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MORBIDITY AND MORTALITY WEEKLY REPORT

## 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

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## U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES

Primary and Secondary Syphilis - Continued
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 nonHispanic 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.

Primary and Secondary Syphilis - Continued
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 | $\mathbf{9 . 6}$ | Nebraska | 0.4 | 0.2 | $\mathbf{0 . 3}$ |
| Alaska | 0.3 | 0 | $\mathbf{0 . 2}$ | Nevada | 0.5 | 0.8 | $\mathbf{0 . 6}$ |
| Arizona | 4.3 | 1.7 | $\mathbf{3 . 0}$ | New Hampshire | 0 | 0 | $\mathbf{0}$ |
| Arkansas | 5.8 | 7.9 | $\mathbf{6 . 9}$ | New Jersey | 2.4 | 1.4 | $\mathbf{1 . 9}$ |
| California | 1.7 | 0.7 | $\mathbf{1 . 2}$ | New Mexico | 0.5 | 0.6 | $\mathbf{0 . 5}$ |
| Colorado | 0.5 | 0.3 | $\mathbf{0 . 4}$ | New York | 0.9 | 0.6 | $\mathbf{0 . 8}$ |
| Connecticut | 2.3 | 1.5 | $\mathbf{1 . 9}$ | North Carolina | 10.3 | 9.4 | $\mathbf{9 . 8}$ |
| Delaware | 3.4 | 2.7 | $\mathbf{3 . 0}$ | North Dakota | 0 | 0 | $\mathbf{0}$ |
| Florida | 2.4 | 1.8 | $\mathbf{2 . 1}$ | Ohio | 2.2 | 1.8 | $\mathbf{2 . 0}$ |
| Georgia | 9.0 | 5.1 | $\mathbf{7 . 0}$ | Oklahoma | 4.0 | 3.1 | $\mathbf{3 . 5}$ |
| Hawaii | 0.2 | 0 | $\mathbf{0 . 1}$ | Oregon | 0.5 | 0.1 | $\mathbf{0 . 3}$ |
| Idaho | 0.2 | 0 | $\mathbf{0 . 1}$ | Pennsylvania | 1.2 | 0.8 | $\mathbf{1 . 0}$ |
| Ilinois | 4.2 | 3.2 | $\mathbf{3 . 7}$ | Rhode Island | 0.2 | 0.2 | $\mathbf{0 . 2}$ |
| Indiana | 2.4 | 2.7 | $\mathbf{2 . 6}$ | South Carolina | 11.5 | 9.0 | $\mathbf{1 0 . 2}$ |
| lowa | 0.2 | 0.3 | $\mathbf{0 . 2}$ | South Dakota | 0.3 | 0 | $\mathbf{0 . 1}$ |
| Kansas | 1.4 | 0.8 | $\mathbf{1 . 1}$ | Tennessee | 14.7 | 13.5 | $\mathbf{1 4 . 0}$ |
| Kentucky | 3.7 | 3.3 | $\mathbf{3 . 5}$ | Texas | 3.8 | 3.3 | $\mathbf{3 . 5}$ |
| Louisiana | 8.4 | 8.3 | $\mathbf{8 . 4}$ | Utah | 0.3 | 0.2 | $\mathbf{0 . 2}$ |
| Maine | 0.2 | 0.2 | $\mathbf{0 . 2}$ | Vermont | 0 | 0 | $\mathbf{0}$ |
| Maryland | 19.8 | 15.4 | $\mathbf{1 7 . 6}$ | Virginia | 3.8 | 3.3 | $\mathbf{3 . 5}$ |
| Massachusetts | 1.5 | 1.0 | $\mathbf{1 . 3}$ | Washington | 0.3 | 0.3 | $\mathbf{0 . 3}$ |
| Michigan | 1.8 | 1.4 | $\mathbf{1 . 6}$ | West Virginia | 0.1 | 0 | $\mathbf{0 . 1}$ |
| Minnesota | 0.5 | 0.2 | $\mathbf{0 . 3}$ | Wisconsin | 1.6 | 1.9 | $\mathbf{1 . 7}$ |
| Mississippi | 14.5 | 14.2 | $\mathbf{1 4 . 4}$ | Wyoming | 0 | 0 | $\mathbf{0}$ |
| Missouri | 2.1 | 2.2 | $\mathbf{2 . 1}$ | Total | $\mathbf{3 . 6}$ | $\mathbf{2 . 9}$ | $\mathbf{3 . 2}$ |
| Montana | 0 | 0 | $\mathbf{0}$ |  |  |  |  |

* 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 ).

## Primary and Secondary Syphilis - Continued

FIGURE 2. Counties with primary and secondary syphilis rates above or at the national health objective for $\mathbf{2 0 0 0}$ 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

## Primary and Secondary Syphilis - Continued

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 1519 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 $1992-1995^{\dagger}$ for adolescents aged $\leq 19$ 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

[^1]
## Pregnancy Rates - Continued

adolescents aged $\leq 19$ 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. ${ }^{\S}$ 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 1314 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 ${ }^{\text {II }}$; 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 agespecific 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

[^2]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 $\leq 19$ years, by age group and state ${ }^{\dagger}$, and percentage change ${ }^{\S}$ in rates for 15-19-year-olds - United States, 1992-1995

| State | 1992 |  |  |  | 1993 |  |  |  | 1994 |  |  |  | 1995 |  |  |  | \% Change <br> in rate for <br> 15-19-year-olds <br> from 1992 <br> to $1995^{\S}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $<15$ | 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 |  |
| 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 | $\uparrow$ | $\uparrow$ | 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 | 102.1 | 6.4 | 68.4 | 152.9 | 103.7 | 7.3 | 58.5 | 139.4 | 92.3 | -9.4 |
| Idaho | 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 |
| Indiana | 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 |
| Louisiana | 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 |
| Nevada | 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 |
| Oregon | 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 |



