

MMWR

MORBIDITY AND MORTALITY WEEKLY REPORT

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Surveillance Summary

Unintended Teenage Childbearing – United States, 1974

An estimated 273,000 unintended births occurred in the United States in 1974 among teenage women 15-19 years old, according to a recent study by the Family Planning Evaluation Division, CDC. An additional 322,000 births among this age group were intended. These estimates cover only births and do not include the estimated 237,000 induced abortions undergone by females 15-19 in that year.

In 1971 and 1972, national probability sample surveys of teenagers were undertaken to determine the percentage of births to married and single teenagers that had been intended* (1,2). When these percentages were applied to state data on the number of births by race and marital status to females aged 15-19, an estimated intended fertility rate for each state for 1974 was calculated. The difference between this rate and the actual fertility rate gave an estimate of the unintended fertility rate (Figure 1). Multiplying the unintended fertility rate by the number of females 15-19 in each state permitted an estimation of the number of unintended births.**

The actual fertility rates of teenagers ranged from 32.0 births per 1,000 females aged 15-19 per year in Massachusetts to 101.6 in Mississippi. Estimated intended fertility rates, dependent to a degree on the state's actual past fertility, also showed a wide variation – from 17.4/1,000 females/year in Connecticut to 49.4 in Georgia. Unintended fertility rates ranged from 12.8 in Massachusetts to 53.4 in Mississippi. California and Texas had the highest number of unintended births – 24,319 and 19,810, respectively.

Estimates of intended fertility were race-specific. The national estimated intended fertility rate for black teenagers was 44% higher than that for whites – 43.2 per 1,000 females versus 29.9. Because of a much higher actual fertility rate for blacks, the national estimated unintended fertility rate for black teenagers was also much higher than that for whites – 75.0 versus 18.7.

Reported by the Program Evaluation Br, Family Planning Evaluation Div, Bur of Epidemiology, CDC.

Editorial Note: The higher teenage fertility rates in the South are partially explained by the fact that blacks, who have generally higher teenage fertility, make up a larger percentage of the teenage population in these states. How-

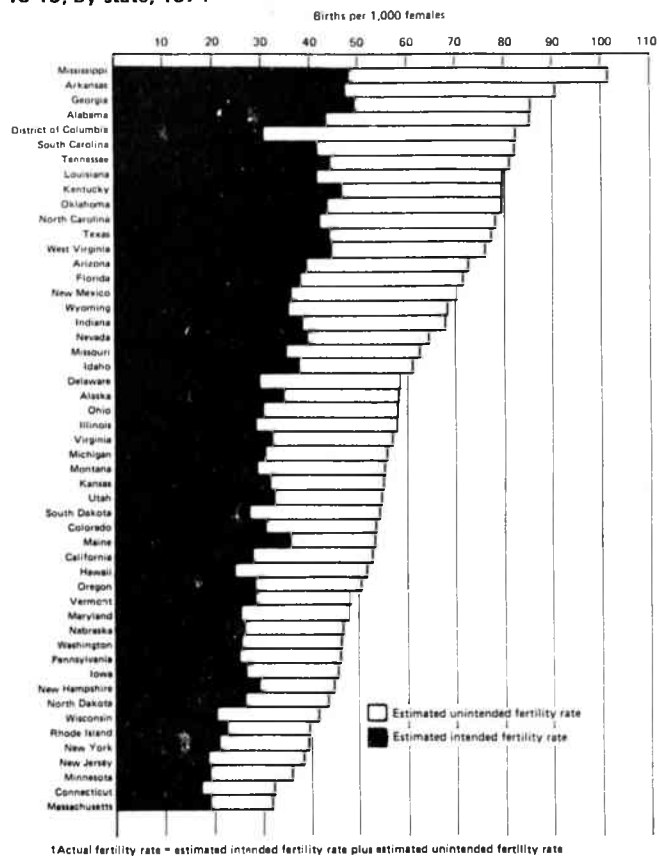
ever, white teenagers in the South also have higher fertility than white teenagers in the rest of the nation.

In addition to the births to teenage women aged 15-19, 12,000 births occurred in 1974 to women 14 and younger. If all of these births were unintended, then the actual number of unintended births to women under 20 for that year would be 285,000.

References

1. Zelnik M, Kantner JF: The resolution of teenage first pregnancies. *Fam Plann Perspect* 6:74-80, 1974
2. National Center for Health Statistics, 1972 National Natality Survey, unpublished analysis by CDC
3. *MMWR* 27:73-74, 1978

FIGURE 1. Fertility rates† in descending order for women aged 15-19, by state, 1974



* Intent was indicated by survey respondents.

** Similar techniques have been used by CDC in estimating the need for family planning services for women of other ages (3).

Teenage childbearing — continued

▲ These data were derived from the surveillance report, Teenage Fertility in the United States: 1960, 1970, 1974: Regional and State Variation and Excess Fertility, issued February 1978.

Copies are available on request from CDC, Attn: Chief, Program Evaluation Br, Family Planning Evaluation Div, Bur of Epidemiology, Atlanta, Georgia 30333.

Current Trends

Decontamination of CPR Training Mannequins

During the past year, CDC has received numerous inquiries concerning the possible role of cardiopulmonary resuscitation (CPR) training mannequins in the transmission of viral hepatitis B. Although instances of persons with hepatitis B using the mannequins in courses have come to light, no outbreak or case of this disease resulting from use of such mannequins has been reported to CDC. Thus, the risk of transmission of hepatitis B in this manner appears remote.

The use of CPR mannequins is apparently increasing rapidly due to expansion of training programs by a number of national medical and emergency organizations. One major manufacturer of CPR mannequins estimates that in 1976 over 1½ million people were trained on a single model of mannequin alone. In the United States, 4 major companies distribute multiple model lines of mannequins for training programs in hospitals, police, and fire departments, service organizations, lay groups, and schools as part of health, first aid, and physical education courses.

