

# M M M M R

## MORBIDITY AND MORTALITY WEEKLY REPORT

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Current Trends

### Community Water Fluoridation — United States

A recently completed CDC survey (1) reveals there are more than 105,000,000 persons in the United States having access to water supplies whose fluoride content has been adjusted to the optimum level for dental health or whose natural fluoride content is at optimum or higher levels. This total represents 49.4% of the total population in the United States and 59.3% of the U.S. population served by public water supplies (Figure 1). The survey, current as of December 31, 1975, also indicates that 6,795 communities adjust the fluoride content of their water supplies to the optimum level for dental health, while 2,630 communities have a natural fluoride level which provides their residents with the dental benefits of optimally fluoridated water. Currently, 22 states, the District of Columbia, and Puerto Rico provide fluoridated water to over half of their

populations. One hundred seventeen of 170 (70%) cities with populations of 100,000 or more have optimally fluoridated water.

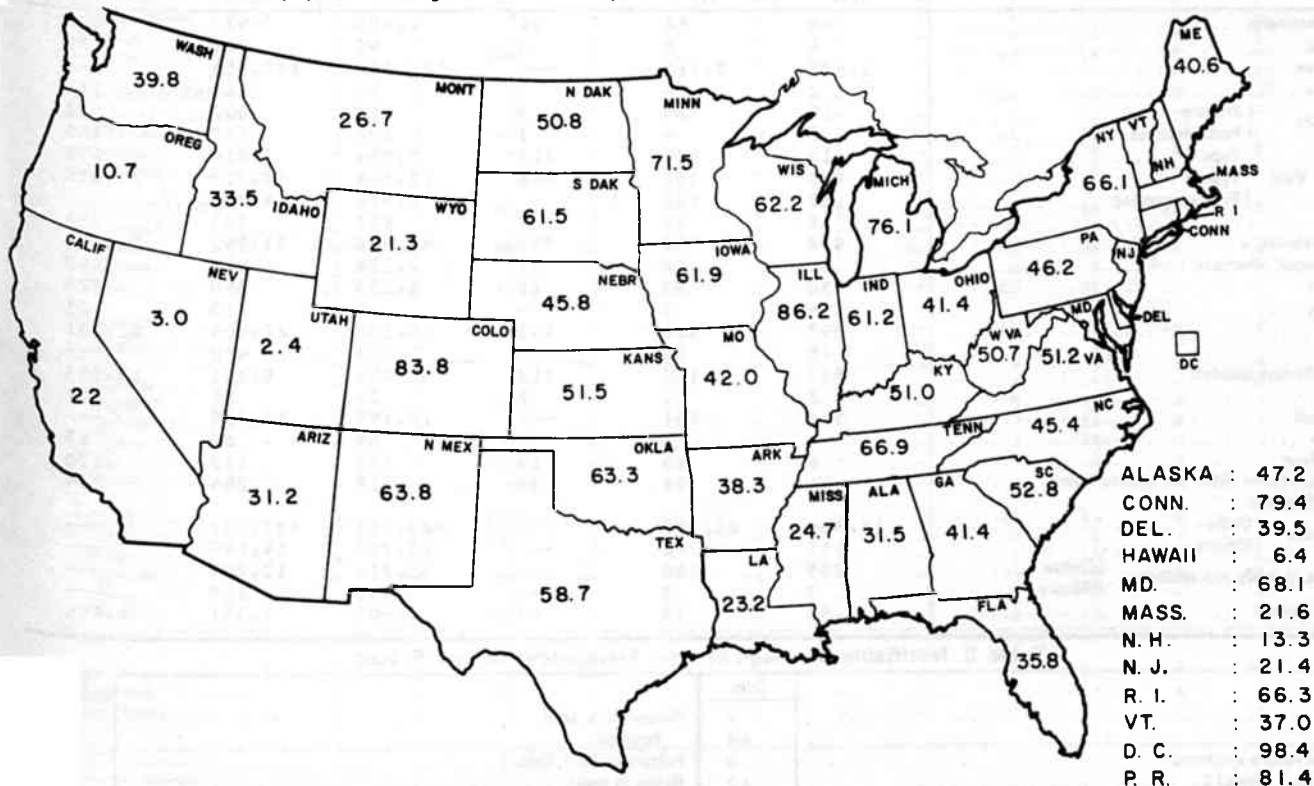
*Reported by the Dental Disease Prevention Activity, Bur of State Services, CDC.*

**Editorial Note:** The 49.4% of the total population using fluoridated water represents a 6.4% increase from the 43.0% reported in the 1969 Fluoridation Census. During the 6-year interval between the 2 surveys, adoption of fluoridation in more communities and population growth accounted for approximately 16.9 million additional U.S. citizens receiving the benefits of this public health measure.

**Reference**

1. Center for Disease Control: Fluoridation Census, 1975. Issued April 1977

FIGURE 1. Percent of state population using fluoridated water, 1975



Epidemiologic Notes and Reports

**Outbreak of Acute Gastroenteritis Due to Copper Poisoning – Vermont**

Three employees at a Vermont hospital became ill with nausea and vomiting on the afternoon of March 28, 1977, within 5 minutes after consuming a carbonated soft drink in the hospital coffee shop. A survey of hospital employees revealed 46 additional individuals who had onset of gastrointestinal symptoms during the afternoon or evening of the same day. Of 231 individuals who ate or drank in the coffee shop, 38 developed illness versus 11 of 461 employees who did not visit the coffee shop ( $\chi^2=44.1$   $p<0.01$ ). Of the 189 employees who drank, with or without ice, water or carbonated beverages made from this water, 36 became ill versus 1 of 39 employees who did not consume one of these beverages ( $\chi^2=5.3$   $p<0.02$ ). (A beverage history was not available on the other ill individual who had visited the coffee shop.) Twenty-one of these 36 ill individuals had onset within 2 hours of being in the coffee shop.