TABLE 2. Pregnancy rates* for adolescents aged 15-19 years, by race ${ }^{\dagger}$ and state ${ }^{\S}$ and percentage change in rate - United States, 1992-1995

| State | 1992 |  | 1993 |  | 1994 |  | 1995 |  | \% Change in rate from 1992 to 1995 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 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 | ¢ | I | $\square$ | \\| | ! | ! | \\| | ! | - | - |
| 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 | - |
| Idaho | 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 | $157.7^{\dagger \dagger}$ | 73.7 | $157.4^{\dagger \dagger}$ | 73.7 | $152.0^{\dagger \dagger}$ | 71.6 | $136.1^{\dagger \dagger}$ | -6.9 | $-13.7{ }^{\dagger \dagger}$ |
| 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 | ¢ | ¢ | ¢ | $\dagger$ | 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 |


| 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 | ¢ | ¢ | 9 | \\| | ¢ | \\| | 9 | \\| | - | - |
| 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.
$\dagger$ 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.
I 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.
${ }^{\dagger \dagger}$ 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) ${ }^{\dagger}$ were conducted in 18 contiguous countries of the WHO Eastern Mediterranean (eight countries: Afghanistan, Iran, Iraq, Jordan, Lebanon, Pakistan, Palestine,

[^3]
## Poliomyelitis - Continued

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, ${ }^{\S}$ 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 ${ }^{\mathbb{I}}$ from persons with reported AFP cases increased to approximately $70 \%$ in 1997 and in 1998 (Table 1). During 19971998, 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.

[^4]Poliomyelitis - Continued
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 $1998^{\dagger}$

| Country | 1997 |  |  | 1998 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | No. nonpolio AFP cases | Nonpolio AFP rate | $\%$ of persons with AFP with two stool specimens ${ }^{\text {§ }}$ | No. nonpolio AFP cases | Nonpolio AFP rate | $\%$ of persons with AFP with two stool specimens ${ }^{\S}$ |
| 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 |  | 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 ${ }^{\text {® }}$ | - | - | - | 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 |  |
| Malta ${ }^{\text {tt }}$ | 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 | 0 | 0 | 0 |  |
| 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\% | 2 | 0.40 | 0 |
| Slovenia | 0 | 0 |  | 0 | 0 |  |
| Spain ${ }^{\text {§§ }}$ | 5 | 0.46 | 100\% | 23 | 0.83 | 52\% |
| Switzerland | 15 | 1.18 | 7\% | 1 | 0.19 | 0 |
| Tajikistan | 6 | 0.25 | 71\% | 2 | 0.20 | 100\% |
| Former Yugoslav Republic of 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 | 14 | 0.15 | 86\% | 22 | 0.58 | 91\% |
| Federal Republic of Yugoslavia | 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.
${ }^{\dagger}$ Data reported to EUR through May 30, 1998.
${ }^{\S}$ 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.
$\pi$ AFP surveillance began in early 1998.
**AFP surveillance began in January 1998.
${ }^{\dagger \dagger}$ AFP surveillance began in July 1997.
${ }^{\S \S}$ AFP surveillance began in autumn 1997.

## Poliomyelitis - Continued

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

[^5]
## Poliomyelitis - Continued

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 154 -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 | - | Plague | 2 |
| Brucellosis | 31 | Poliomyelitis, paralytic ${ }^{\text {® }}$ | - |
| Cholera | 3 | Psittacosis | 20 |
| Congenital rubella syndrome | 2 | Rabies, human | - |
| Cryptosporidiosis* | 814 | Rocky Mountain spotted fever (RMSF) | 68 |
| Diphtheria | 1 | Streptococcal disease, invasive Group A | 1,066 |
| Encephalitis: California* | 2 | Streptococcal toxic-shock syndrome* | 33 |
| eastern equine* | - | Syphilis, congenital** | 128 |
| St. Louis* | - | Tetanus | 11 |
| western equine* | - | Toxic-shock syndrome | 63 |
| Hansen Disease | 54 | Trichinosis | 6 |
| Hantavirus pulmonary syndrome* ${ }^{\dagger}$ | 4 | Typhoid fever | 130 |
| Hemolytic uremic syndrome, post-diarrheal* HIV infection, pediatric*s | 14 106 | Yellow fever | - |

-: no reported cases
t 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 Updated monthly to the Division of HIV/AIDS Preven
TB Prevention (NCHSTP), last update May 24, 1998.
I 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)

