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MORBIDITY AND MORTALITY WEEKLY REPORT

- 493 Primary and Secondary Syphilis United States, 1997
- 497 State-Specific Pregnancy Rates Among Adolescents — United States, 1992–1995
- 504 Progress Toward Poliomyelitis Eradication — Europe and Central Asian Republics, 1997–May 1998

Primary and Secondary Syphilis — United States, 1997

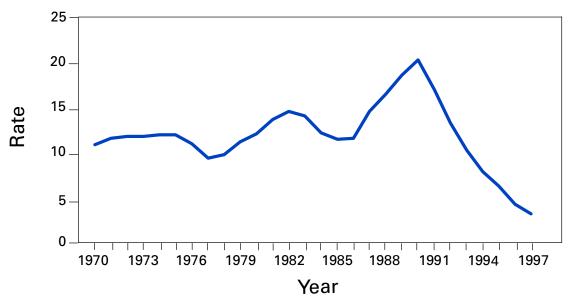
Syphilis is an acute and chronic sexually transmitted disease (STD) caused by infection with *Treponema pallidum*. The disease is characterized by skin and mucous membrane lesions in the acute phase (primary and secondary [P&S] syphilis) and lesions of the bone, viscera, and cardiovascular and neurologic systems in the chronic phase. Because syphilis enhances transmission of human immunodeficiency virus (HIV), prevention of syphilis is important for controlling HIV (1). During 1986–1990, an epidemic of syphilis occurred throughout the United States (2). Syphilis rates began to decline in 1991 and have declined each year since that time. To determine whether this decline is reflected in changes in the epidemiology of syphilis, CDC analyzed notifiable disease surveillance data for 1997. This report summarizes the findings of the analysis, which indicate that reported P&S syphilis cases declined 84% from 1990 to 1997, that syphilis remains substantially more common in non-Hispanic blacks than in other racial/ethnic groups, and that it continues to be concentrated in the Southern region of the United States.

Summary data for syphilis cases reported to state health departments for 1997 were sent quarterly and annually to CDC. Data from states included the total number of syphilis cases by county, sex, stage of disease, racial/ethnic group, and 5-year age group. Data on reported cases of syphilis in the P&S stages were analyzed for this report because those cases best represent incident cases (i.e., newly acquired infections within the evaluated time period). P&S syphilis rates were calculated per 100,000 persons using population denominators from the Bureau of Census (2).

In 1997, the incidence of P&S syphilis in the United States was 3.2 per 100,000 population (Figure 1). Rates of P&S syphilis were higher in the South (6.6 per 100,000 population) than in the Midwest (2.0), Northeast (1.1), and West (1.0).* The South is the only region that has not achieved the revised national health objective for 2000 (HP2000) of four cases per 100,000 population (objective 19.3) (2). In 1997, a total of 41 (82%) states had P&S syphilis rates below the HP2000 objective, and 21 states

^{*} Northeast=Connecticut, Maine, Massachusetts, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, and Vermont; Midwest=Illinois, Indiana, Iowa, Kansas, Michigan, Minnesota, Missouri, Nebraska, North Dakota, Ohio, South Dakota, and Wisconsin; South=Alabama, Arkansas, Delaware, District of Columbia, Florida, Georgia, Kentucky, Louisiana, Maryland, Mississippi, North Carolina, Oklahoma, South Carolina, Tennessee, Texas, Virginia, and West Virginia; West=Alaska, Arizona, California, Colorado, Hawaii, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington, and Wyoming.

FIGURE 1. Primary and secondary syphilis rates*, by year — United States, 1970–1997



^{*}Per 100,000 population.

(42%) reported 10 or fewer cases of P&S syphilis (Table 1). Montana, New Hampshire, North Dakota, Vermont, and Wyoming reported zero cases of P&S syphilis. No cases of P&S syphilis were reported in 1997 from 2324 (75%) of 3115 counties. Rates of P&S syphilis were below the HP2000 objective in 2698 (86%) counties. A total of 31 (1.0%) counties accounted for 50% of P&S syphilis cases, and 186 (6%) counties accounted for 85% of all reported P&S syphilis cases (Figure 2).

P&S syphilis rates for blacks remained substantially higher than those for non-Hispanic whites and Hispanics. In 1997, the P&S syphilis rate for blacks was 22.0 per 100,000, compared with 1.6 for Hispanics and 0.5 for non-Hispanic whites. The overall male-to-female P&S syphilis rate ratio was 1.2; this rate ratio was higher for Hispanics (2.1) than for blacks (1.3) and non-Hispanic whites (1.2). P&S syphilis rates were highest for Hispanic women aged 15–19 years (2.7), for black women aged 20–24 years (47.9), and for non-Hispanic white women aged 25–39 years (1.2). P&S syphilis rates were highest for Hispanic men aged 25–29 years (5.5) and for black and non-Hispanic white men aged 35–39 years (50.6 and 1.2, respectively).

From 1990 to 1997, P&S syphilis rates declined 84% in the United States, in all regions (95% in the Northeast, 91% in the West, 80% in the South, and 73% in the Midwest), and in all but two states (Indiana and Kentucky). Rates in Indiana and Kentucky peaked in 1993 and have declined steadily since that time. Rates of P&S syphilis were below the revised HP2000 objective in 86% of all counties in 1997, compared with 69% in 1990.

P&S syphilis rates have declined for all racial/ethnic groups; the largest decline occurred among Hispanics (90%) followed by blacks (85%) and non-Hispanic whites (81%). The P&S syphilis male-to-female rate ratio has remained stable for all races. Reported by: Div of Sexually Transmitted Diseases Prevention, National Center for HIV, STD, and TB Prevention, CDC.

TABLE 1. Reported primary and secondary syphilis rates*, by state and sex — United States, 1997

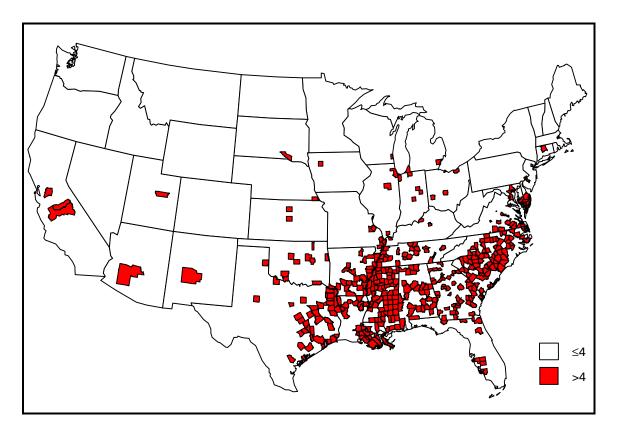
State	Male	Female	Total	State	Male	Female	Total
Alabama	11.1	8.2	9.6	Nebraska	0.4	0.2	0.3
Alaska	0.3	0	0.2	Nevada	0.5	0.8	0.6
Arizona	4.3	1.7	3.0	New Hampshire	0	0	0
Arkansas	5.8	7.9	6.9	New Jersey	2.4	1.4	1.9
California	1.7	0.7	1.2	New Mexico	0.5	0.6	0.5
Colorado	0.5	0.3	0.4	New York	0.9	0.6	0.8
Connecticut	2.3	1.5	1.9	North Carolina	10.3	9.4	9.8
Delaware	3.4	2.7	3.0	North Dakota	0	0	0
Florida	2.4	1.8	2.1	Ohio	2.2	1.8	2.0
Georgia	9.0	5.1	7.0	Oklahoma	4.0	3.1	3.5
Hawaii	0.2	0	0.1	Oregon	0.5	0.1	0.3
ldaho	0.2	0	0.1	Pennsylvania	1.2	0.8	1.0
Illinois	4.2	3.2	3.7	Rhode Island	0.2	0.2	0.2
Indiana	2.4	2.7	2.6	South Carolina	11.5	9.0	10.2
lowa	0.2	0.3	0.2	South Dakota	0.3	0	0.1
Kansas	1.4	0.8	1.1	Tennessee	14.7	13.5	14.0
Kentucky	3.7	3.3	3.5	Texas	3.8	3.3	3.5
Louisiana	8.4	8.3	8.4	Utah	0.3	0.2	0.2
Maine	0.2	0.2	0.2	Vermont	0	0	0
Maryland	19.8	15.4	17.6	Virginia	3.8	3.3	3.5
Massachusetts	1.5	1.0	1.3	Washington	0.3	0.3	0.3
Michigan	1.8	1.4	1.6	West Virginia	0.1	0	0.1
Minnesota	0.5	0.2	0.3	Wisconsin	1.6	1.9	1.7
Mississippi	14.5	14.2	14.4	Wyoming	0	0	0
Missouri	2.1	2.2	2.1	Takal	2.0	2.0	2.2
Montana	0	0	0	Total	3.6	2.9	3.2

^{*} Per 100,000 population.

Editorial Note: The findings in this report document substantial progress in the control and prevention of infectious syphilis in the United States. P&S syphilis is at its lowest level since reporting began in 1941. Although syphilis remains an endemic disease in parts of the South, rates in this region have declined 80% since 1990. The South has had the highest syphilis rates since the 1940s, in part because of limited access to health care in many parts of the South. Despite substantial declines in P&S syphilis in all racial/ethnic groups, syphilis continues to disproportionately affect blacks. Reporting of syphilis has presumably been biased toward over-reporting of infections in persons of minority races/ethnicities who attend public STD clinics; the degree to which this bias influences disease rates across racial/ethnic groups is unknown. Reasons for these reported racial disparities require further investigation.