In response to inquiries concerning guidelines for decon-

taminating CPR mannequins, the following general precautions are suggested:

1. Becoming thoroughly familiar with the manufacturer's recommendations and provisions for sanitary practices;
2. Not having students participate who have current weeping dermatologic lesions on hands or in oral or circumoral areas or who have upper respiratory disease;
3. Routinely inspecting mannequins for signs of physical deterioration, such as cracks or tears in plastic surfaces;
4. Using protective face shields;
5. Cleaning and decontaminating the mannequin consistently after each class (One method suggested: completely disassembling the mannequin head, thoroughly washing all external and internal surfaces with warm soapy water and brushes; rinsing all surfaces with fresh water; wetting all surfaces with 0.5% sodium hypochlorite solution [1 part household liquid bleach to 9 parts water] for 10 minutes; rinsing again with fresh water; and drying all surfaces with

(Continued on page 138)

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

[Cumulative totals include revised and delayed reports through previous weeks]

DISEASE	15th WEEK ENDING		MEDIAN 1973-1977 ††	CUMULATIVE, FIRST 15 WEEKS		
	April 15, 1978	April 16, 1977 †		April 15, 1978	April 16, 1977 †	MEDIAN 1973-1977 ††
Aseptic meningitis	49	28	34	522	526	526
Brucellosis	—	1	3	33	45	44
Chickenpox	4,163	6,722	5,833	59,931	92,968	84,245
Diphtheria	—	1	4	25	24	69
Encephalitis	Primary	11	8	151	176	227
	Post-Infectious	2	4	36	39	59
	Type B	292	312	228	4,144	4,560
Hepatitis, Viral	Type A	626	592	7,877	9,552	3,106
	Type unspecified	185	143	669	2,477	10,408
	Malaria	3	11	5	118	104
Measles (rubeola)	1,055	2,292	1,428	8,745	23,247	11,997
Meningococcal infections, total	57	36	36	817	662	516
Civilian	56	36	36	807	658	504
Military	1	—	—	10	4	12
Mumps	452	506	1,507	6,156	9,059	23,140
Pertussis	32	10	—	589	206	—
Rubella (German measles)	599	830	818	4,247	9,043	5,755
Tetanus	5	1	1	15	13	14
Tuberculosis	527	557	608	7,932	8,300	8,536
Tularemia	3	3	—	20	24	24
Typhoid fever	6	9	6	120	102	96
Typhus, tick-borne (Rky. Mt. spotted fever)	1	6	3	14	30	16
Veneral Diseases:						
Gonorrhea	16,992	17,656	17,656	261,492	265,899	265,899
Civilian	326	518	512	6,744	7,611	8,341
Military	451	419	467	5,872	6,207	7,480
Syphilis, primary and secondary	6	6	9	87	88	100
Civilian	—	—	—	—	—	—
Military	6	6	9	87	88	100
Rabies in animals	53	64	64	726	739	739

Table II. Notifiable Diseases of Low Frequency: United States

	CUM.		CUM.
Anthrax:	—	Poliomyelitis, total:	—
Botulism:	4	Paralytic:	—
Congenital rubella syndrome:	9	Psittacosis: Conn. 1	30
Leprosy: Tex. 1, Calif. 1	27	Rabies in man:	—
Leptospirosis:	11	Trichinosis: *	11
Plague: Ariz. 1	1	Typhus, murine: Ala. 1, Tex. 1	10

†Delayed reports received for calendar year 1977 are used to update last year's weekly and cumulative totals.

††Medians for Gonorrhea and Syphilis are based on data for 1975-1977

*Delayed reports: Trichinosis: Mass. +1 (1977), N.J. -4 (1978) +4 (1977), Tex. +2 (1977)

