

Published December 31, 1999, for 1998 / Vol. 47 / No. 53

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## Summary of Notifiable Diseases, United States

1998

U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES

Centers for Disease Control and Prevention (CDC) Atlanta, Georgia 30333 The statistical summary of notifiable diseases in the United States is published to accompany each volume of the *Morbidity and Mortality Weekly Report* by the Centers for Disease Control and Prevention (CDC), U.S. Department of Health and Human Services, Atlanta, GA 30333.

#### SUGGESTED CITATION

Centers for Disease Control and Prevention. *Summary of notifiable diseases, United States, 1998.* MMWR 1998;47(53): [inclusive page numbers].

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#### **Preface**

The MMWR Summary of Notifiable Diseases, United States, 1998 contains summary tables of the official statistics for the reported occurrence of nationally notifiable diseases in the United States for 1998. These statistics are collected and compiled from reports to the National Notifiable Diseases Surveillance System (NNDSS), which is operated by CDC in collaboration with the Council of State and Territorial Epidemiologists (CSTE).

Because the dates of onset or diagnosis for notifiable diseases are not always reported, these surveillance data are presented by the week they were reported to CDC by public health officials in state and territorial health departments. These data are finalized and published each year in the MMWR Summary of Notifiable Diseases, United States for use by state and local health departments; schools of medicine and public health; communications media; local, state, and federal agencies; and other agencies or persons interested in following the trends of reportable diseases in the United States. This publication also documents which diseases are considered national priorities for notification and the annual number of cases of such diseases.

The Highlights section presents information on selected nationally notifiable and non-notifiable diseases to provide a context in which to interpret surveillance and disease-trend data and to provide further information on the epidemiology and prevention of selected diseases.

Part 1 contains tables that present morbidity for each of the diseases considered nationally notifiable during 1998.\* The tables provide the number of cases of notifiable diseases reported to CDC for 1998, as well as the distribution of cases by month and geographic location and by patient's age, sex, race, and Hispanic ethnicity. The data are final totals as of August 13, 1999, unless otherwise noted. Nationally notifiable diseases that are reportable in fewer than 40 states also do not appear in these tables. In all tables, leprosy is listed as Hansen disease, and tickborne typhus fever is listed as Rocky Mountain spotted fever (RMSF).

Part 2 contains graphs and maps. These graphs and maps depict summary data for many of the notifiable diseases described in tabular form in Part 1.

Part 3 contains tables that list the number of cases of notifiable diseases reported to CDC since 1967. This section also includes a table enumerating deaths associated with specified notifiable diseases reported to the National Center for Health Statistics (NCHS), CDC, during 1988–1997.

The Bibliography section presents general and disease-specific references pertaining to the notifiable infectious diseases. These references provide additional information on surveillance and epidemiologic issues, diagnostic issues, or disease control activities.

<sup>\*</sup>Because no cases of anthrax, western equine encephalitis, or yellow fever were reported in the United States during 1998, these diseases do not appear in the tables in Part 1.

#### **Background**

As of January 1, 1998, a total of 52 infectious diseases were designated as notifiable at the national level. A notifiable disease is one for which regular, frequent, and timely information regarding individual cases is considered necessary for the prevention and control of the disease. This section briefly summarizes the history of the reporting of nationally notifiable diseases in the United States.

In 1878, Congress authorized the U.S. Marine Hospital Service (i.e., the forerunner of the Public Health Service [PHS]) to collect morbidity reports regarding cholera, smallpox, plague, and yellow fever from U.S. consuls overseas. The intention was to use this information to institute quarantine measures to prevent the introduction and spread of these diseases into the United States. In 1879, a specific Congressional appropriation was made for the collection and publication of reports of these notifiable diseases. Congress expanded the authority for weekly reporting and publication of these reports in 1893 to include data from states and municipal authorities. To increase the uniformity of the data, Congress enacted a law in 1902 directing the Surgeon General to provide forms for the collection and compilation of data and for the publication of reports at the national level. In 1912, state and territorial health authorities — in conjunction with PHS — recommended immediate telegraphic reporting of five infectious diseases and the monthly reporting, by letter, of 10 additional diseases. The first annual summary of The Notifiable Diseases in 1912 included reports of 10 diseases from 19 states, the District of Columbia, and Hawaii. By 1928, all states, the District of Columbia, Hawaii, and Puerto Rico were participating in national reporting of 29 specified diseases. At their annual meeting in 1950, state and territorial health officers authorized the Council of State and Territorial Epidemiologists (CSTE) to determine which diseases should be reported to PHS. In 1961, CDC assumed responsibility for the collection and publication of data concerning nationally notifiable diseases.

The list of nationally notifiable diseases is revised periodically. For example, a disease might be added to the list as a new pathogen emerges, or a disease might be deleted as its incidence declines. Public health officials at state health departments and CDC continue to collaborate in determining which diseases should be nationally notifiable. CSTE, with input from CDC, makes recommendations annually for additions and deletions. However, state reporting of nationally notifiable diseases to CDC is voluntary. Reporting currently is mandated (i.e., by legislation or regulation) only at the state and local level. Thus, the list of diseases considered notifiable varies slightly by state. All states generally report the internationally quarantinable diseases (i.e., cholera, plague, and yellow fever) in compliance with the World Health Organization's International Health Regulations.

The list of 52 infectious diseases designated as notifiable at the national level during 1998 is as follows:

## The 52 Infectious Diseases Designated as Notifiable at the National Level During 1998

| Acquired immunodeficiency    | Haemophilus influenzae,       | Rabies, animal               |
|------------------------------|-------------------------------|------------------------------|
| syndrome (AIDS)              | invasive disease              | Rabies, human                |
| Anthrax                      | Hansen disease (leprosy)      | Rocky Mountain spotted fever |
| Botulism                     | Hantavirus pulmonary syndrome | Rubella (German measles)     |
| Brucellosis                  | Hemolytic uremic syndrome,    | Salmonellosis                |
| Chancroid                    | postdiarrheal                 | Shigellosis                  |
| Chlamydia trachomatis,       | Hepatitis A                   | Streptococcal disease,       |
| genital infection            | Hepatitis B                   | invasive, group A            |
| Cholera                      | Hepatitis C; non-A, non-B     | Streptococcus pneumoniae,    |
| Coccidioidomycosis*          | HIV infection, pediatric      | drug-resistant*              |
| Congenital rubella syndrome  | Legionellosis                 | Streptococcal toxic-shock    |
| Cryptosporidiosis            | Lyme disease                  | syndrome                     |
| Diphtheria                   | Malaria                       | Syphilis                     |
| Encephalitis, California     | Measles (rubeola)             | Syphilis, congenital         |
| serogroup viral              | Meningococcal disease         | Tetanus                      |
| Encephalitis, eastern equine | Mumps                         | Toxic-shock syndrome         |
| Encephalitis, St. Louis      | Pertussis (whooping cough)    | Trichinosis                  |
| Encephalitis, western equine | Plague                        | Tuberculosis                 |
| Escherichia coli 0157:H7     | Poliomyelitis, paralytic      | Typhoid fever                |
| Gonorrhea                    | Psittacosis                   | Yellow fever                 |
|                              |                               |                              |

<sup>\*</sup>Not currently published in MMWR weekly tables.

**Note**: Although varicella (chickenpox) is not a nationally notifiable disease, the Council of State and Territorial Epidemiologists recommends reporting cases of this disease to CDC.

#### **Data Sources**

Provisional data concerning the reported occurrence of notifiable diseases are published weekly in *MMWR*. After each reporting year, staff in state health departments finalize reports of cases for that year with local or county health departments and reconcile the data with reports previously sent to CDC throughout the year. These data are compiled in final form in the *MMWR Summary of Notifiable Diseases, United States*.

Notifiable disease reports are the authoritative and archival counts of cases. They must be approved by the appropriate epidemiologist from each submitting state or territory before being published in the *MMWR Summary of Notifiable Diseases, United States*. Although useful for detailed epidemiologic analyses, data published in *MMWR Surveillance Summaries* or other surveillance reports produced by CDC programs might not agree exactly with data reported in the annual summary because of differences in the timing of reports, the source of the data, and the case definitions.

Data in the MMWR Summary of Notifiable Diseases, United States were derived primarily from reports transmitted to the Division of Public Health Surveillance and Informatics, Epidemiology Program Office, CDC, from health departments in the 50 states, five territories, New York City, and the District of Columbia through the National Electronic Telecommunications System for Surveillance (NETSS). More information regarding NETSS and notifiable diseases, including case definitions for these conditions, is available on the Internet at <a href="http://www.cdc.gov/epo/phs.htm">http://www.cdc.gov/epo/phs.htm</a>. Policies for reporting notifiable disease cases can vary by disease or reporting jurisdiction, depending on case status classification (i.e., confirmed, probable, or suspect).

Final data for selected diseases (presented in Parts 1, 2, and 3) are from the surveillance records of the CDC programs listed below. Requests for further information regarding these data should be directed to the appropriate program.

#### **National Center for Health Statistics (NCHS)**

Office of Vital and Health Statistics Systems (deaths from selected notifiable diseases).

#### **National Center for Infectious Diseases (NCID)**

Division of Bacterial and Mycotic Diseases (toxic-shock syndrome; Streptococcal disease, invasive, group A; Streptococcal toxic-shock syndrome; and laboratory data regarding botulism, *Escherichia coli* O157:H7, salmonellosis, and shigellosis).

Division of Vector-Borne Infectious Diseases (laboratory data regarding arboviral encephalitis).

Division of Viral and Rickettsial Diseases (animal rabies; Hantavirus pulmonary syndrome).

#### National Center for HIV, STD, and TB Prevention (NCHSTP)

Division of HIV/AIDS Prevention — Surveillance and Epidemiology (acquired immunodeficiency syndrome [AIDS]).

Division of Sexually Transmitted Diseases Prevention (chancroid, chlamydia, gonorrhea, and syphilis).

Division of Tuberculosis Elimination (tuberculosis).

#### **National Immunization Program (NIP)**

Epidemiology and Surveillance Division (poliomyelitis).

Disease totals for the United States, unless otherwise stated, do not include data for American Samoa, Guam, Puerto Rico, the Virgin Islands, or the Commonwealth of the Northern Mariana Islands (CNMI). Disease totals from American Samoa, CNMI, and the Virgin Islands were unavailable for 1998.

Population estimates for the states are from the July 1, 1998, estimates from the Bureau of the Census\* (Internet release number ST-98-1. December 31, 1998). Population numbers for territories are 1997 estimates from the Bureau of the Census (Press release numbers CB98-54 and CB98-80). Population numbers used to calculate rates for age and sex are from July 1, 1998, estimates from the Bureau of Census (Internet release. June 15, 1999). More information regarding census estimates is available at <a href="http://www.census.gov">http://www.census.gov</a>. Rates in the *MMWR Summary of Notifiable Diseases, United States* are presented as incidence rates per 100,000 population, based on data for the U.S. total-resident population. However, population data from states in which diseases were not notifiable or disease data were not available were excluded from rate calculations.

#### Interpreting Data

The data reported in the MMWR Summary of Notifiable Diseases, United States are useful for analyzing disease trends and determining relative disease burdens. However, these data must be interpreted in light of reporting practices. Some diseases that cause severe clinical illness (e.g., plague and rabies) are most likely reported accurately, if they were diagnosed by a clinician. However, persons who have diseases that are clinically mild and infrequently associated with serious consequences (e.g., salmonellosis) might not seek medical care from a health-care provider. Even if these less severe diseases are diagnosed, they are less likely to be reported.