| Reporting Area | AIDS |  | Chlamydia |  | Escherichia coli 0157:H7 |  | Gonorrhea |  | Hepatitis C/NA,NB |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | NETSS ${ }^{\dagger}$ | PHLIS ${ }^{\text { }}$ |  |  |  |  |
|  | $\begin{aligned} & \hline \text { Cum. } \\ & \text { 1998* } \end{aligned}$ | $\begin{gathered} \hline \text { Cum. } \\ 1997 \end{gathered}$ |  |  | $\begin{aligned} & \hline \text { Cum. } \\ & 1998 \end{aligned}$ | $\begin{gathered} \hline \text { Cum. } \\ 1997 \end{gathered}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1998 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1998 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1998 \end{aligned}$ | $\begin{gathered} \hline \text { Cum. } \\ 1997 \end{gathered}$ | $\begin{gathered} \hline \text { Cum. } \\ 1998 \end{gathered}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1997 \end{aligned}$ |
| UNITED STATES | 20,034 | 25,974 | 236,084 | 225,050 | 606 | 305 | 138,335 | 128,357 | 1,827 | 1,589 |
| NEW ENGLAND | 640 | 897 | 8,701 | 7,943 | 84 | 60 | 2,297 | 2,678 | 19 | 30 |
| Maine | 13 | 25 | 419 | 427 | 5 | - | 25 | 25 |  |  |
| N.H. | 21 | 14 | 424 | 355 | 12 | 16 | 42 | 56 |  |  |
| Vt. | 10 | 18 | 179 | 186 | 1 | 3 | 13 | 24 |  | 1 |
| Mass. | 275 | 416 | 3,874 | 3,279 | 47 | 30 | 920 | 1,012 | 18 | 26 |
| R.I. | 58 | 70 | 1,153 | 948 | 3 | 1 | 172 | 216 | 1 | 3 |
| Conn. | 263 | 354 | 2,652 | 2,748 | 16 | 10 | 1,125 | 1,345 | - | - |
| MID. ATLANTIC | 5,695 | 8,265 | 28,966 | 26,631 | 61 | 10 | 16,020 | 16,156 | 186 | 158 |
| Upstate N.Y. | 710 | 1,336 | N | N | 39 | - | 2,781 | 2,797 | 140 | 123 |
| N.Y. City | 3,153 | 4,136 | 15,749 | 13,890 | 3 | 5 | 6,757 | 6,149 |  | - |
| N.J. | 993 | 1,783 | 4,626 | 4,706 | 19 | 4 | 2,631 | 3,336 |  |  |
| Pa. | 839 | 1,010 | 8,591 | 8,035 | N | 1 | 3,851 | 3,874 | 46 | 35 |
| E.N. CENTRAL | 1,518 | 1,809 | 40,052 | 33,354 | 106 | 60 | 26,758 | 19,779 | 239 | 305 |
| Ohio | 281 | 394 | 11,395 | 10,171 | 26 | 11 | 6,752 | 6,255 | 6 | 7 |
| Ind. | 293 | 328 | 3,288 | 3,991 | 25 | 20 | 2,083 | 2,717 | 3 | 9 |
| III. | 610 | 602 | 11,444 | 6,018 | 29 | - | 8,995 | 2,940 | 11 | 50 |
| Mich. | 252 | 394 | 9,898 | 8,235 | 26 | 13 | 7,324 | 5,816 | 219 | 221 |
| Wis. | 82 | 91 | 4,027 | 4,939 | N | 16 | 1,604 | 2,051 | - | 18 |
| W.N. CENTRAL | 351 | 520 | 13,981 | 14,494 | 75 | 36 | 6,805 | 6,372 | 108 | 32 |
| Minn. | 56 | 83 | 2,016 | 3,019 | 30 | 20 | 708 | 1,050 | 5 | 2 |
| lowa | 20 | 66 | 2,010 | 2,149 | 17 | - | 638 | 580 | 11 | 15 |
| Mo. | 176 | 254 | 5,375 | 5,353 | 10 | 12 | 3,928 | 3,418 | 88 | 4 |
| N. Dak. | 4 | 4 | 290 | 392 | 1 | 1 | 29 | 24 | - | 2 |
| S. Dak. | 9 | 2 | 765 | 563 | 1 | 1 | 125 | 57 | - | - |
| Nebr. | 36 | 48 | 1,020 | 902 | 7 | - | 346 | 324 | 2 | 2 |