At least four factors may have contributed to the recent decline in syphilis. First, after recognition of the epidemic in the mid-1980s, increased state and federal resources were invested in syphilis control programs (3). These resources were used for both traditional (e.g., partner notification and clinical services) and nontraditional (e.g., community-based screening and outreach and risk-reduction counseling) activities (3). Second, since the mid-1980s, a variety of HIV prevention activities have been implemented throughout the United States. Although these activities probably contributed to declines in all STDs, it is unknown how these activities contributed to the prevention of specific bacterial STDs. Third, a decline in crack cocaine use (4) may have resulted in a decline in the incidence of syphilis. Use of crack cocaine and exchange of sex for drugs were major contributors to the recent syphilis epidemic (5). Finally, the presence of acquired immunity in the population at risk following the epidemic may have contributed to the decline (6,7).

FIGURE 2. Counties with primary and secondary syphilis rates above or at the national health objective for 2000 of four cases per 100,000 population — United States, 1997



A concerted effort while rates are low and disease is focal could contribute to the possible elimination of domestic transmission of syphilis in the United States (8). In 1996, the Council of State and Territorial Epidemiologists proposed that syphilis surveillance systems be evaluated and strengthened, that treatment and prevention efforts be enhanced in areas of substantial ongoing transmission, that a national workgroup be convened to evaluate the possibility of elimination of domestic syphilis transmission, and that ongoing support for syphilis control be maintained or enhanced until domestic syphilis is eliminated. A recent Institute of Medicine report on STDs in the United States suggests that STD surveillance systems use new information technology, be accurate and timely enough to identify national and local trends in STD incidence, and provide the data necessary to direct local activities (9). CDC is working toward improving syphilis surveillance on a national level by encouraging state and local health departments to discontinue aggregate syphilis reporting and to collect, analyze, take action on, and report line-listed case reports of syphilis electronically to CDC. These line-listed data will provide an opportunity to analyze case reports at the county level by a variety of demographic characteristics and other potential risk factors for STD.

Syphilis is increasingly manifested as an epidemic rather than an endemic disease in the United States; focal outbreaks are still occurring (5). Optimal combinations of several different prevention and control strategies may be useful for areas with

different levels of morbidity (i.e., to prevent importation into those areas without disease and to intensify detection and control in those areas with substantial morbidity). Several state and local health departments have developed enhanced syphilis control and elimination plans (e.g., California, Florida, Massachusetts, and San Diego County). Components of such a plan could include an evaluation and enhancement of the surveillance system, a review of the epidemiology of syphilis in the local area and development of targeted interventions if applicable, and enhancement of screening for syphilis in high-risk populations (e.g., correctional and drug-treatment facilities and emergency departments).

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State-Specific Pregnancy Rates Among Adolescents — United States, 1992–1995

In the United States during 1985–1990, the pregnancy rate for persons aged 15–19 years increased 9% (1). From 1991 to 1992, however, the rate declined substantially in 31 of the 42 states* for which data were available (2); from 1992 through 1995, the birth rate declined steadily (3), and state-specific abortion rates decreased annually (4,5). This report presents estimated state-specific pregnancy rates for 1992–1995 † for adolescents aged ≤19 years by age and race and the percentage change in state-specific pregnancy rates for persons aged 15–19 years for 1992 to 1995. The findings indicate a downward trend in pregnancy rates for persons aged 15–19 years during 1992–1995 for all 43 states for which data were available.

Number of pregnancies was estimated as the sum of live births, legal induced abortions, and estimated fetal losses (i.e., spontaneous abortions and stillbirths) among

^{*}The word "state" in this report includes the District of Columbia except where explicitly noted.
†State-specific adolescent pregnancy rates for 1992 were previously reported by CDC (2). Data for 1992 are reported here because of the inclusion, for the first time, of estimated fetal losses in the calculation of pregnancy rate. Adolescent pregnancy rates published by CDC before this report should not be used together with those reported here in time series analyses because of this change in methods.

Pregnancy Rates — Continued

adolescents aged ≤19 years. Data about live-born infants were obtained from birth certificates and were reported by the mother's state of residence. Because abortion data by residence were not available for all states, abortions were reported by state of occurrence.§ Estimates of fetal loss were based on sample survey data of women aged 15–44 years from the 1988 and 1995 National Survey of Family Growth (NSFG). A national estimate of fetal loss for all adolescents aged 15–19 years was derived from NSFG data and was used to create annual estimates of fetal losses based on the number of live births and legal induced abortions in a given year (CDC, unpublished data, 1998). Denominators were obtained from postcensal population estimates provided by the Bureau of the Census (6).

Rates were calculated as the number of pregnancies per 1000 females aged 15–17, 18–19, or 15–19 years. Because most pregnancies (98% of live-born infants and 94% of legal induced abortions) among persons aged <15 years occur among those aged 13–14 years (CDC, unpublished data, 1995; 7), the number of persons aged 13–14 years was used as the denominator when the rate was calculated for the <15-year age group. Legal induced abortions for which mother's age or race was unknown were included in categories based on the distribution of mothers with known age or race. Changes in pregnancy rates for persons aged 15–19 years from 1992 to 1995 were tested for statistical significance at p<0.05.

Although abortion totals were available for all states, age-specific data were only available from 43 states for 1992–1995; abortion data stratified by age and race were available from 37 states for 1992–1995. Because adequate age and Hispanic ethnicity data for women who had abortions were available for only 19 states in 1992, 21 states in 1993 and 1995, and 22 states in 1994, pregnancy rates by ethnicity are not included.

Pregnancy rates for persons aged 15–19 years ranged from 63.3 (Wyoming) to 126.0 (Georgia) in 1992[¶]; from 62.0 (Minnesota) to 122.0 (Georgia) in 1993; from 57.1 (North Dakota) to 119.0 (Texas) in 1994; and from 56.3 (North Dakota) to 117.1 (Nevada) in 1995 (Table 1). In each year, the rate was highest for persons aged 18–19 years and lowest for those aged <15 years. During 1992–1995, the pregnancy rate for persons aged 15–19 years decreased in each of the 43 states for which age-specific data were available. Declines ranged from 2.8% (Arkansas) to 20.1% (Vermont); all but one of these decreases were statistically significant.

Rates declined for persons aged 18–19 years in all 42 reporting states from 1992 to 1995. However, pregnancy rates increased for those aged <15 years in nine of 40 states for which data were available and for those aged 15–17 years in two of 42 states. Rates for persons aged 15–19 years were, in most cases, higher for blacks than for whites among states for which data were available (Table 2). However, in 24 of the 26 states for which data were available, the decline in pregnancy rate for blacks was greater than for whites from 1992 to 1995.

From 1992 to 1995, abortion and birth rates declined for persons aged 15–19 years. Of 43 states for which data were available, 40 reported a decreased adolescent

[§]For 47 reporting areas during 1992–1994 and for 48 areas in 1995, the number and characteristics of persons who obtained legal induced abortions were provided by the central health agency (state health departments and the health departments of New York City and the District of Columbia). For five areas during 1992–1994 and for four areas during 1995, data about the number of abortions were provided by hospitals and other medical facilities.

District of Columbia is not included in these comparisons because its pregnancy rates were higher than for any state, in part because of large numbers of abortions among nonresidents.

Pregnancy Rates — Continued

abortion rate (CDC, unpublished data, 1992, 1995), and birth rates declined in 50 of 51 states (2,3). Relative decreases in abortion rates generally exceeded declines in birth rates.

Reported by: Behavioral Epidemiology and Demographic Research Br and Statistics and Computer Resources Br, Div of Reproductive Health, National Center for Chronic Disease Prevention and Health Promotion, CDC.

Editorial Note: The findings in this report indicate a downward trend in adolescent pregnancy rates during the first half of the 1990s. Adolescent pregnancy rates declined in states with high and with low rates, suggesting the potential for all states to achieve lower adolescent pregnancy rates.

The estimation of adolescent pregnancy rates was limited by the lack of agespecific data for eight states and adequate race-specific abortion data for 17 states. The lack of age-specific abortion data by ethnicity in most states also limited this analysis because the ethnic composition of state populations is an important determinant of state variations in pregnancy rates.

Legal induced abortions reported to CDC may undercount the true number of abortions. Use of abortion data by state of occurrence rather than by state of residence may have overestimated the abortion rate in states with large metropolitan areas that might draw from adjoining states, such as New York City and the District of Columbia. Estimates of fetal loss are subject to underreporting, especially because of unrecognized early fetal losses; fetal loss estimates are based on small numbers of adolescent pregnancies. Therefore, pregnancy totals based on births, legal induced abortions reported to CDC, and fetal loss estimates may underestimate the actual pregnancy rate. However, underreporting probably remains relatively constant from year to year and is unlikely to affect the trends in this report substantially.

Sexual experience, sexual activity, and effective contraceptive use are important determinants of changes in pregnancy rates. After increasing in the 1980s, the estimated proportion of adolescent females aged 15–19 years who were sexually experienced (i.e., ever had sexual intercourse) and the percentage who were sexually active (i.e., had had sexual intercourse within 3 months of interview) stabilized from 1988 to 1995 (8). The proportion of adolescents who reported having used contraception at first intercourse increased from 1988 to 1995 (3) but little change was found in the proportion of persons aged 15–19 years who reported using a contraceptive method within 1 month of interview (9). Among those who reported using a contraceptive method within 1 month of interview, use of oral contraceptives declined from 1988 to 1995, and use of condoms and long-acting contraceptive methods increased.

