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MORBIDITY AND MORTALITY WEEKLY REPORT

169 Irrigation-Pipe-Associated

Electrocution Deaths — Washington

171 Flood Disasters and Immunization —

California

178 Measles Importations — United States,
1982

179 Update: Influenza Activity — United States

180 Morbidity and Mortality Weekly Report Subscriptions

Perspectives in Disease Prevention and Health Promotion

Irrigation-Pipe-Associated Electrocution Deaths — Washington

In Washington State, investigators recently reviewed death certificates of all persons killed by electrocution during 1970-1979 and of all farmers killed by electrocution during 1950-1979. Analysis showed that farmers are significantly more likely than non-farmers to die of accidental electrocution (1).

An electrocution was considered irrigation-pipe-associated (IPA) when the death certificate or a newspaper article provided sufficient information to conclude that the death was irrigation pipe associated or when the death certificate suggested IPA electrocution. A death was considered occupationally related when the death certificate specified the injury occurred at work.

During Washington's agricultural growing season, 30- and 40-foot lengths of 3-inch aluminum pipe are used to irrigate fields. Electrocutions occur when these pipes touch electrical lines at the periphery of the fields while being hand carried by workers. In accordance with the recommendation of the National Electrical Safety Code of the American National Standards Institute, the Washington State Safety Code requires electrical lines near roads in rural districts to be at least 18 feet above the ground at their lowest point (2,3). Even when electrical lines fully meet this requirement, workers may contact electrical lines when tilting irrigation pipes upwards to empty them of water, dirt, or small animals.

During 1950-1979, 42 Washington farmers were recorded as having died from electrocution; based on overall mortality for the age and sex group involved, only 18 deaths

TABLE 1. Electrocution deaths among farmers — Washington, 1950-1979

	т	otal electroc	ution deaths	1	Irrigation-pipe- associated electrocution deaths
Occupation*	Observed	Expected	Excess [†]	PMR [§]	
Farmer, general	18	8	10	233	10
Farm laborer	9	5	4	168	7
Orchardist	3	1	2	231	2
Orchardist laborer	4	1	3	289	2
Nursery worker	2	< 0.5	2	400	0
Rancher	3	1	2	236	1
Dairy farmer	1	1	0	97	0
Wheat farmer	2	1	1	136	1
Totals	42	18	24	226	23

^{*}Classified by modified U.S. Census Bureau occupational code (4).

[†]Number of observed deaths minus number of expected deaths.

[§]Standardized proportionate mortality ratio.

Electrocution Deaths - Continued

from electrocution would have been expected. IPA electrocutions accounted for 23 (53%) of the 42 deaths recorded among farmers in general and among specific classifications of agricultural workers (Table 1).

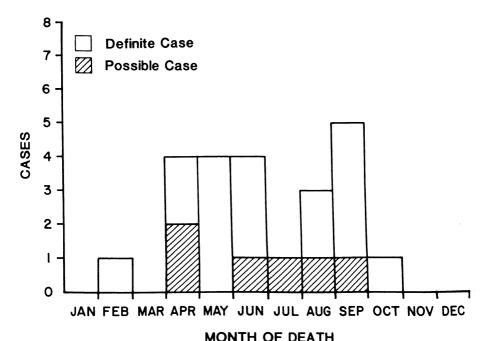
IPA electrocutions among farmers occurred more frequently during the 1970's than from 1950 to 1969. From 1950-1979, 91% of IPA electrocutions among farmers occurred from April through September (Figure 1).

Among farmers and non-farmers, IPA electrocutions during 1970-1979, compared with other electrocutions during those years, occurred most frequently in rural areas during planting and harvesting months. Ninety-three percent (28 of 30) of IPA electrocutions occurred from April through September, while 61% (72/118) of other electrocutions occurred during those months. Seventy-seven percent (23/30) of IPA electrocutions occurred among persons under 30 years of age, compared with 39% (46/118) non-IPA electrocutions. IPA electrocutions occurred more commonly than any other type of electrocution among persons under 20 years old (11/29, 38%).

Death certificates for 89 (59%) of 152 1970-1979 electrocutions specified that the lethal injury occurred at work. Most common among these occupational deaths were: 1) IPA electrocutions involving agricultural workers (18/89, 20%), and 2) electrical lines contacted by crane booms or other heavy equipment involving the equipment operators (18/89, 20%). Occupational groups among which fewer electrocutions occurred than among agricultural workers included: electrical linemen (12/89, 13%); electricians and construction workers (14/89, 16%); and tree trimmers (2/89, 2%).

Reported by S Milham, MD, Div of Health, Washington State Dept of Social and Health Svcs; Hazard Eval-

FIGURE 1. Irrigation-pipe-associated electrocution deaths among farmers, by month of death — Washington, 1950-1979



Electrocution Deaths — Continued

uation and Technical Assistance Br, Div of Surveillance, Hazard Evaluation, and Field Studies, National Institute for Occupational Safety and Health, CDC.

Editorial Note: In Washington, irrigation pipes have been the most common source of all fatal human contact with electrical lines. From 1970 to 1979, IPA electrocutions accounted for 20% of all electrocutions, 38% of electrocutions among persons under 20 years of age, 20% of work-related electrocutions, and 80% of electrocutions among farmers. During that same period, IPA electrocutions accounted for 1,191 years of potential life lost before age 65 (an average of 39.7 years per person).*

Because a death was defined as work-related only when the death certificate specified the injury occurred at work, the proportion of occupationally related IPA electrocutions may have been underestimated. Probably all 30 IPA electrocutions from 1970 to 1979, not just the 18 specified on death certificates, occurred at work. Therefore, the proportion of occupationally related IPA electrocutions may have been as high as 30% (30/101).