| Kans. | 50 | 63 | 2,505 | 2,116 | 9 | 2 | 1,031 | 919 | 2 | 7 |
| S. ATLANTIC | 5,037 | 6,477 | 49,873 | 40,021 | 41 | 16 | 39,972 | 38,291 | 94 | 104 |
| Del. | 57 | 111 | 1,172 | 612 | - | 1 | 637 | 524 | - | - |
| Md. | 571 | 742 | 3,794 | 3,366 | 11 | 4 | 4,194 | 5,397 | 5 | 3 |
| D.C. | 413 | 469 | N | N | 1 | - | 1,629 | 1,886 | - | - |
| Va. | 368 | 552 | 4,623 | 5,205 | N | 7 | 2,759 | 3,607 | 5 | 10 |
| W. Va. | 47 | 38 | 1,298 | 1,400 | N | 1 | 270 | , 440 | 4 | 8 |
| N.C. | 335 | 363 | 10,324 | 7,722 | 11 | 3 | 8,622 | 7,512 | 12 | 28 |
| S.C. | 318 | 295 | 8,650 | 5,657 | 1 | - | 5,586 | 5,115 | 1 | 24 |
| Ga. | 608 | 856 | 11,394 | 4,426 | 4 | - | 9,341 | 5,728 | 9 | - |
| Fla. | 2,320 | 3,051 | 8,618 | 11,633 | 12 | - | 6,834 | 8,082 | 58 | 31 |
| E.S. CENTRAL | 788 | 807 | 16,992 | 15,572 | 39 | 11 | 16,040 | 15,348 | 70 | 172 |
| Ky. | 101 | 112 | 2,834 | 3,016 | 10 | - | 1,610 | 1,912 | 11 | 7 |
| Tenn. | 272 | 354 | 5,934 | 5,823 | 20 | 10 | 5,024 | 4,792 | 56 | 105 |
| Ala. | 233 | 196 | 4,564 | 3,716 | 9 | - | 5,718 | 5,210 | 3 | 6 |
| Miss. | 182 | 145 | 3,660 | 3,017 | U | 1 | 3,688 | 3,434 | U | 54 |
| W.S. CENTRAL | 2,473 | 2,590 | 35,058 | 22,058 | 42 | 5 | 19,926 | 15,094 | 507 | 186 |
| Ark. | 81 | 96 | 1,442 | 1,297 | 1 | 1 | 1,128 | 2,113 | 3 | 5 |
| La. | 415 | 493 | 5,872 | 3,671 | , | 1 | 4,800 | 3,444 | 9 | 96 |
| Okla. | 134 | 138 | 4,646 | 3,349 | 6 | 3 | 2,530 | 2,115 | 2 | 4 |
| Tex. | 1,843 | 1,863 | 23,098 | 13,741 | 35 | - | 11,468 | 7,422 | 493 | 81 |
| MOUNTAIN | 725 | 751 | 8,007 | 13,358 | 59 | 41 | 2,953 | 3,500 | 226 | 145 |
| Mont. | 13 | 18 | 556 | 470 | 4 | - | 23 | 20 | 4 | 10 |
| Idaho | 14 | 22 | 874 | 658 | 6 | 1 | 78 | 47 | 86 | 23 |
| Wyo. | 2 | 13 | 301 | 255 | 1 | - | 15 | 25 | 37 | 36 |
| Colo. | 127 | 194 | - | 2,770 | 19 | 11 | 1,054 | 823 | 13 | 19 |
| N. Mex. | 111 | 66 | 1,772 | 1,865 | 9 | 6 | 329 | 418 | 51 | 30 |
| Ariz. | 286 | 188 | 3,534 | 5,180 | N | 9 | 1,296 | 1,654 | 3 | 17 |
| Utah | 57 | 60 | 717 | 785 | 13 | 8 | 66 | 110 | 19 | 3 |
| Nev. | 115 | 190 | 253 | 1,375 | 7 | 6 | 92 | 403 | 13 | 7 |
| PACIFIC | 2,807 | 3,858 | 34,454 | 51,619 | 99 | 66 | 7,564 | 11,139 | 378 | 457 |
| Wash. | 203 | 287 | 4,967 | 4,197 | 23 | 22 | 858 | 896 | 10 | 14 |
| Oreg. | 88 | 144 | 2,584 | 2,154 | 27 | 23 | 349 | 320 | 2 | 2 |
| Calif. | 2,463 | 3,377 | 25,060 | 43,858 | 47 | 18 | 6,010 | 9,510 | 311 | 359 |
| Alaska | 12 | 22 | 875 | 635 | 2 | - | 152 | 185 | 1 | - |
| Hawaii | 41 | 28 | 968 | 775 | N | 3 | 195 | 228 | 54 | 82 |
| Guam | - | 2 | 8 | 193 | N | - | 2 | 27 | - | - |
| P.R. | 834 | 760 | U | U | N | U | 187 | 298 | - | 61 |
| V.I. | 17 | 35 | N | N | N | U | U | U | U | U |
| Amer. Samoa | , | - | U | U | N | U | U | U | U | U |
| C.N.M.I. | - | 1 | N | N | N | U | 7 | 16 | - | 2 |