Samples of water and of ice produced in an ice machine on the same water distribution system indicated pH levels below 5.4 (the normal water pH level for this community is 6.8) and the presence of a blue precipitate. After resuspension of the precipitate in the laboratory, the copper levels in the water and ice samples ranged from 7-70 mg/l. (The Environmental Protection Agency recommends that copper in public water supply sources not exceed 1 mg/l [1]).

Blood and stool samples for copper were normal in those individuals tested, but samples were collected more than 24 hours after illness ended.

The carbonated beverages were dispersed from a machine that was supplied by carbonated water produced in a system adjacent to the machine. Carbon dioxide gas from pressurized tanks was mixed with water to form the carbonated water used in the soft drink dispenser. A defective check valve had permitted the CO<sub>2</sub> gas and carbonated water to flow back into the copper piping of the hospital water system. Leaching of the copper from the pipes resulted in high levels of copper in the water supplied to the beverage and ice machines and to the tap.

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**Editorial Note:** Ingestion of beverages containing high concentrations of copper (2), zinc (3), and tin (4) has been associated with acute gastroenteritis within one hour of exposure. No chronic systemic effects have been noted in such acute exposures. Leaching of metals from the lining of storage containers by acidic beverages has been the usual  
*(Continued on page 223)*

**Table I. Summary—Cases of Specified Notifiable Diseases: United States**

*(Cumulative totals include revised and delayed reports through previous weeks)*

DISEASE	26th WEEK ENDING		MEDIAN 1972-1976	CUMULATIVE, FIRST 26 WEEKS		
	July 3, 1977	July 2, 1976		July 3, 1977	July 2, 1976	MEDIAN 1972-1976
Aseptic meningitis	60	51	68	1,056	972	1,006
Brucellosis	4	5	5	97	129	89
Chickenpox	2,497	2,118	---	153,954	140,551	---
Diphtheria	2	4	2	52	116	116
Encephalitis	Primary	15	25	317	402	422
	Post-Infectious	2	4	102	150	150
Hepatitis, Viral	Type B	218	321	7,984	7,314	3,939
	Type A	433	752	15,664	17,713	20,815
	Type unspecified	152	158	4,576	4,380	---
Malaria	16	14	7	217	185	156
Measles (rubeola)	548	732	593	43,932	31,842	22,434
Meningococcal infections, total		30	24	1,058	912	842
	Civilian	30	23	1,053	899	825
	Military	---	1	---	13	21
Mumps	297	495	963	14,208	29,903	42,431
Pertussis	16	15	---	363	470	---
Rubella (German measles)	383	140	312	17,091	9,831	13,983
Tetanus	2	1	2	26	21	37
Tuberculosis	544	701	---	15,199	16,569	---
Tularemia	4	1	3	55	63	63
Typhoid fever	6	15	14	178	170	170
Typhus, tick-borne (Rky. Mt. spotted fever)	44	34	34	419	284	284
<b>Veneral Diseases:</b>						
Gonorrhea	Civilian	15,384	20,253	---	465,013	483,582
	Military	555	296	---	13,255	14,149
Syphilis, primary and secondary	Civilian	255	390	---	10,216	12,254
	Military	7	2	---	150	169
Rabies in animals	50	35	63	1,402	1,351	1,499

**Table II. Notifiable Diseases of Low Frequency: United States**

	CUM.		CUM.
Anthrax:	---	Poliomyelitis, total:	4
Botulism:	69	Paralytic:	4
Congenital rubella syndrome:	8	Psittacosis: Pa. 1, Colo. 1	33
Leprosy: Fla. 1, Hawaii 2	62	Rabies in man:	1
Leptospirosis: Fla. 1	25	Trichinosis:	50
Plague:	4	Typhus, murine: Tex. 1	33

**Table III**  
**Cases of Specified Notifiable Diseases: United States**  
**Weeks Ending July 2, 1977 and July 3, 1976 - 26th Week**

