	—	—
Colorado	1	—	10	—	—	—	—	—	6	9	9	—	2
New Mexico	—	—	16	—	10	—	—	—	1	16	2	—	1
Arizona	—	—	—	—	17	—	—	—	—	4	7	—	—
Utah	—	—	1	—	—	—	—	—	1	2	3	—	—
Nevada	—	—	1	—	—	—	—	—	—	2	—	—	—
PACIFIC	16	1	149	3	104	1	3	1	70	128	34	1	24
Washington	—	—	96	3	95	—	—	—	1	14	11	—	—
Oregon	—	—	1	—	—	—	—	—	—	18	2	—	—
California *	11	1	—	—	5	1	3	1	62	93	15	1	24
Alaska	—	—	6	—	4	—	—	—	—	—	—	—	—
Hawaii	5	—	46	—	—	—	—	—	7	3	6	—	—
Guam *	—	—	—	—	—	—	—	—	—	—	—	—	2
Puerto Rico	—	—	36	—	—	—	—	—	—	—	4	—	—
Virgin Islands	—	—	1	—	—	—	—	—	—	—	—	—	—

*Delayed reports: Aseptic meningitis: Guam 1
Chickenpox: Me. 3, N.H. 16, Calif. 87, Guam 5
Hepatitis B: Iowa 1, Ga. delete 3

Hepatitis A: Me. 3, N.H. delete 2, Minn. 2, Iowa delete 1, Va. delete 1,
N.C. delete 2, Ga. 3, Mont. delete 1, Guam 14