Table III
Cases of Specified Notifiable Diseases: United States
Weeks Ending April 15, 1978 and April 16, 1977 - 15th 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		
						1978	1977†	1978	1978	1978	1978		
UNITED STATES	49	-	4,163	-	25	11	8	2	292	626	185	3	118
NEW ENGLAND	1	-	483	-	-	-	-	-	5	9	12	-	6
Maine*	-	-	107	-	-	-	-	-	1	1	-	-	1
New Hampshire*	-	-	17	-	-	-	-	-	-	1	-	-	1
Vermont	-	-	-	-	-	-	-	-	-	1	-	-	-
Massachusetts	-	-	168	-	-	-	-	-	1	2	12	-	1
Rhode Island	1	-	61	-	-	-	-	-	-	-	-	-	-
Connecticut	-	-	130	-	-	-	-	-	3	4	-	-	3
MIDDLE ATLANTIC	6	-	449	-	-	-	-	-	57	81	23	1	29
Upstate New York	2	-	307	-	-	-	-	1	3	22	4	-	4
New York City	-	-	87	-	-	-	-	-	13	18	11	-	14
New Jersey*	3	-	NN	-	-	-	-	-	22	30	7	1	4
Pennsylvania*	1	-	55	-	-	-	-	-	19	11	1	-	7
EAST NORTH CENTRAL	2	-	1,343	-	-	3	2	-	55	112	15	1	4
Ohio*	1	-	150	-	-	2	1	-	14	41	-	-	-
Indiana	-	-	197	-	-	-	-	-	7	3	8	-	-
Illinois	-	-	164	-	-	-	-	-	12	18	1	-	2
Michigan	1	-	388	-	-	1	1	-	20	44	6	-	1
Wisconsin*	-	-	424	-	-	-	-	-	2	6	-	1	1
WEST NORTH CENTRAL	2	-	695	-	-	1	1	-	14	54	9	-	10
Minnesota	-	-	-	-	-	-	-	-	4	16	-	-	2
Iowa	-	-	366	-	-	-	-	-	3	0	-	-	-
Missouri*	1	-	36	-	-	1	-	-	3	19	8	-	4
North Dakota	-	-	38	-	-	-	-	-	-	-	-	-	-
South Dakota	1	-	4	-	-	-	-	-	-	-	-	-	-
Nebraska	-	-	57	-	-	-	1	-	1	2	-	-	3
Kansas	-	-	194	-	-	-	-	-	3	11	1	-	1
SOUTH ATLANTIC	8	-	454	-	-	2	-	1	47	46	19	-	20
Delaware	-	-	4	-	-	-	-	-	-	2	-	-	1
Maryland	-	-	31	-	-	-	-	-	17	1	-	-	6
District of Columbia	1	-	-	-	-	-	-	-	1	1	-	-	-
Virginia*	-	-	9	-	-	-	-	-	4	-	1	-	4
West Virginia	-	-	203	-	-	-	-	-	-	3	1	-	1
North Carolina	2	-	NN	-	-	2	-	-	6	3	4	-	-
South Carolina	1	-	33	-	-	-	-	-	2	-	-	-	1
Georgia	-	-	11	-	-	-	-	-	4	4	-	-	1
Florida	4	-	163	-	-	-	-	1	13	32	13	-	6
EAST SOUTH CENTRAL	-	-	145	-	-	1	1	-	11	27	2	-	2
Kentucky	-	-	62	-	-	-	-	-	-	-	-	-	1
Tennessee	-	-	NN	-	-	-	1	-	10	10	1	-	1
Alabama	-	-	77	-	-	-	-	-	-	4	1	-	-
Mississippi	-	-	6	-	-	1	-	-	1	13	-	-	-
WEST SOUTH CENTRAL	4	-	273	-	1	-	-	-	19	88	40	-	7
Arkansas	-	-	1	-	1	-	-	-	-	1	6	-	-
Louisiana	1	-	NN	-	-	-	-	-	8	20	5	-	3
Oklahoma	1	-	-	-	-	-	-	-	5	8	5	-	-
Texas*	2	-	272	-	-	-	-	-	6	59	24	-	4
MOUNTAIN	9	-	224	-	1	1	-	-	11	70	31	-	3
Montana	-	-	7	-	-	-	-	-	1	3	4	-	-
Idaho	-	-	24	-	-	-	-	-	-	5	-	-	-
Wyoming	-	-	-	-	-	-	-	-	-	3	-	-	-
Colorado	7	-	140	-	-	1	-	-	1	2	6	-	1
New Mexico	-	-	1	-	-	-	-	-	-	12	4	-	-
Arizona	-	-	NN	-	-	-	-	-	7	43	15	-	1
Utah	2	-	43	-	-	-	-	-	1	1	-	-	-
Nevada*	-	-	9	-	1	-	-	-	1	1	2	-	1
PACIFIC	17	-	97	-	23	3	3	1	73	139	34	1	37
Washington	2	-	86	-	23	-	-	-	3	6	5	-	1
Oregon	1	-	1	-	-	-	2	1	7	27	3	-	2
California*	14	-	-	-	-	3	1	-	63	105	25	1	32
Alaska	-	-	-	-	-	-	-	-	-	-	-	-	-
Hawaii	-	-	10	-	-	-	-	-	-	1	1	-	2
Guam*	NA	NA	NA	NA	-	NA	-	-	NA	NA	NA	NA	-
Puerto Rico	-	-	29	-	-	-	-	-	1	7	-	-	2
Virgin Islands	NA	NA	NA	NA	-	NA	-	-	NA	NA	NA	NA	-

NN: Not notifiable

NA: Not available

†Delayed reports received for 1977 are not shown below but are used to update last year's weekly and cumulative totals.

*The following delayed reports will be reflected in next week's cumulative totals: Aseptic meningitis: Pa. +2; Brucellosis: Wis. +1, Chickenpox: Maine +2, N.H. +1, Pa. +111, Mo. +31, Calif. +16, Guam +30; Encephalitis: Pa. +3; Hep. B: Pa. +57, Ohio -1, Tex. +1, Nev. +5, Guam +1; Hep. A: N.J. -1, Pa. +43, Ohio +1, Mo. -6, Nev. +4, Guam +1; Hep. unsp. Pa. +7, Mo. -5, Va. -2, Tex. -1, Nev. +4, Guam +2; Malaria: Pa. +3

Table III-Continued
Cases of Specified Notifiable Diseases: United States
Weeks Ending April 15, 1978 and April 16, 1977 - 15th Week