The degree of completeness of data reporting also is influenced by the diagnostic facilities available; the control measures in effect; the public awareness of a specific disease; and the interests, resources, and the priorities of state and local officials responsible for disease control and public health surveillance. Finally, factors such as changes in the case definitions for public health surveillance, the introduction of new diagnostic tests, or the discovery of new disease entities can cause changes in disease reporting that are independent of the true incidence of disease.

Public health surveillance data are published for selected racial and ethnic population groups because these variables can be risk markers for certain notifiable diseases. Risk markers can identify potential risk factors for investigation in future studies. Race/ethnicity data also can be used to target populations for prevention efforts. However, caution must be used when drawing conclusions from reported race/ethnicity data. Certain races and ethnicities have differential patterns of access to health care, interest in seeking health care, and detection of disease, potentially resulting in data that are not representative of disease incidence in these populations.

In addition, not all race/ethnicity data are collected uniformly for all diseases. For example, in NCHSTP, the Division of HIV/AIDS Prevention — Surveillance and Epidemiology and the Division of Sexually Transmitted Diseases Prevention collect race/ethnicity data using a single variable. A person's race/ethnicity is reported as American Indian/Alaskan Native, Asian/Pacific Islander, black non-Hispanic, white non-Hispanic, or Hispanic. Additionally, although the recommended standard for classifying a person's race or ethnicity is based on self-reporting, this procedure might not always be followed.

<sup>\*</sup>Population Distribution Branch, Population Division of the Bureau of Census, which is under the Economics and Statistics Administration, U.S. Department of Commerce.

#### Highlights for 1998

The Highlights section presents information on the public health importance of selected nationally notifiable and non-notifiable diseases, including a) domestic and international disease outbreaks, b) active surveillance findings, c) changes in data reporting practices, d) the impact of prevention programs, e) the emergence of antimicrobial resistance, and f) changes in immunization policies. This information is intended to provide a context in which to interpret surveillance and disease-trend data and to provide further information on the epidemiology and prevention of selected diseases.

#### **Highlights for Selected Nationally Notifiable Diseases**

#### Chancroid

In 1998, a total of 189 cases of chancroid were reported to CDC, for a rate of 0.07 cases/100,000 population. The number of cases reported in 1998 reflects a 23% decline from 1997 and a continuing decline since 1987. However, chancroid is difficult to culture and could be substantially underdiagnosed. Several studies that have used DNA amplification tests (which are not commercially available) have identified this infection in cities where it was previously undetected.

#### Chlamydia trachomatis, Genital Infection

In 1998, a total of 604,420 cases of genital chlamydial infection were reported to CDC, for a rate of 236.57 cases/100,000 population. This is the highest rate of chlamydial infection reported to CDC since cases were first voluntarily reported to the National Center for HIV, STD, and TB Prevention's Division of STD Prevention in the mid-1980s. It is also the highest rate since chlamydia became a nationally notifiable disease in 1995. This increase reflects the continued expansion of chlamydia screening programs and the increased use of more sensitive diagnostic tests for this condition. During the same period, data on chlamydia prevalence obtained by monitoring seropositivity rates of persons screened in different clinic settings have consistently documented declining levels of infection in many parts of the United States (Sexually transmitted disease surveillance 1998. US Department of Health and Human Services, CDC, September 1999).

#### **Cryptosporidiosis**

National reporting for cryptosporidiosis began in 1995. During 1995–1998, a total of 11,612 cases were reported from 47 states, with an annual median of 2,900 cases per year (range: 2,566–3,793). Because the diagnosis of cryptosporidiosis is often not considered, and because laboratories do not routinely test stool specimens for cryptosporidiosis infection, this disease continues to be underdiagnosed and underreported.

#### **Diphtheria**

One probable case of diphtheria was reported from Oregon in 1998. The casepatient had acute membranous pharyngitis. An oropharyngeal specimen was weakly positive for diphtheria toxin by polymerase chain reaction, but bacterial culture of the specimen was negative. Outside the United States, more than 2,700 cases of diphtheria were reported in an epidemic in the Newly Independent States of the former Soviet Union (Dittmann S, Wharton M, Vitek C, et al. Successful control of epidemic diphtheria in the Newly Independent States of the Former Soviet Union: lessons learned in fighting public health emergencies. *J Infect Dis* 2000 [in press]). This epidemic has resulted in approximately 155,000 cases and 5,000 deaths since 1990. No importations into the United States were reported in 1998.

#### Gonorrhea

In 1998, a total of 355,642 cases of gonorrhea were reported to CDC, for a rate of 132.88/100,000 population. This was an 8.9% increase from the 1997 rate and the first increase since 1985. The 1998 increase was reported in all demographic groups defined by age, sex, and race/ethnicity, and it occurred in all major geographic regions except the Northeast. Possible reasons for this trend include expansion of screening programs (motivated by the availability of simultaneous testing for genital chlamydial infections), increased use of new diagnostic tests with improved sensitivity, improvements in surveillance systems, and true increases in morbidity.

#### Haemophilus influenzae, Invasive Disease

In 1998, a total of 255 cases of *Haemophilus influenzae* (Hi) invasive disease among children aged <5 years were reported (data were provided by the National Immunization Program and were based on date of onset, not *MMWR* week). Before a vaccine was introduced in 1987, approximately 20,000 cases of *H. influenzae* type b (Hib) invasive disease occurred among children annually (*JAMA* 1993;269:221–6). The sharp decline in the number of Hib cases is attributed to the widespread use of the Hib vaccine among preschool-aged children. Of the 255 cases reported in 1998, a total of 197 (74%) Hi isolates were serotyped, and 61 (31%) of these were type b. Among the 61 cases of Hib invasive disease reported in children aged <5 years, 25 (41%) were among children aged <6 months, which is too young to have completed a three-dose primary Hib vaccination. However, 22 (61%) of the 36 children who were old enough (i.e., aged ≥6 months) to have completed a three-dose primary series were incompletely vaccinated or their vaccination status was unknown. These cases might have been prevented with age-appropriate vaccination.

#### **Hantavirus Pulmonary Syndrome**

In 1998, a total of 30 cases of hantavirus pulmonary syndrome (HPS) reported from 12 states were confirmed by CDC. Nine (30%) cases were fatal. HPS is caused by several hantaviruses in the western hemisphere and has also been reported in Canada, Argentina, Paraguay, Brazil, Uruguay, Chile, and Bolivia. Most HPS in the United States is caused by Sin Nombre virus. Other hantaviruses associated with human disease in the United States include Bayou, Black Creek Canal, New York, and Monongahela. Most hantaviruses have specific rodent reservoirs of the family *Muridae*. The virus is shed in rodent urine, feces, and saliva, then transmitted via inhalation.

#### Hemolytic Uremic Syndrome, Postdiarrheal

Postdiarrheal hemolytic uremic syndrome (HUS) is a life-threatening illness characterized by hemolytic anemia, thrombocytopenia, and renal injury. In the United States, most cases are caused by infection with *Escherichia coli* O157:H7 or other *Shiga* toxin-producing *E. coli*. In 1998, the third year of national reporting, 17 states reported

90 cases of postdiarrheal HUS to CDC. By comparison, 20 states reported 93 cases in 1997, and 18 states reported 104 cases in 1996. The median age of patients was 5 years (range: <1–87 years), and 53% of patients were female. Illness was seasonal, with 59% of cases occurring during June through September.

#### **Hepatitis A**

In 1999, the Advisory Committee on Immunization Practices (ACIP) issued revised recommendations for the use of hepatitis A vaccine (HepA). Routine childhood HepA vaccination is recommended in states or counties/communities where the average annual hepatitis A virus (HAV) rate during 1987–1997 was approximately 20 cases/100,000 population (i.e., approximately twice the national average). In addition, routine childhood HepA vaccination can be considered in states or counties/ communities where the average rate during 1987–1997 was at least 10 cases/100,000 population.

Of the 23,229 cases of HAV reported in 1998, approximately 60% originated from the 17 states affected by the ACIP recommendations. Eleven of these states had average rates of approximately 20 cases/100,000 persons during 1987–1997, and six states had average rates of approximately 10/100,000 during this period. However, these 17 states account for only 34% of the U.S. population.

#### **Hepatitis B**

The number of reported acute hepatitis B cases has decreased by more than 50% during the past decade, from 21,102 cases in 1990 to 10,258 cases in 1998. This downward trend is expected to continue as a national strategy for eliminating hepatitis B virus (HBV) transmission is implemented. Components of this strategy include a) screening pregnant women for hepatitis B surface antigen (HBsAg) and providing postexposure immunoprophylaxis to infants of infected women; b) routinely vaccinating infants; c) providing catch-up vaccinations for children aged <19 years (particularly those aged 11–12 years); and d) targeting vaccinations to children, adolescents, and adults at increased risk for infection. Draft *Healthy People 2010* objectives emphasize the elimination of HBV transmission and include reducing the number of perinatal HBV infections to <400 and reducing the number of acute hepatitis B cases in persons aged 2–18 years to <10. Proposed age-specific target rates per 100,000 population for persons aged >18 years are as follows: 3.2 cases/100,000 for persons aged 19–24 years, 11.1/100,000 for persons aged 25–39 years, and 1.0/100,000 for persons aged ≥40 years.

#### **Hepatitis C**

Hepatitis C virus (HCV) infection is the most common chronic bloodborne infection in the United States (*MMWR* 1998;47[RR-19]). Based on data from CDC's sentinel counties viral hepatitis surveillance system, approximately 242,000 new HCV infections occurred each year during the 1980s. Since 1989, the annual number of new infections identified in the sentenial counties has declined by 80%. For reasons that are unclear, this dramatic decline correlates with a decrease in cases among injecting-drug users (*MMWR* 1998;47[RR-19]). But in 1996, data from the Third National Health and Nutrition Examination Survey (1988–1994) indicated that approximately 4 million Americans (1.8%) have been infected with HCV. Most are chronically infected, although the majority might be unaware of their infection because they are not clinically ill. Chronically infected persons can transmit the virus to others and are at risk for chronic liver disease, including cirrhosis and liver cancer.

CDC guidelines for prevention and control of HCV infection and HCV-related chronic disease were published in October 1998 (*MMW*R 1998;47[RR-19]). The U.S. Food and Drug Administration also issued guidance in 1998 requiring the notification of persons who received blood or blood products before July 1992 from donors subsequently found to be infected with HCV. In May 1999, a national campaign was initiated to educate the public about hepatitis C and the need for persons at increased risk to be tested. These recommendations and activities are expected to increase the number of HCV-infected persons identified and reported to state and local health departments.

#### **HIV Infection, Pediatric**

In 1998, reports based on acquired immunodeficiency syndrome (AIDS) surveillance data indicated continued, substantial declines in perinatally acquired AIDS, reflecting declining perinatal human immunodeficiency virus (HIV) transmission. HIV surveillance data indicated that the increasing use of zidovudine was temporally associated with this decline (*MMWR* 1997;46:1086–92 and CDC. HIV/AIDS surveillance report. Atlanta, GA: US Department of Health and Human Services, 1998:36. [Vol. 10, no. 2]). These data demonstrate success in nationwide efforts to implement Public Health Service (PHS) guidelines for routine, voluntary prenatal HIV testing (*MMWR* 1995;44[No. RR-7] and *MMWR* 1998;47:688–91 and *MMWR* 1999;48:401–4) and the use of zidovudine to reduce perinatal HIV transmission (*MMWR* 1994;43[No. RR-11] and *MMWR* 1998;47[No. RR-2]).

States that conduct surveillance of perinatally exposed and infected children aged <13 years can evaluate the impact of the guidelines and document resources needed to care for perinatally exposed infants. In 1998, a total of 32 states conducted surveillance of HIV infection among children, reporting 309 HIV-infected children whose infection had not progressed to AIDS and 143 children who had AIDS. These states also received 2,433 new reports of perinatally exposed children who required follow up with health-care providers to determine their HIV infection status.