Hepatitis, unspecified: N.H. 1, Guam 5
Malaria: Guam 1

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TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
FOR WEEKS ENDING JUNE 22, 1974 AND JUNE 23, 1973 (25th 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	554	17,479	21,937	16	745	823	1,094	39,475	30	206	8,255	27
NEW ENGLAND	45	811	7,079	-	40	35	179	5,287	-	19	843	-
Maine *	1	34	63	-	2	-	1	747	-	1	232	-
New Hampshire*	-	196	835	-	7	6	5	228	-	-	15	-
Vermont	-	57	112	-	1	2	-	15	-	2	14	-
Massachusetts	25	331	3,774	-	11	11	20	844	-	10	298	-
Rhode Island	-	57	580	-	7	1	98	2,113	-	-	18	-
Connecticut	19	136	1,715	-	12	15	55	1,340	-	6	266	-
MIDDLE ATLANTIC	285	7,083	2,035	4	98	115	137	3,080	2	62	942	2
Upstate New York	93	587	674	2	43	41	47	701	1	2	206	1
New York City	30	437	799	-	14	22	31	465	1	4	104	-
New Jersey	112	5,269	310	2	29	27	11	600	-	29	419	1
Pennsylvania	50	790	252	-	12	25	48	1,314	-	27	213	-
EAST NORTH CENTRAL	124	6,826	7,588	1	88	106	370	11,264	7	51	2,672	4
Ohio	30	2,970	256	1	30	44	31	2,727	-	13	454	2
Indiana	4	198	532	-	8	3	14	865	-	4	430	-
Illinois	33	1,559	1,784	-	10	23	53	983	4	4	372	1
Michigan	45	1,724	3,980	-	28	31	233	4,929	2	18	1,023	1
Wisconsin	12	375	1,036	-	12	5	39	1,760	1	12	393	-
WEST NORTH CENTRAL	16	571	419	3	57	65	12	2,533	-	3	204	6
Minnesota	-	77	18	1	18	3	1	32	-	2	10	-
Iowa	8	48	272	-	10	15	2	1,605	-	-	14	-
Missouri	8	242	47	1	16	30	7	332	-	1	32	2
North Dakota	-	25	52	-	2	3	-	16	-	-	11	1
South Dakota	-	27	-	1	3	3	-	2	-	-	11	1
Nebraska	-	2	3	-	1	4	2	69	-	-	6	-
Kansas	-	150	27	-	7	7	-	477	-	-	106	3
SOUTH ATLANTIC	4	407	1,094	2	142	134	84	4,777	3	14	867	7
Delaware	-	6	8	-	3	1	3	73	-	1	21	-
Maryland	-	21	2	1	16	20	4	86	-	-	1	-
District of Columbia	-	3	3	-	-	3	-	41	-	-	3	-
Virginia	-	21	394	-	27	23	15	450	2	3	32	2
West Virginia	3	107	177	-	6	4	42	2,763	-	4	138	-
North Carolina	-	4	4	-	30	27	NN	NN	1	1	51	-
South Carolina	1	38	52	-	12	10	2	104	-	1	484	1
Georgia	-	4	145	-	6	17	-	-	-	-	2	-
Florida	-	203	309	1	42	29	18	1,260	-	4	135	4
EAST SOUTH CENTRAL	33	161	573	1	85	81	113	4,925	3	7	431	2
Kentucky	3	104	359	-	36	31	11	2,039	2	1	159	-
Tennessee	24	33	159	1	37	32	77	2,086	1	5	204	1
Alabama	6	12	4	-	9	13	12	442	-	-	53	-
Mississippi	-	12	51	-	3	5	13	358	-	1	15	1
WEST SOUTH CENTRAL	8	160	608	2	130	126	76	2,719	10	11	280	2
Arkansas	1	6	68	-	9	13	-	116	2	-	8	-
Louisiana	-	13	82	1	24	26	-	172	2	4	62	1
Oklahoma	1	23	49	-	12	12	6	337	-	2	32	-
Texas	6	118	409	1	85	75	70	2,094	6	5	178	1
MOUNTAIN	19	704	518	1	22	24	18	924	2	5	327	-
Montana	1	360	13	-	1	5	-	146	-	-	62	-
Idaho	-	50	227	-	2	3	1	154	1	-	12	-
Wyoming	-	1	61	-	3	-	-	9	-	-	-	-
Colorado	-	29	95	-	2	5	14	443	-	1	115	-
New Mexico	1	50	107	-	2	3	2	151	1	3	93	-
Arizona	1	12	14	-	5	4	-	-	-	-	-	-
Utah	-	3	1	1	4	2	-	17	-	-	12	-
Nevada	16	199	-	-	3	2	1	4	-	1	33	-
PACIFIC	20	756	2,023	2	83	137	105	3,966	3	34	1,689	4
Washington	-	55	949	-	8	16	43	1,484	-	3	323	-
Oregon	-	-	420	-	9	10	17	689	1	2	179	1
California	20	644	574	2	61	107	44	1,658	2	29	1,173	3
Alaska	-	-	65	-	2	4	-	93	-	-	-	-
Hawaii	-	57	15	-	3	-	1	42	-	-	14	-
Guam *	-	7	8	-	1	-	-	315	-	-	4	-
Puerto Rico	23	492	1,540	1	3	4	34	701	-	-	16	2
Virgin Islands	-	22	-	-	-	-	-	30	-	-	-	1

*Delayed reports: Mumps: Me. 9, N.H. 2, Guam 10

Pertussis: Guam 1

Rubella: Guam 1

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES FOR WEEKS ENDING JUNE 22, 1974 AND JUNE 23, 1973 (25th WEEK) - Continued