Possible measures to prevent these electrocutions include:

- 1. Education of the population at risk. Groups such as public utility companies and cooperative extension services have recognized the dangers of IPA electrocution and have advised caution when irrigation pipes are handled near electrical lines. All agencies and groups (including state and county health departments, utility companies, agriculture extension services, school districts, civic associations, and agricultural workers groups) in rural areas irrigated with metal pipes should be encouraged to remind agricultural workers of the life-threatening hazard of IPA electrocution.
- 2. Changes in the method of irrigation. Irrigation pipes on wheels and "solid-set" pipes (buried pipes with sprinkler heads above the ground) may prevent many IPA electrocutions. Despite high initial costs, these methods are labor-efficient over time and are replacing hand-carried irrigation pipes on large farms and orchards.

References

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 "Safety Rules for the Installation and Maintanence of Overhead Supply and Communication Line."
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Current Trends

Flood Disasters and Immunization — California

The heavy rains and floods in many areas of California this year have disrupted some community water supplies and sewerage systems. Such natural disasters often result in public concern about possible contagion from flood waters due to contamination by sewage or animal carcasses.

Studies of flood and earthquake disasters have shown that communicable disease outbreaks rarely result from such events (1). Nevertheless, there is often a public demand for

^{*&}quot;Years of potential life lost before age 65" was calculated by adding the differences between age 65 and each victim's age at death. The average number of years of potential life lost was calculated by dividing the total by the number of victims.

Flood Disasters - Continued

emergency mass immunization, especially against typhoid fever, despite the fact that epidemic typhoid has been conspicuously absent following natural disasters in the United States (where typhoid incidence is low) and in developing countries (where typhoid is endemic). Additionally, it takes several weeks for typhoid antibodies to develop, and even then, immunization provides only moderate protection against the disease. Also, adverse vaccine reactions are common (fever, headache, malaise, swelling and pain at the injection site) and burden flood victims and relief workers with more stress. Mass tetanus immunization programs are also not indicated, as floods pose no additional risk of tetanus. Management of flood-associated wounds should include appropriate evaluation of tetanus immunity (and immunization if indicated) as at any other time.

Of greatest importance in preventing enteric disease transmission when water and sewerage systems have been compromised is to assure that water and food supplies are safe to consume. When water contamination has occurred or is suspected (e.g., drop in water pressure, discoloration, turbidity, or unusual odors) only water bottled or trucked from a safe source, water brought to a vigorous boil, or water appropriately disinfected* should be con-

^{*5} drops of 2% tincture of iodine per quart of clear water, or ½ teaspoon of household chlorine bleach per 2 gallons of water, each with 30 minutes of contact time). (Continued on page 178)

TABLE I. Summary—cases specified notif	fiable diseases, United States
--	--------------------------------

	1	13th Week End	ing .	Cumu	ative, 13th We	ek Ending
Disease	April 2, 1983	April 3, 1982	Median 1978-1982	April 2, 1983	April 3, 1982	Median 1978-1982
Aseptic meningitis	78	74	58	1.042	988	841
Encephalitis: Primary (arthropod-borne	1					
& unspec.)	21	16	10	219	202	151
Post-infectious	1	1	3	17	10	39
Gonorrhea: Civilian	15,260	16,331	17,825	221,915	231,314	236,316
Military	463	503	469	5,826	6,793	6,812
Hepatitis: Type A	466	482	482	6,080	5,746	6,765
Туре В	457	488	361	5,344	4,994	3,933
Non A. Non B	59	58	N	774	466	N
Unspecified	159	164	185	1,948	2,123	2,557
Legionellosis	10	8	N	138	78	N
Leprosy	7	7	5	62	40	40
Malaria	11	19	18	153	190	190
Measles : Total	64	40	501	458	212	3,303
Indigenous	36	N	N	388	N	N
Imported*	28	N	N	70	N	N
Meningococcal infections: Total	64	92	80	815	890	890
Civilian	63	92	80	803	886	886
Military	1 1		-	12	4	9
Mumps	89	237	285	1,057	1,698	3,648
Pertussis	37	40	23	339	264	264
Rubella (German measies)	35	96	111	281	573	1,189
Syphilis (Primary & Secondary): Civilian	481	549	484	8.152	8.477	6.600
	21	10	7	125	96	96
Military Toxic-shock syndrome	7	Ň	Ň	96	N	N
	469	554	582	5.343	5.858	6.082
Tuberculosis		5	1	37	22	22
Tularemia	15	15	12	83	105	105
Typhoid fever	1 4	1	1	17	19	14
Typhus fever, tick-borne (RMSF) Rabies, animal	124	146	146	1,376	1,265	1,265

TABLE II. Notifiable diseases of low frequency, United States

	Cum. 1983		Cum. 1983
Anthrax Botulism: Foodborne Infant Other Brucellosis (Miss. 1) Cholera Congenital rubella syndrome Diphtheria Leptospirosis (Hawaii 2)	- 6 12 - 22 - 8 - 6	Plague Poliomyelitis: Total Paralytic Psittacosis (Upstate N.Y. 1, Calif. 1) Rabies, human Tetanus Trichinosis (N.J. 1, Tenn. 2) Typhus fever, flea-borne (endemic, murine)	1 1 20 2 12 11 3

^{*}Twenty-eight of the 64 reported cases for this week were imported from a foreign country or can be directly traceable to a known internationally imported case within two generations.