N : Not notifiable U: Unavailable $\quad-:$ no reported cases $\quad$ C.N.M.I.: Commonwealth of Northern Mariana Islands

[^6] last update May 24, 1998.
${ }^{\dagger}$ National Electronic Telecommunications System for Surveillance.
${ }^{\text {s }}$ 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)

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

*Additional information about areas displaying " $U$ " for cumulative 1998 Tuberculosis cases can be found in Notice to Readers, $M M W R$ 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)

| Reporting Area | H. influenzae, invasive |  | Hepatitis (Viral), by type |  |  |  | Measles (Rubeola) |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | A |  | B |  | Indigenous |  | Imported ${ }^{\dagger}$ |  | Total |  |
|  | $\begin{aligned} & \hline \text { Cum. } \\ & \text { 1998* } \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1997 \\ & \hline \end{aligned}$ | $\begin{gathered} \hline \text { Cum. } \\ 1998 \\ \hline \end{gathered}$ | $\begin{gathered} \hline \text { Cum. } \\ 1997 \\ \hline \end{gathered}$ | $\begin{gathered} \hline \text { Cum. } \\ 1998 \\ \hline \end{gathered}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1997 \\ & \hline \end{aligned}$ | 1998 | $\begin{gathered} \hline \text { Cum. } \\ 1998 \\ \hline \end{gathered}$ | 1998 | $\begin{aligned} & \hline \text { Cum. } \\ & 1998 \\ & \hline \end{aligned}$ | $\begin{gathered} \hline \text { Cum. } \\ 1998 \\ \hline \end{gathered}$ | $\begin{gathered} \hline \text { Cum. } \\ 1997 \end{gathered}$ |
| UNITED STATES | 526 | 562 | 10,113 | 12,822 | 3,538 | 4,250 | - | 23 | 1 | 13 | 36 | 72 |
| NEW ENGLAND | 30 | 32 | 128 | 300 | 50 | 78 | - | - | - | 1 | 1 | 10 |
| Maine | 2 | 3 | 13 | 41 | - | 5 | - | - | - | - | - | - |
| N.H. | 5 | 4 | 7 | 17 | 9 | 5 | - | - | - | - | - | 1 |
| Vt. | 2 | 2 | 10 | 7 | 1 | 3 | - | - | - | - | - | - |
| Mass. | 19 | 20 | 38 | 148 | 15 | 35 | - | - | - | 1 | 1 | 8 |
| R.I. | 2 | 2 | 9 | 26 | 25 | 8 | - | - | - | - | - | - |
| Conn. | - | 1 | 51 | 61 | - | 22 | - | - | - | - | - | 1 |
| MID. ATLANTIC | 74 | 69 | 636 | 1,123 | 511 | 645 | - | 9 | - | 2 | 11 | 16 |
| Upstate N.Y. | 29 | 6 | 152 | 137 | 143 | 116 | - | 2 | - | - | 2 | 4 |
| N.Y. City | 13 | 22 | 174 | 495 | 132 | 262 | - | - | - | - | - | 5 |
| N.J. | 28 | 25 | 140 | 166 | 90 | 125 | - | 7 | - | 1 | 8 | 2 |
| Pa. | 4 | 16 | 170 | 325 | 146 | 142 | U | - | U | 1 | 1 | 5 |
| E.N. CENTRAL | 82 | 85 | 1,249 | 1,382 | 351 | 722 | - | 9 | 1 | 3 | 12 | 7 |
| Ohio | 34 | 42 | 159 | 192 | 33 | 41 | - | - | 1 | 1 | 1 | - |
| Ind. | 24 | 8 | 73 | 141 | 26 | 52 | U | 2 | U | 1 | 3 | - |
| III. | 23 | 24 | 218 | 340 | 66 | 140 |  | - | U | - | - | 5 |
| Mich. |  | 11 | 713 | 606 | 210 | 225 | - | 7 | - | 1 | 8 | 2 |
| Wis. | 1 | - | 86 | 103 | 16 | 264 | - | - | - | - | - | - |
| W.N. CENTRAL | 39 | 27 | 828 | 926 | 155 | 249 | - | - | - | - | - | 11 |
| Minn. | 25 | 18 | 60 | 86 | 16 | 18 | - | - | - | - | - | 2 |