Sexual experience and contraceptive use may be influenced by motivation to avoid pregnancy, access to health-care services, income, education, and other factors. Sustaining the downward trend in adolescent pregnancy will require solutions that address complex individual and community-level factors that can affect adolescents' sexual and reproductive behavior. Programs designed to reduce adolescent pregnancy that address an array of risk factors (e.g., socioeconomic disadvantage, poor educational and employment opportunities, or lack of social support) in addition to specific skills to postpone sexual experience and increase contraceptive use may be more effective in reducing adolescent pregnancy than programs focusing exclusively on changing sexual beliefs or behavior (10). Additional characteristics of effective programs are strong educational components, messages tailored to the needs of

TABLE 1. Pregnancy rates* for adolescents aged ≤19 years, by age group and state[†], and percentage change[§] in rates for 15–19-year-olds — United States, 1992–1995

		19	92			19	993			1	994			19	95		% Change in rate for 15–19-year-olds from 1992
State	<15	15–17	18–19	15–19	<15	15–17	18–19	15–19	<15	15–17	18–19	15–19	<15	15–17	18–19	15–19	to 1995§
Alabama	10.8	71.7	164.4	109.9	11.6	72.8	158.3	108.1	10.6	75.5	160.6	110.1	10.1	71.1	158.2	106.3	-3.3
Arizona	6.5	76.0	192.4	122.1	5.6	73.9	187.3	118.4	6.7	74.7	183.7	117.1	6.3	70.5	164.4	108.2	-11.4
Arkansas	8.2	66.1	166.4	107.0	7.7	64.0	161.6	103.7	8.1	68.8	166.8	108.3	8.4	68.1	158.3	104.1	-2.8
Colorado	5.5	61.4	144.0	94.2	5.0	58.1	134.4	88.0	4.9	56.3	130.2	85.1	4.2	54.2	121.0	80.4	-14.7
Connecticut	7.7	63.6	135.5	92.8	7.4	63.5	130.3	90.2	5.6	62.5	122.1	85.8	5.0	53.8	114.7	77.3	-16.8
District of Columbia	36.1	¶	¶	245.7	28.4	¶	¶	278.1	41.3	¶	¶	267.3	26.0	¶	¶	229.6	-6.6
Georgia	12.5	82.0	188.6	126.0	12.3	81.9	181.1	122.0	12.4	80.0	175.3	117.5	11.9	79.2	172.4	115.6	-8.3
Hawaii	7.8	66.5	149.3	101.9	5.6	64.5	153.4		6.4	68.4	152.9	103.7	7.3	58.5	139.4	92.3	-9.4
daho	2.3	38.5	119.9	70.4	2.3	39.2	110.1	67.3	2.7	35.8	99.9	61.2	2.9	35.1	105.6	63.4	-9.9
ndiana	4.8	50.0	136.4	85.2	4.2	48.3	132.8	82.6	5.1	49.8	133.6	83.4	4.8	49.9	132.0	82.4	-3.2
Kansas	5.8	63.3	164.0	102.6	6.6	63.1	164.4	102.6	5.3	60.5	154.5	96.9	7.1	59.6	150.7	94.9	-7.5
Kentucky	7.1	61.4	148.1	96.4	6.7	61.7	142.7	94.3	6.6	59.7	144.8	93.5	5.8	55.9	138.0	88.6	-8.1
ouisiana	10.3	73.3	162.5	109.2	9.9	73.2	158.4	107.6	9.6	71.4	156.7	105.6	8.2	63.7	149.9	98.2	-10.1
Maine	2.5	37.6	104.4	65.1	2.8	36.9	103.3	63.4	2.6	33.0	102.2	60.0	2.7	36.3	94.2	58.7	-9.8
Maryland	8.5	60.5	134.2	90.7	8.8	61.3	129.3	88.4	8.4	57.6	129.6	85.8	7.0	54.9	123.3	81.4	-10.2
Massachusetts	5.7	50.0	125.3	82.0	6.0	49.1	138.4	86.1	5.5	47.9	127.9	80.2	4.3	44.3	113.1	71.8	-12.5
Michigan	6.0	56.7	148.1	94.0	5.7	55.9	139.1	89.2	5.7	53.0	137.4	86.1	5.3	50.1	128.9	80.6	-14.2
Minnesota	3.7	37.4	107.9	65.1	3.5	35.9	102.9	62.0	3.5	34.4	100.8	59.8	2.7	34.0	92.9	56.4	-13.3
Mississippi	12.9	83.9	169.5	118.8	13.2	77.7	167.9	114.2	11.6	73.9	156.0	106.8	10.8	73.4	147.8	103.1	-13.2
Missouri	5.5	55.5	147.0	92.0	6.0	52.7	137.6	86.3	5.6	51.0	138.5	85.0	5.2	46.7	131.0	79.3	-13.8
Montana	4.2	51.2	132.6	82.8	3.2	48.6	127.5	79.1	3.6	43.1	123.1	73.7	2.7	43.9	118.6	72.8	-12.0
Nebraska	3.9	41.7	124.1	74.7	3.8	40.4	119.9	72.5	3.8	42.3	120.6	73.6	3.1	38.9	103.5	64.6	-13.5
Vevada	8.6	77.3	195.9	125.0	7.4	75.8	184.7	118.8	6.8	76.1	180.4	116.6	6.7	74.6	185.1	117.1	-6.3
New Jersey	6.8	51.9	126.9	82.2	6.8	52.1	117.1	78.0	6.3	49.6	116.7	75.9	5.0	46.3	112.8	72.0	-12.4
New Mexico	5.8	78.9	182.8	120.0	5.9	77.6	179.5	117.6	6.8	74.2	167.3	110.1	6.7	70.2	164.4	106.8	-11.0
New York	10.1	76.4	169.0	113.9	9.3	77.2	168.2	113.8	8.7	76.1	165.9	111.9	7.8	70.0	160.0	105.8	-7.1
North Carolina	10.0	80.5	183.5	123.4	9.5	79.1	178.4	119.7	10.3	80.4	175.2	118.4	9.6	75.4	168.5	112.4	-8.9
North Dakota	**	31.6	115.5	63.9	**	30.7	112.9	62.3	**	27.4	104.8	57.1	**	30.8	97.0	56.3	-11.8
Ohio	5.3	52.2	140.0	88.0	5.6	54.3	140.2	89.0	5.4	53.1	136.1	86.0	4.8	51.5	132.4	83.3	-5.4
Dregon	4.8	57.6	156.0	95.5	4.9	58.5	151.0	94.3	5.0	59.2	146.7	93.0	5.4	58.2	146.9	92.5	-3.2
Pennsylvania	7.4	54.9	127.2	84.6	6.8	54.6	124.7	82.9	6.5	48.8	118.7	76.4	5.6	44.4	113.9	71.6	-15.3
Rhode Island	7.3	58.5	166.6	103.9	5.9	63.6	171.6	107.7	7.5	61.4	162.2	101.1	5.3	54.1	154.4	93.5	-10.1
South Carolina	8.9	68.1	153.7	103.8	9.0	65.0	147.1	98.9	8.5	68.8	143.1	99.0	8.8	64.8	142.0	96.0	-7.5
South Dakota	**	42.6	113.3	70.1	1.9	38.1	104.9	64.2	**	35.1	102.5	61.2	1.8	34.0	99.0	59.5	-15.1

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Texas	7.7	77.4	189.0	122.3	7.7	77.2	185.4	120.8	7.6	78.0	180.9	119.0	7.3	76.6	176.7	116.3	-4.8	gr
Utah	3.0	37.2	110.8	65.6	2.4	36.6	104.4	62.9	2.2	35.0	96.5	59.1	2.2	34.3	92.7	58.1	-11.5	ıaı
Vermont	3.4	45.5	132.1	81.0	3.0	44.0	124.9	76.2	3.2	41.2	118.8	71.6	3.4	36.7	109.3	64.7	-20.1	7C)
Virginia	7.2	58.0	141.3	93.2	7.1	56.4	135.9	89.6	6.7	56.0	136.8	89.2	6.2	54.4	127.8	84.2	-9.6	7
Washington	5.0	64.1	155.8	100.4	5.3	62.2	153.2	98.2	5.3	59.4	142.5	91.9	5.2	56.8	137.0	88.2	-12.1	at
West Virginia	3.8	45.9	125.2	78.0	4.9	46.5	121.3	76.7	3.5	45.8	115.2	73.5	3.7	43.7	117.4	73.3	-6.0	tes
Wisconsin	4.5	41.6	118.1	71.7	4.7	39.7	109.3	67.2	4.1	37.4	101.4	62.4	4.1	36.2	95.5	59.2	-17.4	Ĩ
Wyoming	**	31.8	114.5	63.3	**	34.6	109.0	63.2	2.5	31.0	105.3	59.1	**	30.7	102.7	58.0	-8.4	-

9.0 66.0 170.5 107.3

7.7 64.1 167.1 104.5

9.3 69.4 170.2 110.9

Tennessee

8.5 66.6 167.8 107.5

^{*}Per 1000 females in age group (per 1000 females aged 13–14 years for the <15-year age group).

†Pregnancy rate could not be calculated for the following states because they did not provide abortion data by age for 1992–1995: Alaska, California, Delaware, Florida, Illinois, Iowa, New Hampshire, and Oklahoma.

§ All percentage changes except for Arkansas were statistically significant at p<0.05.

¶Pregnancy rate could not be calculated because the state did not provide abortion data for certain age groups.