TABLE III. Cases of specified notifiable diseases, United States, weeks ending April 2, 1983 and April 3, 1982 (13th week)

Medina M		Aseptic Encephalitis Generates Hepatitis (Viral), by type					oe .						
Performing Area Performing Performing		Menin-									Legionel-	Leprosy	Malaria
UNITED STATES 78 219 17 221.915 231.314 4666 457 59 159 10 62 153 WAS STATES 78 219 17 221.915 231.314 4666 457 59 159 10 62 153 WAS STATES 78 219 17 221.915 231.314 4666 457 59 159 10 62 153 WAS STATES 78 219 17 221.915 231.314 4666 457 59 159 10 62 153 WAS STATES 78 219 17 221.915 231.314 4666 457 59 159 10 62 153 WAS STATES 78 219 17 221.915 231.314 15 4 15 3 2 2 WAS STATES 78 219 17 221.915 231.314 15 4 15 3 2 2 WAS STATES 78 219 17 221.915 231.314 15 4 15 3 2 2 WAS STATES 78 219 17 221.915 231.314 15 4 15 3 2 2 WAS STATES 78 219 17 221.915 231.314 15 4 15 3 2 2 WAS STATES 78 219 17 221.915 231.314 15 2 2 3 3 1 2 2 WAS STATES 78 219 17 221.915 231.314 15 2 2 3 3 1 2 2 3 3 1 2 3 3 3 3 3 3 3 3 3	Reporting Area		<u> </u>	fectious			 			fied		Cum	Cum.
NEW ENGLAND 1 9 - 5,811 5,552 11 15 4 15 3 - 2 When 167 25 25 2 11 15 4 15 3 - 2 When 167 25 25 2 11 15 4 15 3 - 2 What 191 112 1		1983					1983	1983	1983	1983	1983	1983	1983
Maine	UNITED STATES	78	219	17	221,915	231,314	466	457	59	159	10	62	153
NH		1	9	-						15	3	-	2
VI		-	-	-					-	-	-	- 1	
Mass				-					1		-		
RIL		-	6	-			4	5		15	-	-	-
MID ATLANTIC 10 28 3 29.002 27.866 64 84 7 5 - 6 24 Upstele N. 4 9 - 4.193 4.416 16 15 1 - 4 6 8	R.I.		-		308	400		5		-	-	-	
Upstate NY, 4 9 - 4,193 4,416 16 19 1 4 - 9 9 NY City 1 6 6 - 12,434 12,073 10 25 6 8 NJ. 4 4 - 5,203 4,781 15 29 3 1 1 4 3 NJ. 4 4 4 - 5,203 4,781 15 29 3 1 1 4 3 NJ. 4 4 4 - 5,203 4,781 15 29 3 1 1 4 3 NJ. 4 4 4 3 NJ. 4 4 4 1 4 NJ. 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1										-	3	-	
NY CENTRAL 1				3						5	-	6	
N.J. 4 4 - 5203 4.751 15 29 3 1 - 4 4 5 3 3 1 - 5 4 5 626 23 11 3 3 - 3 3 5 5 5 3 1 - 5 4 5 5 5 5 3 1 1 - 5 4 5 5 5 5 3 1 1 - 5 5 5 3 5 5 5 1 1 1 1 3 3 - 5 3 3 5 5 5 5 1 1 1 1 3 3 - 5 3 3 5 5 5 5 1 1 1 1 1 1 1 1 1 1 1 1 1	N V City			-	12 434					-		6	
Pa. 1 9 3 7,172 6,626 23 11 3 - - 3 EN CENTRAL 2 45 3 28,181 32,675 37 44 4 9 5 7 Ohio - 21 2 7,986 8,943 7 11 1 4 4 4 1 - Ind - 4 1 3,727 3,990 14 1 1 4 4 4 1 - Ind - 4 1 3,727 3,990 14 1 1 4 4 1 - Ind - 4 1 3,727 3,990 14 1 1 4 4 1 - Ind - 4 1 3,727 3,990 14 1 1 4 4 1 - Ind - 1 1 2,839 3,037 - - - - Wis - 1 2,839 3,037 - - - - WN CENTRAL 3 28 2 10,703 10,711 9 12 3 1 - - - WN CENTRAL 3 28 2 10,703 10,711 9 12 3 1 - - Mon - 14 - 1,539 1,538 6 6 1 - - - - Mon - 14 - 1,539 1,538 6 6 1 - - - - Mon - 14 - 1,539 1,538 6 6 1 - - - - Mon - 14 - 1,539 1,538 - - - - - Mohbr - 1 310 308 2 - - - - - Nans 1 - 1 1,869 2,018 - - - - - Value 1 33 3 8,901 8,8725 40 117 6 25 1 2 21 Del 2 - - 4,003 3,021 - 4 - - - - Mod - - - - 5,644 5,106 3 5 5 1 2 21 Mo - - - - 5,644 5,646 2 20 1 5 - - - Mo - - - - 5,644 5,646 2 20 1 5 - - - Mo - - - - 5,644 5,646 2 20 1 5 - - - Mon - - - - 5,644 5,646 2 20 1 5 - - - Mon - - - - 1,350 3,504 3 3 3 - - - - - Mon - - - - - - - Mon - - - - - - - - Mon - - - - - - - - Mon - - - - - - - - We - - - - - - - We - - - - - - - Mon - - - - - Mon - - - -				-					3	1	-	-	4
Onio				3	7,172			11		•	-	-	3
Onio	E.N. CENTRAL	2	45	3	28.181	32.675	37	44	4	9	5	2	7
Ind		-					7	11	1		4	1	-
Mich. 2 19 - 8448 7,969 11 155 2 1 1 - 6 Wish. 2 11 - 2,839 3,037		-		1 .	3,727	3,909			1	4	-	- :	
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DC.		2	-	-							-		3
Ve Vys		•	4	-					•		-	-	
W Va		2	12	1			2	16	2	7	1	-	
SC 1		-	-				-	-	-	-	-	-	1
Ga		3		-	7,982				-		-	-	-
Fia. 3 8 2 13.508 16.274 25 21 2 10 - 2 5 ES CENTRAL 3 9 2 19.383 19.315 59 19 2 3 2 Ky 2.366 2.584 48 1 - 1 - 1		÷ .		-					1		-	-	
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WS CENTRAL 3 19 - 30,91C 32,772 69 29 - 53 1 3 10 Ark 2,555 2,728 3 1 La 2 - 4,884 5,953 16 6 - 1 1 Collabel 2 4 - 3,738 3,404 8 3 - 3 1 - 5 Tex. 1 13 - 19,753 20,687 45 20 - 46 - 3 4 MOUNTAIN 8 9 2 6,763 8,409 43 24 5 14 - 11 8 MONT 333 3 359 1 2 - 1			8	2			7	2	-		-	-	
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N Mex.	Wyo.			-					-	-	-	:	:
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TABLE III. (Cont.'d). Cases of specified notifiable diseases, United States, weeks ending April 2, 1983 and April 3, 1982 (13th week)