#### Lyme Disease

In 1998, a total of 16,801 cases of Lyme disease were reported, the highest number ever reported. This increase could be caused by an increase in human contact with infected ticks and enhanced reporting of cases. Lyme disease occurs primarily in the northeastern and northcentral United States. The following nine states had incidence rates higher than the annual national average of 6.39 cases/100,000 population and accounted for 93.0% of reported cases: Connecticut (105.0/100,000), Rhode Island (79.6), New York (25.5), New Jersey (24.0), Pennsylvania (22.9), Maryland (13.1), Massachusetts (11.5), Wisconsin (12.8), and Delaware (10.7).

In December 1998, a new Lyme disease vaccine was approved by the U.S. Food and Drug Administration. The Advisory Committee on Immunization Practices issued recommendations for use of this vaccine in June 1999 (MMWR 1999;48 [No. RR-7]). These recommendations emphasize that the decision to vaccinate should be based on both geographic risk and individual exposure to tick-infested habitats. Because the Lyme disease vaccine is not 100% effective and does not protect against transmission of other tickborne diseases, vaccinated persons should continue to practice personal protective measures against ticks and seek early diagnosis and treatment of suspected tickborne infections.

#### **Pertussis**

On July 29, 1998, the fourth diphtheria and tetanus toxoids and acellular pertussis vaccine (DTaP) was licensed for use in children aged 6 weeks–6 years. This vaccine is called Certiva,™ and it is manufactured by North American Vaccine, Inc. Other DTaP vaccines licensed since 1996 include Tripedia® (Connaught Laboratories, Inc.), ACEL-IMUNE® (Lederle Laboratories Division of American Cyanamid Company), and Infanrix® (SmithKline Beecham Pharmaceuticals). The Advisory Committee on Immunization Practices recommends DTaP vaccines for all five doses in the childhood vaccination schedule.

Since 1980, the number of reported cases of pertussis has increased in the United States. The reasons for this rise are unknown, but could include increased awareness of pertussis among health-care providers, increased use of more sensitive diagnostic tests, and better reporting of cases to health departments. In 1998, a total of 24% of 7,405 reported cases occurred among children aged <7 months, who were too young to have received the recommended three doses of pertussis vaccine. Thirteen percent of cases were among preschool-aged children (i.e., those aged 1–4 years). Since 1995, the coverage rate with at least three doses of pertussis vaccine has been 95% among U.S. children aged 19–35 months. Twenty-six percent of cases were reported among children aged 10–19 years. Because vaccine-induced immunity wanes approximately 5–10 years after pertussis vaccination, adolescents can become susceptible to disease. Since 1990, the incidence among preschool-aged children has not changed, but the incidence among adolescents has increased in some states (Clin Inf Dis 1999;28:1230–7).

#### **Plague**

In 1998, nine cases of plague among humans were reported in the United States (six cases in New Mexico, one in Arizona, one in California, and one in Colorado). None were fatal. Of the 360 cases that occurred during 1970–1998, approximately 80% were reported from the southwestern states of New Mexico, Arizona, and Colorado. Nine percent occurred in California, and limited numbers of cases were reported from nine other western states. *Yersinia pestis* was recently designated as a potential agent of biological terrorism (see page xvi). In recognition of this potential threat, CDC is collaborating with other public health and federal agencies to develop guidelines for responding to bioterrorism events involving *Y. pestis*. Also in 1998, CDC was informed that Greer Laboratories, Inc., was ceasing production of the only plague vaccine commercially available in the United States. This vaccine has a limited shelf life, and no remaining stockpiles exist.

#### Poliomyelitis, Paralytic

As of January 1999, the Advisory Committee on Immunization Practices recommends only inactivated polio vaccine (IPV) for the first two doses of the polio vaccination series. Distribution of IPV as a proportion of overall polio vaccine use has increased from 6% in 1996 to 29% in 1997 to 34% in 1998. All six cases of vaccine-associated polio reported in the United States since January 1997 (including the single case reported in 1998) were associated with receipt of trivalent oral polio vaccine (OPV) for the first or second dose in an all-OPV schedule. An all-IPV schedule is recommended for routine childhood vaccination beginning January 1, 2000.

#### St. Louis Encephalitis

A summertime epidemic of St. Louis encephalitis in southern Louisiana accounted for 18 of the 24 cases reported nationally. No cases were fatal. *Culex pipiens quinque-fasciatus* was presumed to be the primary mosquito vector. The last major epidemic of St. Louis encephalitis in the United States (223 cases and 11 deaths) occurred in Florida in 1990. This disease occurs in portions of both the eastern and western United States.

#### Streptococcal Disease, Invasive, Group A

Nationally, approximately 10,200 cases of invasive group A streptococcal disease and 1,300 deaths occurred in 1998, according to reports from the Active Bacterial Core Surveillance (ABCS) project under CDC's Emerging Infectious Diseases Program, which operates in seven states (California, Connecticut, Georgia, Maryland, Minnesota, New York, and Oregon). The incidence of this disease during 1998 was 3.8 cases/ 100,000 population. Rates were highest among children aged <1 year (7.5 cases/100,000) and adults aged ≥65 years (10.0/100,000). Streptococcal toxic shock syndrome and necrotizing fasciitis each accounted for approximately 5.1% of invasive cases. The overall case-fatality rate among patients with invasive group A streptococcal disease was 12.2%.

#### Streptococcus pneumoniae, Drug-Resistant

During 1998, the Active Bacterial Core Surveillance (ABCS) project of CDC's Emerging Infectious Diseases Program collected information on invasive pneumococcal disease, including drug-resistant *Streptococcus pneumoniae*, in eight states — California, Connecticut, Georgia, Maryland, Minnesota, New York, Oregon, and Tennessee. Of 3,335 *S. pneumoniae* isolates collected during 1998, a total of 10.2% exhibited intermediate penicillin resistance (minimum inhibitory concentration [MIC] 0.1–1 ug/mL), and 13.6% were resistant (MIC ≥2 ug/mL). For cefotaxime, 7.7% of all isolates had intermediate resistance (MIC 1 ug/mL), and 6.1% were resistant (MIC ≥2 ug/mL). The proportion of isolates resistant to erythromycin was 14.7% (MIC ≥2 ug/mL). The overall proportions of isolates that were not susceptible to these three drugs were not substantially different compared with 1997 data. However, the proportions that were resistant varied widely among surveillance sites in 1998, and an increase in the prevalence of resistant strains, compared with earlier years, was reported from some states (data available at <a href="http://www.cdc.gov/ncidod/dbmd/abcs/survreports.htm">http://www.cdc.gov/ncidod/dbmd/abcs/survreports.htm</a>).

#### Syphilis, Congenital

In 1998, a total of 801 cases of congenital syphilis were reported to CDC, for a rate of 20.6/100,000 live births. Like primary and secondary syphilis, the rate of congenital syphilis has declined sharply in recent years, from a peak of 107.3 cases/100,000 live births in 1991. Congenital syphilis persists in the United States because of the substantial number of women who do not receive syphilis serologic testing during pregnancy or who receive this testing too late in their pregnancy. This lack of screening is often related to a lack of prenatal care or late prenatal care (*Am J Public Health* 1999;89: 557–60).

#### Syphilis, Primary and Secondary

In 1998, a total of 6,993 primary and secondary syphilis cases were reported to CDC. During 1990–1998, the primary and secondary syphilis rate declined 86%, from 20.3 cases/100,000 population to 2.6/100,000 — the lowest level since reporting began in 1941. Although syphilis has declined in all regions of the United States and in all racial/ethnic groups, rates remain disproportionately high in the South and among non-Hispanic blacks, and focal outbreaks continue to occur.

#### **Tetanus**

The first case of neonatal tetanus reported in the United States since 1995 was reported from Montana in 1998. The case occurred in an infant born to a mother who was not immunized because of her philosophic beliefs and who used a nonsterile bentonite clay recommended by a lay midwife for the care of the baby's umbilical cord. The infant recovered after a 3-week hospitalization, including 12 days of mechanical ventilation. Of the 41 cases of tetanus that occurred in 1998, a total of 16 (39%) were among persons aged ≥60 years, and 16 (39%) were among persons aged ≥60 years, and 16 (39%) were among persons aged ≥60 years.

#### **Highlights for Selected Non-Notifiable Diseases**

#### Cyclosporiasis

In recent years, multiple foodborne outbreaks of cyclosporiasis linked to various types of fresh produce (i.e., mesclun lettuce, basil, and Guatemalan raspberries) have occurred in the United States. In Spring 1998, Canada allowed importation of fresh Guatemalan raspberries, which resulted in a cyclosporiasis outbreak. The United States did not allow importation and thus, did not have an outbreak associated with raspberries (*MMWR* 1998;47:806–9).

#### Dengue

In 1998, a total of 90 confirmed or probable cases of dengue were imported into the United States and diagnosed in CDC's Dengue Branch. One case in a man aged 65 years was fatal. The number of cases reported in 1998 is higher than the 56 confirmed or probable cases reported in 1997. No indigenous cases were reported in the United States.

Also in 1998, the preliminary number of dengue and dengue hemorrhagic fever (DHF) cases reported by Pan American Health Organization member countries (741,794, of which 535,388 were reported by Brazil) was more than twice the total for 1997 (364,945). In addition, cases of dengue-3 were reported from islands in the Caribbean for the first time after a 20-year absence. Hurricanes Georges (September 1998) and Mitch (October–November 1998) did not cause acute changes in dengue incidence in the affected areas, except for brief interruptions in disease surveillance systems.

#### **HIV Infection in Adults**

In June 1997, reporting of human immunodeficiency virus (HIV) infection among adults (i.e., persons aged ≥13 years) was added to the list of nationally notifiable diseases at the annual Council of State and Territorial Epidemiologists (CSTE) meeting. The revised surveillance case definition and associated recommendations become effective January 1, 2000 (*MMWR* 1999;48[RR-13]). As of December 31, 1998, a total of 29 states and the Virgin Islands had implemented confidential reporting of HIV among adolescents and adults as an extension of current surveillance for acquired immunodeficiency syndrome (AIDS).

During 1998, reports based on AIDS data continued to highlight substantial declines in AIDS incidence and deaths. As a result of improvements in treatment and care of persons infected with HIV, surveillance of AIDS alone no longer accurately reflects the magnitude of the epidemic or trends in HIV transmission. Data concerning persons in whom HIV infection is diagnosed before AIDS is diagnosed are needed to determine populations that could benefit from prevention and treatment services. In its June 1997 statement, CSTE recommended that all states and territories implement confidential HIV infection reporting based on methods that provide accurate and representative data for all persons diagnosed confidentially.

#### Streptococcal Disease, Invasive, Group B

Efforts to prevent neonatal group B streptococcal (GBS) infections, a leading cause of bacterial disease and death among newborns in the United States, were supported by a 1996 release of consensus guidelines for the prevention of perinatal GBS disease.

Adoption of a prevention policy at one hospital correlated with declines in neonatal GBS incidence (Am J Obstet Gynecol 1998:179:1568–71). In addition, surveillance areas with a high proportion of hospitals with GBS-prevention policies have a lower incidence of neonatal GBS disease (*MMWR* 1998;47:665–70). A recent multistate evaluation demonstrated that the proportion of hospitals with prevention policies increased from 39% in 1994 to 58% in 1997. Active surveillance during 1993–1995 in four U.S. areas (i.e., Maryland and select counties in California, Georgia, and Tennessee) demonstrated an overall 24% decline in newborn GBS disease, from 1.7 cases/1,000 live-born infants in 1993 to 1.3/1,000 in 1995. Surveillance data from these same sites in 1998 revealed a further decline of 54%, to 0.6 cases/1,000 live-born infants (*MMWR* 1997;46:473–7).