| lowa | 1 | 3 | 365 | 133 | 26 | 19 | - | - | - | - | - | - |
| Mo. | 8 | 3 | 325 | 500 | 86 | 187 | - | - | - | - | - | 1 |
| N. Dak. | - | - | 3 | 9 | 4 | 1 | - | - | - | - | - | - |
| S. Dak. | - | 2 | 8 | 13 | 1 | - | - | - | - | - | - | 8 |
| Nebr. | - | 1 | 15 | 38 | 7 | 8 | - | - | - | - | - | - |
| Kans. | 5 | - | 52 | 147 | 15 | 16 | - | - | - | - | - | - |
| S. ATLANTIC | 111 | 97 | 886 | 656 | 505 | 498 | - | 2 | - | 5 | 7 | 3 |
| Del. | - | - | 2 | 13 | - | 3 | - | - | - | 1 | 1 | - |
| Md. | 34 | 40 | 162 | 110 | 79 | 75 | - | - | - | 1 | 1 | 1 |
| D.C. |  | - | 28 | 14 | 6 | 21 | - | - | - |  | - | 1 |
| Va . | 12 | 6 | 124 | 87 | 51 | 57 | - | - | - | 2 | 2 | - |
| W. Va. | 4 | 3 | 1 | 6 | 3 | 8 | - | - | - | , | - | - |
| N.C. | 13 | 16 | 48 | 103 | 82 | 108 | - | - | - | - | - | 1 |
| S.C. | 4 | 3 | 16 | 64 | 3 | 57 | - | - | - | , | , | - |
| Ga . | 23 | 20 | 236 | 120 | 82 | 47 | - | - | - | 1 | 1 | - |
| Fla. | 21 | 9 | 269 | 139 | 199 | 122 | - | 2 | - | - | 2 | - |
| E.S. CENTRAL | 31 | 36 | 171 | 320 | 187 | 315 | - | - | - | - | - | 1 |
| Ky. | 4 | 4 | 10 | 38 | 22 | 19 | - | - | - | - | - | - |
| Tenn. | 20 | 22 | 117 | 194 | 134 | 205 | - | - | - | - | - | - |
| Ala. | 7 | 8 | 44 | 49 | 31 | 32 | - | - | - | - | - | 1 |
| Miss. | U | 2 | U | 39 | U | 59 | U | U | U | U | U | - |
| W.S. CENTRAL | 29 | 26 | 1,986 | 2,554 | 598 | 496 | - | - | - | - | - | 4 |
| Ark. | - | 1 | 1,90 | 119 | 34 | 34 | - | - | - | - | - | - |
| La. | 13 | 6 | 40 | 106 | 45 | 57 | - | - | - | - | - | - |
| Okla. | 14 | 17 | 269 | 789 | 31 | 17 | - | - | - | - | - | - |
| Tex. | 2 | 2 | 1,637 | 1,540 | 488 | 388 | - | - | - | - | - | 4 |
| MOUNTAIN | 65 | 64 | 1,606 | 1,901 | 396 | 409 | - | - | - | - | - | 7 |
| Mont. | - | - | 51 | 49 | 3 | 5 | - | - | - | - | - | - |
| Idaho | - | 1 | 126 | 76 | 17 | 14 | - | - | - | - | - | - |
| Wyo. | - | 1 | 23 | 19 | 2 | 14 | - | - | - | - | - | - |
| Colo. | 14 | 9 | 123 | 219 | 46 | 80 | - | - | - | - | - | - |
| N. Mex. | 5 | 6 | 82 | 147 | 161 | 139 | - | - | - | - | - | - |
| Ariz. | 36 | 23 | 1,025 | 871 | 107 | 84 | - | - | - | - | - | 5 |
| Utah | 4 | 3 | 108 | 331 | 37 | 48 | - | - | - | - | - |  |
| Nev. | 6 | 21 | 68 | 189 | 23 | 25 | U | - | U | - | - | 2 |
| PACIFIC | 65 | 126 | 2,623 | 3,660 | 785 | 838 | - | 3 | - | 2 | 5 | 13 |
| Wash. | 3 | 2 | 556 | 251 | 61 | 34 | - | - | - | 1 | 1 | - |
| Oreg. | 29 | 22 | 194 | 189 | 53 | 55 | - |  | - | - | - | - |
| Calif. | 27 | 97 | 1,839 | 3,125 | 660 | 732 | - | 3 | - | 1 | 4 | 10 |
| Alaska | 1 | 1 | 11 | 22 | 6 | 11 | - | - | - | - | - | - |
| Hawaii | 5 | 4 | 23 | 73 | 5 | 6 | - | - | - | - | - | 3 |
| Guam | - | - | - | - | , | 3 | U | - | U | - | - | - |
| P.R. | 2 | - | 23 | 172 | 245 | 660 |  | - | - | - | - | - |
| V.I. | U | U | U | U | U | U | U | U | U | U | U | U |
| Amer. Samoa | U | U | U | U | U | U | U | U | U | U | U | U |
| C.N.M.I. | - | 5 | - | 1 | 7 | 25 | U | - | U | - | - | 1 |
| N : Not notifiable | U: Un | ailable | -: no | orted cas |  |  |  |  |  |  |  |  |