REPORTING AREA	MEASLES (Rubeola)			MENINGOCOCCAL INFECTIONS TOTAL			MUMPS		PERTUSSIS	RUBELLA		TETANUS
	1978	CUMULATIVE		1978	CUMULATIVE		1978	CUM. 1978	1978	1978	CUM. 1978	CUM. 1978
		1978	1977 †		1978	1977 †						
UNITED STATES	1,055	8,745	23,247	57	817	662	452	6,156	32	599	4,247	15
NEW ENGLAND	235	932	1,138	2	43	32	51	419	7	19	223	-
Maine*	162	608	3	-	4	2	44	310	-	9	102	-
New Hampshire	-	10	341	-	6	3	-	5	-	2	44	-
Vermont	-	5	223	-	1	3	-	3	-	-	-	-
Massachusetts*	17	110	273	1	11	8	3	39	3	4	48	-
Rhode Island	-	4	6	1	10	-	-	10	4	-	1	-
Connecticut	56	195	292	-	11	16	4	52	-	4	28	-
MIDDLE ATLANTIC	85	655	2,940	8	111	85	16	258	2	189	846	-
Upstate New York	34	442	883	3	41	23	8	87	1	29	101	-
New York City	3	88	123	2	30	17	6	75	1	5	25	-
New Jersey	2	10	72	1	21	23	1	53	-	130	588	-
Pennsylvania*	46	115	1,862	2	19	22	1	43	-	25	132	-
EAST NORTH CENTRAL	421	3,243	5,401	4	71	72	115	2,164	7	142	1,409	1
Ohio	16	194	318	1	16	28	12	230	5	8	74	-
Indiana	5	56	2,655	1	13	7	5	113	1	10	82	1
Illinois	12	341	533	-	4	15	28	693	-	2	93	-
Michigan	267	2,083	580	1	31	16	44	708	-	42	756	-
Wisconsin	121	569	1,315	1	7	6	26	420	1	80	404	-
WEST NORTH CENTRAL	19	95	4,207	1	28	39	54	1,230	1	13	136	1
Minnesota	-	12	692	-	4	17	-	11	-	2	10	-
Iowa*	-	10	2,316	-	1	4	-	86	-	2	16	-
Missouri*	-	4	480	1	16	13	18	700	1	5	37	-
North Dakota*	13	33	6	-	-	1	1	5	-	1	3	-
South Dakota	-	-	10	-	2	4	1	5	-	-	16	-
Nebraska*	-	1	85	-	-	-	2	11	-	-	4	-
Kansas	6	35	618	-	5	-	24	412	-	3	50	1
SOUTH ATLANTIC	121	2,123	1,312	13	225	138	16	326	5	45	449	2
Delaware	-	4	19	-	3	2	1	22	-	3	5	-
Maryland	-	1	122	-	8	10	-	40	-	-	2	1
District of Columbia	-	-	2	-	1	-	-	-	-	-	1	-
Virginia	70	1,457	754	3	33	9	-	52	2	6	144	-
West Virginia	26	373	55	-	5	8	4	72	-	6	132	-
North Carolina	6	46	24	1	46	37	2	35	1	20	98	-
South Carolina	9	135	111	2	17	10	-	10	-	-	5	-
Georgia	-	5	206	2	29	26	3	12	2	-	1	-
Florida	10	102	19	5	83	36	6	83	-	10	61	1
EAST SOUTH CENTRAL	60	655	526	3	67	70	18	467	4	17	128	1
Kentucky	1	57	121	2	13	17	-	78	1	-	35	1
Tennessee	44	488	338	-	20	17	9	229	3	17	74	-
Alabama*	-	1	55	-	17	23	9	144	-	-	4	-
Mississippi	15	109	12	1	17	13	-	16	-	-	15	-
WEST SOUTH CENTRAL	63	588	1,288	18	124	137	148	797	2	64	399	9
Arkansas	2	3	25	3	13	8	114	220	1	50	54	1
Louisiana	-	259	56	6	40	62	1	37	-	-	195	1
Oklahoma	-	8	43	1	10	4	-	4	-	4	8	1
Texas*	61	318	1,164	8	61	63	33	536	1	10	142	6
MOUNTAIN	12	98	1,598	-	13	14	11	111	-	10	74	-
Montana	10	72	797	-	1	2	-	7	-	-	8	-
Idaho	-	1	28	-	1	1	1	17	-	-	3	-
Wyoming	-	-	1	-	-	1	-	-	-	-	-	-
Colorado	1	12	347	-	2	1	2	32	-	5	17	-
New Mexico	-	-	197	-	2	2	-	7	-	-	2	-
Arizona	1	7	169	-	3	6	-	3	-	3	26	-
Utah	-	1	5	-	3	-	8	43	-	1	16	-
Nevada	-	5	54	-	1	1	-	2	-	1	2	-
PACIFIC	39	356	4,837	8	135	75	23	384	4	100	583	1
Washington*	4	36	257	-	20	11	2	107	-	2	58	-
Oregon	17	99	118	-	4	7	2	37	1	7	44	-
California	18	215	4,401	7	105	43	19	223	3	91	479	1
Alaska	-	1	55	1	5	13	-	4	-	-	1	-
Hawaii	-	5	6	-	1	1	-	13	-	-	1	-
Guam	NA	1	3	-	-	-	NA	1	NA	NA	-	-
Puerto Rico	3	70	291	1	1	-	80	446	-	4	10	1
Virgin Islands	NA	6	6	-	-	-	NA	1	NA	NA	1	-

NA: Not available

†Delayed reports received for 1977 are not shown below but are used to update last year's weekly and cumulative totals.

*The following delayed reports will be reflected in next week's cumulative totals: Measles: Maine -1, Mass. -1, Pa. +10, Mo. +2, N.Dak. +4, Ala. +24, Tex. -1; Men. inf: Pa. +7 civ. +1 mil.; Iowa +4, Wash. +1; Mumps: Maine -1, Pa. +9, Mo. +3, Nebr. -1; Rubella: Maine -1, Pa. +7, Mo. +2, N. Dak. +6.

Table III-Continued
 Cases of Specified Notifiable Diseases: United States
 Weeks Ending April 15, 1978 and April 16, 1977 - 15th Week