#### **Tularemia**

The reported incidence of tularemia in the United States continues to be low. Sporadic cases are primarily associated with handling infected animals or exposure to infected arthropods. Because of concerns that *Francisella tularensis* could be a potential bioterrrorist agent, tularemia will be reinstated as a nationally notifiable disease, effective January 2000 (see page xvi).

#### Vancomycin-Resistant Enterococci

Data regarding the magnitude and impact of vancomycin-resistant enterococi (VRE) in the United States are collected by CDC's National Nosocomial Infections Surveillance (NNIS) system, which includes more than 280 U.S. hospitals. During 1989–1998, the percentage of VRE isolated from patients with nosocomial infections in hospital intensive care units increased from 0.4% to 22.6%. The percentage of VRE isolated from patients with nosocomial infections in nonintensive care units increased from 0.3% to 21.2%. Although the differences between VRE rates by health-care setting have diminished, the overall rates of resistance for many nosocomial pathogens continue to rise and are highest among patients in intensive care units. Additional data are available at <a href="https://www.cdc.gov/ncidod/hip/SURVEILL/NNIS.HTM">https://www.cdc.gov/ncidod/hip/SURVEILL/NNIS.HTM</a>.

TABLE: Percentage of nosocomial enterococci reported as resistant to vancomycin, by health-care setting and year\*

| Year | Intensive care unit (ICU) <sup>†</sup> | Non-ICU <sup>†</sup> |
|------|--|----------------------|
| 1989 | 0.4                                    | 0.3                  |
| 1990 | 1.5                                    | 0.8                  |
| 1991 | 5.3                                    | 2.9                  |
| 1992 | 7.1                                    | 2.9                  |
| 1993 | 11.6                                   | 4.8                  |
| 1994 | 13.6                                   | 9.0                  |
| 1995 | 12.8                                   | 12.0                 |
| 1996 | 16.6                                   | 11.6                 |
| 1997 | 23.2                                   | 15.4                 |
| 1998 | 22.6                                   | 21.2                 |

<sup>\*</sup>N>2000 isolates for each year.

**Source:** National Nosocomial Infections Surveillance (NNIS) system, Hospital Infections Program, National Center for Infectious Diseases, CDC

<sup>&</sup>lt;sup>†</sup>P<0.0001, chi-square for linear trend.

#### Varicella

Although varicella (chickenpox) deaths did not become nationally notifiable until January 1, 1999, some states began reporting varicella deaths to CDC during the second half of 1998. These data highlighted that both children and adults are continuing to die from a disease that is now vaccine-preventable. During 1998, national coverage for varicella vaccine among children aged 19–35 months was 43%. Efforts to increase vaccination of susceptible children, adolescents, and adults should include educating health-care providers that deaths and severe morbidity from varicella are preventable.

#### **Surveillance for Potential Bioterrorism Agents**

CDC established the Bioterrorism Preparedness and Response Program in January 1999 to improve the public health capability to detect and respond to biological and chemical terrorism. Members of this program are working with the FBI and other federal agencies to develop an organized and tiered response to suspect and confirmed biological events. The program focuses on state-level preparedness for early clinical and laboratory detection, which is essential to ensure a prompt response to a bioterrorist attack (e.g., providing prophylactic medicines or vaccines). Initial activities target critical agents that a) are associated with high case-fatality, b) can be disseminated to a large population, c) can cause social disruption because of public perception, and d) require special preparedness needs. These critical agents and their associated diseases include variola major (smallpox), *Bacillus anthracis* (anthrax), *Yersinia pestis* (plague), *Francisella tularensis* (tularemia), *Clostridium botulinum* (botulism), and the viral hemorrhagic fevers (e.g., arenaviruses and filoviruses).

Several other agents have been identified but require less broad-based preparedness efforts, including ones that cause foodborne and waterborne diseases. A critical element for preparedness is defining the natural epidemiology of diseases that can be caused by critical agents, including anthrax and plague, which are nationally notifiable diseases. The last case of naturally occurring anthrax in the United States was reported in 1992. In 1998, a total of 9 cases of plague among humans were reported in the United States.

## PART 1:

# Summaries of Notifiable Diseases in the United States, 1998

## EXPLANATION OF SYMBOLS USED IN TABLES, GRAPHS, AND MAPS

| Data not availableNA              | 4 |
|-----------------------------------|---|
| Report of disease is not required |   |
| in that jurisdiction              |   |
| (not notifiable)NN                | ٧ |
| No reported cases—                |   |

#### NOTIFIABLE DISEASES — Summary of reported cases, by month, United States, 1998

| Disease                                  | Total   | Jan.  | Feb.    | Mar.   | Apr.   | May       | June  | July  | Aug.     | Sept. | Oct.  | Nov.    | Dec.   |
|--|---------|-------|---------|--------|--------|-----------|-------|-------|----------|-------|-------|---------|--------|
| AIDS*                                    | 46,521  | 3,144 | 4,236   | 4,723  | 4,023  | 3,924     | 3,924 | 3,522 | 4,112    | 3,992 | 3,475 | 3,673   | 3,773  |
| Botulism, total                          | 116     | 5     | 5       | 4      | 9      | 13        | 10    | 9     | 14       | 11    | 13    | 4       | 19     |
| Brucellosis                              | 79      | 1     | 1       | _      | 4      | 7         | 6     | 8     | 8        | 6     | 7     | 2       | 29     |
| Chancroid <sup>†</sup>                   | 189     |       | 53      |        |        | 58        |       |       | 37       |       |       | 41      |        |
| Chlamydia <sup>†§</sup>                  | 604,420 |       | 136,428 |        |        | . 146,994 |       |       | .152,886 |       |       | 168,112 |        |
| Cholera                                  | 17      | 1     | _       | _      | _      | 1         | 2     | 1     | 1        | 2     | 3     | 2       | 4      |
| Cryptosporidiosis                        | 3,793   | 124   | 170     | 246    | 152    | 182       | 173   | 262   | 1,158    | 424   | 365   | 218     | 319    |
| Diphtheria                               | 1       | _     | _       | _      | _      | 1         | _     | _     | _        | _     | _     | _       | _      |
| Encephalitis, California serogroup viral | 97      | _     | _       | _      | _      | _         | _     | 8     | 38       | 22    | 15    | 3       | 11     |
| Eastern equine                           | 4       | _     | _       | _      | _      | _         | _     | 1     | _        | 1     | _     | 1       | 1      |
| St. Louis                                | 24      | _     | _       | _      | _      | _         | _     | _     | 2        | 1     | 17    | 1       | 3      |
| Escherichia coli O157:H7                 | 3,161   | 62    | 59      | 66     | 67     | 183       | 291   | 421   | 577      | 421   | 355   | 235     | 424    |
| Gonorrhea <sup>†</sup>                   | 355,642 |       |         |        |        | 82,229    |       |       | 96,129   |       |       |         |        |
| Haemophilus influenzae, invasive disease | 1,194   | 89    | 93      | 104    | 98     | 110       | 92    | 82    | 93       | 57    | 84    | 71      | 221    |
| Hansen disease (leprosy)                 | 108     | 5     | 12      | 7      | 17     | 4         | 12    | 8     | 10       | 4     | 9     | 12      | 8      |
| Hepatitis A                              | 23,229  | 1,232 | 1,474   | 1,676  | 2,259  | 2,327     | 2,001 | 1,489 | 2,280    | 1,766 | 2,044 | 1,659   | 3,022  |
| Hepatitis B                              | 10,258  | 547   | 621     | 699    | 832    | 974       | 902   | 805   | 995      | 747   | 865   | 669     | 1,602  |
| Hepatitis C; non-A, non-B                | 3,518   | 155   | 232     | 279    | 362    | 304       | 293   | 182   | 317      | 239   | 355   | 318     | 482    |
| Legionellosis                            | 1,355   | 67    | 108     | 95     | 73     | 92        | 85    | 140   | 185      | 97    | 143   | 96      | 174    |
| Lyme disease                             | 16,801  | 200   | 249     | 440    | 380    | 572       | 1,306 | 2,824 | 3,458    | 2,504 | 1,855 | 888     | 2,125  |
| Malaria                                  | 1,611   | 96    | 77      | 81     | 96     | 102       | 111   | 130   | 202      | 178   | 167   | 100     | 271    |
| Measles (rubeola)                        | 100     | 1     | 2       | 6      | 9      | 11        | 10    | 5     | 6        | 19    | 10    | 10      | 11     |
| Meningococcal disease                    | 2,725   | 256   | 288     | 251    | 259    | 242       | 236   | 144   | 192      | 140   | 199   | 179     | 339    |
| Mumps                                    | 666     | 20    | 37      | 47     | 200    | 54        | 39    | 33    | 46       | 46    | 38    | 37      | 69     |
| Pertussis (whooping cough)               | 7,405   | 263   | 313     | 410    | 330    | 513       | 521   | 526   | 854      | 774   | 905   | 749     | 1,247  |
| Plague                                   | 9       | _     | _       | _      | _      | _         | 3     | 2     | 2        | _     | 1     | _       | 1      |
| Poliomyelitis, paralytic                 | 1       | _     | _       | _      | _      | _         | _     | _     | _        | 1     | _     | _       | _      |
| Psittacosis                              | 47      | 6     | 1       | 2      | 3      | 3         | 6     | 5     | _        | 3     | 5     | 11      | 2      |
| Rabies, animal                           | 7,259   | 443   | 452     | 646    | 631    | 710       | 633   | 564   | 854      | 683   | 654   | 447     | 542    |
| Rabies, human                            | 1       | _     | _       | _      | _      | _         | _     | _     | _        | _     | _     | _       | 1      |
| Rocky Mountain spotted fever             | 365     | 2     | 5       | 6      | 9      | 22        | 45    | 50    | 69       | 53    | 33    | 18      | 53     |
| Rubella (German measles)                 | 364     | 12    | 23      | 70     | 63     | 69        | 47    | 26    | 19       | 4     | 12    | 4       | 15     |
| Rubella, congenital syndrome             | 7       | _     | 1       | _      | 1      | _         | 1     | _     | 1        | _     | _     | _       | 3      |
| Salmonellosis                            | 43,694  | 1,840 | 1,743   | 1,861  | 2,179  | 3,213     | 3,485 | 4,323 | 6,034    | 4,985 | 5,592 | 3,276   | 5,163  |
| Shigellosis                              | 23,626  | 1,064 | 1,155   | 1,146  | 1,416  | 1,712     | 1,752 | 1,640 | 2,656    | 2,365 | 2,935 | 2,170   | 3,615  |
| Syphilis, total (all stages)†            | 37,977  |       | 9,473   |        |        |           |       |       | 9,244    |       |       | 9,381   |        |
| Primary and secondary <sup>†</sup>       | 6,993   |       | 1,685   |        |        | 1,693     |       |       | 1,845    |       |       | 1,770   |        |
| Congenital (age <1 yr) <sup>†</sup>      | 801     |       | 231     |        |        | 186       |       |       |          |       |       | 169     |        |
| Tetanus                                  | 41      | 1     | 1       | 1      | 4      | 4         | 1     | 6     | 6        | 3     | 5     | 1       | 8      |
| Toxic-shock syndrome                     | 138     | 9     | 9       | 12     | 15     | 11        | 14    | 8     | 12       | 5     | 14    | 13      | 16     |
| Trichinosis                              | 19      | _     | 1       | _      | 2      | 2         | 1     | _     | 3        | _     | 1     | _       | 9      |
| Tuberculosis <sup>¶</sup>                | 18,361  | 685   | 1,035   | 1,328  | 1,293  | 1,413     | 1,707 | 1,737 | 1,492    | 1,441 | 1,740 | 1,514   | 2,976  |
| Typhoid fever                            | 375     | 24    | 25      | 24     | 35     | 24        | 25    | 28    | 45       | 53    | 36    | 18      | 38     |
| Varicella (chickenpox)**                 | 82,455  | 8,849 | 10,830  | 11,129 | 11,199 | 12,119    | 5,342 | 2,254 | 690      | 1,539 | 2,721 | 4,169   | 11,614 |

<sup>\*</sup>Total number of acquired immunodeficiency syndrome (AIDS) cases reported to the Division of HIV/AIDS Prevention — Surveillance and Epidemiology, National Center for HIV, STD, and TB Prevention (NCHSTP), as of December 31, 1998.