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)

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

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

| Reporting Area | All Causes, By Age (Years) |  |  |  |  |  | $\mathbf{P} \& \mathbf{I}^{\dagger}$Total | Reporting Area | All Causes, By Age (Years) |  |  |  |  |  | $\begin{aligned} & \text { P\&I }{ }^{\dagger} \\ & \text { Total } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \text { All } \\ \text { Ages } \end{gathered}$ | >65 | 45-64 | 25-44 | 1-24 | <1 |  |  | $\begin{aligned} & \text { All } \\ & \text { Ages } \end{aligned}$ | >65 | 45-64 | 25-44 | 1-24 | <1 |  |
| NEW ENGLAND | 508 | 359 | 92 | 33 | 11 | 13 | 35 | S. ATLANTIC | 1,630 | 1,023 | 375 | 152 | 46 | 33 | 87 |
| Boston, Mass. | 119 | 77 | 27 | 5 | 5 | 5 | 13 | Atlanta, Ga. | 560 | 340 | 134 | 64 | 13 | 9 | 15 |
| Bridgeport, Conn. | 41 | 33 | 5 | 3 |  |  | 1 | Baltimore, Md. | 211 | 119 | 51 | 28 | 10 | 2 | 25 |
| Cambridge, Mass. | 18 | 14 | 2 | 2 |  | - | 2 | Charlotte, N.C. | 93 | 66 | 18 | 5 | 1 | 3 | 13 |
| Fall River, Mass. | 29 | 23 | 4 | 2 | - | - | - | Jacksonville, Fla. | 130 | 84 | 32 | 8 | 3 | 3 | 7 |
| Hartford, Conn. | 41 | 26 | 8 | 5 | 1 | 1 |  | Miami, Fla. | 110 | 82 | 19 | 5 | 4 | - |  |
| Lowell, Mass. | 27 | 16 | 7 | 4 |  |  | 1 | Norfolk, Va. | 52 | 33 | 8 | 5 | 3 | 3 | 3 |
| Lynn, Mass. | 13 | 11 |  | 2 |  |  |  | Richmond, Va. | 56 | 36 | 16 | 2 |  | 2 | 1 |
| New Bedford, Mass. | 16 | 12 | 3 | 1 |  |  | 2 | Savannah, Ga. | 48 | 29 | 13 | 3 | 2 | 1 |  |
| New Haven, Conn. | 34 | 27 | 4 | 2 |  | 1 | 3 | St. Petersburg, Fla. | 53 | 42 | 6 | 4 | 1 | - | 7 |
| Providence, R.I. | 49 | 39 | 6 | - | 2 | 2 | 2 | Tampa, Fla. | 172 | 110 | 43 | 11 | 3 | 5 | 14 |
| Somerville, Mass. | 0 | 0 | - | $\overline{-}$ | - | - |  | Washington, D.C. | 135 | 80 | 27 | 17 | 6 | 5 | 2 |
| Springfield, Mass. | 35 | 18 | 10 | 2 | 1 | 4 | 2 | Wilmington, Del. | 10 | 2 | 8 | - | - | - | - |
| Waterbury, Conn. | 25 | 20 | 3 | 1 | 1 | - | 3 |  |  |  |  |  |  |  |  |
| Worcester, Mass. | 60 | 42 | 13 | 4 | 1 | - | 6 | E.S. CENTRAL <br> Birmingham, Ala. | $\begin{aligned} & 795 \\ & 174 \end{aligned}$ | 540 115 | 162 35 | $\begin{aligned} & 55 \\ & 14 \end{aligned}$ | 15 4 | 22 5 | 48 |
| MID. ATLANTIC | 2,043 | 1,428 | 396 | 155 | 32 | 31 | 82 | Chattanooga, Tenn. | 66 | 48 | 13 | 1 | 3 | 1 | 5 |
| Albany, N.Y. | 53 | 38 | 10 | 1 | 1 | 3 | 2 | Knoxville, Tenn. | 64 | 50 | 11 | 3 | - | - | 7 |
| Allentown, Pa. | 18 | 15 | 2 | 1 | - | - | - | Lexington, Ky. | 64 | 46 | 13 | 2 | 7 | 3 | 4 |
| Buffalo, N.Y. | 88 | 69 | 13 | 1 | 5 | - | 2 | Memphis, Tenn. | 178 | 115 | 32 | 16 | 7 | 8 | 11 |
| Camden, N.J. | 28 | 16 | 7 | 5 | - | - | 3 | Mobile, Ala. | 87 | 60 | 22 | 3 | - | 2 | - |
| Elizabeth, N.J. | 19 | 10 | 5 | 4 | - | - | - | Montgomery, Ala. | 39 | 22 | 9 | 8 | - | - | 2 |
| Erie, Pa. | 35 | 30 | 5 | $\overline{7}$ | $\bar{\square}$ | - | - | Nashville, Tenn. | 123 | 84 | 27 | 8 | 1 | 3 | 4 |
| Jersey City, N.J. | 34 | 19 | 7 | 7 | 1 | ${ }^{-}$ | $\bigcirc$ |  |  |  |  |  |  |  |  |
| New York City, N.Y. | 1,064 | 741 | 209 | 78 | 15 | 21 | 39 | W.S. CENTRAL Austin, Tex. | 1,309 75 | 842 | 262 | 128 | 43 1 | 34 1 | 69 |
| Newark, N.J. | 60 | 27 | 17 | 11 | 4 | - | 1 | Austin, Tex. Baton Rouge, La. | 75 36 | 52 10 | 15 14 | 7 | 1 3 | 1 | 6 |
| Paterson, N.J. | 21 | 13 | 5 | 2 | 1 | $\bar{\square}$ |  | Baton Rouge, La. Corpus Christi, Tex. | 36 46 | 36 | 14 5 | 1 | 1 | 3 |  |
| Philadelphia, Pa. | 200 | 129 | 42 | 22 | 4 | 3 | 11 3 | Corpus Christi, Tex. Dallas, Tex. | 46 174 | 114 | ${ }^{5}$ | 18 | 10 | 6 | 6 7 |
| Pittsburgh, Pa.§ | 92 | 64 | 19 | 6 | 1 | 2 | 3 | Dallas, Tex. | 174 63 | 114 42 | 13 | 18 5 | 10 | 2 | 4 |
| Reading, Pa. | 23 | 19 | 4 | - | - | 2 | 1 | Ft. Worth, Tex. | 63 95 | 68 | 14 | 10 | 2 | 1 | 4 2 |
| Rochester, N.Y. | 113 | 86 | 17 | 8 |  | 2 | 4 | Ft. Worth, Tex. Houston, Tex. | 361 | 214 | 14 | 48 | 10 | 6 | 23 |
| Schenectady, N.Y. | 33 | 26 | 5 | 2 | - | - | 2 | Houston, Tex. Little Rock, Ark. | 361 60 | 214 33 | 83 | 48 | 10 | 6 3 | 23 |
| Scranton, Pa. Syracuse, $\mathrm{N.Y}$. | 31 92 | 26 | 5 17 | 5 | - | - | 14 | Little Rock, Ark. New Orleans, La. | $\begin{array}{r}60 \\ 107 \\ \hline\end{array}$ | 33 57 | 15 25 | 15 | 2 | 3 6 | - |
| Trenton, N.J. | 19 | 14 | 4 | 1 | - | - | 14 | San Antonio, Tex. | 186 | 140 | 31 | 7 | 6 | 2 | 16 |
| Utica, N.Y. | 20 | 16 | 3 | 1 |  | - |  | Shreveport, La. | U | U | U | U | U | U | U |
| Yonkers, N.Y. | U | U | U | U | U | U | U | Tulsa, Okla. | 106 | 76 | 21 | 4 | 3 | 2 | 5 |
| E.N. CENTRAL | 1,950 | 1,313 | 393 | 151 | 47 | 43 | 102 | MOUNTAIN | 1,038 | 688 | 188 | 101 | 30 | 30 | 60 |