REPORTING AREA	TUBERCULOSIS		TULA- REMIA	TYPHOID FEVER		TYPHUS-FEVER TICK-BORNE (RMSF)		VENEREAL DISEASES (Civilian Cases Only)						RABIES IN ANIMALS
	1978	CUM. 1978	CUM. 1978	1978	CUM. 1978	1978	CUM. 1978	GONORRHEA		SYPHILIS (Pri. & Sec.)		CUM. 1978		
								CUMULATIVE		1978	CUMULATIVE			
								1978	1977 †		1978		1977 †	
UNITED STATES	527	7,932	20	6	120	1	14	16,992	261,492	265,899	451	5,872	6,207	726
NEW ENGLAND	25	270	-	2	31	-	-	428	6,587	6,970	6	183	232	34
Maine	-	17	-	-	-	-	-	60	500	576	-	3	7	33
New Hampshire	1	8	-	-	5	-	-	15	309	269	-	1	1	-
Vermont	-	11	-	-	-	-	-	11	167	173	-	-	3	-
Massachusetts*	19	161	-	2	17	-	-	201	2,937	3,049	5	123	173	1
Rhode Island	-	16	-	-	4	-	-	41	450	512	-	6	2	-
Connecticut	5	57	-	-	5	-	-	100	2,224	2,391	1	50	46	-
MIDDLE ATLANTIC	72	1,379	1	-	13	1	5	1,851	28,471	29,530	68	783	909	15
Upstate New York*	22	190	1	-	3	1	3	428	4,715	4,344	1	51	80	15
New York City	10	553	-	-	7	-	-	809	11,600	13,128	53	556	567	-
New Jersey	26	360	-	-	1	-	-	89	5,017	4,565	7	89	123	-
Pennsylvania*	14	276	-	-	2	-	2	525	7,139	7,493	7	87	139	-
EAST NORTH CENTRAL	73	1,121	-	1	6	-	-	2,584	37,191	39,652	37	575	711	26
Ohio	11	204	-	1	0	-	-	842	9,893	10,193	19	124	179	3
Indiana	4	150	-	-	-	-	-	254	3,991	3,449	-	32	48	3
Illinois	19	403	-	-	1	-	-	712	10,977	13,266	15	349	384	1
Michigan	35	311	-	1	4	-	-	544	8,801	8,927	1	53	72	-
Wisconsin	4	53	-	-	-	-	-	232	3,529	3,817	2	17	28	19
WEST NORTH CENTRAL	30	262	7	1	5	-	-	828	12,867	13,742	12	138	144	191
Minnesota	5	54	-	1	1	-	-	92	2,364	2,462	3	56	47	67
Iowa	-	32	-	-	2	-	-	99	1,543	1,656	1	12	11	42
Missouri	17	96	6	-	2	-	-	381	5,016	5,785	3	36	49	25
North Dakota	1	15	-	-	-	-	-	13	289	226	-	2	2	29
South Dakota*	4	31	-	-	-	-	-	34	489	369	-	1	1	18
Nebraska	-	3	-	-	-	-	-	94	1,007	1,101	-	3	16	1
Kansas	3	31	1	-	-	-	-	115	2,159	2,143	5	28	18	9
SOUTH ATLANTIC	119	1,764	3	1	11	-	6	4,152	63,036	63,974	103	1,580	1,786	74
Delaware	2	12	-	-	-	-	-	48	995	773	-	3	12	1
Maryland	17	311	2	-	1	-	-	554	8,408	7,991	3	114	118	-
District of Columbia	2	92	-	-	-	-	1	352	4,151	4,409	6	131	189	-
Virginia	14	200	-	1	3	-	-	531	5,845	6,648	16	144	179	1
West Virginia	1	66	-	-	-	-	-	100	999	862	1	5	1	-
North Carolina	21	289	-	-	-	-	2	750	8,606	9,625	9	136	267	1
South Carolina	11	143	-	-	-	-	2	362	6,003	5,760	5	70	80	8
Georgia	19	215	-	-	2	-	1	724	11,768	12,480	25	383	326	53
Florida*	32	436	1	-	5	-	-	731	16,261	15,426	38	594	614	10
EAST SOUTH CENTRAL	60	781	3	-	1	-	1	1,568	22,481	22,753	36	282	200	38
Kentucky	10	172	-	-	1	-	-	160	2,496	3,103	6	33	21	25
Tennessee	21	236	3	-	-	-	1	509	8,249	9,118	22	108	58	9
Alabama	17	187	-	-	-	-	-	525	6,747	6,205	1	38	40	4
Mississippi	12	186	-	-	-	-	-	374	4,984	4,327	7	103	81	-
WEST SOUTH CENTRAL	60	879	4	-	6	-	1	2,355	36,859	34,166	66	886	770	221
Arkansas	7	95	4	-	-	-	-	120	2,860	2,633	1	31	18	34
Louisiana	4	166	-	-	-	-	-	312	5,988	4,871	10	175	170	5
Oklahoma	6	106	-	-	-	-	-	239	3,278	3,106	5	33	19	56
Texas	43	512	-	-	6	-	1	1,684	24,733	23,556	50	647	563	126
MOUNTAIN	10	228	1	-	9	-	-	623	9,809	10,898	5	116	124	5
Montana	1	19	-	-	-	-	-	42	615	552	-	6	-	-
Idaho	-	10	1	-	5	-	-	19	330	543	1	1	3	-
Wyoming	-	4	-	-	-	-	-	18	237	303	-	3	2	-
Colorado	2	12	-	-	2	-	-	148	2,683	2,794	4	38	38	-
New Mexico*	1	43	-	-	-	-	-	120	1,387	1,620	-	31	24	4
Arizona	4	109	-	-	-	-	-	144	2,495	3,048	-	23	48	1
Utah	-	9	-	-	1	-	-	54	609	642	-	3	4	-
Nevada	2	22	-	-	1	-	-	78	1,453	1,396	-	11	5	-
PACIFIC	78	1,248	1	1	38	-	1	2,603	44,191	44,214	118	1,329	1,331	122
Washington	NA	34	-	-	1	-	-	178	3,154	3,258	NA	49	51	-
Oregon	3	54	-	-	1	-	-	176	3,109	3,208	6	41	43	1
California	54	961	1	1	36	-	1	2,080	35,656	35,387	110	1,220	1,218	119
Alaska	-	16	-	-	-	-	-	117	1,415	1,413	-	5	6	2
Hawaii	21	183	-	-	-	-	-	52	857	948	2	14	13	-
Guam*	NA	15	-	NA	-	NA	-	NA	39	86	NA	-	1	-
Puerto Rico	5	125	-	-	-	-	-	51	758	906	7	126	185	5
Virgin Islands	NA	1	-	NA	-	NA	-	NA	59	44	NA	4	1	-

NA: Not available

†Delayed reports received for 1977 are not shown below but are used to update last year's weekly and cumulative totals.

*The following delayed reports will be reflected in next week's cumulative totals: TB: Ups. NY +14, Pa. +12, Fla. -2, N. Mex. +2, Guam +9; Tularemia: Fla. -1; GC: Mass. +9, Pa. +443, Guam +8; Syphilis: Pa. +5; An rabies: S. Dak. +7