†Cases were updated through the Division of Sexually Transmitted Diseases Prevention, NCHSTP, as of July 19, 1999.

§Chlamydia refers to genital infections caused by *C. trachomatis*.

¶Cases were updated through the Division of Tuberculosis Elimination, NCHSTP, as of June 3, 1999.

<sup>\*\*</sup>Not nationally notifiable.

NOTIFIABLE DISEASES — Reported cases, by geographic division and area, United States, 1998

|                           | Total resident               |                     | Botulis       | sm             |               |                        |
|---------------------------|------------------------------|---------------------|---------------|----------------|---------------|------------------------|
| Area                      | population<br>(in thousands) | AIDS*               | Foodborne     | Infant         | Brucellosis   | Chancroid <sup>†</sup> |
| United States             | 270,296                      | 46,521 <sup>§</sup> | 22            | 65             | 79            | 189                    |
| New England               | 13,429                       | 1,811               | _             | _              | _             | 2                      |
| Maine                     | 1,244                        | 31                  | _             | _              | _             | _                      |
| N.H.                      | 1,185                        | 42                  | _             | _              | _             | _                      |
| Vt.                       | 591                          | 20                  | _             | _              | _             | _                      |
| Mass.                     | 6,147                        | 924                 | _             | _              | _             | _                      |
| R.I.                      | 988                          | 128                 | _             | _              | _             | _                      |
| Conn.                     | 3,274                        | 666                 | _             | 45             | _             | 2                      |
| Mid. Atlantic             | <b>38,291</b>                | 12,588              | <b>2</b><br>— | <b>15</b><br>3 | <b>2</b><br>1 | 82<br>—                |
| Upstate N.Y.<br>N.Y. City | 10,850<br>7,325              | 1,581<br>7,133      | _             | ა<br>1         | 1             | —<br>82                |
| N.J.                      | 8,115                        | 2,134               |               | 9              |               | 02<br>—                |
| Pa.                       | 12,001                       | 1,740               | _             | 2              | _             | _                      |
| E.N. Central              | 44,194                       | 3,390               | _             | 8              | 9             | 6                      |
| Ohio                      | 11,209                       | 685                 | _             | 4              | 1             | 3                      |
| Ind.                      | 5,899                        | 484                 | _             | _              |               | 1                      |
| III.                      | 12,045                       | 1,304               | _             | 3              | 5             | _                      |
| Mich.                     | 9,817                        | 714                 | _             | _              | 3             | _                      |
| Wis.                      | 5,224                        | 203                 | _             | 1              | _             | 2                      |
| W.N. Central              | 18,694                       | 927                 | _             | _              | 5             | 1                      |
| Minn.                     | 4,725                        | 190                 | _             | _              | 1             | _                      |
| Iowa                      | 2,862                        | 75                  | _             | NN             | 1             | _                      |
| Mo.                       | 5,439                        | 443                 | _             | _              | . 3           |                        |
| N. Dak.                   | 638                          | 6                   | _             | _              | NN            | NN                     |
| S. Dak.                   | 738                          | 15<br>72            | _             | _              | _             | _                      |
| Nebr.<br>Kans.            | 1,663<br>2,629               | 126                 | _             | _              | _             | _<br>1                 |
| S. Atlantic               | 48,944                       | 12,194              | 1             | 3              | 9             | 40                     |
| Del.                      | <b>46,944</b><br>744         | 12,194<br>174       | '             | 3              | 1             | 40                     |
| Md.                       | 5,135                        | 1,639               | _             | 1              | 1             |                        |
| D.C.                      | 523                          | 989                 | _             |                |               | _                      |
| Va.                       | 6,791                        | 998                 | 1             | _              | 1             | 7                      |
| W. Va.                    | 1,811                        | 86                  | _             | _              | _             | _                      |
| N.C.                      | 7,546                        | 788                 | _             | 2              | 1             | 9                      |
| S.C.                      | 3,836                        | 777                 | _             | _              | NN            | 19                     |
| Ga.                       | 7,642                        | 1,295               | _             | _              | 2             | 2                      |
| Fla.                      | 14,916                       | 5,448               | _             | _              | 3             | 3                      |
| E.S. Central              | 16,471                       | 1,874               | _             | 4              | 5             | 4                      |
| Ky.                       | 3,936                        | 280                 | _             | 3              | 1             | _                      |
| Tenn.                     | 5,431                        | 695                 | _             | 1              | 2             | _                      |
| Ala.                      | 4,352                        | 484                 | _             | _              | 1             | 1                      |
| Miss.                     | 2,752                        | 415                 | _             | _              | 1             | 3                      |
| W.S. Central              | 30,014                       | 5,406               | _             | 5              | 29            | 42                     |
| Ark.                      | 2,538                        | 203                 | _             | _              | 2<br>1        | 7<br>1                 |
| La.<br>Okla.              | 4,369<br>3,347               | 951<br>285          | _             | _              | 1             |                        |
| Tex.                      | 19,760                       | 3,967               |               | 5              | 26            | 34                     |
| Mountain                  | 16,814                       | 1,632               | 1             | 7              | 3             | 3                      |
| Mont.                     | 880                          | 29                  | 1             | _              | _             | _                      |
| Idaho                     | 1,229                        | 32                  | <u>'</u>      | 1              | 1             | _                      |
| Wyo.                      | 481                          | 6                   | _             | <u>.</u>       | <u>.</u>      | 1                      |
| Colo.                     | 3,971                        | 314                 | _             | 2              | 1             | _                      |
| N. Mex.                   | 1,737                        | 209                 | _             | _              | _             | _                      |
| Ariz.                     | 4,669                        | 645                 | _             | _              | 1             | 2                      |
| Utah                      | 2,100                        | 139                 | _             | 1              | _             | _                      |
| Nev.                      | 1,747                        | 258                 | _             | 3              | _             | _                      |
| Pacific                   | 43,445                       | 6,489               | 18            | 23             | 17            | 9                      |
| Wash.                     | 5,689                        | 441                 | 6             | _              | 3             | 1                      |
| Oreg.                     | 3,282                        | 204                 | _             | 4              | _             | _                      |
| Calif.                    | 32,667                       | 5,654               | 4             | 19             | 12            | 8                      |
| Alaska                    | 614                          | 29<br>161           | 8             | _              | 2             | _                      |
| Hawaii                    | 1,193                        | 161<br>2            |               |                |               |                        |
| Guam<br>P.R.              | 145<br>3,860                 | 1,711               | _             | _              | _             |                        |
| v.i.                      | 114                          | 35                  | NN            | NN             | NN            | _                      |
| American Samoa            | 60                           | _                   | NA            | NA             | NA            | NA                     |
| C.N.M.I.                  | 63                           | _                   | NA            | NA             | NA            | NA                     |

<sup>\*</sup>Total number of acquired immunodeficiency syndrome (AIDS) cases reported to the Division of HIV/AIDS Prevention — Surveillance and Epidemiology, National Center for HIV, STD, and TB Prevention (NCHSTP), through December 31, 1998.

†Totals reported to the Division of Sexually Transmitted Diseases Prevention, NCHSTP, as of July 19, 1999.

§Total includes 210 cases among persons with unknown state of residence.

## NOTIFIABLE DISEASES — Reported cases, by geographic division and area, United States, 1998 — Continued

|                 |                  |              |                   |            | Encepha                       |                |
|-----------------|------------------|--------------|-------------------|------------|-------------------------------|----------------|
| Area            | Chlamydia*       | Cholera      | Cryptosporidiosis | Diphtheria | California<br>serogroup viral | Eastern equine |
| United States   | 604,420          | 17           | 3,793             | 1          | 97                            | 4              |
| New England     | 20,093           | 1            | 152               | _          | _                             | 1              |
| Maine           | 1,073            | _            | 33                | _          | _                             | _              |
| N.H.            | 960              | _            | 18                | _          | _                             | _              |
| Vt.             | 413              |              | 26                | _          | _                             | _              |
| Mass.           | 8,363            | _            | 68                | _          | _                             | _              |
| R.I.            | 2,307            | _            | 7                 | _          | _                             | 1              |
| Conn.           | 6,977            | 1            | NA                | _          | _                             | _              |
| Vlid. Atlantic  | 62,533           | 1            | 580               | _          | _                             | _              |
| Upstate N.Y.    | NN               | _            | 343               | _          | _                             | _              |
| N.Y. City       | 26,218           | 1            | 208<br>29         | _          | _                             | _              |
| N.J.<br>Pa.     | 11,686<br>24,629 | _            | NN<br>NN          | _          | _                             | _              |
| E.N. Central    | 100,984          | <del>_</del> | 737               | _          |                               | 1              |
| Ohio            | 27,786           | _            | 7 <b>5</b>        | _          | 11                            |                |
| Ind.            | 10,801           | _            | 63                |            | 1                             | 1              |
| III.            | 26,363           | _            | 84                | _          | 4                             |                |
| Mich.           | 22,156           | _            | 39                | _          |                               | _              |
| Wis.            | 13,878           | _            | 476               | _          | 8                             | _              |
| V.N. Central    | 35,920           | _            | 374               | _          | 6                             | _              |
| Minn.           | 6,970            | _            | 173               | _          | 4                             | _              |
| lowa            | 5,174            | _            | 66                | _          | 2                             | _              |
| Mo.             | 12,670           |              | 29                | _          | _                             | _              |
| N. Dak.         | 1,036            | _            | 34                | _          | _                             | _              |
| S. Dak.         | 1,572            | _            | 25                | _          | _                             | _              |
| Nebr.           | 2,911            | _            | 36                | _          | _                             | _              |
| Kans.           | 5,587            | _            | 11                | _          | _                             | _              |
| S. Atlantic     | 122,963          | _            | 430               | _          | 53                            | 1              |
| Del.            | 2,608            | _            | 3                 | _          | _                             | _              |
| Md.             | 13,097           | _            | 21                | _          | _                             | _              |
| D.C.            | NN               | _            | 25                | _          | _                             | _              |
| Va.             | 13,561           | _            | 22                | _          | 3                             | 1              |
| W. Va.          | 2,791            | _            | 3                 | _          | 46                            | _              |
| N.C.<br>S.C.    | 22,197<br>18,510 | _            | NN                | _          | 4                             | _              |
| Ga.             | 25,250           | _            | 152               | _          | _                             | _              |
| Fla.            | 24,949           | _            | 204               | _          | _                             | _              |
| S. Central      | 40,837           | _            | 27                | _          | 14                            | _              |
| Ky.             | 6,441            | _            | 10                | _          | 4                             | _              |
| Tenn.           | 13,717           | _            | 11                | _          | 10                            | _              |
| Ala.            | 10,065           | _            | NN                | _          | _                             | _              |
| Miss.           | 10,614           |              | 6                 | _          | _                             | _              |
| N.S. Central    | 89,140           | 3            | 932               | _          | _                             | 1              |
| Ark.            | 4,123            | _            | 6                 | _          | _                             | _              |
| La.             | 15,188           | 3            | 20                | _          | _                             | 1              |
| Okla.           | 9,393            | _            | NN                | _          | _                             | _              |
| Tex.            | 60,436           |              | 906               | _          | _                             | _              |
| /lountain       | 34,096           | 2            | 124               | _          | _                             | _              |
| Mont.           | 1,412            | _            | 10                | _          | _                             | _              |
| ldaho           | 2,035            | _            | 17                | _          | _                             | _              |
| Wyo.            | 725              | _            | 2                 | _          | _                             | _              |
| Colo.           | 9,113            | 1            | 19                | _          | _                             | _              |
| N. Mex.         | 3,793            | _            | 48                | _          | _                             | _              |
| Ariz.           | 11,489           | _            | 19                | _          | _                             | _              |
| Utah            | 2,209            | _            | NN                | _          | _                             | _              |
| Nev.            | 3,320            | 1            | 9                 | _          | _                             | _              |
| acific          | <b>97,854</b>    | 10           | 437               | 1          | NINI                          | NINI           |
| Wash.           | 10,998           | _            | NN<br>70          | _<br>1     | NN<br>NN                      | NN             |
| Oreg.<br>Calif. | 5,855<br>76,490  | 9            | 70<br>363         |            | NN<br>—                       | NN<br>—        |
| Alaska          | 1,907            | 1            | 303<br>1          |            | NN                            | NN             |
| Hawaii          | 2,604            |              | 3                 | _          | NN                            | NN             |
| Guam            | 410              | 2            |                   | _          | —                             |                |
| P.R.            | 1,685            | _            | NN                | _          | _                             | _              |
| V.I.            | 10               | NA           | NA                | NA         | NA                            | NA             |
| American Samoa  | NA               | NA           | NA                | NA         | NA                            | NA             |
| C.N.M.I.        | NA               | NA           | NA                | NA         | NA                            | NA             |