AREA REPORTING	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		
						1977	1976	1977	1977	1977	1977		
UNITED STATES .....	60	4	2,497	2	52	15	25	2	218	433	152	16	217
NEW ENGLAND .....	6	-	390	-	-	-	-	-	8	13	12	1	9
Maine .....	-	-	4	-	-	-	-	-	-	-	-	-	-
New Hampshire* .....	-	-	2	-	-	-	-	-	-	1	-	-	-
Vermont .....	-	-	-	-	-	-	-	-	1	-	-	-	1
Massachusetts .....	5	-	208	-	-	-	-	-	-	4	8	-	2
Rhode Island .....	1	-	70	-	-	-	-	-	1	4	-	-	2
Connecticut .....	-	-	106	-	-	-	-	-	6	4	4	1	4
MIDDLE ATLANTIC .....	6	-	614	-	5	4	3	1	46	81	33	5	57
Upstate New York .....	2	-	366	-	-	-	-	1	6	12	3	-	14
New York City .....	-	-	227	-	5	1	1	-	11	13	5	1	25
New Jersey .....	2	-	NN	-	-	3	1	-	17	30	23	1	7
Pennsylvania .....	2	-	21	-	-	-	1	-	12	26	2	3	11
EAST NORTH CENTRAL ..	10	-	928	-	-	3	4	-	39	76	21	4	17
Ohio* .....	-	-	61	-	-	-	2	-	7	17	-	-	6
Indiana .....	6	-	35	-	-	3	-	-	-	3	3	2	2
Illinois .....	-	-	309	-	-	-	1	-	6	24	10	1	2
Michigan .....	4	-	329	-	-	-	1	-	20	27	8	1	4
Wisconsin .....	-	-	194	-	-	-	-	-	6	5	-	-	3
WEST NORTH CENTRAL ..	-	-	88	-	1	-	1	-	16	19	9	-	16
Minnesota .....	-	-	1	-	-	-	1	-	5	2	-	-	4
Iowa .....	-	-	3	-	-	-	-	-	4	1	2	-	-
Missouri .....	-	-	2	-	1	-	-	-	-	10	4	-	8
North Dakota* .....	-	-	-	-	-	-	-	-	-	-	-	-	-
South Dakota .....	-	-	-	-	-	-	-	-	-	1	-	-	1
Nebraska* .....	-	-	82	-	-	-	-	-	6	2	1	-	-
Kansas .....	-	-	-	-	-	-	-	-	1	3	2	-	3
SOUTH ATLANTIC .....	10	-	192	-	-	2	3	-	37	93	22	1	30
Delaware .....	-	-	1	-	-	-	-	-	2	-	-	-	-
Maryland .....	1	-	3	-	-	-	2	-	10	6	2	-	7
District of Columbia ..	-	-	4	-	-	-	-	-	3	3	1	-	1
Virginia* .....	-	-	20	-	-	-	1	-	1	4	6	-	4
West Virginia* .....	-	-	53	-	-	2	-	-	1	4	-	-	1
North Carolina .....	6	-	NN	-	-	-	-	-	3	9	6	-	4
South Carolina .....	-	-	7	-	-	-	-	-	-	1	2	-	-
Georgia .....	-	-	-	-	-	-	-	-	4	33	-	1	7
Florida* .....	3	-	104	-	-	-	-	-	13	33	5	-	6
EAST SOUTH CENTRAL ..	7	2	4	-	-	-	6	-	24	40	5	2	5
Kentucky .....	2	-	4	-	-	-	-	-	-	-	-	-	3
Tennessee .....	5	2	NN	-	-	-	1	-	18	32	4	-	-
Alabama .....	-	-	-	-	-	-	-	-	5	3	1	2	2
Mississippi .....	-	-	-	-	-	-	5	-	1	5	-	-	-
WEST SOUTH CENTRAL ..	18	2	44	1	2	6	1	1	14	38	27	1	11
Arkansas* .....	-	-	-	-	-	-	-	-	1	4	-	-	-
Louisiana .....	NA	NA	NN	NA	-	NA	1	NA	NA	NA	NA	NA	1
Oklahoma .....	1	-	3	-	-	1	-	-	3	3	2	-	-
Texas .....	17	2	41	1	2	5	-	1	10	31	25	1	10
MOUNTAIN .....	-	-	100	-	3	-	-	-	10	57	14	2	8
Montana .....	-	-	8	-	-	-	-	-	-	1	-	-	-
Idaho .....	-	-	3	-	-	-	-	-	-	7	-	-	-
Wyoming .....	-	-	-	-	-	-	-	-	-	-	-	-	1
Colorado* .....	-	-	72	-	-	-	-	-	5	17	3	1	5
New Mexico .....	-	-	1	-	2	-	-	-	2	11	3	1	1
Arizona .....	-	-	NN	-	1	-	-	-	3	14	4	-	1
Utah .....	-	-	12	-	-	-	-	-	-	7	4	-	-
Nevada .....	-	-	4	-	-	-	-	-	-	-	-	-	-
PACIFIC .....	3	-	137	1	41	-	7	-	24	16	9	-	64
Washington .....	-	-	123	1	38	-	-	-	9	2	7	-	4
Oregon .....	3	-	-	-	-	-	-	-	7	10	2	-	1
California .....	NA	NA	NA	NA	1	NA	7	-	-	NA	NA	NA	53
Alaska .....	-	-	3	-	2	-	-	-	2	1	-	-	2
Hawaii .....	-	-	11	-	-	-	-	-	6	3	-	-	4
Guam* .....	NA	NA	NA	NA	-	NA	-	-	-	NA	NA	NA	-
Puerto Rico .....	-	-	12	-	-	1	-	-	1	1	4	-	1
Virgin Islands .....	-	-	2	-	-	-	-	-	-	-	-	-	-

NN: Not notifiable

NA: Not available

\*Delayed reports: Asep. meng.: Fla. delete 2; Chickenpox: N. Hamp add 31, Guam add 3; Enceph.: Ark. add 1; Hep. B: Ohio add 1, Neb. delete 1, Va. add 1, W. Va. delete 1, Fla. delete 3, Colo. delete 1, Guam add 1; Hep. A: Ohio delete 1, N. Dak. add 1, Va. add 2, W. Va. add 1, Fla. delete 1, Guam add 1; Hep. unsp.: Neb. add 1, Va. delete 3, Guam add 1

Table III-Continued  
Cases of Specified Notifiable Diseases: United States  
Weeks Ending July 2, 1977 and July 3, 1976 - 26th Week