**Pregnancy rate was not calculated for groups with <20 pregnancies or <1000 adolescent females.

	19	92	19	93	19	94	19	95	% Chang from 199	je in rate 2 to 1995
State	White	Black	White	Black	White	Black	White	Black	White	Black
Alabama	86.5	158.8	84.9	156.9	85.6	161.0	84.9	146.8	-1.8	-7.6
Arizona	120.6	177.6	116.8	168.2	116.3	152.5	109.0	113.4	-9.6	-36.2
Arkansas	90.5	168.2	88.5	158.4	91.5	168.3	88.3	158.6	-2.4	- 5.7
Colorado	¶	\P	¶	\P	¶	¶	¶	¶		
Georgia	93.9	192.1	92.1	182.4	88.9	174.4	90.2	165.6	-3.9	-13.8
Hawaii	76.3	**	75.2	**	73.6	**	51.7	80.0	-32.2	_
ldaho	70.0	**	66.6	**	60.7	**	63.3	**	-9.7	_
Indiana	74.2	184.8	72.4	178.1	74.1	169.6	74.1	158.4	-0.2	-14.3
Kansas	91.7	249.9	92.0	232.6	88.5	210.7	85.9	210.7	-6.3	-15.7
Kentucky	89.1	176.8	87.4	171.3	86.4	171.8	82.2	156.4	-7.7	-11.5
Louisiana	77.0	157.7 ^{††}	73.7	157.4 ^{††}	73.7	152.0 ^{††}	71.6	136.1††	-6.9	-13.7 ^{††}
Maine	64.8	**	62.6	**	59.1	**	57.6	**	-11.1	_
Maryland	60.2	161.7	58.7	153.4	58.2	146.6	58.1	132.3	-3.4	-18.2
Minnesota	55.8	257.2	52.9	227.5	51.3	213.9	47.1	215.1	-15.6	-16.4
Mississippi	84.8	159.4	77.7	157.2	73.2	146.7	72.7	137.7	-14.3	-13.6
Missouri	71.9	219.4	69.0	197.3	69.6	183.1	66.4	161.0	-7.6	-26.6
Montana	72.9	**	70.4	* *	66.5	* *	65.5	* *	-10.3	
Nevada	120.2	201.9	115.3	180.4	114.4	163.0	117.7	141.5	-2.0	-29.9
New Jersey	48.6	211.9	48.4	211.0	46.1	200.3	46.4	177.5	-4.5	-16.2
New Mexico	120.6	118.9	116.4	126.7	109.5	103.8	106.8	99.6	-11.4	-16.2
New York	91.2	207.4	89.6	211.9	88.9	203.9	85.4	186.0	-6.3	-10.3
North Carolina	98.2	183.2	95.2	177.9	95.2	172.1	92.5	157.8	-5.8	-13.9
North Dakota	56.4	**	55.3	**	50.7	* *	49.6	**	-12.1	_
Ohio	¶	¶	¶	¶	70.9	185.4	69.2	173.4	_	_
Oregon	93.6	214.3	92.4	218.2	90.5	206.4	90.5	184.7	-3.4	-13.8
Pennsylvania	63.1	249.4	61.6	246.6	56.8	224.9	53.7	208.1	-15.0	-16.6
Rhode Island	92.0	249.8	95.7	240.4	90.6	225.0	83.5	197.2	-9.2	-21.1
South Carolina	80.9	141.1	78.9	130.7	78.2	131.6	78.6	123.3	-2.8	-12.6
South Dakota	54.8	**	51.2	* *	50.3	* *	48.7	* *	-11.1	
Tennessee	91.3	191.6	88.1	186.0	88.5	181.8	87.3	170.5	-4.3	-11.0
Texas	115.8	175.5	115.7	166.0	115.0	157.0	114.3	142.2	-1.3	-19.0

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Utah	64.0	**	61.5	**	57.7	**	56.6	* *	-11.5	
Vermont	80.6	* *	75.9	* *	71.6	* *	65.4	* *	-19.0	_
Virginia	74.2	164.4	72.2	153.3	72.9	148.4	68.5	139.0	-7.7	-15.5
Washington	\P	¶	¶	¶	¶	¶	¶	¶	_	_
West Virginia	76.2	137.4	75.0	135.1	71.5	138.8	71.1	137.6	-6.7	0.2
Wisconsin	53.4	267.6	51.2	239.3	48.2	212.3	46.5	194.9	-13.1	-27.2

^{*}Per 1000 adolescent females aged 15-19 years in each racial group. Rates were not calculated for some states according to the following hierarchy: 1) abortion data by age and race were not reported by state; 2) <20 pregnancies or <1000 adolescent females were in the group; and 3) for >15% of the abortion data, age or race of the woman was unknown.

† Pregnancy rate for adolescents of races other than white or black are not presented because the composition of this category varied widely by state and because abortion information was not available on the race breakdown of "others" for each state.

[§] Pregnancy rate could not be calculated for the following states because they did not provide abortion data by age and race for 1992–1995: Alaska, California, Connecticut, Delaware, District of Columbia, Florida, Illinois, Iowa, Massachusetts, Michigan, Nebraska New Hampshire, Oklahoma, and Wyoming.

[¶]Pregnancy rate was not calculated because race information was missing for >15% of females who had had an abortion.

^{**} Pregnancy rate was not calculated for groups with <20 pregnancies or <1000 adolescent females.

^{††}Rate and percentage change is for all races other than white.

Pregnancy Rates — Continued

different groups of adolescents, and youth development approaches that seek to strengthen self-esteem and planning for the future (10).

In 1995, CDC funded 13 Community Coalition Partnership Programs for the Prevention of Teen Pregnancy to demonstrate how communities can mobilize resources in support of community-wide, sustainable efforts to prevent initial and repeat adolescent pregnancies. Rigorous evaluation of adolescent pregnancy prevention measures is an essential component of these community demonstration programs. The identification of effective strategies will assist state and local agencies in implementing successful approaches to continuing the downward trend in adolescent pregnancy.

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Progress Toward Poliomyelitis Eradication — Europe and Central Asian Republics, 1997–May 1998

In 1988, the World Health Assembly resolved to eradicate poliomyelitis globally by 2000 (1). In 1995, the World Health Organization (WHO) European Region (EUR), comprising 51 member states (including Israel and the Central Asian Republics), accelerated efforts toward polio eradication. Improvements in status have been reported previously (2–4). This report summarizes progress toward polio eradication during 1997–1998*, demonstrating that polio incidence has decreased to seven cases in 1997 and two cases in 1998, and surveillance has improved substantially.

Supplemental vaccination activities. Since 1995, National Immunization Days (NIDs)[†] were conducted in 18 contiguous countries of the WHO Eastern Mediterranean (eight countries: Afghanistan, Iran, Iraq, Jordan, Lebanon, Pakistan, Palestine,

^{*}The report contains data reported to EUR through May 30, 1998. Surveillance data for 1997 have been updated (2).

and Syria) and European regions (10 countries: Armenia, Azerbaijan, Georgia, Kazakhstan, Kyrgyzstan, Russian Federation, Tajikistan, Turkey, Turkmenistan, and Uzbekistan) as part of Operation MECACAR (Eastern Mediterranean, Caucasus, and Central Asian Republics). Reported coverage levels were >95% in 1997 with two doses of oral poliovirus vaccine (OPV), similar to levels achieved during previous years (2). Beginning in the autumn of 1997 with "mopping-up" vaccination, coordinated activities in countries of the two regions continued as "Operation MECACAR Plus"; NIDs were conducted in April and May 1998, but final results are not available. Additional coordinated NIDs and "mopping-up" vaccination will continue through 2000 in selected countries, depending on the quality and results of local acute flaccid paralysis (AFP) surveillance.

Surveillance. AFP surveillance and virologic testing of stool specimens from AFP cases is a key strategy recommended by WHO for polio eradication. By 1998, a total of 17 countries where polio is endemic or was recently endemic have established AFP surveillance; in addition, 18 countries where polio is not endemic also report AFP surveillance data (Table 1). From January 1997 through May 1998, three countries (Albania, Belarus, and Kyrgyzstan) consistently achieved the minimum AFP reporting rate indicative of a sensitive surveillance system (at least one nonpolio AFP case per 100,000 children aged <15 years annually); reported rates for the Russian Federation in 1997 and 1998 and for Ukraine in 1997 are difficult to interpret because of the inclusion of cases of isolated facial paralysis. In addition, 13 other countries are close to achieving or have provisionally achieved the minimum reporting rate in 1998. The overall rate of collection of two adequate stool samples from persons with reported AFP cases increased to approximately 70% in 1997 and in 1998 (Table 1). During 1997-1998, few countries consistently achieved the WHO-recommended target of two adequate stool specimens collected from at least 80% of AFP cases. Beginning in 1998, a total of 29 of 35 countries are reporting case-based AFP surveillance data weekly to the WHO regional office. Completeness of reports received for weekly reporting is 83%; for the six countries still reporting aggregate counts of AFP cases monthly, completeness is 69%.

EUR laboratory network. The EUR polio laboratory network consists of 35 laboratories: 30 national laboratories, two subregional reference laboratories, and five regional reference laboratories (two of which are national laboratories) (5). WHO accreditation of national laboratories based on six objective criteria (5) is being implemented; 20 laboratories have received full accreditation. Four laboratories received provisional accreditation pending further experience or improvements in specific areas. Based on the status of accreditation, of the 1596 AFP cases reported in 1997, a total of 448 (28%) stool specimens were processed for virus isolation in fully accredited laboratories.

[†]Mass campaigns over a short period (days to weeks) in which two doses of OPV are administered to all children in the target age group, regardless of previous vaccination history, with an interval of 4–6 weeks between doses.

[§]Focal mass campaign in high-risk areas over a short period (days to weeks) in which two doses of OPV are administered during house-to-house visits to all children in the target age group, regardless of previous vaccination history, with an interval of 4–6 weeks between doses.

[¶]Two stool specimens collected at an interval of at least 24 hours within 14 days of onset of paralysis. WHO recommends that ≥80% of patients with AFP have two adequate specimens collected (4).