Table IV
Deaths in 121 United States Cities*
Week Ending April 15, 1978 - 15th 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	
NEW ENGLAND	645	411	162	33	21	28	SOUTH ATLANTIC	1,075	636	283	69	37	46
Boston, Mass.	185	96	58	14	8	10	Atlanta, Ga.	134	75	39	14	2	3
Bridgeport, Conn.	32	21	7	1	3	1	Baltimore, Md.	169	97	45	15	5	4
Cambridge, Mass.	21	15	4	1	—	3	Charlotte, N. C.	60	34	14	7	—	1
Fall River, Mass.	31	24	6	1	—	—	Jacksonville, Fla.	104	65	21	6	3	6
Hartford, Conn.	55	38	13	2	2	1	Miami, Fla.	98	59	30	4	—	4
Lowell, Mass.	23	15	7	—	1	—	Norfolk, Va.	48	27	13	1	3	5
Lynn, Mass.	8	6	2	—	—	—	Richmond, Va.	67	33	23	4	3	5
New Bedford, Mass.	26	18	6	1	—	—	Savannah, Ga.	53	34	14	2	3	3
New Haven, Conn.	45	25	15	2	2	1	St. Petersburg, Fla.	100	84	12	4	—	4
Providence, R.I.	77	44	20	5	3	2	Tampa, Fla.	75	44	21	3	—	5
Somerville, Mass.	7	5	2	—	—	—	Washington, D. C.	112	58	34	7	9	5
Springfield, Mass.	49	39	8	1	—	4	Wilmington, Del.	55	26	17	2	9	1
Waterbury, Conn.	30	22	6	2	—	3							
Worcester, Mass.	56	43	8	3	2	3	EAST SOUTH CENTRAL	641	378	170	30	41	35
MIDDLE ATLANTIC	2,664	1,688	638	189	80	121	Birmingham, Ala.	96	51	28	9	5	4
Albany, N. Y.	51	30	12	4	3	1	Chattanooga, Tenn.	34	18	12	2	2	3
Allentown, Pa.	12	9	3	—	—	—	Knoxville, Tenn.	58	36	19	2	—	2
Buffalo, N. Y.	113	71	27	6	5	2	Louisville, Ky.	97	67	22	3	2	13
Camden, N. J.	37	21	10	1	4	3	Memphis, Tenn.	137	80	28	3	20	3
Elizabeth, N. J.	26	22	2	1	—	2	Mobile, Ala.	49	30	13	1	3	2
Erie, Pa.	32	22	7	2	1	2	Montgomery, Ala.	55	35	15	—	3	4
Jersey City, N. J.	39	27	7	3	2	—	Nashville, Tenn.	115	61	33	10	6	4
Newark, N. J.	62	29	23	7	2	3	WEST SOUTH CENTRAL	1,118	622	304	85	51	30
New York City, N. Y.	1,373	881	308	115	34	59	Austin, Tex.	44	24	11	1	1	2
Paterson, N. J.	36	24	7	4	1	1	Baton Rouge, La.	34	23	4	4	2	1
Philadelphia, Pa.	398	241	106	24	16	15	Corpus Christi, Tex.	31	20	7	2	—	4
Pittsburgh, Pa.	106	64	35	4	1	6	Dallas, Tex.	173	96	49	11	9	2
Reading, Pa.	36	27	7	2	—	3	El Paso, Tex.	52	32	10	2	3	—
Rochester, N. Y.	145	99	31	5	6	18	Fort Worth, Tex.	69	48	11	5	5	2
Schenectady, N. Y.	20	13	6	—	—	1	Houston, Tex.	267	124	88	32	9	5
Scranton, Pa.	28	19	9	—	—	—	Little Rock, Ark.	34	19	10	1	3	2
Syracuse, N. Y.	71	34	22	7	3	1	New Orleans, La.	115	66	31	7	6	—
† Trenton, N. J.	37	24	8	2	1	2	San Antonio, Tex.	141	84	36	9	6	2
Utica, N. Y.	15	12	2	1	—	2	Shreveport, La.	74	37	21	8	4	5
Yonkers, N. Y.	27	19	6	1	1	—	Tulsa, Okla.	84	45	26	3	3	5
EAST NORTH CENTRAL	2,408	1,437	624	148	108	70	MOUNTAIN	514	308	124	37	20	25
Akron, Ohio	73	45	16	7	2	—	Albuquerque, N. Mex.	47	25	13	4	2	8
Canton, Ohio	45	30	8	3	1	4	Colorado Springs, Colo.	41	22	14	1	1	4
Chicago, Ill.	588	320	156	50	36	14	Denver, Colo.	106	65	21	10	4	7
Cincinnati, Ohio	121	75	37	3	3	5	Las Vegas, Nev.	36	23	8	2	1	—
Cleveland, Ohio	170	102	50	8	7	4	Ogden, Utah	13	9	3	—	1	1
Columbus, Ohio	132	65	42	10	7	2	Phoenix, Ariz.	127	68	38	10	5	3
Dayton, Ohio	117	73	29	3	10	2	Pueblo, Colo.	21	15	3	2	1	2
Detroit, Mich.	312	189	77	19	17	2	Salt Lake City, Utah	39	23	8	3	2	—
Evansville, Ind.	80	59	14	4	2	4	Tucson, Ariz.	84	58	16	5	3	—
Fort Wayne, Ind.	64	37	18	3	1	2	PACIFIC	1,668	1,088	399	94	46	49
Gary, Ind.	15	8	3	3	1	1	Berkeley, Calif.	22	14	4	3	—	—
Grand Rapids, Mich.	60	40	17	1	1	5	Fresno, Calif.	48	35	8	4	1	1
Indianapolis, Ind.	166	93	44	12	9	2	Glendale, Calif.	22	20	2	—	—	3
Madison, Wis.	47	30	10	4	1	4	Honolulu, Hawaii	53	31	14	5	1	1
Milwaukee, Wis.	123	76	38	4	2	1	Long Beach, Calif.	101	79	19	—	3	4
Peoria, Ill.	32	21	5	1	4	10	Los Angeles, Calif.	487	299	119	39	16	16
Rockford, Ill.	40	27	10	—	2	—	Oakland, Calif.	91	62	19	3	3	1
South Bend, Ind.	44	29	7	5	1	3	Pasadena, Calif.	31	22	7	—	1	3
Toledo, Ohio	111	73	26	4	1	3	Portland, Ore.	152	100	39	9	2	—
Youngstown, Ohio	68	45	17	4	—	2	Sacramento, Calif.	78	48	23	3	4	—
WEST NORTH CENTRAL	773	500	177	40	28	30	San Diego, Calif.	123	82	30	4	5	3
Des Moines, Iowa	48	30	12	2	1	—	San Francisco, Calif.	154	106	34	10	1	1
Duluth, Minn.	32	21	6	1	3	3	San Jose, Calif.	70	38	17	7	3	7
Kansas City, Kans.	38	19	13	4	—	2	Seattle, Wash.	155	93	49	5	2	6
Kansas City, Mo.	120	86	25	1	5	4	Spokane, Wash.	50	37	8	2	3	—
Lincoln, Nebr.	23	17	6	—	—	2	Tacoma, Wash.	31	22	7	—	1	—
Minneapolis, Minn.	111	76	21	8	4	4	TOTAL	11,506	7,068	2,881	725	432	434
Omaha, Nebr.	84	51	21	4	4	3	Expected Number	11,392	7,007	2,933	689	416	452
St. Louis, Mo.	178	106	44	12	8	2							
St. Paul, Minn.	65	48	14	—	1	3							
Wichita, Kans.	74	46	15	8	2	7							

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

† Data not available this week; numbers are estimates based on average percent of regional total.