REPORTING AREA	MEASLES (Rubella)			MENINGOCOCCAL INFECTIONS TOTAL			MUMPS		PERTUSSIS	RUBELLA		TETANUS
	1977	CUMULATIVE		1977	CUMULATIVE		1977	CUM. 1977	1977	1977	CUM. 1977	CUM. 1977
		1977	1978		1977	1978						
UNITED STATES .....	948	48,932	31,842	30	1,058	912	297	14,208	16	383	17,091	26
NEW ENGLAND .....	47	2,412	348	2	43	41	9	604	-	19	1,144	-
Maine .....	3	163	6	-	3	-	3	45	-	-	68	-
New Hampshire* .....	3	508	7	-	3	4	-	89	-	4	239	-
Vermont .....	-	291	19	-	4	3	-	5	-	-	63	-
Massachusetts* .....	13	644	36	1	13	11	4	111	-	10	358	-
Rhode Island .....	-	58	14	-	-	4	-	49	-	-	130	-
Connecticut .....	28	748	266	1	20	19	2	305	-	5	286	-
MIDDLE ATLANTIC .....	400	7,500	6,564	7	153	121	68	1,127	3	242	5,618	2
Upstate New York .....	308	3,214	2,731	-	36	46	28	240	2	217	3,044	1
New York City .....	55	544	393	4	35	34	20	414	-	13	284	-
New Jersey .....	10	190	575	-	23	17	19	330	-	8	1,750	1
Pennsylvania .....	27	3,552	2,865	3	53	24	1	143	1	4	540	-
EAST NORTH CENTRAL ..	185	9,741	13,605	2	103	117	128	4,940	1	72	3,481	2
Ohio .....	37	978	550	1	36	49	-	620	-	9	1,080	-
Indiana .....	38	4,223	2,922	-	7	5	6	261	-	2	878	1
Illinois .....	49	1,373	1,415	-	13	12	17	814	-	9	287	-
Michigan .....	12	858	5,524	1	28	43	79	1,750	-	45	871	1
Wisconsin .....	49	2,309	3,194	-	13	8	26	1,495	1	7	365	-
WEST NORTH CENTRAL ..	42	9,350	1,159	-	64	65	21	3,329	-	-	483	3
Minnesota .....	7	2,591	389	-	21	14	-	5	-	-	16	1
Iowa* .....	27	4,263	36	-	5	8	-	1,241	-	-	156	-
Missouri* .....	7	918	14	-	26	21	13	1,039	-	-	33	1
North Dakota .....	1	21	3	-	1	3	-	13	-	-	10	-
South Dakota* .....	-	51	4	-	4	2	-	59	-	-	17	-
Nebraska .....	-	192	54	-	1	4	8	63	-	-	2	-
Kansas .....	-	1,314	659	-	6	13	-	909	-	-	249	1
SOUTH ATLANTIC .....	149	4,155	1,805	12	229	180	15	610	1	24	1,535	8
Delaware .....	-	22	126	-	3	3	7	102	-	-	23	-
Maryland .....	23	366	671	-	15	16	-	44	-	-	5	-
District of Columbia ..	-	1	9	-	-	2	-	5	-	-	-	-
Virginia .....	110	2,454	498	1	14	30	1	81	-	1	557	1
West Virginia .....	3	202	172	-	8	4	3	139	-	2	92	-
North Carolina .....	9	59	-	3	57	34	4	36	1	21	435	-
South Carolina .....	-	145	4	2	24	31	-	10	-	-	206	-
Georgia .....	2	720	1	1	38	16	-	13	-	-	47	1
Florida* .....	2	186	324	5	70	44	-	180	-	-	170	6
EAST SOUTH CENTRAL ..	49	1,839	744	2	118	81	18	736	-	12	1,881	2
Kentucky .....	41	1,106	706	-	19	14	-	79	-	-	73	1
Tennessee .....	8	629	23	1	32	35	17	438	-	11	1,692	1
Alabama .....	-	76	-	1	46	23	-	191	-	-	108	-
Mississippi .....	-	28	15	-	21	9	1	28	-	1	8	-
WEST SOUTH CENTRAL ..	27	1,982	626	2	186	144	28	1,228	4	4	732	4
Arkansas* .....	-	28	-	-	9	8	-	30	-	-	3	1
Louisiana .....	NA	74	180	-	68	26	NA	30	NA	NA	26	1
Oklahoma .....	-	52	282	-	11	18	2	447	-	-	27	-
Texas .....	27	1,828	164	2	98	92	26	721	4	4	676	2
MOUNTAIN .....	38	2,399	4,931	2	39	28	6	552	1	6	329	1
Montana .....	6	1,133	201	-	2	3	-	7	-	-	12	-
Idaho .....	2	127	2,020	-	4	3	1	118	-	1	11	-
Wyoming .....	-	13	3	-	1	-	-	-	-	-	2	1
Colorado .....	4	480	236	-	1	5	-	246	-	3	229	-
New Mexico .....	2	267	15	-	17	3	2	104	1	-	9	-
Arizona .....	24	286	225	1	11	8	-	-	-	-	10	-
Utah .....	-	6	2,168	1	2	4	-	67	-	-	47	-
Nevada .....	-	87	63	-	1	2	3	10	-	2	9	-
PACIFIC .....	11	9,554	2,060	1	123	135	4	1,082	6	4	1,888	4
Washington .....	7	509	310	1	16	20	-	254	4	-	429	-
Oregon .....	3	318	133	-	11	13	3	195	2	-	98	-
California .....	NA	8,637	1,615	-	72	90	NA	590	NA	NA	1,337	4
Alaska .....	1	56	-	-	22	10	-	25	-	-	1	-
Hawaii .....	-	34	2	-	2	2	1	18	-	4	23	-
Guam* .....	NA	4	10	-	-	-	NA	2	NA	NA	6	-
Puerto Rico .....	16	757	250	1	1	3	39	543	-	-	29	7
Virgin Islands .....	2	12	7	-	-	-	3	179	-	1	1	-

NA: Not available

\*Delayed reports: Measles: N. Hamp. add 1, Mass. delete 1, Iowa delete 5, Mo. delete 2, S. Dak. add 14, Fla. add 2, Ark. add 1; Mumps: Guam add 1; Pertussis: N. Hamp. add 6, Ark. add 1; Rubella: Guam add 1

Table III-Continued  
**Cases of Specified Notifiable Diseases: United States**  
*Weeks Ending July 2, 1977 and July 3, 1976 - 26th Week*