TABLE 1. Number of reported cases of nonpolio acute flaccid paralysis (AFP), nonpolio AFP rate*, and percentage of persons with reported AFP with two stool specimens, by year and country — European Region (EUR), World Health Organization, 1997 and 1998[†]

		1997		1998				
Country	No. nonpolio AFP cases	Nonpolio AFP rate	% of persons with AFP with two stool specimens§	No. nonpolio AFP cases	Nonpolio AFP rate	% of persons with AFP with two stool specimens§		
Albania	12	1.11	83%	3	1.11	33%		
Armenia	15	1.45	93%	4	0.91	75%		
Azerbaijan	13	1.08	77%	1	0.24	100%		
Belarus	34	1.53	100%	20	2.13	40%		
Bosnia and								
Herzegovina	1	0.20	100%	1	1.16	100%		
Bulgaria	9	0.61	100%	9	1.28	38%		
Croatia	3	0.32	67%	0	0			
Czech Republic	9	0.49	78%	10	1.28	50%		
Estonia	3	1.03	33%	1	0.82	0		
Georgia	7	0.55	86%	4	0.77	75%		
Greece [¶]	_	_	_	0	0			
Hungary**	_	_	_	5	0.65	20%		
Israel	17	1.02	18%	6	0.85	17%		
Italy	55	0.65	36%	30	0.83	33%		
Kazakhstan	35	0.69	60%	10	0.61	80%		
Kyrgyzstan	24	1.39	63%	8	1.42	88%		
Latvia	0	0	0	0	0	3373		
Malta ^{††}	3	3.61	0	1	2.85	100%		
Netherlands	10	0.35	0	5	0.50	0		
Poland	49	0.59	55%	11	0.31	36%		
Portugal	0	0.55	0	0	0.51	0070		
Republic of Moldova	8	0.68	88%	9	1.82	56%		
Romania	39	0.89	100%	31	1.67	81%		
Russian Federation	889	4.07	71%	223	4.08	92%		
Slovak Republic	3	0.25	100%	223	0.40	0		
Slovenia	0	0.25	100 /6	0	0.40	U		
Spain ^{§§}	5	0.46	100%	23	0.83	52%		
Switzerland	15	1.18	7%	23 1	0.03	0		
Tajikistan	6	0.25	7% 71%	2	0.19	100%		
Former Yugoslav Republic of	0	0.25		2	0.20	100%		
Macedonia	4	0.67	75%	1	0.39	100%		
Turkey	135	0.62	65%	98	1.07	50%		
Turkmenistan	9	0.56	56%	5	0.74	80%		
Ukraine	149	1.76	79%	23	0.64	87%		
Uzbekistan Federal Republic	14	0.15	86%	22	0.58	91%		
of Yugosİavia	14	0.62	64%	17	1.95	65%		
Total	1589	1.12	69%	586	1.83	70%		

^{*}Per 100,000 children aged <15 years. The rate for 1998 is annualized.

[†]Data reported to EUR through May 30, 1998.

[§] Two stool specimens collected at an interval of at least 24 hours within 14 days of onset of paralysis and adequately shipped to the laboratory.

[¶]AFP surveillance began in early 1998.

**AFP surveillance began in January 1998.

†† AFP surveillance began in July 1997.

§§ AFP surveillance began in autumn 1997.

Incidence of polio. From 1991 through 1996, the number of confirmed polio cases** reported annually in EUR ranged from 177 to 297; in 1997, only seven cases from two countries (Tajikistan and Turkey) were reported. Wild poliovirus type 1 was isolated in six cases in one southeastern province of Turkey during July–December 1997 (3). To date, Turkey has reported two cases of polio from an adjoining province; one case had onset of paralysis in January and the other in April 1998. All recent isolates of wild poliovirus type 1 in Turkey are related to a single Middle East genotype. Because of inadequate stool specimen collection from some AFP cases in which there was residual paralysis, death, or loss to follow-up, 19 polio-compatible cases were reported in 1997 from seven countries.

Certification process. The European Regional Commission for the Certification of Poliomyelitis Eradication has begun reviewing comprehensive documentation on the vaccination and surveillance activities of EUR countries. All member countries have been asked to form national certification committees to objectively review country vaccination, laboratory, and epidemiologic surveillance data and submit relevant documentation to the regional commission. Documentation from the countries of Europe in which there has been an absence of reported cases for >8 years will be sought in 1998, followed by review for the other countries through 2000.

Reported by: Communicable Diseases and Immunization Unit, World Health Organization Regional Office for Europe, Copenhagen, Denmark; Expanded Program on Immunization, Global Program for Vaccines and Immunization, World Health Organization, Geneva, Switzerland. Respiratory and Enteric Viruses Br, Div of Viral and Rickettsial Diseases, National Center for Infectious Diseases; Vaccine Preventable Disease Eradication Div, National Immunization Program, CDC.

Editorial Note: Polio transmission has been interrupted in most EUR countries where polio was previously endemic; this status is attributed to improvements in routine vaccination coverage and the successful implementation of NIDs through Operation MECACAR. In addition, surveillance activities in most EUR countries have improved. The quality of surveillance and laboratory performance in many areas of the region needs further improvement, particularly in all areas where polio was recently endemic, to ensure that indigenous transmission has been interrupted and that any transmission secondary to imported poliovirus is promptly detected.

WHO staff and consultants are assessing AFP surveillance systems and laboratory performance in 15 countries to determine how further improvements can be made; this is in anticipation of needing to provide definitive AFP and virologic surveillance data supporting the certification process. The incidence of facial paralysis has been unexpectedly high in some countries, possibly attributed to a high incidence of borreliosis. Reporting of facial paralysis has obscured the sensitivity of some surveillance systems monitoring paralytic illnesses more consistent with clinical polio. With the collection of information about individual AFP cases, future monitoring of AFP surveillance will provide more homogeneous data across EUR.

Southeastern areas of Turkey adjacent to Syria, Iran, and Iraq remain at high risk for wild poliovirus transmission; wild polioviruses have been isolated from AFP cases throughout 1997 in Iran and Iraq (4). Most areas of Tajikistan, Turkmenistan, and

^{**}A confirmed case of polio is defined under the virologic scheme of classification as AFP with laboratory-confirmed wild poliovirus infection; in countries where virologic surveillance is inadequate, clinical cases have either residual paralysis at 60 days, death, or no follow-up investigation at 60 days. Most countries in EUR use the virologic scheme of classification of AFP cases, for which some AFP cases with residual paralysis at 60 days, death, or no follow-up investigation may be considered as polio-compatible cases.

Uzbekistan remain at risk for polio because of confirmed ongoing poliovirus transmission in Afghanistan (4). Importation of wild poliovirus or continuing low-level indigenous transmission may not be detected because of weak surveillance and/or laboratory deficiencies. Interregional and intercountry efforts are ongoing to coordinate surveillance and supplementary vaccination activities in these key high-risk border areas. Supplemental vaccination activities will continue to be organized through 2000 under Operation MECACAR Plus to interrupt any remaining chains of poliovirus transmission. Mopping-up campaigns will be conducted in October and November 1998 in the high-risk areas that border countries of the Eastern Mediterrean Region where polio is endemic or was recently endemic.

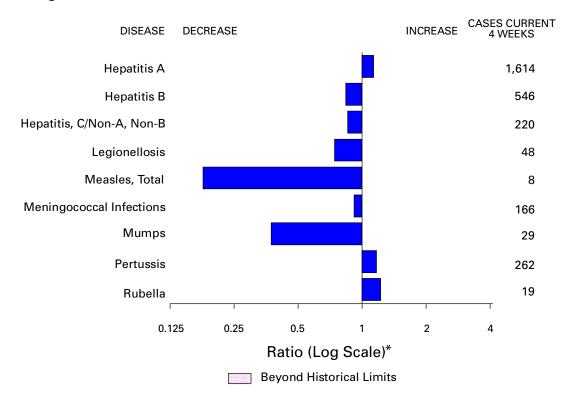
EUR priorities toward polio eradication by 2000 include 1) strengthening AFP surveillance systems throughout the region (including accreditation of all laboratories), particularly in the Caucasus, Turkey, and the Central Asian Republics; 2) ensuring that high-quality NIDs or sub-NIDs are conducted through Operation MECACAR Plus in selected countries with persistent high risk for wild poliovirus circulation caused by low vaccination coverage, weak surveillance, and/or administrative problems; 3) implementing coordinated supplemental vaccination activities among key border area populations; 4) maintaining and strengthening the political commitment of governments for polio eradication and certification; 5) consolidating the support of donor governments and partner agencies to ensure sufficient financial and human resources; and 6) progressing in the formal process of certification.

Polio eradication efforts in EUR have been supported by the governments of countries where polio is endemic or was recently endemic, WHO, United Nations Children's Fund (UNICEF), Rotary International, U.S. Agency for International Development, CDC, and through contributions from Canada, Denmark, European Union, Finland, France, Germany, Greece, Hungary, Italy, Japan, Luxembourg, Monaco, Netherlands, Norway, Switzerland, and the United Kingdom.

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FIGURE I. Selected notifiable disease reports, comparison of provisional 4-week totals ending June 20, 1998, with historical data — United States



^{*}Ratio of current 4-week total to mean of 15 4-week totals (from previous, comparable, and subsequent 4-week periods for the past 5 years). The point where the hatched area begins is based on the mean and two standard deviations of these 4-week totals.

TABLE I. Summary — provisional cases of selected notifiable diseases, United States, cumulative, week ending June 20, 1998 (24th Week)

	Cum. 1998		Cum. 1998
Anthrax Brucellosis Cholera Congenital rubella syndrome Cryptosporidiosis* Diphtheria Encephalitis: California* eastern equine* St. Louis* western equine* Hansen Disease Hantavirus pulmonary syndrome* Hemolytic uremic syndrome, post-diarrheal* HIV infection, pediatric*	31 3 2 814 1 2 - - 54 4 14 106	Plague Poliomyelitis, paralytic Psittacosis Rabies, human Rocky Mountain spotted fever (RMSF) Streptococcal disease, invasive Group A Streptococcal toxic-shock syndrome* Syphilis, congenital** Tetanus Toxic-shock syndrome Trichinosis Typhoid fever Yellow fever	2 20 - 68 1,066 33 128 11 63 6

^{-:} no reported cases

^{*}Not notifiable in all states.

† Updated weekly from reports to the Division of Viral and Rickettsial Diseases, National Center for Infectious Diseases (NCID).

§ Updated monthly to the Division of HIV/AIDS Prevention–Surveillance and Epidemiology, National Center for HIV, STD, and TB Prevention (NCHSTP), last update May 24, 1998.

¶ One suspected case of polio with onset in 1998 has been reported to date.

^{**}Updated from reports to the Division of STD Prevention, NCHSTP.