<sup>\*</sup>Chlamydia refers to genital infections caused by *C. trachomatis*. Totals reported to the Division of Sexually Transmitted Diseases Prevention, NCHSTP, as of July 19, 1999.

NOTIFIABLE DISEASES — Reported cases, by geographic division and area, United States, 1998 — Continued

| Area  |               | Encombolitio           | Escherichia | coli O157:H7 |                        | Haemophilus                     |
|---|---------------|------------------------|-------------|--------------|------------------------|---------------------------------|
| New England   | Area          | Encephalitis St. Louis |             |              | Gonorrhea <sup>§</sup> | influenzae,<br>invasive disease |
| New England   | United States | 24                     | 3.161       | 2.172        | 355.642                | 1,194                           |
| N.H.  |               | _                      |             |              |                        | 108                             |
| Vt.         —         21         18         38           Mass.         —         153         164         2,258           R.I.         —         14         1         430           Conn.         NN         67         56         3,177           Mid. Atlantic         —         312         87         38,639           Upstate N.Y.         —         231         —         6,965           N.Y. City         —         14         13         12,097           N.J.         —         67         53         7,858           Pa.         —         NN         21         11,719           Pa.         —         NN         21         11,719           Pa.         —         NN         21         11,719           Molich         —         128         77         18,275           Ind.         —         113         81         21,735           Mich.         —         117         74         16,395           Wis.         —         NN         88         6,351           W.N. Central         —         499         408         17,914           Minn.  | -             | _                      | 37          | _            |                        | 5                               |
| Mass.         —         153         164         2,258         R.I.         1         1         430         Conn.         NN         67         56         3,177         MId. Atlantic         —         312         87         38,639         Upstate N.Y.         —         231         —         6,965         N.Y. City         —         14         13         12,097         N.Y. City         —         14         13         12,097         N.Y. City         —         14         13         12,097         N.Y. City         —         69.65         N.Y. City         —         69.65         N.Y. City         —         69.62         N.Y. City         —         67         53         7,858         P.Pa.         —         N.Y. Sity         —         69.027         DON         11,7179         P.Pa.         —         10.007         11,719         B.Pa.         69.07         III.         11,719         B.Pa.         69.07         III.         11,719         B.Pa.         69.07         III.         11,719         B.Pa.         10,708         III.         11,719         B.Pa.         10,708         III.         11,719         B.Pa.         10,708         III.         10,708         III.         10,708         III. </td <td>N.H.</td> <td>_</td> <td></td> <td>47</td> <td></td> <td>10</td>  | N.H.          | _                      |             | 47           |                        | 10                              |
| R.L. — 14 1 4 30 Conn. NN 67 56 3,177 Mid. Atlantic — 312 87 38,639 Upstate N.Y. — 231 — 6,965 N.Y. City — 14 13 12,097 N.Y. City — 14 13 12,097 N.Y. City — 14 13 12,097 N.Y. City — 67 53 7,858 Pa. — NN 21 11,719 EN. City — 166 54 63,07 lind. — 128 77 18,275 lnd. — 166 54 6,307 lind. — 116 54 6,307 lind. — 116 54 6,307 lind. — 117 74 16,359 Wis. — NN 88 6,351 W.N. Central — 499 408 17,914 Minn. — 209 215 2,708 lowa — 93 60 1,616 Mo. — 55 64 9,463 N.D. Dak. — 12 15 80 S.D. Dak. — 37 40 221 Nebr. Rans. — 36 14 2,622 Nebr. Rans. — 37 40 221 Nebr. Rans. — 36 14 2,622 Nebr. Rans. — 37 40 221 Nebr. Rans. — 36 14 2,622 Nebr. Rans. — 37 40 221 Nebr. Rans. — 36 14 2,622 Nebr. Rans. — 37 40 221 Nebr. Rans. — 36 14 2,622 Nebr. Rans. — 37 40 221 Nebr. Rans. — 36 14 2,622 Nebr. Rans. — 37 40 221 Nebr. Rans. — 38 15 11,254 D.C. — 1 NN 55 9,265 NW Vs. — 14 10 920 Nr. City City City City City City City City  |               | _                      |             |              |                        | 9                               |
| Conn.   NN   67   56   3,177   Mid. Atlantic   312   87   38,639   Upstate N.Y.   |               | _                      |             |              |                        | 42                              |
| Mid. Atlantic   |               |                        |             |              |                        | 9                               |
| Upstate N.Y.   -  |               | ININ                   |             |              |                        | 33                              |
| N.Y. City — 14 13 12,097 N.J. — 67 53 7,868 Pa. — NN 21 11,719 EN. Central — 464 374 69,027 Ohio — 128 77 18,275 Ind. — 1166 54 6,307 III. — 117 74 16,359 Wis. — 117 74 16,359 Wis. — NN 88 6,351 W.N. Central — 499 408 17,914 Minn. — 209 415 2,708 IMM. M. Central — 499 408 17,914 Minn. — 209 215 2,708 IMM. Ohio — 93 60 1,616 IMM. Ohio — 93 60 9,1616 IMM. Ohio — 12 15 80 IMM. Ohio — 12 15 98 IMM. Ohio — 14 15 98 IMM. Ohio — 15 7 40 221 IMM. Ohio — 17 9 98,064 IMM. Ohio — 18 10 11,556 IMM. Ohio — 18 10 11,555 IMM. Ohio — 18 10 11,555 IMM. Ohio — 19 10 11,555 IMM. Ohio — 18 11,555 IMM. Ohio — 18 10 11,555 IMM. Ohio — 18 11,555 IMM. Ohio — |               | _                      |             |              |                        | 196                             |
| N.J. — 67 53 7,858 P. Pa. — NN 21 11,719  E.N. Central — 464 374 69,027  Ohio — 128 77 18,275  Ind. — 106 54 6,307  III. — 113 81 21,735  Mich. — 117 74 16,359  Wis. — NN 88 6,351  W.N. Central — 499 408 17,914  Minn. — 209 215 2,708  Iowa — 93 60 1,616  Mo. — 55 64 9,463  N. Dak. — 12 15 88  S. Dak. — 37 40 221  Nobr. — 57 — 1,204  Kans. — 36 14 2,622  S. Atlantic 2 404 179 98,054  Del. — — 2 1,556  Md. — 43 15 11,254  D.C. — 1 NA 4,508  W. Va. — 14 10 920  N.C. — 186 47 19,230  S.C. — 186 6 6 10,689  W. W. — 36 — 381  In I  |               | _                      |             |              |                        | 81<br>50                        |
| Pa.   |               |                        |             |              |                        | 53                              |
| E.N. Central — 464 374 69,027 Ohio — 128 77 18,275 Ind. — 106 54 6,307 III. — 113 81 21,735 Mich. — 117 74 16,359 Wis. — NN 88 6,351 W.N. Central — 499 408 17,914 Minn. — 209 215 2,708 Ill. — 13 60 1,616 Mo. — 93 60 1,616 Mo. — 93 60 1,616 Mo. — 55 64 9,463 N. Dak. — 12 15 80 S. Dak. — 37 40 221 Nebr. — 57 — 1,204 Kans. — 36 14 2,622 S. Atlantic 2 404 179 98,054 Del. — 2 1,556 Md. — 43 15 11,254 D.C. — 1 NN 55 9,265 W.V. Va. — 14 NN 55 9,265 W.V. Va. — 14 10 920 N.C. — 15 12 11,575 Ga. — 84 — 20,666 Fla. — 2 61 38 19,080 E.S. Central — 20 12,737 Miss. — 6 6 6 10,689 W.S. Central 22 137 108 54,528 La. 18 14 7 12,499 Okla. — 24 20 12,737 Miss. — 6 6 6 10,689 W.S. Central 22 137 108 54,528 M.S. Central 24 20 12,737 Miss. — 6 6 6 10,689 W.S. Central 29 9,157 Mont. — 17 5 55 Idaho — 24 20 9,543 Idaho — 24 20 9,543 Idaho — 26 9 5,243 Idaho — 43 25 182 W.S. Central 22 137 108 54,528 M.S. Central 24 20 9,573 Miss. — 6 6 6 10,689 W.S. Central 29 137 108 54,528 M.S. Central 29 14,445 M.S. Central 31 1,948 Mountain — 75 24 24 14,445 Mountain — 75 22 23 26 Mountain — 143 131 1,948 Mountain — 143 131 1,948 Mash. — 143 131 1,948 Mask. NN 7 — 331 Hawaii NN — 16 506   |               | _                      |             |              |                        | 12                              |
| Ohio         —         128         77         18,275           Ind.         —         106         54         6,307           III.         —         113         81         21,735           Mich.         —         117         74         16,359           Wis.         —         NN         88         6,351           W.N. Central         —         499         408         17,914           Minn.         —         209         215         2,708           Iowa         —         93         60         1,616           Mo.         —         55         64         9,463           N. Dak.         —         12         15         80           S. Dak.         —         12         15         80           S. Dak.         —         37         40         221           Nebr.         —         57         —         1,204           Kans.         —         36         14         2,622           S. Atlantic         2         404         179         98,054           Del.         —         —         2         1,556           Md.         —<   |               | _                      |             |              |                        | 186                             |
| Ind.  |               | _                      |             |              |                        | 48                              |
| III.  |               | _                      |             |              |                        | 51                              |
| Mich.         —         117         74         16,359           W.N. Central         —         499         408         17,914           Minn.         —         209         215         2,708           Iowa         —         93         60         1,616           Mo.         —         55         64         9,463           N. Dak.         —         12         15         80           S. Dak.         —         37         40         221           Nebr.         —         57         —         1,204           Kans.         —         36         14         2,622           S. Atlantic         2         404         179         98,054           Del.         —         —         2         1,556           Md.         —         43         15         11,254           D.C.         —         1         NA         4,508           Va.         —         14         10         90           V. Va.         —         14         10         90           V. Va.         —         186         47         19,230           S. C.         —   |               | _                      |             |              |                        | 67                              |
| W.N. Central         —         499         408         17,914           Minn.         —         209         215         2,708           lowa         —         93         60         1,616           Mo.         —         55         64         9,463           N. Dak.         —         12         15         80           S. Dak.         —         37         40         221           Nebr.         —         57         —         1,204           Kans.         —         36         14         2,622           S. Atlantic         2         404         179         98,054           Del.         —         —         2         1,556           Md.         —         43         15         11,284           D.C.         —         1         NA         4,508           W. Va.         —         14         10         920           N.C.         —         186         47         19,230           S. C.         —         186         47         19,230           S. C.         —         15         12         11,575           Ga.         — <td>Mich.</td> <td>_</td> <td></td> <td>74</td> <td></td> <td>13</td>  | Mich.         | _                      |             | 74           |                        | 13                              |
| Minn.   | Wis.          | _                      | NN          | 88           | 6,351                  | 7                               |
| Dowa  | W.N. Central  | _                      | 499         | 408          | 17,914                 | 104                             |
| Mo.         —         55         64         9.463           N. Dak.         —         12         15         80           S. Dak.         —         37         40         221           Nebr.         —         57         —         1,204           Kans.         —         36         14         2,622           S. Atlantic         2         404         179         98,054           Del.         —         —         2         1,556           Md.         —         —         43         15         11,254           D.C.         —         —         43         15         11,254           D.C.         —         —         14         10         920           N.C.         —         NN         55         9,265           W.Va.         —         144         10         920           N.C.         —         186         47         19,230           S.C.         —         15         12         11,575           Ga.         —         18         12         11,575           Ga.         —         18         12         11,575 <tr< td=""><td>Minn.</td><td>_</td><td>209</td><td>215</td><td>2,708</td><td>77</td></tr<>   | Minn.         | _                      | 209         | 215          | 2,708                  | 77                              |
| N. Dak.   | lowa          | _                      | 93          | 60           | 1,616                  | 5                               |
| S. Dak.       —       37       40       221         Nebr.       —       57       —       1,204         Kans.       —       36       14       2,652         S. Atlantic       2       404       179       98,054         Del.       —       —       2       1,556         Md.       —       43       15       11,254         D.C.       —       1       NA       4,508         Va.       —       NN       55       9,265         W. Va.       —       144       10       920         N.C.       —       186       47       19,230         S.C.       —       15       12       11,575         Ga.       —       84       —       20,666         Fla.       2       61       38       19,080         E.S. Central       —       120       67       39,079         Ky.       —       36       —       3813       19,080         E.S. Central       —       120       67       39,079       67       12,080       66       6       10,689       68       12,073       10       68       6   |               | _                      |             |              |                        | 12                              |
| Nebr.         —         57         —         1,204           Kans.         —         36         14         2,622           S. Atlantic         2         404         179         98,054           Del.         —         —         2         1,556           Md.         —         43         15         11,254           D.C.         —         1         NA         4,508           Va.         —         NN         55         9,265           W. Va.         —         14         10         920           N.C.         —         186         47         19,230           S.C.         —         1186         47         19,230           S.C.         —         118         12         11,575           Ga.         —         84         —         20,666           Fla.         2         61         38         19,080           E.S. Central         —   |               | _                      |             |              |                        | 1                               |