REPORTING AREA	TUBERCULOSIS		TULA- REMI- A	TYPHOID FEVER		TYPHUS-FEVER TICK-BORNE (RMSF)		VENEREAL DISEASES (Civilian Cases Only)						RABIES IN ANIMALS
								GONORRHEA			SYPHILIS (Pri. & Sec.)			
	1977	CUM. 1977	CUM. 1977	1977	CUM. 1977	1977	CUM. 1977	CUMULATIVE			CUMULATIVE		CUM. 1977	
								1977	1976	1977	1976	1977	1976	
UNITED STATES	544	15,195	55	6	178	44	419	15,384	466,013	483,582	255	10,216	12,254	1,402
NEW ENGLAND	17	567	1	-	11	-	5	439	11,982	12,877	16	427	358	20
Maine*	1	42	-	-	-	-	-	27	846	1,130	2	12	8	18
New Hampshire	-	17	-	-	-	-	-	21	486	353	-	3	5	1
Vermont	2	23	-	-	-	-	-	9	308	319	1	6	2	-
Massachusetts	7	309	1	-	8	-	-	234	5,272	6,153	13	309	252	-
Rhode Island	2	43	-	-	2	-	3	22	988	868	-	6	13	-
Connecticut	5	133	-	-	1	-	2	126	4,082	4,054	-	91	78	1
MIDDLE ATLANTIC	123	2,457	1	4	37	-	24	1,256	47,354	54,294	23	1,419	2,083	31
Upstate New York	23	393	1	-	5	-	12	557	8,028	8,714	8	134	138	17
New York City	38	809	-	1	14	-	-	NA	18,776	24,254	NA	881	1,312	-
New Jersey	37	628	-	3	16	-	4	160	7,851	8,327	7	187	282	13
Pennsylvania	25	627	-	-	2	-	8	579	12,699	12,999	8	217	351	1
EAST NORTH CENTRAL	101	2,393	3	2	18	4	5	3,048	72,716	75,937	26	1,079	1,028	53
Ohio*	19	377	1	2	7	2	2	828	18,975	18,715	-	263	258	-
Indiana	15	278	-	-	1	2	2	158	6,279	7,144	10	85	53	2
Illinois	38	946	-	-	1	-	-	987	24,113	27,281	1	555	527	15
Michigan*	26	684	-	-	9	-	1	742	16,579	16,171	11	123	136	3
Wisconsin	3	108	2	-	-	-	-	333	6,770	6,626	4	53	54	33
WEST NORTH CENTRAL	22	528	5	-	12	3	13	1,243	24,749	24,935	6	243	214	336
Minnesota	4	113	-	-	4	-	-	308	4,428	4,501	3	74	46	118
Iowa	-	54	-	-	-	-	-	73	2,917	3,118	-	27	21	59
Missouri	15	223	4	-	4	1	8	510	10,470	9,891	-	81	90	28
North Dakota	-	13	-	-	-	-	-	17	448	369	-	-	-	45
South Dakota	-	25	1	-	-	-	-	12	644	687	-	2	2	59
Nebraska	1	19	-	-	1	-	-	100	2,171	2,180	3	25	14	1
Kansas	2	81	-	-	3	2	5	223	3,671	4,189	-	34	41	26
SOUTH ATLANTIC	131	3,438	8	-	30	22	229	4,450	115,115	118,215	106	2,965	3,723	145
Delaware	-	26	-	-	-	-	1	40	1,541	1,495	-	16	39	1
Maryland	18	487	1	-	-	4	26	537	14,640	15,840	6	201	314	-
District of Columbia	3	167	-	-	1	-	-	248	7,582	8,128	11	310	298	-
Virginia*	20	389	-	-	7	4	70	487	11,981	12,555	17	297	320	2
West Virginia	3	125	-	-	3	-	1	56	1,668	1,533	-	1	17	2
North Carolina*	23	587	2	-	2	13	92	573	16,935	16,999	4	420	697	4
South Carolina	9	316	2	-	-	1	19	317	10,643	11,692	7	129	198	3
Georgia	NA	372	3	-	9	-	21	997	22,497	21,877	24	567	519	97
Florida*	55	969	-	-	8	-	-	1,195	27,628	28,096	37	1,024	1,321	36
EAST SOUTH CENTRAL	42	1,337	4	-	3	5	60	1,422	41,433	43,195	7	358	488	43
Kentucky	17	322	1	-	-	-	10	233	5,665	5,421	3	42	73	12
Tennessee	6	429	3	-	1	5	46	707	16,621	16,961	4	116	188	24
Alabama	5	361	-	-	1	-	4	324	11,553	12,324	-	60	95	7
Mississippi	14	225	-	-	1	-	-	158	7,594	8,489	-	140	132	-
WEST SOUTH CENTRAL	71	1,802	27	-	8	8	79	2,158	59,929	64,125	56	1,435	1,410	476
Arkansas*	11	207	16	-	1	-	9	93	4,624	6,048	-	30	44	66
Louisiana	NA	336	1	NA	-	NA	-	NA	8,514	9,367	28	320	301	4
Oklahoma	11	180	4	-	1	2	50	259	5,610	5,882	2	39	54	161
Texas	49	1,079	6	-	6	6	20	1,806	41,181	42,828	26	1,046	1,011	245
MOUNTAIN	22	411	5	-	14	2	4	793	18,984	19,335	9	224	369	72
Montana	-	22	1	-	-	1	3	39	909	965	-	2	4	31
Idaho	5	24	-	-	-	-	-	25	880	1,012	-	4	14	-
Wyoming*	-	7	1	-	-	1	1	19	462	384	1	15	7	1
Colorado*	-	64	2	-	7	-	-	260	4,960	4,803	2	64	89	11
New Mexico	6	62	-	-	-	-	-	118	2,786	3,711	-	40	92	-
Arizona	4	188	1	-	3	-	-	218	5,536	5,812	5	88	123	27
Utah	-	15	-	-	4	-	-	39	1,052	930	-	4	16	2
Nevada	7	29	-	-	-	-	-	75	2,399	1,718	1	7	24	-
PACIFIC	15	2,266	1	-	45	-	-	535	73,751	70,669	6	2,066	2,581	226
Washington	NA	132	-	-	1	-	-	215	5,729	6,031	NA	76	73	-
Oregon	3	105	-	-	3	-	-	184	5,261	5,362	2	66	59	1
California	NA	1,679	1	NA	40	NA	-	NA	58,656	55,933	NA	1,887	2,390	213
Alaska	4	35	-	-	-	-	-	87	2,468	1,982	3	16	10	12
Hawaii	8	315	-	-	1	-	-	49	1,637	1,361	1	21	49	-
Guam*	NA	33	-	NA	1	NA	-	NA	104	181	NA	1	1	-
Puerto Rico	7	173	-	-	4	-	-	97	1,629	1,321	9	284	293	33
Virgin Islands	-	1	-	-	-	-	-	2	98	134	-	3	39	-

NA: Not available

\*Delayed reports: TB: Ohio delete 1, Mich. delete 3, N. Car. delete 1, Guam add 1; Tularemia: Ark. add 3; Typhoid fever: Va. add 1, Fla. delete 1; RMSF: Ark. add 2; GC: Me. add 40, Guam add 1; Syphilis: Wyo. delete 20, Colo. delete 23 (1976) Wyo. delete 12 (1977)