		Meas	les (Rub	eola)		Menin-		M			Pertussis		I	D. de all'	
Reporting Area	Indig	enous	lmp	orted*	Total	gococcal Infections		Mumps		L	remussis		L	Rubella	
	1983	Cum. 1983	1983	Cum. 1983	Cum. 1982	Cum. 1983	1983	Cum. 1983	Cum. 1982	1983	Cum. 1983	Cum. 1982	1983	Cum. 1983	Cum. 1982
UNITED STATES	S 36	388	28	70	212	815	89	1,057	1,698	37	339	264	35	281	573
NEW ENGLAND		1	_	1	6	43	3	50	99	2	15	19	_	7	8
Maine	-	-	-	-	-	6	-	8	21	-	-		_	· -	
N.H.	-	-	-	-	-	1	2	12	9	-	2	4	-	_	8
Vt.	-	-	-	-	2	-	_	7	4	-	2	-	-	1	
Mass.	-	1	-	-	1	15	1	11	49	2	10	6	-	6	
R.I.	-	-	-	-	-	2	-	4	7	-	1	7	-	-	-
Conn.	-	-	-	1	3	19	-	8	9	-	-	2	-	-	•
MID ATLANTIC	-	3	-	8	25	119	11	85	101	8	63	36	2	17	41
Upstate N.Y.	-	-	-	2	13	43	9	37	25	ž	34	20	2	11	22
N.Y. City	-	3	-	5	10	13	1	6	18	1	8	-6	-	ż	10
N.J.	-	-	-	1	-	18	1	15	20	-	8	4	_	1	9
Pa.	-	-	-	-	2	45	-	27	38	-	13	6	-	3	-
E.N. CENTRAL Ohio	21	220	28	38	22	129	40	528	1,003	9	86	93	3	36	59
Ind.	-	450	-	1		57	13	304	718	2	32	18	-	1	-
Mi.	2.	159	28 [†]	-	1	21	5	14	19	4	7	9	2	2	8
Mich.	21	61	28	32	12	18	.7	38	48	2	38	40	1	15	18
Wis.		-	-	5	9	30 3	15	142 30	147 71	1	6 3	7 19	-	9 9	18 15
W.N. CENTRAL	_		_	_	1	52	12	81	59	4	19	12	•		
Minn.	_	_	_	-		9	1	11	3	3	7	3	2	18	19
lowa	_	_	_	-	-	7		29	18	3	2	3	-	3	1
Mo.	_	-	-	-	1	24	_	4	5	-	2	5	-	-	12
N. Dak.	_	-	-	_	•	i					-	5	-		12
S. Dak.	_	-	-	-	-	2	_	_	-	-	-	2	-		1
Nebr.	-	-	-	-	-			_	_		_	ĩ			
Kans.	-	-	-	-	-	9	11	37	33	1	8	i	2	15	5
S. ATLANTIC	7	81	-	4	19	188	6	47	128	2	46	27	5	24	16
Del.	-	-	-	-	-	-	1	4	3	-	-	3	-	-	-
Md. D.C.	-	1	-	-	1	23	1	9	10	-	-	-	-	1	4
Va.	-	-	-	-	. 1	2	-	-	-	-	-	1	-	-	-
W. Va.	-	1	-	1	10	27	3	12	17	1	21	4	-	1	6
N.C.	-	-	-	-	1	1	1	11	61	-	2	3	-	-	1
S.C.	-	-	-	-	-	35	-	4	4	-	1	2	-	1	-
Ga.	-	6	-	3	-	24 30	-	2	7	-	2	4	-	-	1
Fla.	7	73	-	-	6	46	-	5 -	2 24	1	14 6	6 4	5	4 17	1 3
E.S. CENTRAL	_	_	_		5	49	2	20	20		4	-	·		
Ky.	_	_	-	-	1	9	1	8	7	-		5	-	5	13
Tenn.	_	_	_	_	4	16	i	9	8		2		-	5	13
Ala.		-	-	_	-	18		3	3		2	4	-	-	-
Miss.	-	-	-		-	6	-	3	2	-	-	1	-	-	-
W.S. CENTRAL	2	32	-	11	4	98	5	94	59	4	39	13	10	52	35
Ark.	-	-	-	11	-	5	-	1	3	-	1			٠-	
La. Okla.	-	-	-	-	-	18	-	-	1	-	2	-	9	9	
Tex.	2	32	-		4	13 62	5	93	55	3	10	2	-	-	.1
MOUNTAIN					-		3			1	26	11	1	43	34
Mont.	-	-	-	1	-	28	-	33	33	6	52	13	-	11	19
Idaho	-	-	-	-	-	1	-	1	3	-	1	-	-	2	1
Wyo.	-	-	-	-	-	2	-	1	2	-	2	1	-	2	-
Colo.	-	-	-	1	-	14	-	-	2	-	4	1	-	1	4
N. Mex.	-	-	-	1	-	14	-	3	8	4	32	4	-	-	1
Ariz.		-	-	-	-	3	-	21	10	-	4	3	-	-	2
Utah				-	-	3	-	21 6	10	-	6	4	-	4	4
Nev.	-	-	-	-	-	-	-	1	6 2	2	3	-	-	1	5 2
PACIFIC	6	51	_	7	130	109	10	119	196	2	15	46	12		
Wash.	-	1	-	-	14	17	ž	20	34	-	1	46 8	13	111	363 15
Oreg.	1	5	-	-	-	12	-	-	37	1	2	5	1	6	
Calif.	5	44	-	7	114	77	7	85	157	i	12	33	12	104	2 342
Alaska	-	-	-	-	-			8	4			33	12	104	342
Hawaii	-	1	-	-	2	3	1	6	ĭ	-	-	-	-	-	3
Guam P.R.	U	-	U	-		-	U	-	1	U	-	_	U	_	1
		26	-	-	43	6	1	37	14		3	5		1	
				-			•	3,	14	-	3	9	-		3
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TABLE III. (Cont.'d). Cases of specified notifiable diseases, United States, weeks ending
April 2, 1983 and April 3, 1982 (13th week)