TABLE II. Provisional cases of selected notifiable diseases, United States, weeks ending June 20, 1998, and June 14, 1997 (24th Week)

		AIDC				erichia 157:H7			Нера	ntitis
	AII			mydia	NETSS†	PHLIS	Gono		C/N/	
Reporting Area	Cum. 1998*	Cum. 1997	Cum. 1998	Cum. 1997	Cum. 1998	Cum. 1998	Cum. 1998	Cum. 1997	Cum. 1998	Cum. 1997
UNITED STATES	20,034	25,974	236,084	225,050	606	305	138,335	128,357	1,827	1,589
NEW ENGLAND Maine	640 13	897 25	8,701 419	7,943 427	84 5	60	2,297 25	2,678 25	19 -	30
N.H.	21	14	424	355	12	16	42	56	-	
Vt. Mass.	10 275	18 416	179 3,874	186 3,279	1 47	3 30	13 920	24 1,012	- 18	1 26
R.I. Conn.	58 263	70 354	1,153	948	3 16	1 10	172	216	1	3
MID. ATLANTIC	5,695	8,265	2,652 28.966	2,748 26,631	61	10	1,125 16.020	1,345 16,156	186	158
Upstate N.Y.	710	1,336	N	N	39	-	2,781	2,797	140	123
N.Y. City N.J.	3,153 993	4,136 1,783	15,749 4,626	13,890 4,706	3 19	5 4	6,757 2,631	6,149 3,336	-	-
Pa.	839	1,010	8,591	8,035	N	1	3,851	3,874	46	35
E.N. CENTRAL Ohio	1,518 281	1,809 394	40,052 11,395	33,354 10,171	106 26	60 11	26,758 6,752	19,779 6,255	239 6	305 7
Ind. III.	293 610	328 602	3,288 11,444	3,991 6,018	25 29	20	2,083 8,995	2,717 2,940	3 11	9 50
Mich.	252	394	9,898	8,235	26	13	7,324	5,816	219	221
Wis.	82 351	91 520	4,027	4,939 14,494	N 75	16 36	1,604	2,051	- 108	18 32
W.N. CENTRAL Minn.	56	83	13,981 2,016	3,019	30	20	6,805 708	6,372 1,050	5	2
lowa Mo.	20 176	66 254	2,010 5,375	2,149 5,353	17 10	12	638 3,928	580 3,418	11 88	15 4
N. Dak.	4	4	290	392	1	1	29	24	-	2
S. Dak. Nebr.	9 36	2 48	765 1,020	563 902	1 7	1 -	125 346	57 324	2	2
Kans.	50	63	2,505	2,116	9	2	1,031	919	2	7
S. ATLANTIC Del.	5,037 57	6,477 111	49,873 1,172	40,021 612	41 -	16 1	39,972 637	38,291 524	94	104 -
Md. D.C.	571 413	742 469	3,794 N	3,366 N	11 1	4	4,194 1,629	5,397 1,886	5	3
Va.	368	552	4,623	5,205	N	7	2,759	3,607	5	10
W. Va. N.C.	47 335	38 363	1,298 10,324	1,400 7,722	N 11	1 3	370 8,622	440 7,512	4 12	8 28
S.C.	318	295	8,650	5,657	1 4	-	5,586	5,115	1 9	24
Ga. Fla.	608 2,320	856 3,051	11,394 8,618	4,426 11,633	12	-	9,341 6,834	5,728 8,082	58	31
E.S. CENTRAL	788	807	16,992	15,572	39	11	16,040	15,348	70	172
Ky. Tenn.	101 272	112 354	2,834 5,934	3,016 5,823	10 20	10	1,610 5,024	1,912 4,792	11 56	7 105
Ala. Miss.	233 182	196 145	4,564 3,660	3,716 3,017	9 U	- 1	5,718 3,688	5,210 3,434	3 U	6 54
W.S. CENTRAL	2,473	2,590	35,058	22,058	42	5	19,926	15,094	507	186
Ark. La.	81 415	96 493	1,442 5,872	1,297 3,671	1	1 1	1,128 4.800	2,113 3,444	3 9	5 96
Okla.	134	138	4,646	3,349	6	3	2,530	2,115	2	4
Tex. MOUNTAIN	1,843 725	1,863 751	23,098 8,007	13,741 13,358	35 59	- 41	11,468 2,953	7,422 3,500	493 226	81 145
Mont.	13	18	556	470	4	-	23	20	4	10
ldaho Wyo.	14 2	22 13	874 301	658 255	6 1	1 -	78 15	47 25	86 37	23 36
Colo. N. Mex.	127 111	194 66	1,772	2,770 1,865	19 9	11 6	1,054 329	823 418	13 51	19 30
Ariz.	286	188	3,534	5,180	N	9	1,296	1,654	3	17
Utah Nev.	57 115	60 190	717 253	785 1,375	13 7	8 6	66 92	110 403	19 13	3 7
PACIFIC	2,807	3,858	34,454	51,619	99	66	7,564	11,139	378	457
Wash. Oreg.	203 88	287 144	4,967 2,584	4,197 2,154	23 27	22 23	858 349	896 320	10 2	14 2
Calif.	2,463	3,377	25,060	43,858	47	18	6,010	9,510	311	359
Alaska Hawaii	12 41	22 28	875 968	635 775	2 N	3	152 195	185 228	1 54	82
Guam	-	2	8	193	N	-	2	27	-	-
P.R. V.I.	834 17	760 35	U N	U N	- N	U U	187 U	298 U	U	61 U
Amer. Samoa C.N.M.I.	-	1	U N	U N	N N	Ü	Ŭ 7	Ú 16	Ú	Ŭ 2
O.1 V.1VI.1.	-	- 1	IN	IV	IN	U		10		۷

N: Not notifiable

U: Unavailable

-: no reported cases

C.N.M.I.: Commonwealth of Northern Mariana Islands

^{*}Updated monthly to the Division of HIV/AIDS Prevention-Surveillance and Epidemiology, National Center for HIV, STD, and TB Prevention, last update May 24, 1998.

National Electronic Telecommunications System for Surveillance.

Public Health Laboratory Information System.

TABLE II. (Cont'd.) Provisional cases of selected notifiable diseases, United States, weeks ending June 20, 1998, and June 14, 1997 (24th Week)

	Legion	rellosis	Lyme Disease		Mai	aria		hilis Secondary)	Tubero	culosis	Rabies, Animal
Reporting Area	Cum. 1998	Cum. 1997	Cum. 1998	Cum. 1997	Cum. 1998	Cum. 1997	Cum. 1998	Cum. 1997	Cum. 1998*	Cum. 1997	Cum. 1998
UNITED STATES	466	382	2,204	1,655	494	641	3,035	3,961	3,438	9,058	3,179
NEW ENGLAND Maine	23 1	27 1	643 1	402 3	19 3	31 1	36 1	77	146 U	197 15	620 101
N.H.	2	4	13	7	3	2	1	-	2	6	33
Vt. Mass.	1 9	4 8	3 125	3 55	- 11	2 16	3 22	39	1 119	3 109	30 200
R.I. Conn.	4 6	5 5	31 470	43 291	2	2 8	9	1 37	24 U	13 51	35 221
MID. ATLANTIC	100	66	1,221	947	126	184	99	197	244	1,375	686
Upstate N.Y. N.Y. City	28 19	15 3	664 3	122 76	33 60	27 110	16 22	20 36	U U	191 714	486 U
N.J. Pa.	4 49	11 37	193 361	288 461	19 14	35 12	18 43	86 55	244 U	283 187	86 114
E.N. CENTRAL	143	141	34	30	46	69	409	349	230	809	42
Ohio Ind.	63 19	62 24	32 2	12 9	3 3	6 7	74 66	109 75	5 U	146 70	33
III.	14	5	-	2	15	30	157	36	225	423	2
Mich. Wis.	29 18	31 19	Ū	7 U	24 1	17 9	89 23	59 70	U U	122 48	6 1
W.N. CENTRAL Minn.	34 3	26 1	21 9	20 11	30 13	19 5	70 3	76 13	116 U	228 64	330 63
lowa	4	7	9	-	3	6	-	3	Ū	20	73
Mo. N. Dak.	12 -	2 2	-	7 -	10 2	5 -	54 -	39 -	80 U	91 5	17 64
S. Dak. Nebr.	- 12	1 10	- 1	1	-	1	1 4	1	13 5	4 6	54 2
Kans.	3	3	2	1	2	2	8	20	18	38	57
S. ATLANTIC Del.	60 7	51 5	197 4	160 32	118 1	109 2	1,279 15	1,603 14	662	1,390 14	1,005 17
Md. D.C.	12 4	11 3	136 4	102 6	41 7	40 7	306 36	448 61	132 53	136 46	245
Va. W. Va.	5 N	10 N	14 4	2	19	26	84 2	130 3	118 24	140 24	317 41
N.C.	6	6	9	7	8	7	353	326	193	172	136
S.C. Ga.	5 1	2	1 2	1 1	4 15	7 13	148 231	197 283	142 U	113 260	72 81
Fla. E.S. CENTRAL	19 19	14 19	23 23	9 35	23 13	7 15	104 523	141 858	U 160	485 561	96 121
Ky.	11	6	6	5	1	4	58	72	Ü	80	19
Tenn. Ala.	5 3	6 2	8 9	12 4	8 4	4 4	265 121	355 222	U 160	208 181	70 32
Miss.	U	5	U	14	U 17	3	79	209	U	92	U 100
W.S. CENTRAL Ark.	16 -	5 -	10 5	10 3	17 1	7 1	389 52	526 87	53 53	1,146 98	103 21
La. Okla.	1 6	1 1	-	1 2	4 2	4 2	134 24	185 56	Ū	85 87	- 82
Tex.	9	3	5	4	10	-	179	198	U	876	-
MOUNTAIN Mont.	29 1	25 1	3	5 -	24	35 2	87 -	84 -	194 12	245 6	74 26
ldaho Wyo.	- 1	2 1	1 -	1	3	2	1	-	4 2	5 2	39
Colo. N. Mex.	5 2	5 1	1	2	7 9	16 5	7 12	2 4	U 27	48 17	1 -
Ariz. Utah	4 15	7 5	-	1	4 1	4 2	62 3	69 3	92 28	111 10	7 1
Nev.	1	3	1	1	-	4	2	6	29 29	46	-
PACIFIC Wash.	42 4	22 6	52 1	46 1	101 9	172 8	143 9	191 6	1,633 17	3,107 128	1 9 8
Oreg. Calif.	37	- 15	8 43	9 36	9 82	10 148	2 132	4 179	U 1,520	68 2,778	- 181
Alaska	-	-	-	-	-	3	-	1	20	42	17
Hawaii Guam	1 -	1 -	-	-	1 -	3	-	1 3	76 -	91 13	-
P.R. V.I.	Ū	- U	Ū	Ū	Ū	3 U	109 U	101 U	46 U	88 U	27 U
Amer. Samoa	Ü	Ü	Ü	Ü	U	Ü	Ü	U	U	Ü	Ü
C.N.M.I.	-	-	-	-	-	-	1	7	8	-	-

N: Not notifiable U: Unavailable -: no reported cases

^{*}Additional information about areas displaying "U" for cumulative 1998 Tuberculosis cases can be found in Notice to Readers, MMWR Vol. 47, No. 2, p. 39.