**Table IV**  
**Deaths in 121 United States Cities\***  
*Week Ending July 2, 1977 - 26th Week*

REPORTING AREA	ALL CAUSES					Pneumonia and Influenza ALL AGES	REPORTING 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	
<b>NEW ENGLAND</b> . . . . .	608	375	163	30	18	24	<b>SOUTH ATLANTIC</b> . . . . .	993	532	301	84	46	26
Boston, Mass. . . . .	212	115	67	13	6	2	Atlanta, Ga. . . . .	52	26	18	4	3	2
Bridgeport, Conn. . . . .	37	18	12	4	-	1	Baltimore, Md. . . . .	245	123	79	22	12	3
Cambridge, Mass. . . . .	15	11	3	1	-	4	Charlotte, N. C. . . . .	41	19	12	1	6	1
Fall River, Mass. . . . .	23	17	5	-	-	4	Jacksonville, Fla. . . . .	76	41	27	5	-	2
Hartford, Conn. . . . .	31	16	9	2	1	1	Miami, Fla. . . . .	94	56	27	8	2	1
Lowell, Mass. . . . .	19	14	2	1	1	-	Norfolk, Va. . . . .	56	26	19	4	3	4
Lynn, Mass. . . . .	18	11	6	1	-	-	Richmond, Va. . . . .	74	36	25	10	2	2
New Bedford, Mass. . . . .	21	16	4	1	-	-	Savannah, Ga. . . . .	27	14	9	2	1	-
New Haven, Conn. . . . .	43	31	10	-	2	-	St. Petersburg, Fla. . . . .	82	69	8	5	-	2
Providence, R.I. . . . .	55	35	11	2	5	5	Tampa, Fla. . . . .	69	34	18	7	7	7
Somerville, Mass. . . . .	8	7	1	-	-	2	Washington, D. C. . . . .	117	53	41	14	7	2
Springfield, Mass. . . . .	49	34	11	2	2	2	Wilmington, Del. . . . .	60	35	18	2	3	-
Waterbury, Conn. . . . .	34	20	11	2	1	3							
Worcester, Mass. . . . .	43	30	11	1	-	4							
<b>MIDDLE ATLANTIC</b> . . . . .	2,741	1,698	704	176	78	93	<b>EAST SOUTH CENTRAL</b> . . . . .	638	372	168	47	25	29
Albany, N. Y. . . . .	49	32	6	3	1	-	Birmingham, Ala. . . . .	90	56	24	7	2	4
Allentown, Pa. . . . .	16	13	2	-	-	-	Chattanooga, Tenn. . . . .	53	28	17	4	-	8
Buffalo, N. Y. . . . .	108	72	24	4	5	5	Knoxville, Tenn. . . . .	46	29	10	7	-	-
Camden, N. J. . . . .	36	19	13	3	-	1	Louisville, Ky. . . . .	106	62	26	7	8	6
Elizabeth, N. J. . . . .	23	13	8	1	-	-	Memphis, Tenn. . . . .	146	83	38	10	8	3
Erie, Pa. . . . .	37	26	7	1	2	2	Mobile, Ala. . . . .	55	35	12	4	1	2
Jersey City, N. J. . . . .	49	30	13	2	2	-	Montgomery, Ala. . . . .	32	20	6	1	2	1
Newark, N. J. . . . .	27	13	9	2	2	-	Nashville, Tenn. . . . .	110	59	35	7	4	5
New York City, N. Y. . . . .	1,374	827	383	94	34	44	<b>WEST SOUTH CENTRAL</b> . . . . .	1,099	596	295	97	64	21
Paterson, N. J. . . . .	38	20	8	3	4	5	Austin, Tex. . . . .	49	30	9	3	5	1
Philadelphia, Pa. . . . .	407	246	105	35	13	7	Baton Rouge, La. . . . .	51	25	12	7	4	1
Pittsburgh, Pa. . . . .	179	105	47	11	8	7	Corpus Christi, Tex. . . . .	37	19	8	2	5	-
Reading, Pa. . . . .	35	27	5	3	-	1	Dallas, Tex. . . . .	158	81	49	17	3	2
Rochester, N. Y. . . . .	125	91	23	4	3	14	El Paso, Tex. . . . .	42	21	14	2	5	3
Schenectady, N. Y. . . . .	26	18	7	-	-	2	Fort Worth, Tex. . . . .	95	52	24	6	8	1
Scranton, Pa. . . . .	42	32	9	1	-	-	Houston, Tex. . . . .	209	121	53	18	4	1
Syracuse, N. Y. . . . .	104	65	23	7	4	3	Little Rock, Ark. . . . .	63	31	13	9	5	5
Trenton, N. J. . . . .	29	22	6	1	-	-	New Orleans, La. . . . .	143	74	42	17	8	-
Utica, N. Y. . . . .	17	14	2	1	-	-	San Antonio, Tex. . . . .	123	62	35	11	11	2
Yonkers, N. Y. . . . .	20	13	4	-	-	2	Shreveport, La. . . . .	68	41	21	2	3	1
							Tulsa, Okla. . . . .	61	39	15	3	3	4
<b>EAST NORTH CENTRAL</b> . . . . .	2,188	1,292	571	130	96	61	<b>MOUNTAIN</b> . . . . .	470	273	114	37	30	13
Akron, Ohio . . . . .	46	30	9	-	5	-	Albuquerque, N. Mex. . . . .	52	27	17	4	2	-
Canton, Ohio . . . . .	41	32	9	-	-	1	Colorado Springs, Colo. . . . .	17	10	4	2	-	2
Chicago, Ill. . . . .	519	284	147	41	16	11	Denver, Colo. . . . .	104	55	26	12	10	5
Cincinnati, Ohio . . . . .	126	80	29	8	4	6	Las Vegas, Nev. . . . .	27	14	9	1	2	-
Cleveland, Ohio . . . . .	140	82	36	11	4	6	Ogden, Utah . . . . .	14	9	3	1	-	-
Columbus, Ohio . . . . .	140	78	37	12	7	3	Phoenix, Ariz. . . . .	108	65	22	6	10	1
Dayton, Ohio . . . . .	99	53	26	6	7	1	Pueblo, Colo. . . . .	17	12	2	3	-	4
Detroit, Mich. . . . .	289	167	82	18	14	11	Salt Lake City, Utah . . . . .	69	44	17	3	5	1
Evansville, Ind. . . . .	45	29	12	2	1	-	Tucson, Ariz. . . . .	62	37	14	5	1	-
Fort Wayne, Ind. . . . .	60	38	16	-	2	-							
Gary, Ind. . . . .	21	17	-	2	1	-	<b>PACIFIC</b> . . . . .	1,553	970	360	104	63	23
Grand Rapids, Mich. . . . .	56	37	11	1	5	6	Berkeley, Calif. . . . .	19	16	2	-	1	-
Indianapolis, Ind. . . . .	150	76	46	10	10	3	Fresno, Calif. . . . .	61	42	10	3	4	3
Madison, Wis. . . . .	35	21	9	2	2	6	Glendale, Calif. . . . .	21	17	4	-	-	-
Milwaukee, Wis. . . . .	142	96	31	6	5	-	Honolulu, Hawaii . . . . .	49	30	13	3	3	1
Peoria, Ill. . . . .	48	31	9	3	2	2	Long Beach, Calif. . . . .	78	40	24	6	4	1
Rockford, Ill. . . . .	41	30	6	2	1	3	Los Angeles, Calif. . . . .	449	268	110	37	14	5
South Bend, Ind. . . . .	36	25	7	2	1	1	Oakland, Calif. . . . .	77	49	13	4	4	2
Toledo, Ohio . . . . .	96	58	27	4	5	1	Pasadena, Calif. . . . .	28	23	4	1	-	-
Youngstown, Ohio . . . . .	58	28	22	-	4	-	Portland, Oreg. . . . .	141	96	28	6	9	2
							Sacramento, Calif. . . . .	69	42	19	3	2	-
<b>WEST NORTH CENTRAL</b> . . . . .	753	471	169	43	35	20	San Diego, Calif. . . . .	128	75	28	10	8	-
Des Moines, Iowa . . . . .	63	37	18	3	3	2	San Francisco, Calif. . . . .	139	87	32	12	5	2
Duluth, Minn. . . . .	29	17	6	3	2	4	San Jose, Calif. . . . .	63	36	15	8	3	1
Kansas City, Kans. . . . .	37	17	10	5	2	-	Seattle, Wash. . . . .	137	86	39	5	3	4
Kansas City, Mo. . . . .	135	78	34	4	9	1	Spokane, Wash. . . . .	49	32	8	5	2	-
Lincoln, Nebr. . . . .	20	16	3	1	-	1	Tacoma, Wash. . . . .	45	31	11	1	1	2
Minneapolis, Minn. . . . .	87	48	20	8	5	-							
Omaha, Nebr. . . . .	79	47	20	5	4	1	<b>TOTAL</b> . . . . .	11,043	6,579	2,845	748	455	310
St. Louis, Mo. . . . .	163	111	36	8	6	2	Expected Number . . . . .	11,217	6,731	2,908	744	380	347
St. Paul, Minn. . . . .	67	52	11	2	2	1							
Wichita, Kans. . . . .	73	48	11	4	2	8							