Reporting Area	Syphilis (Primary &	(Civilian) Secondary)	Toxic- shock Syndrome	Tuber	culosis	Tula- remia	Typhoid Fever	Typhus Fever (Tick-borne) (RMSF)	Rabies, Animal	
neporting Area	Cum. 1983	Cum. 1982	1983	1983	Cum. 1983	Cum. 1983	Cum. 1983	Cum. 1983	Cum. 1983	
UNITED STATES	8,152	8,477	7	469	5,343	37	83	17	1,376	
NEW ENGLAND	202	170	-	14	139	-	3	1	2	
Maine N.H.	4 7	-	-	1	10 13	-	-	-	2	
Vt.	1		-		2	-	5	.	-	
Mass. R.I.	131 5	118 11	-	10 3	65 16	-	3	1	-	
Conn.	54	41	-	-	33	-	-	-	1	
MID ATLANTIC	978	1,131	4	86	1,023	_	19	_	27	
Upstate N.Y.	43	126	-	5	174	-	3	-	20	
N.Y. City N.J.	603 190	696 131	1	23 16	390 222	-	10 6	-	-	
Pa.	142	178	3	42	237	-	-	-	7	
E.N. CENTRAL	347	552	_	26	773	_	10	2	89	
Ohio	121	84	-	9	125	-	ž	ī	13	
nd.	46	62	-	1	91	-	1	-	.5	
II. Mich.	95 61	288 88	-	14	337 183	-	2 4	1	42	
Wis.	24	30	-	2	37	-	-	-	29	
W.N. CENTRAL	97	161	1	13	180	12	1	3	190	
Minn.	44	25	-	4	31		-	-	40	
lowa Mo.	4 32	7 97	1	2 5	25 87	8	1	2	57 25	
N. Dak.	32	4	-	- -		-	-	1	17	
S. Dak.	-	-	-	-	16	-	-	-	14	
Nebr. Kans.	5 12	5 23	-	1	5 16	2 2	-	-	12 25	
S. ATLANTIC	2,136	2,322	1	114	1,040	11	12	2	528	
Del.	12	6		-	7	-	-	-	-	
Md.	110	139	-	3	103	5	4	1	231	
D.C. Va.	85 154	147 170	1	2 13	33 90	1	3	-	203	
W. Va.	6	6	-	2	48	-	2	-	28	
N.C. S.C.	199 157	182 113	-	25 9	117 91	4	1 1	-	3 6	
Ga.	410	497	-	32	205	1	-	-	47	
Fla.	1,003	1,062	-	28	346	-	1	1	9	
E.S. CENTRAL	566	638		38	508	5	1	3	130	
Ky. Tenn.	35 151	30 169	-	10	140 139	4	1	1	25 92	
Ala.	228	220	-	11 7	146	-	<u>'</u>	2	13	
Miss.	152	219	-	10	83	1	-	-	-	
W.S. CENTRAL	2,131	2,099	-	63	557	7	2	4	270	
Ark.	53	53	-	9	46	5	-	1	42 6	
La. Okla.	410 59	426 41	-	16 4	91 63	2	-	1	32	
Tex.	1,609	1,579	-	34	357	-	2	2	190	
MOUNTAIN	192	232	1	6	139	1	4	1	50	
Mont.	4	1	-	1	13	-	-		39	
ldaho Wyo.	3 3	16 9	1	-	10 2	-	-	1	-	
Colo.	48	76	-	2	10	-	1	-	-	
N. Mex.	67	43	-	3	27	1	Ξ	-	2 9	
Ariz. Utah	38 8	46 6	-	-	57 11	-	3	-	-	
Nev.	21	35	-	-	9	-	-	-	-	
PACIFIC	1,503	1,172	_	109	984	1	31	1	90	
Wash.	39 29	37	•	7	58	-	2	-	-	
Oreg. Calif.	29 1,405	35 1,069	-	5 93	48 810	1	28	1	84	
Alaska	7	6	-	-	4	-	-	-	6	
Hawaii	23	25	-	4	64	-	1	-	-	
Guam P.R.		1	U	U		-	-	-	14	
r.n. V.I.	171 7	165	-	1	117 1	-	-	-	-	
Pac. Trust Terr.		_	Ū	ΰ	-	-	-	-	-	

TABLE IV. Deaths in 121 U.S. cities,* week ending April 2, 1983 (13th week)