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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.

Send mailing list additions, deletions, and address changes to: Center for Disease Control, Attn.: Distribution Services, GSO, 1-SB-36, Atlanta, Georgia 30333. When requesting changes be sure to give your former address, including zip code and mailing list code number, or send an old address label.

Surveillance of Childhood Lead Poisoning – United States

During the first quarter of fiscal year 1978, 56 Childhood Lead Poisoning Prevention Programs reported screening 91,323 children for undue lead absorption – a figure comparable to the 91,425 children screened during the same period in fiscal year 1977 by 58 reporting programs. The number of children this quarter with confirmed undue lead absorption – 8.0 per 100 screened – and the number of children chelated (868) remain approximately the same as for the first quarter in fiscal year 1977 (8.1 and 871).

The increase in the number of houses inspected for lead hazards (19,891 this quarter compared to 7,235 in 1977) is the result of increased reporting of housing-inspection activities in 1 city. The ratio of hazards reduced to hazards found for this and the previous 4 quarters, however, is substantially lower than that of the first quarter of fiscal year 1977 (Table 1).

Reported by Environmental Health Services Div, Bur of State Services, CDC.

TABLE 1. Results of screening in childhood lead poisoning control projects – United States, first quarter of fiscal year 1978 (October 1, 1977-December 31, 1977)

Programs	NUMBER OF CHILDREN						NUMBER OF DWELLINGS		
	Screened	With Confirmed Undue Lead Absorption ¹					Inspected	Found with Lead	Reduced
		Requiring Pediatric Management			Receiving Pediatric Management				
		TOTAL	Class II	Classes III & IV	TOTAL	Chelation Therapy			
Waterbury, Conn.	708	63	47	16	65	0	379	289	101
Boston, Mass.	6,368	830	681	149	1,404	42	289	275	205
Fall River, Mass.	405	31	28	3	111	1	63	52	50
Lawrence, Mass.	785	61	49	12	264	3	65	65	78
Lynn, Mass.	344	42	29	13	205	9	38	30	35
Worcester, Mass.	1,347	67	56	11	355	21	61	57	50
Rhode Island State	1,356	173	121	52	152	58	86	79	30
REGION I TOTAL	11,313	1,267	1,011	256	2,556	134	981	847	549
Camden, N.J.	881	58	47	11	245	3	54	38	22
Jersey City, N.J.	575	142	105	37	50	1	26	17	10
Newark, N.J.	515	108	61	47	259	18	115	87	72
Paterson, N.J.	555	156	107	49	574	7	92	81	50
Plainfield, N.J.	288	39	30	9	170	0	30	19	16
Erie Co. N.Y.	627	78	61	17	227	16	21	13	25
Monroe Co. N.Y.	1,073	143	114	29	188	1	67	66	66
New York City	15,848 ²	752 ²	543	209	2,010 ²	25	221	151	85
Onondaga Co. N.Y.	770	59	44	15	173	10	32	18	30
Rensselaer Co. N.Y.	208	13	9	4	91	4	15	6	13
Westchester, N.Y.	609	25	16	9	215	1	14	6	12
REGION II TOTAL	21,949	1,573	1,137	436	4,202	86	687	502	401
Delaware State	1,132	93	58	35	145	1	35	22	3
Washington, D.C.	3,899	132	90	42	432	12	310	119	44
Baltimore, Md.	3,891	134	68	66	551	48	130	99	92
Chester, Pa.	468	31	26	5	481	3	26	20	39
Philadelphia, Pa.	2,226	369	239	130	656	54	517	389	382
Wilkes-Barre, Pa.	344	28	22	6	132	1	28	16	20
Norfolk, Va.	1,177	77	45	32	282	15	74	48	26
Richmond, Va.	2,056	50	31	19	307	6	67	36	40
REGION III TOTAL	15,193	914	579	335	2,986	140	1,187	749	646
Mobile, Ala. ³	338	14	10	4	256	1	34	26	10
Augusta, Ga.	549	17	13	4	230	1	41	25	9
Louisville, Ky.	1,508	40	25	15	422	10	112	93	83
Wilmington, N.C.	119	1	1	0	43	1	6	5	7
Memphis, Tenn.	828	23	25	3	194	0	59	45	61
South Carolina State	1,065	34	24	10	540	4	88	86	3
REGION IV TOTAL	4,407	134	98	36	1,685	17	340	280	173
Chicago, Ill.	12,870	1,402	837	565	3,013	297	14,786	2,757	851
Peoria, Ill.	144	7	4	3	12	0	18	8	20
Rockford, Ill.	195	12	7	5	567	0	24	14	38
Detroit, Mich.	2,842	254	207	47	234	7	346	323	232
Wayne Co. Mich.	199	19	13	6	115	3	32	32	31
Akron, Ohio	416	20	17	3	77	1	28	27	29
Cincinnati, Ohio	1,061	81	59	22	369	6	117	106	118
Cleveland, Ohio	2,559	97	67	30	619	4	96	69	24
Columbus, Ohio	993	24	19	5	126	4	113	42	35
Toledo, Ohio ³	314	33	32	1	30	14	18	2	0
Milwaukee, Wisc.	700	160	84	76	372	20	150	94	65
Racine, Wisc.	389	17	8	9	35	1	13	3	3
Kenosha, Wisc.	175	7	5	2	17	0	7	7	3
REGION V TOTAL	22,857	2,133	1,359	774	5,586	357	15,748	3,484	1,449
Arkansas State	747	30	19	11	145	0	21	6	33
New Orleans, La.	2,736	153	97	56	234	24	77	69	33
Houston, Texas	2,413	99	72	27	136	8	88	11	17
REGION VI TOTAL	5,896	282	188	94	515	32	186	86	83
Davenport-Scott Co. Iowa	863	25	21	4	106	22	27	23	26
Kansas City, Kansas	1,434	25	15	10	110	6	62	15	5
Kansas City, Mo.	710	21	18	3	71	3	30	27	22
St. Louis, Mo.	3,854	795	513	282	2,382	56	526	692	456
Springfield, Mo. ³	299	2	1	1	17	0	18	8	3
Omaha-Douglas Co. Neb.	591	20	12	8	86	10	37	21	6
REGION VII TOTAL	7,751	888	580	308	2,772	97	700	786	518
Alameda Co. Calif.	319	11	10	1	20	1	40	30	19
Los Angeles, Calif.	1,638	22	5	17	98	4	22	14	8
REGION IX TOTAL	1,957	33	15	18	118	5	62	44	27
U.S. TOTALS	91,323	7,224	4,967	2,257	20,420	868	19,891	6,778	3,846