AREA	TUBERCULOSIS (New Active)		TULA- REMIA	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	1974	GONORRHEA		SYPHILIS (Pri. & Sec.)		Cum. 1974	
									Cumulative		1974	Cumulative		
		1974	1973			1974	1973			1974		1973		
UNITED STATES	662	14,774	57	3	158	40	264	16,859	407,727	373,181	427	11,496	11,873	1,352
NEW ENGLAND	13	600	-	-	5	-	-	505	9,467	10,245	12	228	345	10
Maine	-	47	-	-	-	-	-	45	811	559	-	15	12	1
New Hampshire	-	15	-	-	1	-	-	19	334	351	-	7	4	2
Vermont *	1	9	-	-	-	-	-	12	300	150	-	1	12	1
Massachusetts	7	342	-	-	2	-	-	187	3,974	4,970	3	90	170	3
Rhode Island	2	57	-	-	2	-	-	58	938	1,080	1	9	9	3
Connecticut	3	130	-	-	-	-	-	184	3,110	3,135	8	106	138	-
MIDDLE ATLANTIC	119	2,575	1	1	27	3	15	1,737	49,405	52,058	103	2,550	2,692	15
Upstate New York	18	348	1	-	6	2	4	314	9,455	9,829	10	249	159	9
New York City	46	988	-	1	18	-	-	838	21,500	23,821	59	1,466	1,684	-
New Jersey	28	495	-	-	3	-	-	100	6,751	7,424	19	415	481	-
Pennsylvania *	27	744	-	-	-	1	11	485	11,699	10,984	15	420	368	6
EAST NORTH CENTRAL	108	1,960	5	-	13	1	3	2,717	58,024	43,286	21	795	680	95
Ohio	23	559	-	-	5	1	3	890	18,163	13,735	4	137	136	-
Indiana	24	303	-	-	1	-	-	219	6,026	5,345	-	89	165	10
Illinois	31	550	3	-	4	-	-	589	12,710	6,448	8	331	96	22
Michigan	26	510	-	-	2	-	-	686	14,845	13,250	8	189	244	1
Wisconsin *	4	38	2	-	1	-	-	333	6,280	4,508	1	49	39	62
WEST NORTH CENTRAL	22	526	10	-	5	3	4	868	21,388	20,655	18	277	146	319
Minnesota	9	90	-	-	3	-	-	204	4,853	4,100	3	42	54	131
Iowa	3	55	-	-	-	-	1	53	2,832	2,730	2	15	18	71
Missouri	4	262	8	-	1	3	3	350	6,955	7,123	8	186	54	20
North Dakota	1	12	-	-	-	-	-	7	317	298	-	3	1	65
South Dakota	-	30	2	-	-	-	-	49	996	1,058	-	2	1	-
Nebraska	1	27	-	-	-	-	-	43	1,745	2,126	-	3	2	3
Kansas	4	50	-	-	1	-	-	162	3,690	3,220	5	26	16	29
SOUTH ATLANTIC	117	3,101	7	2	25	23	160	4,281	103,906	93,690	123	3,679	3,426	158
Delaware	3	45	-	-	-	-	3	26	1,395	1,301	-	42	50	1
Maryland	19	413	-	-	2	5	27	542	10,205	7,926	21	387	352	1
District of Columbia	13	203	-	-	-	-	1	387	7,602	7,650	15	309	397	-
Virginia *	17	382	2	-	6	6	51	406	8,866	9,128	6	410	348	56
West Virginia *	2	150	-	2	6	-	2	51	1,222	1,469	-	9	11	19
North Carolina	25	487	3	-	3	6	38	630	13,683	13,722	18	463	295	11
South Carolina	3	309	-	-	2	4	27	-	10,972	9,932	-	426	512	3
Georgia	15	403	2	-	2	2	10	1,117	21,769	17,634	42	411	591	41
Florida	20	709	-	-	10	-	1	1,122	28,192	24,928	21	1,222	870	26
EAST SOUTH CENTRAL	72	1,356	7	-	16	7	40	1,428	35,155	31,723	21	605	793	142
Kentucky *	21	307	1	-	7	1	4	228	4,381	3,900	4	141	300	89
Tennessee	24	453	4	-	7	2	24	670	13,841	11,729	10	235	208	35
Alabama	15	396	2	-	2	-	6	354	9,562	9,121	7	121	89	17
Mississippi	12	200	-	-	-	4	6	176	7,371	6,973	-	108	196	1
WEST SOUTH CENTRAL	87	1,929	23	-	11	3	36	2,117	56,951	51,223	40	1,129	1,355	347
Arkansas	7	247	15	-	1	1	5	116	5,451	6,337	1	61	77	41
Louisiana *	2	214	1	-	2	-	-	454	11,723	10,771	16	326	413	16
Oklahoma	10	147	6	-	-	2	26	240	5,011	5,227	1	72	91	84
Texas	68	1,321	1	-	8	-	5	1,307	34,766	28,888	22	670	774	206
MOUNTAIN	17	480	3	-	12	-	5	675	15,560	13,768	24	286	391	79
Montana *	1	35	-	-	-	-	1	30	887	797	2	3	3	-
Idaho	-	21	-	-	-	-	1	43	907	855	1	6	6	-
Wyoming	-	11	1	-	3	-	1	7	319	239	-	5	19	5
Colorado *	4	92	-	-	-	-	1	49	4,285	3,654	6	67	114	27
New Mexico	11	100	1	-	2	-	1	189	2,241	2,227	4	39	38	22
Arizona	-	172	1	-	6	-	-	249	4,858	4,010	11	111	84	25
Utah	-	18	-	-	-	-	-	17	780	731	-	7	8	-
Nevada	1	31	-	-	1	-	-	91	1,283	1,255	-	48	119	-
PACIFIC	107	2,247	1	-	44	-	1	2,531	57,871	56,533	65	1,947	2,045	187
Washington	10	143	-	-	9	-	-	269	5,423	5,126	-	43	74	-
Oregon	3	93	-	-	-	-	1	249	4,974	4,941	-	38	35	8
California	87	1,798	1	-	35	-	-	1,964	44,983	43,998	63	1,842	1,844	172
Alaska	-	41	-	-	-	-	-	24	1,232	1,420	-	2	43	7
Hawaii	7	172	-	-	-	-	-	25	1,259	1,048	2	22	49	-
Guam *	-	21	-	-	-	-	-	-	135	151	-	2	1	-
Puerto Rico	5	264	-	-	2	-	-	109	1,418	2,094	17	419	386	29
Virgin Islands	-	3	-	-	-	-	-	14	153	112	2	16	10	-