	April 2, 1963 (13til Week)														
		All Caus	es, By A	ge (Year	s)		P&I			All Cause	es, By A	ge (Years	s)		P&I**
Reporting Area	All Ages	≥65	45-64	25-44	1-24	<1	Total	Reporting Area	All Ages	≥65	45-64	25-44	1-24	<1	Total
NEW ENGLAND	663	457	154	24	16	12	65	S. ATLANTIC	1,382	834	346	90	52	60	62
Boston, Mass.	205 44	122	55 9	12	10	6	20	Atlanta, Ga.	158	90	38	16	7 8	7 10	5 7
Bridgeport, Conn. Cambridge, Mass.	28	33 25	3	1	1		2 3	Baltimore, Md. Charlotte, N.C.	265 74	169 43	62 15	16 8	5	3	6
Fall River, Mass.	36	26	8	2	_	_	1	Jacksonville, Fla.	95	67	18	4	4	2	2
Hartford, Conn.	44	25	14	2	2	1	2	Miami, Fla.	90	55	19	3	7	6	1
Lowell, Mass.	25	22	3	-	-	-	4	Norfolk, Va.	60	34	15	4	2	5	4 8
Lynn, Mass. New Bedford, Mas	22 s. 13	17 9	5 4	-	-	-	1 2	Richmond, Va. Savannah, Ga.	85 53	44 30	34 14	3 7	i	1	2
New Haven, Conn.	27	22	3	1	-	1	2	St. Petersburg, Fla.	111	79	24	4	i	3	5
Providence, R.I.	51	32	14	1	2	2	7	Tampa, Fla.	72	45	17	2	3	5	7
Somerville, Mass.	8	5	3	-	-	-	2	Washington, D.C.	260	147	73	18	10	12	8 7
Springfield, Mass.	52	39	12	1	:	-	7	Wilmington, Del.	59	31	17	5	3	3	,
Waterbury, Conn. Worcester, Mass.	38 70	32 48	5 16	4	1	2	5 7	E.S. CENTRAL	731	482	158	44	19	28	41
WOICEStel, Mass.	,,	70	, 0	7		-		Birmingham, Ala.	130	84	27	9	4	-6	3
	2,484	1,653	550	141	58	77	110	Chattanooga, Tenn.	31	20	7	3	1	-	7
Albany, N.Y.	57	37	12	3	2	3	3	Knoxville, Tenn.	36	28	7	1	:	-	
Allentown, Pa.	17 125	13 88	4 23	5	3	6	8	Louisville, Ky. Memphis, Tenn.	128 187	89 127	30 38	4 10	1 2	4 10	11 9
Buffalo, N.Y. Camden, N.J.	24	13	23 8	1		2	î	Mobile, Ala.	56	37	11	4	2	2	3
Elizabeth, N.J.	23	13	10	-	-	-	-	Montgomery, Ala.	59	35	16	3	1	4	4
Erie, Pa.t	53	34	16	-	2	1	4	Nashville, Tenn.	104	62	22	10	8	2	4
Jersey City, N.J.	51	32	9	4	2	4		144.0 05417041		75.4	287	103	40	69	47
N.Y. City, N.Y. Newark, N.J.	1,392 45	913 14	309 15	97 3	33 3	40 5	54 1	W.S. CENTRAL Austin, Tex.	1,258 46	751 32	287 6	4	48 2	2	47
Paterson, N.J.	24	14	8	1		1	- 1	Baton Rouge, La.	45	29	9	4	2	ī	2
Philadelphia, Pa.†	216	142	53	10	7	4	7	Corpus Christi, Tex.	41	29	8	3	1	-	-
Pittsburgh, Pa.†	52	36	14	2	-	-	3	Dallas, Tex.	207	120	50	17	9	11	2
Reading, Pa.	40	32	7	1	-	-	.4	El Paso, Tex. Fort Worth, Tex.	46 99	28 62	9 20	1 6	5 3	3 8	4 5
Rochester, N.Y. Schenectady, N.Y.	121 23	88 16	23 5	2 1	3	5 1	14	Houston, Tex.	259	133	69	35	16	6	8
Scranton, Pa.†	29	21	3	2	1	ż	ż	Little Rock, Ark.	105	73	20	6	2	4	5
Syracuse, N.Y.	94	69	18	3	2	2	4	New Orleans, La.	139	76	28	9	2	24	2
Trenton, N.J.	40	30	6	3	-	1	-	San Antonio, Tex.	166	102	45	8	5	6	12
Utica, N.Y. Yonkers, N.Y.	20 38	14 34	4 3	2 1	-	-	4	Shreveport, La. Tulsa, Okla.	36 69	25 42	5 18	4 6	1	2	1 6
E.N. CENTRAL	2,059	1,359	493	114	46	47	96	MOUNTAIN	651	421	151	34	20	25	28
Akron, Ohio	61	33	23	3	2	-		Albuquerque, N.Mex		43	12	1	3	1	3
Canton, Ohio	32	24	8	20	11	10	2 9	Colo. Springs, Colo. Denver, Colo.		22 86	9 30	2 7	1	7	2 6
Chicago, III Cincinnati, Ohio	409 136	251 88	107 32	30 7	6	3	15	Las Vegas, Nev	131 80	49	22	6	i	2	4
Cleveland, Ohio	156	104	37	13	ĭ	1	5	Ogden, Utah §	22	21		-	i	-	1
Columbus, Ohio	137	84	39	7	5	2	7	Phoenix, Ariz	155	99	39	7	5	5	-
Dayton, Ohio	82	48	21	5	2	6	4.5	Pueblo, Colo.	19	12	. 2	3	1	1	-
Detroit, Mich. Evansville, Ind.	256 48	164 37	62 7	21 3	3	6	13	Salt Lake City, Utah Tucson, Ariz	42 108	19 70	11 26	4	3 5	5 3	1 11
Fort Wayne, Ind.	55	40	9	2	3	1	ż	1000011, 71112	100	70	20	-	3	3	• • •
Gary, Ind.	7	4	1	2	-	-	- 1	PACIFIC	2,020	1,395	375	116	55	74	121
Grand Rapids, Mic	h. 49	31	14	-	3	1	3	Berkeley, Calif.	22	11	10	-	1	-	2
Indianapolis, Ind	165	113	40	5	1	6 2	6 5	Fresno, Calif. Glendale, Calif.	69	50	14	2	2	3	5 2
Madison, Wis. Milwaukee, Wis.	37 127	19 87	10 33	4 3	2	2	4	Honolulu, Hawaii	58 76	50 51	4 18	2	2	3	4
Peoria. III.	30	24	2	-	ī	3	4	Long Beach, Calif.	105	73	20	6	2	4	5
Rockford, III.	52	42	5	1	2	2	8	Los Angeles, Calif.	664	442	122	47	21	31	30
South Bend, Ind.	39	32	7	-	-	-	4 7	Oakland, Calif.	81	53	17	5	1	5	3
Toledo, Ohio Youngstown, Ohio	124 o 57	87 47	28 8	6 2	1 -	2	1	Pasadena, Calif. Portland, Oreg.	34 129	21 97	10 19	3 5	2	4	2 8
W.N. CENTRAL	719	487	160	28	16	28	31	Sacramento, Calif. San Diego, Calif. 9	57 37	38 125	14 3	2 1	2	1	4 12
Des Moines, Iowa	46	32	9	1	1	3	3	San Francisco, Cali	f. 163	92	39	19	4	9	9
Duluth, Minn.	38	25	10	3	-	-	1	San Jose, Calif.	179	114	40	12	8	5	15
Kansas City, Kans		27	.5	-	-	7	2	Seattle, Wash. Spokane, Wash.	147	104	30	7	4	2	8
Kansas City, Mo. Lincoln, Nebr.	121 41	82 31	25 9	6	1	1	6 5	Tacoma, Wash.	60 39	48 26	8 7	1 2	2	1 2	6 6
Minneapolis, Minr		47	14	2	2	4	1	Į.			,	2	4		0
Omaha, Nebr.	88	56	25	5	1	1	3	TOTAL	11,967 [†]	7,839	2,674	694	330	420	601
St. Louis, Mo.	137	88	33	6	5	5	1	1							
St. Paul, Minn.	74	56	11	2	3	2	3								
Wichita, Kans.	73	43	19	3	3	5	6	1							