| Kans.       —       36       14       2,622         S. Atlantic       2       404       179       98,054         Del.       —       —       2       1,556         Md.       —       43       15       11,254         D.C.       —       1       NA       4,508         Va.       —       14       10       920         N.C.       —       186       47       19,230         S.C.       —       186       47       19,230         S.C.       —       186       47       19,230         S.C.       —       185       12       11,575       66         Ga.       —       20,666       66       7       19,230         S.C.       —       15       12       11,575       66         Ga.       —       20,666       66       7       38,133         Fla.       2       61       38       19,080       80         E.S. Central       —       120       67       39,079       8         K.Y.       —       36       —       3,813       11,840       11,840       11,840       11,840  |               |                        |             |              |                        | 1                               |
| S. Atlantic         2         404         179         98,054           Del.         —         —         2         1,556           Md.         —         43         15         11,254           D.C.         —         1         NA         4,508           Va.         —         14         10         920           N.C.         —         186         47         19,230           S.C.         —         118         12         11,575           Ga.         —         186         47         19,230           S.C.         —         15         12         11,575           Ga.         —         15         12         11,573           Ga.         —         120         67         39,079           Ky.         —  |               | _                      |             |              |                        | 2                               |
| Del.         —         43         15         11,254           D.C.         —         1         NA         4,508           Va.         —         NN         55         9,265           W. Va.         —         14         10         920           N.C.         —         186         47         19,230           S.C.         —         15         12         11,575           Ga.         —         84         —         20,666           Fla.         2         61         38         19,080           ES. Central         —         120         67         39,079           Ky.         —         36         —         3,813           Tenn.         —         120         67         39,079           Ky.         —         36         —         3,813           Tenn.         —         120         67         39,079           Ky.         —         36         —         3,813           Tenn.         —         120         67         39,079           Ky.         —         36         —         3,813           Tenn.         —   |               | _                      |             |              |                        | 6                               |
| Md.       —       43       15       11/254         D.C.       —       1       NA       4,508         Va.       —       14       10       920         N.C.       —       186       47       19,230         S.C.       —       186       47       19,230         S.C.       —       15       12       11,575         Ga.       —       84       —       20,666         Fla.       2       61       38       19,080         E.S. Central       —       120       67       39,079         Ky.       —       36       —       3,813         Tenn.       —       54       41       11,840         Ala.       —       24       20       12,737         Miss.       —       6       6       10,689         W.S. Central       22       137       108       54,528         Ark.       —       12       10       3,953         La.       18       14       7       12,499         Okla.       —       26       9       5,243         Tex.       4       85       82       <   |               |                        |             |              |                        | 224                             |
| D.C.         —         1         NA         4,508           Va.         —         NN         55         9,265           W. Va.         —         14         10         920           N.C.         —         186         47         19,230           S.C.         —         15         12         11,575           Ga.         —         84         —         20,666           Fla.         2         61         38         19,080           ES. Central         —         120         67         39,079           Ky.         —         36         —         3,813           Tenn.         —         54         41         11,840           Ala.         —         24         20         12,737           Miss.         —         6         6         10,689           W.S. Central         22         137         108         54,528           Ark.         —         12         10         3,953           La.         18         14         7         12,499           Okla.         —         26         9         5,243           Tex.         4   |               | _                      |             |              |                        | 1<br>57                         |
| Va.         —         NN         55         9,265           W. Va.         —         14         10         920           N.C.         —         186         47         19,230           S.C.         —         15         12         11,575           Ga.         —         84         —         20,666           Fla.         2         61         38         19,080           E.S. Central         —         120         67         39,079           Ky.         —         36         —         3,813           Tenn.         —         54         41         11,840           Ala.         —         24         20         12,737           Miss.         —         6         6         10,689           W.S. Central         22         137         108         54,528           Ark.         —         12         10         3,953           La.         18         14         7         12,499           Okla.         —         26         9         5,243           Tex.         4         85         82         32,833           Mountain         — </td <td></td> <td>_</td> <td></td> <td></td> <td></td> <td>57</td>  |               | _                      |             |              |                        | 57                              |
| W.Va.       —       14       10       920         N.C.       —       186       47       19,230         S.C.       —       15       12       11,575         Ga.       —       84       —       20,666         FIa.       2       61       38       19,080         ES. Central       —       120       67       39,079         Ky.       —       36       —       3,813         Tenn.       —       54       41       11,840         Ala.       —       24       20       12,737         Miss.       —       6       6       10,689         W.S. Central       22       137       108       54,528         Ark.       —       12       10       3,953         La.       18       14       7       12,499         Okla.       —       26       9       5,243         Tex.       4       85       82       32,833         Mountain       —       367       249       9,157         Mont.       —       17       5       55         Idaho       —       43       25  |               |                        |             |              |                        | 19                              |
| N.C.       —       186       47       19,230         S.C.       —       15       12       11,575       Ga.         Ga.       —       84       —       20,666       Fla.       2       61       38       19,080         E.S. Central       —       120       67       39,079       Ky.       —       3,813       Tenn.       12,737       Miss.       —       6       6       6       10,689       Menn.       12,737       Miss.       Miss.       Miss.       4,528       Arix.       —       12       10       3,953       As 12,499       9       5,428       Arix.       Arix.       —       12,499   |               |                        |             |              |                        | 7                               |
| S.C.       —       15       12       11,575       Ga.       —       20,666       FIB.       20,666       FIB.       20,666       FIB.       90,079       St. Central       —       120       67       39,079       St. Central       —       36       —       3,813       Tenn.       —       54       41       11,840       Ala.       Ala.       —       24       20       12,737       Miss.       —       6       6       10,689       MS. Central       22       137       108       54,528       Arx.       —       6       6       10,689       MS. Central       22       137       108       54,528       Arx.       —       12       10       3,953       La.       Arx.       —       12       10       3,953       La.       La.       18       14       7       12,499       Okla.       —       26       9       5,243       Tex.       4       85       82       32,833       Mountain       —       367       249       9,157       Mont.       —       17       5       55       Is2       Is2       Wyo.       —       53       55       36       Colo.       Golo.       —       90       69       2   |               | _                      |             |              |                        | 24                              |
| Ga.       —       84       —       20,666         Fla.       2       61       38       19,080         ES. Central       —       120       67       39,079         Ky.       —       36       —       3,813         Tenn.       —       54       41       11,840         Ala.       —       24       20       12,737         Miss.       —       6       6       10,689         W.S. Central       22       137       108       54,528         Ark.       —       12       10       3,953         La.       18       14       7       12,499         Okla.       —       26       9       5,243         Tex.       4       85       82       32,833         Mountain       —       367       249       9,157         Mont.       —       17       5       55         Idaho       —       43       25       182         Wyo.       —       53       55       36         Colo.       —       90       69       2,033         N. Mex.       —       19       20   |               | _                      |             |              |                        | 3                               |
| E.S. Central         —         120         67         39,079           Ky.         —         36         —         3,813           Tenn.         —         54         41         11,840           Ala.         —         24         20         12,737           Miss.         —         6         6         10,689           W.S. Central         22         137         108         54,528           Ark.         —         12         10         3,953           La.         18         14         7         12,499           Okla.         —         26         9         5,243           Tex.         4         85         82         32,833           Mountain         —         367         249         9,157           Mont.         —         17         5         55           Idaho         —         43         25         182           Wyo.         —         53         55         36           Colo.         —         90         69         2,033           N. Mex.         —         19         20         957           Ariz.         —  | Ga.           | _                      | 84          | _            |                        | 69                              |
| Ky.         —         36         —         3,813           Tenn.         —         54         41         11,840           Ala.         —         24         20         12,737           Miss.         —         6         6         10,689           W.S. Central         22         137         108         54,528           Ark.         —         12         10         3,953           La.         18         14         7         12,499           Okla.         —         26         9         5,243           Tex.         4         85         82         32,833           Mountain         —         367         249         9,157           Mont.         —         17         5         55           Idaho         —         43         25         182           Wyo.         —         53         55         36           Colo.         —         90         69         2,033           N. Mex.         —         19         20         957           Ariz.         —         46         29         4,213           Utah         — <t< td=""><td>Fla.</td><td>2</td><td>61</td><td>38</td><td>19,080</td><td>44</td></t<>   | Fla.          | 2                      | 61          | 38           | 19,080                 | 44                              |
| Tenn.         —         54         41         11,840           Ala.         —         24         20         12,737           Miss.         —         6         6         10,689           W.S. Central         22         137         108         54,528           Ark.         —         12         10         3,953           La.         18         14         7         12,499           Okla.         —         26         9         5,243           Tex.         4         85         82         32,833           Mountain         —         367         249         9,157           Mont.         —         17         5         55           Idaho         —         43         25         182           Wyo.         —         53         55         36           Colo.         —         90         69         2,033           N. Mex.         —         19         20         957           Ariz.         —         46         29         4,213           Utah         —         75         22         236           Nev.         — <t< td=""><td>E.S. Central</td><td>_</td><td>120</td><td>67</td><td>39,079</td><td>64</td></t<>  | E.S. Central  | _                      | 120         | 67           | 39,079                 | 64                              |
| Ala.       —       24       20       12,737         Miss.       —       6       6       10,689         W.S. Central       22       137       108       54,528         Ark.       —       12       10       3,953         La.       18       14       7       12,499         Okla.       —       26       9       5,243         Tex.       4       85       82       32,833         Mountain       —       367       249       9,157         Mont.       —       17       5       55         Idaho       —       17       5       55         Idaho       —       43       25       182         Wyo.       —       53       55       36         Colo.       —       90       69       2,033         N. Mex.       —       19       20       957         Ariz.       —       46       29       4,213         Utah       —       75       22       236         Nev.       —       24       24       1,445         Pacific       —       518       414       23,18   | Ky.           | _                      | 36          | _            | 3,813                  | 7                               |
| Miss.         —         6         6         10,689           W.S. Central         22         137         108         54,528           Ark.         —         12         10         3,953           La.         18         14         7         12,499           Okla.         —         26         9         5,243           Tex.         4         85         82         32,833           Mountain         —         367         249         9,157           Mont.         —         17         5         55           Idaho         —         17         5         55           Idaho         —         43         25         182           Wyo.         —         53         55         36           Colo.         —         90         69         2,033           N. Mex.         —         19         20         957           Ariz.         —         46         29         4,213           Utah         —         75         22         236           Nev.         —         24         24         1,445           Pacific         —         5   |               | _                      |             |              |                        | 38                              |