| Akron, Ohio | 38 | 1, 26 | 12 | 1 | - | - | 2 | Albuquerque, N.M. | 113 | 72 | 24 | 14 | 1 | 2 | 4 |
| Canton, Ohio | 34 | 31 | 2 | - | 1 | - | 2 | Boise, Idaho | 36 | 26 | 5 | 1 | - | 4 | 1 |
| Chicago, III. | 393 | 234 | 91 | 43 | 12 | 11 | 28 | Colo. Springs, Colo. | 55 | 32 | 13 | 7 | - | 3 | 5 |
| Cincinnati, Ohio | 89 | 65 | 15 | 6 | 1 | 2 | 7 | Denver, Colo. | 111 | 75 | 12 | 12 | 4 | 8 | 5 |
| Cleveland, Ohio | 109 | 70 | 25 | 9 | 2 | 3 | - | Las Vegas, Nev. | 189 | 123 | 39 | 19 | 8 | - | 13 |
| Columbus, Ohio | 192 | 121 | 48 | 14 | 7 | 2 | 16 | Ogden, Utah | 24 | 19 | 2 | 2 | 8 | - | 4 |
| Dayton, Ohio | 120 | 83 | 23 | 11 | 2 | 1 | 5 | Phoenix, Ariz. | 225 | 136 | 46 | 26 | 8 | 8 | 12 |
| Detroit, Mich. | 197 | 119 | 53 | 13 | 8 | 3 | 7 | Pueblo, Colo. | 30 | 23 | 5 | 2 | - | - | 2 |
| Evansville, Ind. | 37 | 30 | 4 | 2 |  | 1 | 2 | Salt Lake City, Utah | 112 | 75 | 20 | 10 | 3 | 4 | 6 |
| Fort Wayne, Ind. | 44 | 38 | 4 | 1 | 1 | 1 | 2 | Tucson, Ariz. | 143 | 107 | 22 | 8 | 5 | 1 | 8 |
| Gary, Ind. | 12 | 8 | 4 | - | - |  | 1 | PACIFIC | 1,842 | 1,334 | 332 | 105 | 33 | 38 | 127 |
| Grand Rapids, Mich. | 62 | 48 | 7 | 4 |  | 2 | 7 | Berkeley, Calif. | 1,842 | 12 | $\begin{array}{r}4 \\ \hline\end{array}$ | 105 | - | - | - |
| Indianapolis, Ind. | 178 | 126 | 36 | 10 | 3 | 3 | - | Fresno, Calif. | 108 | 81 | 16 | 7 | 3 | 1 |  |
| Lansing, Mich. | 47 | 36 | 8 | 2 | 1 | 5 | 5 | Glendale, Calif. | 40 | 34 | 6 | - |  | - | 3 |
| Milwaukee, Wis. | 107 | 71 | 21 | 8 | 2 | 5 | 8 | Honolulu, Hawaii | 67 | 49 | 12 | 2 | 2 | 2 | 3 |
| Peoria, III. | 41 | 30 | 5 | 4 | - | 2 | 2 | Long Beach, Calif. | 73 | 51 | 18 | 3 | - | 1 | 11 |
| Rockford, III. | 48 | 28 | 13 | 6 | $\overline{-}$ | 1 | 4 | Los Angeles, Calif. | 503 | 368 | 86 | 30 | 9 | 10 | 24 |
| South Bend, Ind. | 53 | 39 | 6 | 5 | 1 | 2 | 2 | Pasadena, Calif. | 23 | 16 | 5 | 1 | - | 1 | 1 |
| Toledo, Ohio | 79 | 59 | 8 | 4 | 5 | 3 | 2 | Portland, Oreg. | 100 | 78 | 11 | 4 | 4 | 3 | 9 |
| Youngstown, Ohio | 70 | 51 | 8 | 9 | - | 2 | 2 | Sacramento, Calif. | 162 | 119 | 34 | 8 | 1 | - | 19 |
| W.N. CENTRAL | 753 | 536 | 107 | 49 | 23 | 28 | 46 | San Diego, Calif. | 145 | 98 | 31 | 11 | 2 | 3 | 13 |
| Des Moines, lowa | U | U | U | U | U | U | U | San Francisco, Calif. | 136 | 92 | 30 | 8 | 2 | 4 | 18 |
| Duluth, Minn. | 32 | 24 | 7 | - | 1 | - | 2 | San Jose, Calif. | 158 | 119 | 25 | 6 | 4 | 4 | 9 |
| Kansas City, Kans. | 107 | 21 | 3 | 2 |  | 1 | 4 | Santa Cruz, Calif. Seattle, Wash. | 29 136 | 85 | 79 | 14 | 5 | 3 | 1 |
| Kansas City, Mo. | 107 | 70 | 10 | 10 | 4 | 3 | 4 |  | 59 | 48 | 5 | 4 | 5 | 2 | 7 |
| Lincoln, Nebr. | 43 | 35 | 6 | 1 | 1 |  | 3 | Tacoma, Wash. |  |  | 13 |  |  |  |  |
| Minneapolis, Minn. | 188 | 138 | 26 | 15 | 3 | 6 | 11 |  | 87 | 64 | 13 | 5 | 1 | 4 | 6 |
| Omaha, Nebr. St. Louis, Mo. | 95 | 71 | 12 | 4 | 2 | 6 | ${ }^{6}$ | TOTAL | 11,868 ${ }^{\text {¢ }}$ | 8,063 | 2,307 | 929 | 280 | 272 | 656 |
| St. Louis, Mo. St. Paul, Minn. | 111 84 | 65 62 | 23 9 | 9 5 | 5 | 9 | 12 7 |  |  |  |  |  |  |  |  |
| Wichita, Kans. | 65 | 50 | 11 | 3 | - | 1 | 1 |  |  |  |  |  |  |  |  |

*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.
${ }^{\dagger}$ 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.
TTotal includes unknown ages.

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[^0]:    ${ }^{*}$ Northeast=Connecticut, Maine, Massachusetts, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, and Vermont; Midwest=Illinois, Indiana, lowa, 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.

[^1]:    *The word "state" in this report includes the District of Columbia except where explicitly noted.
    ${ }^{\dagger}$ 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.

[^2]:    $\overline{{ }^{5}}$ 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.
    ${ }^{4}$ 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.

[^3]:    *The report contains data reported to EUR through May 30, 1998. Surveillance data for 1997 have been updated (2).

[^4]:    ${ }^{\dagger}$ 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.
    ${ }^{\S}$ 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.
    ITwo stool specimens collected at an interval of at least 24 hours within 14 days of onset of paralysis. WHO recommends that $\geq 80 \%$ of patients with AFP have two adequate specimens collected (4).

[^5]:    **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.

[^6]:    *Updated monthly to the Division of HIV/AIDS Prevention-Surveillance and Epidemiology, National Center for HIV, STD, and TB Prevention,