*Delayed reports: TB: Vt. 2, Ky. delete 1, Guam 2
Typhoid: Wis. 1
RMSE: Va. delete 1, W. Va. 1

Gonorrhea: Pa. 249, La. delete 1,
Mont. delete 1, Guam 14
Rabies: Colo. 26

Week No.

TABLE IV. DEATHS IN 121 UNITED STATES CITIES FOR WEEK ENDING JUNE 22, 1974

25

(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	673	421	176	34	15	30	SOUTH ATLANTIC	1,186	607	369	108	49	27
Boston, Mass.	195	107	59	13	8	10	Atlanta, Ga.	140	52	46	22	13	3
Bridgeport, Conn.	44	27	13	3	—	2	Baltimore, Md.	243	117	87	22	4	2
Cambridge, Mass.	15	11	4	—	—	1	Charlotte, N. C.	44	24	12	3	1	—
Fall River, Mass.	29	17	10	1	—	—	Jacksonville, Fla.	92	48	27	9	6	—
Hartford, Conn.	66	37	23	5	—	3	Miami, Fla.	128	71	36	11	3	1
Lowell, Mass.	25	17	6	1	—	—	Norfolk, Va.	64	31	22	7	2	2
Lynn, Mass.	19	13	6	—	—	1	Richmond, Va.	80	38	34	6	1	4
New Bedford, Mass.	24	19	4	1	—	1	Savannah, Ga.	37	19	12	3	1	1
New Haven, Conn.	46	29	12	4	—	—	St. Petersburg, Fla.	92	78	11	1	1	7
Providence, R. I.	57	38	12	2	2	5	Tampa, Fla.	68	33	19	6	5	3
Somerville, Mass.	10	5	1	1	1	1	Washington, D. C.	149	71	47	17	6	3
Springfield, Mass.	51	37	10	1	1	1	Wilmington, Del.	49	25	16	1	6	1
Waterbury, Conn.	43	31	9	—	2	—							
Worcester, Mass.	49	33	7	2	1	5	EAST SOUTH CENTRAL	631	348	177	47	22	32
MIDDLE ATLANTIC	2,925	1,781	733	197	107	115	Birmingham, Ala.	100	56	21	10	1	3
Albany, N. Y.	51	24	17	7	1	1	Chatanooga, Tenn.	48	31	13	—	4	2
Allentown, Pa.	26	14	10	1	1	—	Knoxville, Tenn.	52	25	19	4	1	1
Buffalo, N. Y.	116	64	25	9	12	5	Louisville, Ky.	115	56	44	7	5	16
Camden, N. J.	42	18	14	6	2	1	Memphis, Tenn.	137	81	37	12	1	2
Elizabeth, N. J.	25	15	7	1	1	—	Mobile, Ala.	51	27	15	5	—	—
Erie, Pa.	37	23	11	1	1	—	Montgomery, Ala.	34	25	8	—	—	3
Jersey City, N. J.	52	35	10	4	2	—	Nashville, Tenn.	94	47	20	9	10	5
Newark, N. J.	69	33	15	9	9	6	WEST SOUTH CENTRAL	1,171	626	329	96	55	34
New York City, N. Y. †	1,516	957	350	110	41	65	Austin, Tex.	38	28	4	4	2	4
Paterson, N. J.	37	17	13	3	1	4	Baton Rouge, La.	36	22	8	4	1	—
Philadelphia, Pa.	398	241	110	15	18	5	Corpus Christi, Tex.	36	20	5	4	6	3
Pittsburgh, Pa.	170	96	56	9	4	6	Dallas, Tex.	152	67	52	17	5	1
Reading, Pa.	40	29	9	1	1	3	El Paso, Tex.	61	34	14	3	5	3
Rochester, N. Y.	128	81	31	10	3	7	Fort Worth, Tex.	74	39	20	7	2	—
Schenectady, N. Y.	32	22	6	1	2	1	Houston, Tex.	242	113	75	26	11	7
Scranton, Pa.	29	17	8	1	3	2	Little Rock, Ark.	70	44	16	3	2	5