Mortality data in this table are voluntarily reported from 121 cities in the United States, most of which have populations of 100,000 or more. A death is reported by the place of its occurrence and by the week that the death certificate was filed. Fetal deaths are not included.

^{**} Pneumonia and influenza

Precurbing and influence:

1 Because of changes in reporting methods in these 4 Pennsylvania cities, these numbers are partial counts for the current week. Complete counts will be available in 4 to 6 weeks.

14 Total includes unknown ages.

§ Data not available. Figures are estimates based on average of past 4 weeks.

TABLE V. Years of potential life lost, deaths, and death rates, by cause of death, and estimated number of physician contacts, by principal diagnosis, United States

Cause of	Years of potential life lost before		ated mortality ember 1982	Estimated number		
morbidity or mortality (Ninth Revision ICD, 1975)	age 65 by persons dying in 1981 ¹	Number ²	Annual Rate/100,000 ³	of physician contacts November 1982 ⁴		
ALL CAUSES (TOTAL)	9,879,590	156,720	820.8	85,608,000		
Accidents and adverse effects (E800-E807, E810-E825, E826-E949)	2507140	7.450	39.0	4.045.000		
	2,587,140	7,450	39.0	4,215,000		
Malignant neoplasms (140-208)	1,821,900	34,540	180.9	1,516,000		
Diseases of heart (390-398, 402, 404-429)	1,621,290	59,460	311.4	4,172,000		
Suicides, homicides (E950-E978)	1,403,560	3,680	19.3	_		
Cerebrovascular diseases (430-438)	275,000	12,350	64.7	758,000		
Chronic liver disease and cirrhosis (571)	267,350	2,250	11.8	108,000		
Pneumonia and influenza ⁵ (480-487)	123,420	3,740	19.6	1,142,000		
Chronic obstructive pulmonary diseases and allied conditions						
(490-496)	116,280	4,700	24.6	1,623,000		
Diabetes mellitus						
(250)	105,960	2,790	14.6	1,916,000		
Prenatal care ⁶				1,996,000		
Infant mortality ⁶		3,300	10.9 /1,000	live births		

¹Years of potential life lost for persons between 1 year and 65 years old at the time of death are derived from the number of deaths in each age category as reported by the National Center for Health Statistics, *Monthly Vital Statistics Report* (MVSR), Vol. 30, No. 13, December 20, 1982, multiplied by the difference between 65 years and the age at the midpoint of each category. As a measure of mortality, "Years of potential life lost" underestimates the importance of diseases that contribute to death without being the underlying cause of death.

²The number of deaths is estimated by CDC by multiplying the estimated annual mortality rates (MVSR Vol. 31, No. 12, March 14, 1983, pp. 8-9) and the provisional U.S. population in that month (MVSR Vol. 31, No. 11, February 11, 1983, p.1) and dividing by the days in the month as a proportion of the days in the year.

³Annual mortality rates are estimated by NCHS (MVSR Vol. 31, No. 12, March 14, 1983, pp. 8-9), using the underlying cause of death from a systematic sample of 10% of death certificates received in state vital statistics offices during the month and the provisional population of those states included in the sample for that month.

⁴IMS America *National Disease and Therapeutic Index* (NDTI), Monthly Report, November 1982, Section III. This estimate comprises the number of office, hospital, and nursing home visits and telephone calls prompted by each medical condition based on a stratified random sample of office-based physicians (2,100) who record all private patient contacts for 2 consecutive days each guarter.