¹ Class II and Classes III & IV defined in CDC Statement, Increased Lead Absorption and Lead Poisoning in Young Children, March 1975.

² Estimated

³ Reporting programs not supported by new Federal funds during FY 1978

Mannequins — continued

clean absorbent material. The solution should be made fresh at each class, and discarded after use.);

7. Establishing a routine of vigorously wiping the mannequin face and inside mouth with clean absorbent material that has been wetted with either the hypochlorite solution described above or 70% isopropyl alcohol. The surface should remain wet for at least 30 seconds before it is wiped dry with a second piece of clean absorbent material. (Alco-

hol, which has drawbacks as a decontaminant, is recommended as an alternative only because the odor of the hypochlorite solution may be very objectionable to students.)

More detailed guidelines are available, upon request, from Hepatitis Laboratories Division of the Bureau of Epidemiology, CDC, 4402 N. 7th St, Phoenix AZ 85014.

Reported by J Conte, MD, University of California, San Francisco, Hepatitis Laboratories Div, Bur of Epidemiology, CDC.

Epidemiologic Notes and Reports**Botulism — New Mexico**

During the week of April 9-16 an outbreak of botulism involving 32 reported cases occurred in Clovis, New Mexico, a town of 40,000 situated close to the Texas border. There were no deaths.

On April 13, CDC was informed that a 35-year-old enlisted man had been flown from Cannon Air Force Base, located outside of Clovis, to El Paso because of a progressive neurologic syndrome that began April 10. The New Mexico State Department of Health was notified, and arrangements were made for blood and stool specimens to be sent to CDC to be tested for botulinal toxin and the presence of *Clostridium botulinum*. An investigation revealed that the patient was a part-time employee in a country club restaurant in Clovis.

Early April 15, CDC was notified by a physician in Amarillo, Texas, that 2 women with acute myasthenic syndromes had been transferred from a Clovis hospital. Clinical findings in both patients included ptosis, extraocular muscle palsies, decreased gag reflexes, and generalized weakness. Over the next few hours both patients required intubation with mechanical respiration. One patient had eaten in the country club restaurant on April 9, and the other had eaten there on April 12. They had become symptomatic on April 11 and 14, respectively.

During the next 48 hours, an additional 29 patients with objective neurologic findings were seen and admitted to hospitals in Amarillo and Lubbock, Texas, and Clovis, Albuquerque, and Sante Fe, New Mexico. The Special USAF Air Evacuation System transported 11 of the patients to Albuquerque. The patients ranged in age from 10 to 72. Twenty-one were male. Twenty patients were treated with antitoxin.

All 32 patients had eaten at the country club in Clovis on April 9, 12, or 13. Illness was significantly associated with exposure to a salad bar ($p < .01$) for the 3 meals. Epidemiologic analysis further identified 2 items served at the

salad bar on several days, potato salad and 3-bean salad, as being associated with illness ($p < .05$), but neither was eaten by all patients. Incubation periods ranged from 1-3 days with a median of 2 days. Eleven patients eventually required intubation and mechanical respiration.

Type A botulism toxin has been identified by CDC in serum specimens of 2 patients and, by the Food and Drug Administration, in the potato salad obtained from the incriminated restaurant. Further epidemiologic and laboratory investigations are in progress.

Reported by M Ryan, MD, High Plains Baptist Hospital, Amarillo, Texas; Methodist Hospital, Lubbock, Texas; CR Webb, Jr, MD, State Epidemiologist, Texas Dept of Health; Clovis Memorial Hospital, Clovis; St. Joseph's Hospital, and Bernalillo County Medical Center, Albuquerque; St. Vincent's Hospital, Sante Fe; JM Mann, MD, State Epidemiologist, J Thompson, MPH, New Mexico Dept of Health and Social Services; J Begin, Major, U.S. Air Force Hospital, Cannon AFB, Clovis; IM Morrison, MD, U.S. Air Force Hospital, Will Beaumont AFB, El Paso; R Brockett, PhD, G Lathrop, MD, PhD, P Moynahan, RN, Air Force School of Aerospace Medicine, San Antonio; Food and Drug Administration; Enterobacteriology Br, Bacteriology Div, Bur of Laboratories, Field Services Div, and Enteric Diseases Br, Bacterial Diseases Div, Bur of Epidemiology, CDC.

Editorial Note: This is the second largest outbreak of botulism reported in the United States since recording began in 1899 (1). Although an average of 15 outbreaks occur each year in the United States, the typical outbreak has involved fewer than 3 individuals and usually has been related to home-canned products (2).

In the present outbreak 2 separate foods were incriminated, but neither separately accounted for all of the cases. This suggests either cross-contamination or the addition of a common contaminated ingredient.

References

1. MMWR 26:117, 1977
2. Center for Disease Control: Botulism in the United States, 1899-1973: Handbook for Epidemiologists, Clinicians, and Laboratory Workers. Issued June 1974

U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE

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