Syracuse, N. Y.	74	40	23	3	5	3	New Orleans, La.	154	72	57	12	5	2
Trenton, N. J.	32	20	7	4	—	2	San Antonio, Tex.	130	73	36	9	6	—
Utica, N. Y.	19	15	3	—	—	2	Shreveport, La.	59	37	16	2	3	2
Yonkers, N. Y.	32	20	8	2	—	1	Tulsa, Okla.	119	77	26	5	7	7
EAST NORTH CENTRAL	2,326	1,327	636	163	100	80	MOUNTAIN	554	304	146	46	26	19
Akron, Ohio	45	33	4	1	4	—	Albuquerque, N. Mex.	47	23	17	3	—	2
Canton, Ohio	37	23	8	2	1	2	Colorado Springs, Colo.	24	15	3	4	1	1
Chicago, Ill.	606	339	166	49	24	24	Denver, Colo.	118	67	33	11	3	2
Cincinnati, Ohio	165	92	44	13	7	1	Las Vegas, Nev.	35	18	8	4	4	1
Cleveland, Ohio	189	95	65	20	6	4	Ogden, Utah	33	21	5	4	2	5
Columbus, Ohio	132	72	36	9	8	18	Phoenix, Ariz.	123	73	27	11	5	—
Dayton, Ohio	91	51	28	8	3	—	Pueblo, Colo.	27	15	7	—	2	5
Detroit, Mich.	298	162	80	29	8	7	Salt Lake City, Utah	82	40	24	4	9	3
Evansville, Ind.	48	37	7	—	2	3	Tucson, Ariz.	65	32	22	5	—	—
Fort Wayne, Ind.	46	24	13	2	7	2	PACIFIC	1,611	996	391	108	50	31
Gary, Ind.	45	23	16	5	—	3	Berkeley, Calif.	20	12	6	2	—	—
Grand Rapids, Mich.	49	30	13	2	3	1	Fresno, Calif.	61	37	14	2	2	1
Indianapolis, Ind.	146	72	51	8	11	—	Glendale, Calif.	41	30	8	1	1	—
Madison, Wis.	33	15	5	4	5	5	Honolulu, Hawaii	48	21	15	3	5	1
Milwaukee, Wis.	130	78	40	3	3	2	Long Beach, Calif.	98	60	27	6	4	—
Peoria, Ill.	39	29	4	—	4	2	Los Angeles, Calif.	501	310	114	46	16	8
Rockford, Ill.	38	23	10	—	1	3	Oakland, Calif.	75	44	18	8	3	2
South Bend, Ind.	35	21	10	2	1	3	Pasadena, Calif.	28	21	6	1	—	—
Toledo, Ohio	84	53	24	4	2	—	Portland, Oreg.	139	85	38	7	2	2
Youngstown, Ohio	70	55	12	2	—	—	Sacramento, Calif.	70	44	18	1	4	1
WEST NORTHCENTRAL	776	449	199	55	33	31	San Diego, Calif.	98	57	31	2	3	1
Des Moines, Iowa	40	20	13	3	3	1	San Francisco, Calif.	157	101	39	9	5	5
Duluth, Minn.	27	13	11	2	—	4	San Jose, Calif.	52	32	9	6	2	1
Kansas City, Kans.	36	15	11	7	2	1	Seattle, Wash.	140	86	35	5	2	3
Kansas City, Mo.	112	76	28	2	6	1	Spokane, Wash.	52	32	10	7	1	3
Lincoln, Nebr.	43	24	11	7	1	4	Tacoma, Wash.	31	24	3	2	—	3
Minneapolis, Minn.	109	74	21	6	3	2							
Omaha, Nebr.	89	50	24	4	4	1	Total	11,853	6,859	3,156	854	457	399
St. Louis, Mo.	184	96	55	13	5	13	Expected Number	11,779	6,827	3,202	799	425	322
St. Paul, Minn.	64	42	11	2	3	1							
Wichita, Kans.	72	39	14	9	6	3							

†Delayed report for week ending June 15, 1974.