TABLE III. Provisional cases of selected notifiable diseases preventable by vaccination, United States, weeks ending June 20, 1998, and June 14, 1997 (24th Week)

-	H. influ	ienzae,							Meas	les (Rubec	ola)	
		sive	-	4		3	Indi	genous	lmp	orted [†]		tal
Reporting Area	Cum. 1998*	Cum. 1997	Cum. 1998	Cum. 1997	Cum. 1998	Cum. 1997	1998	Cum. 1998	1998	Cum. 1998	Cum. 1998	Cum. 1997
UNITED STATES	526	562	10,113	12,822	3,538	4,250	-	23	1	13	36	72
NEW ENGLAND Maine	30 2	32 3	128 13	300 41	50	78 5	-	-	-	1	1	10
N.H.	5	4	7	17	9	5	-	-	-	-	-	1
Vt. Mass.	2 19	2 20	10 38	7 148	1 15	3 35	-	-	-	1	1	8
R.I. Conn.	2	2 1	9 51	26 61	25 -	8 22	-	-	-	-	-	- 1
MID. ATLANTIC	74	69	636	1,123	511	645	-	9	-	2	11	16
Upstate N.Y. N.Y. City	29 13	6 22	152 174	137 495	143 132	116 262	-	2	-	- -	2	4 5
N.J. Pa.	28 4	25 16	140 170	166 325	90 146	125 142	Ū	7 -	Ū	1 1	8 1	2 5
E.N. CENTRAL	82	85	1,249	1,382	351	722	-	9	1	3	12	7
Ohio Ind.	34 24	42 8	159 73	192 141	33 26	41 52	Ū	2	1 U	1 1	1 3	-
III. Mich.	23	24 11	218 713	340 606	66 210	140 225	-	- 7	-	1	8	5 2
Wis.	1	-	86	103	16	264	-	-	-	-	-	-
W.N. CENTRAL Minn.	39 25	27 18	828 60	926 86	155 16	249 18	-	-	-	-	-	11 2
lowa Mo.	1 8	3 3	365 325	133 500	26 86	19 187	-	-	-	-	-	- 1
N. Dak. S. Dak.	-	2	3	9 13	4	1	-	-	-	-	-	- 8
Nebr.	- 5	1	15 52	38 147	7 15	8 16	-	-	-	-	-	-
Kans. S. ATLANTIC	າ 111	97	52 886	656	505	498	-	2	-	- 5	- 7	3
Del. Md.	34	40	2 162	13 110	79	3 75	-	-	-	1	1	1
D.C.	-	-	28	14	6	21 57	-	-	-	-	-	1
Va. W. Va.	12 4	6	124 1	87 6	51 3	8	-	-	-	2	2	-
N.C. S.C.	13 4	16 3	48 16	103 64	82 3	108 57	-	-	-	-	-	1 -
Ga. Fla.	23 21	20 9	236 269	120 139	82 199	47 122	-	2	-	1 -	1 2	-
E.S. CENTRAL	31	36	171	320	187	315	-	-	-	-	-	1
Ky. Tenn.	4 20	4 22	10 117	38 194	22 134	19 205	-	-	-	-	-	-
Ala. Miss.	7 U	8 2	44 U	49 39	31 U	32 59	- U	Ū	Ū	Ū	Ū	1 -
W.S. CENTRAL	29	26	1,986	2,554	598	496	-	-	-	-	-	4
Ark. La.	13	1 6	40 40	119 106	34 45	34 57	-	-	-	-	-	-
Okla. Tex.	14 2	17 2	269 1,637	789 1,540	31 488	17 388	-	-	-	-	-	4
MOUNTAIN	65	64	1,606	1,901	396	409	-	-	-	-	-	7
Mont. Idaho	-	1	51 126	49 76	3 17	5 14	-	-	-	-	-	-
Wyo. Colo.	- 14	1 9	23 123	19 219	2 46	14 80	-	-	-	-	-	-
N. Mex. Ariz.	5 36	6 23	82 1,025	147 871	161 107	139 84	-	-	-	-	-	- 5
Utah Nev.	4 6	3 21	108 68	331 189	37 23	48 25	- U	-	- U	-	-	2
PACIFIC	65	126	2,623	3,660	785	838	-	3	-	2	- 5	13
Wash. Oreg.	3 29	2 22	556 194	251 189	61 53	34 55	-	-	-	1	1	-
Calif.	27 1	97 1	1,839 11	3,125 22	660 6	732 11	-	3	-	1	4	10
Alaska Hawaii	5	4	23	73	5	6	-	-	-	-	-	3
Guam P.R.	2	-	23	- 172	- 245	3 660	U	-	U	-	-	-
V.I. Amer. Samoa	Ü	U U	U U	U U	U U U	U	U U	U U	U	U U	U U	U U
C.N.M.I.	-	5	-	1	7	25	Ü	-	Ü	-	-	1

N: Not notifiable

U: Unavailable

^{-:} no reported cases

 $^{^*}$ Of 122 cases among children aged <5 years, serotype was reported for 66 and of those, 30 were type b. † For imported measles, cases include only those resulting from importation from other countries.

TABLE III. (Cont'd.) Provisional cases of selected notifiable diseases preventable by vaccination, United States, weeks ending June 20, 1998, and June 14, 1997 (24th Week)

		ococcal	l l	ille 14,	1007 (
	Dise Cum.	Disease Cum. Cum.		Mumps Cum. Cum.			Pertussis Cum.	Cum.	Rubella Cum. Cum.			
Reporting Area	1998	1997	1998	1998	1997	1998	1998	1997	1998	1998	1997	
UNITED STATES	1,404	1,896	3	224	323	52	1,940	2,445	2	242	58	
NEW ENGLAND Maine	67 4	115 11	-	-	7	4	322 5	524 6	-	32	-	
N.H. Vt.	4 1	11 2	-	-	-	2 1	27 31	61 164	-	-	-	
Mass.	32	62	-	-	2	1	250	271	-	6	-	
R.I. Conn.	3 23	8 21	-	-	4 1	-	3 6	12 10	-	26	-	
MID. ATLANTIC	139	194	-	15	34	3	249	186	1	111	13	
Upstate N.Y. N.Y. City	36 15	46 33	-	3 4	5 1	3	120 4	63 45	1 -	104 2	2 11	
N.J. Pa.	37 51	37 78	- U	1 7	6 22	Ū	5 120	11 67	Ū	4 1	-	
E.N. CENTRAL	202	281	-	39	36	6	182	231	-	-	3	
Ohio Ind.	83 25	103 33	Ū	19 3	13 4	5 U	71 48	68 27	Ū	-	-	
III. Mich.	47 26	82 38	-	1 16	8 10	- 1	14 32	30 31	-	-	-	
Wis.	21	25	-	-	1	-	17	75	-	-	3	
W.N. CENTRAL Minn.	116 19	137 23	-	20 10	8 3	9 7	153 86	139 86	-	13	-	
lowa Mo.	16 48	27 64	-	6	4	2	38 12	8 22	-	2	-	
N. Dak.	-	1	-	1	-	-	-	2	-	-	-	
S. Dak. Nebr.	6 4	4 4	-	-	1	-	4 5	3 3	-	-	-	
Kans. S. ATLANTIC	23	14 315	-	-	-	-	8	15 195	-	11 6	- 17	
Del.	248 1	4	1 -	32	36 -	4 -	121 1	-	1 -	-	-	
Md. D.C.	22	31 5	-	-	1 -	-	25 1	74 2	-	-	-	
Va. W. Va.	22 7	31 13	-	4	4	-	6 1	19 4	-	-	1 -	
N.C. S.C.	34 37	55 38	-	7 4	7 9	-	42 13	46 9	-	3	10 6	
Ga.	55	60	1	1	5	1	4	6	- 1	-	-	
Fla. E.S. CENTRAL	70 103	78 134	1	16 1	10 19	3	28 48	35 44	-	3 -	1	
Ky. Tenn.	16 40	35 43	1	1	3	-	18 17	11 15	-	-	-	
Ala.	47	39	-	-	6	-	13	12	-	-	1	
Miss. W.S. CENTRAL	U 155	17 187	U	U 31	7 40	U 1	U 124	6 70	U	U 62	3	
Ark.	22 35	25 33	-	2	11	-	16 1	4 11	-	-	-	
La. Okla.	26	23	-	-	-	-	13	8	-	-	-	
Tex. MOUNTAIN	72 83	106 114	-	29 21	29 44	1 16	94 435	47 660	-	62 5	3 4	
Mont.	2 4	7	-	3	-	-	1	7	-	-	-	
Idaho Wyo.	3	1	-	1	2	1 -	177 7	429 4	-	-	-	
Colo. N. Mex.	19 15	31 19	- N	4 N	3 N	5 2	85 64	159 32	-	1	-	
Ariz. Utah	28 9	26 11	-	4 3	27 6	7 1	68 22	15 4	-	1 2	3	
Nev.	3	12	U	6	5	U	11	10	U	1	-	
PACIFIC Wash.	291 38	419 51	1 -	65 5	99 12	9 5	306 136	396 177	-	13 9	17 3	
Oreg. Calif.	55 193	85 280	N 1	N 45	N 71	4	17 147	23 185	-	2	7	
Alaska	1 4	1 2	-	2 13	5	-	2	2	-	2	, - 7	
Hawaii Guam	-	1	- U	-	11 1	- U	-	-	- U	-	-	
P.R. V.I.	4 U	9 U	Ū	1 U	4 U	- U	2 U	- U	- U	- U	- U	
Amer. Samoa	Ũ	Ü	Ü	U	Ü 4	Ü	Ü	U	Ū	U	Ü	
C.N.M.I.	-	-	U	-	4	U	-	-	U	-	-	