\*By place of occurrence and week of filing certificate. Excludes fetal deaths.

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The editor welcomes accounts of interesting cases, outbreaks, environmental hazards, or other public health problems of current interest to health officials. Send reports to: Center for Disease Control, Attn.: Editor, Morbidity and Mortality Weekly Report, Atlanta, Georgia 30333.

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**Gastroenteritis – Continued**

mechanism of beverage contamination. Although these substances may impart an unpleasant taste to the beverage (the taste threshold for copper is 1.0 – 5.0 mg/l) (1), soft drink flavoring may mask the objectionable taste.

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**International Notes**

**Salmonella Surveillance – Czechoslovakia**

In 1939, Czechoslovakia started systematic surveillance of *Salmonella* isolates. That year, only 7 different *Salmonella* serotypes were reported in the country. After World War II, expanded importation of different products of animal origin was followed by a mass importation of new, exotic *Salmonella* types. By 1962, 89 *Salmonella* types were identified in Czechoslovakia; by 1972, the number was up to 171, by 1976, 188.

Following the war, the introduction of new serotypes was associated with the importation of dry egg powder, eggs, pigs, poultry, and bone and fish meals from other continents. One of these new serotypes was *S. agona*, imported from Africa in fish meal. The first isolation of this serotype from man in Czechoslovakia was reported in 1970. By 1971, it was fifth in importance of *Salmonellae* causing disease in man. From 1972 through 1975, it was the most important cause of human infection in outbreaks and in sporadic cases. In 1976, it was third, with *S. typhimurium* first.

*S. agona* is often isolated from material of animal origin – including meat and eggs – and from husbandry feeds in Czechoslovakia's State Veterinary Service Laboratories. Also, the number of cases of person-to-person transmission in families and especially in maternity wards of hospitals continues to increase. Enhanced virulence and transmission in relatively low infective doses both have been observed with this serotype.

Reported by K Raska, MD, DSc, Institute of Landscape Biology Czechoslovak Academy of Sciences; D Matejovska, PhD, CSC, Head, Salmonella Reference Laboratory, Czechoslovakia.

**Editorial Note:** This corroborates previous descriptions of the rapid emergence and unusual epidemiologic virulence of *S. agona* (1,2).

**References**

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2. MMWR 26:129-130, 1977

**Current Trends**

**Results of Testing for Gonorrhea – United States  
12-Month period Ending December 31, 1976**

In the 12-month period ending December 31, 1976, a total of 8,953,358 specimens were taken from women as part of gonorrhea testing programs; 391,809 (4.4%) were found to be positive. Table 1 reflects the results of such testing by the types of health care facilities securing the

specimen. Although the positivity rates were highest (18.7%) in venereal disease clinics, 90% of all tests were performed in other settings. In these settings culture positivity rates in women ranged from 1.6% among private family planning groups to 5.6% for women in manpower training agencies.