CURRENT TRENDS
TUBERCULOSIS CASES AND CASE RATES - United States, 1973

In 1973, a total 30,998 new cases of active tuberculosis were reported in the United States, a decrease of 5.7% from the 1972 total (Table 2). The case rate declined 6.3% in 1973 from 15.8 per 100,000 population in 1972 to 14.8 in 1973.

Case rates ranged from a high of 36.4 in Hawaii to a low of 4.3 in Iowa.
(Reported by the Tuberculosis Control Division, Bureau of State Services, CDC.)

Table 2
New Active Tuberculosis Cases and Case Rates - United States, 1973 and 1972

State	New Active Cases		Case Rate		Rank According to Rate		Population July 1, 1973
	1973	1972	1973	1972	1973	1972	
United States	30,998	32,882	14.8	15.8	--	--	209,851,000
Alabama	790	918	22.3	26.2	5	2	3,539,000
Alaska	100	80	30.3	24.6	2	3	330,000
Arizona	416	396	20.2	20.4	8	11	2,058,000
Arkansas	460	434	22.6	21.9	4	6	2,037,000
California	3,210	3,326	15.6	16.2	18	21	20,601,000
Colorado	197	245	8.1	10.4	39	34	2,437,000
Connecticut	259	246	8.4	8.0	37	40	3,076,000
Delaware	74	103	12.8	18.2	24	15	576,000
*District of Columbia	307	354	41.2	47.3	--	--	746,000
Florida	1,487	1,517	19.4	20.9	12	8	7,678,000
Georgia	1,010	897	21.1	19.0	7	13	4,786,000
Hawaii	303	315	36.4	38.9	1	1	832,000
Idaho	38	62	4.9	8.2	46	38	770,000
Illinois	1,520	1,940	13.5	17.2	21	18	11,236,000
Indiana	677	722	12.7	13.6	26	26	5,316,000
Iowa	125	117	4.3	4.1	50	50	2,904,000
Kansas	172	169	7.5	7.5	40	42	2,279,000
Kentucky	674	715	20.2	21.7	9	7	3,342,000
Louisiana	469	520	12.5	14.0	28	24	3,764,000
Maine	107	87	10.4	8.5	35	37	1,028,000
Maryland	719	838	17.7	20.7	15	10	4,070,000
Massachusetts	676	734	11.6	12.7	30	28	5,818,000
Michigan	1,121	1,261	12.4	13.9	29	25	9,044,000
Minnesota	183	202	4.7	5.2	48	47	3,897,000
Mississippi	445	400	19.5	17.7	11	17	2,281,000
Missouri	608	605	12.8	12.7	25	27	4,757,000
Montana	60	64	8.3	8.9	38	36	721,000
Nebraska	67	101	4.3	6.6	49	43	1,542,000
Nevada	61	43	11.1	8.2	32	39	548,000
New Hampshire	52	38	6.6	4.9	44	48	791,000
New Jersey	1,075	1,208	14.6	16.4	19	20	7,361,000
New Mexico	221	194	20.0	18.2	10	16	1,106,000
New York	3,110	3,451	17.0	18.8	17	14	18,265,000
North Carolina	974	996	18.5	19.1	14	12	5,273,000
North Dakota	44	31	6.9	4.9	43	49	640,000
Ohio	1,218	1,252	11.4	11.6	31	30	10,731,000
Oklahoma	351	330	13.2	12.5	22	29	2,663,000
Oregon	239	234	10.7	10.7	33	32	2,225,000
Pennsylvania	1,689	1,772	14.2	14.9	20	22	11,902,000
Rhode Island	90	108	9.2	11.2	36	31	973,000
South Carolina	619	651	22.7	24.4	3	4	2,726,000
South Dakota	90	69	13.1	10.2	23	35	685,000
Tennessee	889	929	21.5	23.0	6	5	4,126,000
Texas	2,224	2,422	18.9	20.8	13	9	11,794,000
Utah	56	62	4.8	5.5	47	45	1,157,000
Vermont	32	36	6.9	7.8	42	41	464,000
Virginia	839	817	17.4	17.1	16	19	4,811,000
Washington	362	359	10.6	10.4	34	33	3,429,000
West Virginia	226	252	12.6	14.1	27	23	1,794,000
Wisconsin	238	240	5.2	5.3	45	46	4,569,000
Wyoming	25	20	7.1	5.8	41	44	353,000
†Puerto Rico	519	644	19.1	23.7	--	--	2,712,000