N: Not notifiable

U: Unavailable

TABLE IV. Deaths in 122 U.S. cities,* week ending June 20, 1998 (24th Week)

All Causes, By Age (Years)															
Reporting Area	All Ages	>65	45-64	25-44			P&I [†] Total	Reporting Area	All Ages	>65	45-64		ears) 1-24	<1	P&l [†] Total
NEW ENGLAND Boston, Mass. Bridgeport, Conn. Cambridge, Mass. Fall River, Mass. Hartford, Conn. Lowell, Mass. Lynn, Mass. New Bedford, Mass New Haven, Conn. Providence, R.I. Somerville, Mass. Springfield, Mass.	508 119 41 18 29 41 27 13	359 77 33 14 23 26 16 11 12 27 39 0	92 27 5 2 4 8 7 - 3 4 6	33 5 3 2 2 5 4 2 1 2	11 5 - - 1 - - - 2	13 5 - 1 - 1 2 - 4	35 13 1 2 - 1 2 3 2	S. ATLANTIC Atlanta, Ga. Baltimore, Md. Charlotte, N.C. Jacksonville, Fla. Miami, Fla. Norfolk, Va. Richmond, Va. Savannah, Ga. St. Petersburg, Fla. Tampa, Fla. Washington, D.C. Wilmington, Del.	1,630 560 211 93 130 110 52 56 48	1,023 340 119 66 84 82 33 36 29 42 110 80 2	375 134 51 18 32 19 8 16 13 6 43 27 8	152 64 28 5 8 5 5 2 3 4 11 17	46 13 10 1 3 4 3 - 2 1 3 6	33 9 2 3 3 - 3 2 1 - 5 5	87 15 25 13 7 3 1
Waterbury, Conn. Worcester, Mass. MID. ATLANTIC Albany, N.Y. Allentown, Pa. Buffalo, N.Y. Camden, N.J. Elizabeth, N.J. Erie, Pa. Jersey City, N.J. New York City, N.Y. Newark, N.J. Paterson, N.J. Philadelphia, Pa. Flitsburgh, Pa. Reading, Pa. Rochester, N.Y. Schenectady, N.Y. Scranton, Pa. Syracuse, N.Y. Trenton, N.J. Utica, N.Y. Yonkers, N.Y.	25 60 2,043 53 18 88 28 19 35 34 1,064 60 21 200 92 23 113 33 31 92 19 20 U	20 42 1,428 38 15 69 16 30 30 19 741 13 129 64 19 86 26 70 14 U	13 396 10 2 13 7 5 7 209 17 5 42 19 4 17 5 5 17	1 4 155 1 1 5 4 - 7 7 7 8 11 2 22 6 - 8 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 32 1 5 - 1 15 4 1 1 - - - - - - - - - - - - - - - - -	31 3 	3 6 82 2 2 3 1 1 3 1 4 4 2 1 4 1 1 U	E.S. CENTRAL Birmingham, Ala. Chattanooga, Tenn. Knoxville, Tenn. Lexington, Ky. Memphis, Tenn. Mobile, Ala. Montgomery, Ala. Nashville, Tenn. W.S. CENTRAL Austin, Tex. Baton Rouge, La. Corpus Christi, Tex. Dallas, Tex. El Paso, Tex. Ft. Worth, Tex. Houston, Tex. Little Rock, Ark. New Orleans, La. San Antonio, Tex. Shreveport, La. Tulsa, Okla.	64 64 178 87 39 123 1,309 75 36	540 115 48 500 46 115 600 22 84 842 52 10 36 114 42 68 214 33 57 140 U 76	162 35 13 11 13 32 22 9 27 262 15 14 5 26 13 14 83 15 25 21 U	55 14 1 3 2 16 3 8 8 12 8 6 7 1 18 5 10 48 7 15 7 10 4 7	15 4 3 - 7 - 1 43 1 10 1 10 2 4 6 U 3	22 5 1 - 3 8 2 - 3 34 1 2 3 6 2 1 6 3 6 2 U 2	48 15 7 4 11 2 4 69 6 6 7 4 23 10 10 15 10 10 10 10 10 10 10 10 10 10 10 10 10
E.N. CENTRAL Akron, Ohio Canton, Ohio Canton, Ohio Chicago, III. Cincinnati, Ohio Cleveland, Ohio Dayton, Ohio Dayton, Ohio Detroit, Mich. Evansville, Ind. Fort Wayne, Ind. Gary, Ind. Grand Rapids, Mich Indianapolis, Ind. Lansing, Mich. Milwaukee, Wis. Peoria, III. South Bend, Ind. Toledo, Ohio Youngstown, Ohio W.N. CENTRAL Des Moines, Iowa Duluth, Minn. Kansas City, Kans. Kansas City, Kans.	1,950 38 34 393 89 109 192 120 197 37 44	1,313 26 31 234 65 70 121 83 119 30 38 48 126 37 59 51 59 51 54 24 21 71	393 12 2 915 15 25 48 23 53 4 4 4 7 36 8 21 53 13 6 8 8	151 - 436 9 144 111 13 2 1 - 44 10 2 8 4 4 6 5 5 4 9 49 U - 2 10	47 1 12 1 2 7 2 8 - 1 1 3 1 2 - 1 1 5 - 1 1 5 - 1 1 1 1 1 1 1 1 1 1 1	43	102 287 16572217 5824222 46U2 4	MOUNTAIN Albuquerque, N.M. Boise, Idaho Colo. Springs, Colo Denver, Colo. Las Vegas, Nev. Ogden, Utah Phoenix, Ariz. Pueblo, Colo. Salt Lake City, Utah Tucson, Ariz. PACIFIC Berkeley, Calif. Fresno, Calif. Glendale, Calif. Honolulu, Hawaii Long Beach, Calif. Los Angeles, Calif. Pasadena, Calif. Portland, Oreg. Sacramento, Calif. San Diego, Calif. San Jose, Calif. San Jose, Calif. Santa Cruz, Calif. Santa Cruz, Calif.	111 189 24 225 30 112 143 1,842 16 108 40 67 73 503 23 100 162 145	688 72 266 32 75 123 199 136 23 75 107 1,334 49 51 368 168 119 98 92 119 20 85	188 24 5 13 12 39 2 46 5 20 22 332 4 16 6 12 18 86 5 11 34 31 30 25 7 29	101 14 1 7 12 19 2 26 2 10 8 105 7 - 2 3 3 3 0 1 4 8 8 11 8 8 6 1 8 1 8 1 8 1 8 1 8 1 8 1	30 1 - 4 8 8 1 1 8 - 3 5 5 3 3 - 2 2 4 4 1 1 2 2 4 4 5 5 5 7 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8	30 2 4 3 8 - 4 1 1 38 - 2 1 1 1 3 3 4 4 4 1 3 3 4 4 4 4 4 4 4 4 4	60 4 1 5 5 13 4 12 2 6 8 127 - 3 3 11 24 1 9 19 13 18 9 3 11 18 18 18 19 19 19 19 19 19 19 19 19 19 19 19 19
Lincoln, Nebr. Lincoln, Nebr. Minneapolis, Minn. Omaha, Nebr. St. Louis, Mo. St. Paul, Minn. Wichita, Kans.	43	35 138 71 65 62 50	6 26 12 23 9	10 15 4 9 5 3	1 3 2 5 6	6 6 9 2 1	3 11 6 12 7	Spokane, Wash. Tacoma, Wash.	59 87 11,868 ¹	48 64	5 13	929	1 280	2 4 272	7 6 656

U: Unavailable -: no reported cases

*Mortality data in this table are voluntarily reported from 122 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.

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

Total includes unknown ages.

Contributors to the Production of the MMWR (Weekly)

Weekly Notifiable Disease Morbidity Data and 122 Cities Mortality Data

Samuel L. Groseclose, D.V.M., M.P.H.

State Support Team

Robert Fagan Karl A. Brendel Harry Holden Gerald Jones Felicia Perry Carol A. Worsham

CDC Operations Team

Carol M. Knowles Deborah A. Adams Willie J. Anderson Patsy A. Hall

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Acting Director, Centers for Disease Control and Prevention Claire V. Broome, M.D.

Acting Deputy Director, Centers for Disease Control and Prevention Stephen B. Thacker, M.D., M.Sc.

Acting Director,
Epidemiology Program Office
Barbara R. Holloway, M.P.H.
Acting Editor, MMWR Series
Andrew G. Dean, M.D., M.P.H.
Managing Editor, MMWR (weekly)
Karen L. Foster, M.A.

Writers-Editors, MMWR (weekly)
David C. Johnson
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