TABLE 1. Results of gonorrhea culture tests on females – United States, \* January 1976-December 1976

REPORTING SOURCE	NUMBER TESTED	NUMBER POSITIVE	PERCENT POSITIVE	REPORTING SOURCE	NUMBER TESTED	NUMBER POSITIVE	PERCENT POSITIVE
Health Care Providers (Excluding VD Clinics)	8,025,502	218,490	2.7	Health Care Providers (Excluding VD Clinics—Con't.)			
Health Department Non-VD Clinic	1,789,370	55,876	3.1	Private Physicians	2,254,238	44,176	2.0
Family Planning	1,292,224	39,489	3.1	Private Family Planning Groups	984,488	15,905	1.6
Prenatal, Ob-Gyn	189,973	5,434	2.8	Group Health Clinics	140,490	2,769	2.0
Cancer Detection	24,459	293	2.1	Student Health Centers	219,633	3,924	1.8
Combinations or Other	292,714	10,460	3.6	Manpower Training Agencies	11,786	665	5.6
Public/Private Hospital—Outpatient	1,466,082	60,845	4.2	Industrial Screening	3,314	74	2.2
Family Planning	242,624	7,850	3.2	Military/Dependents	92,376	2,096	2.3
Prenatal, Ob-Gyn	322,876	10,417	3.2	Correctional or Detention Centers	56,532	2,819	5.0
Cancer Detection	19,808	589	3.0	Not Specified	151,595	5,707	3.8
Combinations or Other	880,984	41,989	4.8	Venereal Disease Clinics	927,856	173,319	18.7
Public/Private Hospital—Inpatient	66,915	1,724	2.6	<b>TOTAL (All Clinics)</b>	<b>8,953,358</b>	<b>391,809</b>	<b>4.4</b>
Obstetric	4,207	97	2.3				
Gynecologic	1,360	37	2.7				
Combinations or Other	61,348	1,590	2.6				
Community Health Centers	778,663	22,110	2.8				
Family Planning	253,813	4,987	2.0				
Prenatal, Ob-Gyn	56,974	1,366	2.4				
Cancer Detection	9,289	62	.7				
Combinations or Other	458,807	15,715	3.4				

\*Excludes Trust Territories (April-December 1976).

Source: CDC 9.124, CDC, Venereal Disease Control Division, Atlanta, Georgia

(Continued on page 224)

**Gonorrhea — Continued**

Among 2,254,238 women tested by private physicians, cultures from 44,176 (2.0%) were positive.

Provisional data indicate that an additional 2,133,908 women were tested at all types of facilities in January-

March 1977, or about 711,303 per month. For this period, the overall positivity rate of cultures from all sources was 4.4%.

Reported by Venereal Disease Control Div, Bur of State Services, CDC.

**Legionnaires' Disease — United States**

Nineteen sporadic cases of pneumonia with onset since August 1, 1976, apparently due to the bacterium that caused Legionnaires' disease have been identified. From 3 of the cases the bacterium has been isolated; in the other 16 4-fold or greater rises in IFA titer to the bacterium were found. Six cases were fatal. Sixteen cases were in men; ages ranged from 31 to 67 years. Cases have been recognized in residents of 11 states including California (2), Florida (1), Indiana (1), Massachusetts (4), Michigan (3), Missouri (2), New Jersey (1), Pennsylvania (1), Tennessee (1), Vermont (2), and Washington (1).

Reported by P Nash, PhD, Bur of Laboratories, Pennsylvania Dept of Health; Leprosy and Rickettsia Br, Viral Diseases Div, Bur of Laboratories, and Special Pathogens Br, Bacterial Diseases Div, Bur of Epidemiology, CDC.

**Editorial Note:** The wide distribution of sporadic cases of illness apparently due to the bacterium that caused Legionnaires' disease and the occurrence of outbreaks as early as 1965 (1) suggest that the disease is neither new nor localized. Investigation continues into the possible source of the bacterium in nature.

**Reference**

1. MMWR 26:9-11, 1977

**International Notes****Quarantine Measures**

The following changes should be made in the listing of U.S. Designated Yellow Fever Vaccination Centers included in the "Supplement—Health Information for International Travel," MMWR, Vol. 24, December 1975:

**ILLINOIS**

**Chicago:** Rush-Presbyterian-St. Luke's Medical Center, 1753 West Congress Parkway 60612, 312-942-5865, Clinic hours: Mon., Tues., and Wed., 9 a.m.—12 noon. 312-942-5865

**INDIANA**

**South Bend:** St. Joseph County Health Dept, County-City Bldg. 8th Floor 46601, 219-289-9574, Clinic hours: Mon.-Fri., 8 a.m.-4:30 p.m., fee charged.

**MICHIGAN**

**Grand Rapids:** Kent County Health Dept, 1619 Walker Ave., N.W. 49504, 616-774-3023, Clinic hours: By appointment, Fee charged.

**OKLAHOMA**

**Guymon:** Texas County Health Dept., 1410 North East Street 73942, Clinic hours: Mon.-Fri., 8 a.m.—5 p.m., Fee charged. 405-338-8544

**TEXAS**

**Houston:** Jimmie L. Bergeron, M.D., Suite F, 710 F.M. 1960 West 77090, 713-444-1715, Clinic hours: Mon.-Fri., 8 a.m.-5 p.m.; by appointment weekends & holidays.

The following new Centers have been designated:

**ALABAMA**

**Huntsville:** Madison County Health Department, 304 Eustis Avenue 35804, 205-539-3711, Clinic hours: Mon.—Fri., 8 a.m.—12 noon; 1—4:30 p.m., Fee charged.

**CALIFORNIA**

**Berkeley:** City Health Department, 2180 Milvia Street 94707, 415-644-6459, Clinic hours: Thurs., 2-4 p.m.; first Tues., ea. mo., 5:30—7 p.m., Fee charged.

**Santa Barbara:** Santa Barbara Vaccination and Immunization, Medical Clinic, 1421 Chapala Street, Suite 8, 93101. 805-966-9808

**U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE  
PUBLIC HEALTH SERVICE / CENTER FOR DISEASE CONTROL  
ATLANTA, GEORGIA 30333**

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