⁵Data for "infectious diseases and their sequelae" as a cause of death and physician visits comparable to other multiple-code categories (e.g., "malignant neoplasms") are not presently available.

⁶"Prenatal care" (NDTI) and "Infant mortality" (MVSR Vol. 31, No. 11, February 11, 1983, p.1) are included in the table because "Years of potential life lost" does not reflect deaths of children <1 year.

Flood Disasters — Continued

sumed until health authorities indicate that public supplies are again safe to drink. Questions about the safety of foods exposed to flood waters or potentially spoiled due to interrupted refrigeration can be directed to local public health sanitarians.

Flood victims and relief workers should always wash their hands with soap and water (boiled or disinfected when no regular safe supply is available) before preparing or eating food, after toilet use, and after participating in flood cleanup or handling potentially contaminated articles

While communicable disease outbreaks in the United States are rare after flooding, some potential does exist for waterborne disease transmission (e.g., enterotoxigenic *Escherichia coli, Shigella, Salmonella,* hepatitis A, Norwalk virus agents, and even such infections as leptospirosis and tularemia); therefore, flood-affected communities should be under close surveillance.

Mass immunization programs at the time of natural disasters are counterproductive and divert limited manpower and resources from other relief tasks. Such immunization programs may also give the public a false sense of security, leading to neglect of the basic rules of hygiene and sanitation that are far more important than immunizations in preventing infectious diseases that flood waters may spread.

Reported in California Morbidity, March 11, 1983 (9).

Reference

 Western KA. Epidemiologic surveillance after natural disaster. Washington, DC: PAHO/WHO, 1982 (Scientific publication no. 420).

Measles Importations — United States, 1982

During 1982, 118 measles cases, an average of 2.3 weekly, were imported into the United States*; they represented 7.0% of the provisional total of 1,697 measles cases reported to CDC during that period. Thus, the proportion of cases reported as being imported increased from 1981's 3.6% (114/3,124).

The 118 persons with imported measles were travelers who arrived in the United States from 32 different countries. Eight countries accounted for 62.7% (74) of the importations: England—19 (16.1%), Mexico—12 (10.2%), Philippines—10 (8.5%), India—nine (7.6%), France—seven (5.9%), Korea—seven (5.9%), Scotland—five (4.2%), and Spain—five (4.2%). The other 24 countries each contributed four or fewer importations during the year.

Twenty-seven states, New York City, and the District of Columbia reported measles importations (Figure 2). Five areas accounted for 61.0% (72) of reported cases: California—34 (28.8%), Florida—11 (9.3%), New York City—11 (9.3%), New York State (excluding New York City)—nine (7.6%), and Hawaii—seven (5.9%).

Returning U.S. citizens accounted for 67 (56.8%) of the 1982 importations, compared with 66 (57.9%) of 114 in 1981.

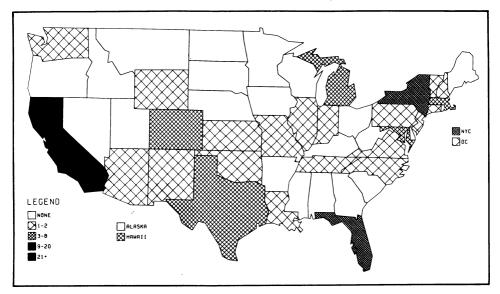
Measles transmission to persons in the United States was documented in 19 (16.1%) of the 118 cases, with 613 cases resulting from importations. Thus, imported and import-related cases accounted for 43.1% of all measles cases reported in 1982. Large import-related measles outbreaks occurred in Florida, Kansas, Michigan, New York, and Texas.

Reported by Div of Immunization, Center for Prevention Svcs, CDC.

^{*}A case was considered imported if a person had rash onset within 18 days after arriving in the United States from a foreign country.

Measles - Continued

FIGURE 2. Measles cases, by reporting area — United States, 1982



Update: Influenza Activity — United States

Influenza virus isolates reported to CDC this season now total 1,249, including 1,116 type A(H3N2) isolates, 96 type A(H1N1), and 37 type B.

Influenza morbidity reports collected weekly from each state continue to suggest a gradual decline in activity. For the week ending April 2, 1983, six states (Kentucky, Missouri, Nebraska, North Dakota, Pennsylvania, and Tennessee), reported regional activity, and no states reported widespread activity. For the same week, an excess in the ratio of pneumonia and influenza (P&I) deaths to total deaths was reported from 121 cities for the twelfth consecutive week. The observed ratio was 5.0, and the expected ratio was 4.0 (Figure 1).

Reported by Respective state epidemiologists and laboratory directors; Div of Surveillance and Epidemiologic Studies, Epidemiology Program Office, Statistical Svcs Activity, WHO Collaborating Center for Influenza, Influenza Br, Div of Viral Diseases, Center for Infectious Diseases, CDC.

Errata, Vol. 32, No. 10

p. 141. In the article, "Behavorial Risk Factor Prevalence Surveys—United States, First Quarter 1982," the first footnote on Table 1, p. 142, should read, "Per 1,000 population."

Vol. 32, No. 12

p. 158. In the article, "Update: Influenza Activity—United States," Figure 1 should have indicated influenza type A and B viruses for Kentucky and Pennsylvania.

Notice to Readers

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The Morbidity and Mortality Weekly Report is prepared by the Centers for Disease Control, Atlanta, Georgia, and distributed by the National Technical Information Service, Springfield, Virginia. The data in this report are provisional, based on weekly reports 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.

The editor welcomes accounts of interesting cases, outbreaks, environmental hazards, or other public health problems of current interest to health officials. Such reports and any other matters pertaining to editorial or other textual considerations should be addressed to: ATTN: Editor, *Morbidity and Mortality Weekly Report*, Centers for Disease Control, Atlanta, Georgia 30333.

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