*District of Columbia is classified as a city and is not ranked with the States.

†Not included in totals.

PLAGUE – Continued

park service evacuated and closed Moraine camp ground by 9 a.m. on June 22. Bait stations supplied with 5% carbaryl dust (Sevin) for flea control (1) were distributed throughout the camp area by Colorado State Health Department, park service, and CDC personnel on June 22.

Observations on rodent populations on June 22 and 23 indicate that a general epizootic has not and is not occurring at this time. Intensive observations will continue at Moraine camp ground and other localities in Rocky Mountain National Park during this week. Rodent flea population sampling is being carried out in Moraine camp ground to determine the effectiveness of the insecticidal treatment. Surveillance for plague will continue throughout the summer by state health department, national park service, and CDC personnel. (Reported by Thomas Vernon, M.D., Chief, Epidemiology, Colorado Department of Public Health; Roger Contor, Superintendent, Rocky Mountain National Park, National

Park Service; and the Plague Branch, Vectorborne Diseases Division, Bureau of Laboratories, CDC.)

Editorial Note

Plague, which has been detected in the past from most of the states west of the 98th meridian, has been confirmed by laboratory tests this year from rodents in Arizona, Colorado, and New Mexico. Serologic evidence indicative of very recent rodent plague activity (i.e. during 1974) has been detected among wild carnivorous animals in parts of Oregon and Montana.

Although the risk of plague infection from the Rocky Mountain National Park is considered to be slight, practicing physicians should be alert to the possibility of this disease among patients who have traveled in any of the Western states.

Reference

1. Barnes AM, Ogden LJ, Archibald WS, Campos E: Control of plague vectors on *Peromyscus maniculatus* by use of 2% carbaryl dust in bait stations. J Med Entomol 11:83-87, 1974

FOLLOW-UP ON CUTANEOUS ANTHRAX ACQUIRED FROM IMPORTED HAITIAN DRUMS – Florida

In the investigation of the cutaneous anthrax case acquired from imported Haitian drums (MMWR Vol. 23, No. 16), a total of 368 imported Haitian products made in whole or part of goatskin have been cultured. *Bacillus anthracis* has been isolated from 26% of 9 different types of products; rugs have had the highest frequency of culture positivity (Table 3). *B. anthracis* was isolated from 7 of 23 items purchased prior to 1974, including a rug bought in 1971. Of 39 items purchased at or turned in by retail outlets in the United States, *B. anthracis* was isolated from 1 of 10 drums, 18 of 20 rugs, 3 of 6 voodoo dolls, and 1 of 3 other items.

Because imported goatskin handicrafts having attached hair have been found to be frequently contaminated, persons who have these products are urged to turn them in to their local health departments for appropriate disposal.

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

Table 3
Bacillus anthracis Culture Results for Imported Haitian Goatskin Products – United States, 1974

Item	No. Cultured	No. Positive	% Positive
Drums	219	22	10
Rugs	58	45	78
Mosaic pictures	55	20	36
Voodoo dolls	13	3	23
Goatskins	10	4	40
Purses	10	1	10
Stool	1	1	100
Hat	1	0	0
Bottle holder	1	0	0
Total	368	96	26

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Director, Center for Disease Control
Director, Bureau of Epidemiology, CDC
Editor, MMWR
Managing Editor, MMWR

David J. Sencer, M.D.
Philip S. Brachman, M.D.
Michael B. Gregg, M.D.
Deborah L. Jones, B.S.

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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