| W.S. Central         22         137         108         54,528           Ark.         —         12         10         3,953           La.         18         14         7         12,499           Okla.         —         26         9         5,243           Tex.         4         85         82         32,833           Mountain         —         367         249         9,157           Mont.         —         17         5         55           Idaho         —         43         25         182           Wyo.         —         53         55         36           Colo.         —         90         69         2,033           N. Mex.         —         19         20         957           Ariz.         —         46         29         4,213           Utah         —         75         22         236           Nev.         —         24         24         1,445           Pacific         —         518         414         23,183           Wash.         —         143         131         1,948           Oreg.         NN  |               |                        |             |              |                        | 16                              |
| Ark.       —       12       10       3,953         La.       18       14       7       12,499         Okla.       —       26       9       5,243         Tex.       4       85       82       32,833         Mountain       —       367       249       9,157         Mont.       —       17       5       55         Idaho       —       43       25       182         Wyo.       —       53       55       36         Colo.       —       90       69       2,033         N. Mex.       —       19       20       957         Ariz.       —       46       29       4,213         Utah       —       75       22       236         Nev.       —       24       24       1,445         Pacific       —       518       414       23,183         Wash.       —       143       131       1,948         Oreg.       NN       107       102       880         Calif.       —       261       165       19,518         Alaska       NN       7       —       331   |               |                        |             |              |                        | 3                               |
| La.       18       14       7       12,499         Okla.       —       26       9       5,243         Tex.       4       85       82       32,833         Mountain       —       367       249       9,157         Mont.       —       17       5       55         Idaho       —       43       25       182         Wyo.       —       53       55       36         Colo.       —       90       69       2,033         N. Mex.       —       19       20       957         Ariz.       —       46       29       4,213         Utah       —       75       22       236         Nev.       —       24       24       1,445         Pacific       —       518       414       23,183         Wash.       —       143       131       1,948         Oreg.       NN       107       102       880         Calif.       —       261       165       19,518         Alaska       NN       7       —       331         Hawaii       NN       —       16       506   |               | 22                     |             |              | •                      | 68                              |
| Okla.         —         26         9         5,243           Tex.         4         85         82         32,833           Mountain         —         367         249         9,157           Mont.         —         17         5         55           Idaho         —         17         5         55           Idaho         —         43         25         182           Wyo.         —         53         55         36           Colo.         —         90         69         2,033           N. Mex.         —         19         20         957           Ariz.         —         46         29         4,213           Utah         —         75         22         236           Nev.         —         24         24         1,445           Pacific         —         518         414         23,183           Wash.         —         143         131         1,948           Oreg.         NN         107         102         880           Calif.         —         261         165         19,518           Alaska         NN         <   |               |                        |             |              |                        |                                 |
| Tex.         4         85         82         32,833           Mountain         —         367         249         9,157           Mont.         —         17         5         55           Idaho         —         17         5         55           Idaho         —         43         25         182           Wyo.         —         53         55         36           Colo.         —         90         69         2,033           N. Mex.         —         19         20         957           Ariz.         —         46         29         4,213           Utah         —         75         22         236           Nev.         —         24         24         1,445           Pacific         —         518         414         23,183           Wash.         —         143         131         1,948           Oreg.         NN         107         102         880           Calif.         —         261         165         19,518           Alaska         NN         7         —         331           Hawaii         NN <t< td=""><td></td><td></td><td></td><td></td><td></td><td>29</td></t<>  |               |                        |             |              |                        | 29                              |
| Mountain         —         367         249         9,157           Mont.         —         17         5         55           Idaho         —         43         25         182           Wyo.         —         53         55         36           Colo.         —         90         69         2,033           N. Mex.         —         19         20         957           Ariz.         —         46         29         4,213           Utah         —         75         22         236           Nev.         —         24         24         1,445           Pacific         —         518         414         23,183           Wash.         —         143         131         1,948           Oreg.         NN         107         102         880           Calif.         —         261         165         19,518           Alaska         NN         7         —         331           Hawaii         NN         —         16         506           Guam         —         NN         NA         72   |               |                        |             |              |                        | 36                              |
| Mont.     —     17     5     55       Idaho     —     43     25     182       Wyo.     —     53     55     36       Colo.     —     90     69     2,033       N. Mex.     —     19     20     957       Ariz.     —     46     29     4,213       Utah     —     75     22     236       Nev.     —     24     24     1,445       Pacific     —     518     414     23,183       Wash.     —     143     131     1,948       Oreg.     NN     107     102     880       Calif.     —     261     165     19,518       Alaska     NN     7     —     331       Hawaii     NN     —     16     506       Guam     —     NN     NA     72  |               | 4                      |             |              |                        | 3                               |
| Idaho     —     43     25     182       Wyo.     —     53     55     36       Colo.     —     90     69     2,033       N. Mex.     —     19     20     957       Ariz.     —     46     29     4,213       Utah     —     75     22     236       Nev.     —     24     24     1,445       Pacific     —     518     414     23,183       Wash.     —     143     131     1,948       Oreg.     NN     107     102     880       Calif.     —     261     165     19,518       Alaska     NN     7     —     331       Hawaii     NN     —     16     506       Guam     —     NN     NA     72  |               | _                      |             |              | •                      | 127                             |
| Wyo.     —     53     55     36       Colo.     —     90     69     2,033       N. Mex.     —     19     20     957       Ariz.     —     46     29     4,213       Utah     —     75     22     236       Nev.     —     24     24     1,445       Pacific     —     518     414     23,183       Wash.     —     143     131     1,948       Oreg.     NN     107     102     880       Calif.     —     261     165     19,518       Alaska     NN     7     —     331       Hawaii     NN     —     16     506       Guam     —     NN     NA     72  |               | _                      |             |              |                        |                                 |
| Cólo.         —         90         69         2,033           N. Mex.         —         19         20         957           Ariz.         —         46         29         4,213           Utah         —         75         22         236           Nev.         —         24         24         1,445           Pacific         —         518         414         23,183           Wash.         —         143         131         1,948           Oreg.         NN         107         102         880           Calif.         —         261         165         19,518           Alaska         NN         7         —         331           Hawaii         NN         —         16         506           Guam         —         NN         NA         72  |               | _                      |             |              |                        | 1                               |
| N. Mex.     —     19     20     957       Ariz.     —     46     29     4,213       Utah     —     75     22     236       Nev.     —     24     24     1,445       Pacific     —     518     414     23,183       Wash.     —     143     131     1,948       Oreg.     NN     107     102     880       Calif.     —     261     165     19,518       Alaska     NN     7     —     331       Hawaii     NN     —     16     506       Guam     —     NN     NA     72  |               |                        |             |              |                        | 21                              |
| Ariz.     —     46     29     4,213       Utah     —     75     22     236       Nev.     —     24     24     1,445       Pacific     —     518     414     23,183       Wash.     —     143     131     1,948       Oreg.     NN     107     102     880       Calif.     —     261     165     19,518       Alaska     NN     7     —     331       Hawaii     NN     —     16     506       Guam     —     NN     NA     72  |               | _                      |             |              |                        | 8                               |
| Utah         —         75         22         236           Nev.         —         24         24         1,445           Pacific         —         518         414         23,183           Wash.         —         143         131         1,948           Oreg.         NN         107         102         880           Calif.         —         261         165         19,518           Alaska         NN         7         —         331           Hawaii         NN         —         16         506           Guam         —         NN         NA         72  |               | _                      |             |              |                        | 69                              |
| Nev.         —         24         24         1,445           Pacific         —         518         414         23,183           Wash.         —         143         131         1,948           Oreg.         NN         107         102         880           Calif.         —         261         165         19,518           Alaska         NN         7         —         331           Hawaii         NN         —         16         506           Guam         —         NN         NA         72   |               | _                      |             |              |                        | 7                               |
| Pacific         —         518         414         23,183           Wash.         —         143         131         1,948           Oreg.         NN         107         102         880           Calif.         —         261         165         19,518           Alaska         NN         7         —         331           Hawaii         NN         —         16         506           Guam         —         NN         NA         72  |               | _                      |             |              |                        | 19                              |
| Wash.     —     143     131     1,948       Oreg.     NN     107     102     880       Calif.     —     261     165     19,518       Alaska     NN     7     —     331       Hawaii     NN     —     16     506       Guam     —     NN     NA     72   | Pacific       | _                      | 518         | 414          |                        | 117                             |
| Oreg.         NN         107         102         880           Calif.         —         261         165         19,518           Alaska         NN         7         —         331           Hawaii         NN         —         16         506           Guam         —         NN         NA         72   | Wash.         | _                      | 143         | 131          |                        | 11                              |
| Alaska     NN     7     —     331       Hawaii     NN     —     16     506       Guam     —     NN     NA     72  | Oreg.         | NN                     | 107         | 102          | 880                    | 42                              |
| Hawaii         NN         —         16         506           Guam         —         NN         NA         72  |               |                        |             |              |                        | 50                              |
| Guam — NN NA 72   |               |                        |             |              |                        | 4                               |
|   |               |                        |             |              |                        | 10                              |
|   |               | _                      |             |              |                        | _                               |
|   | P.R.          |                        | 5           | NA           | 400                    | 2                               |
| V.I.         NA         NA         NA         39           American Samoa         NA         NN         NA         NA   |               |                        |             |              |                        | NA<br>NA                        |
| American Samoa         NA         NN         NA         NA           C.N.M.I.         NA         NN         NA         NA   |               |                        |             |              |                        | NA<br>NA                        |

<sup>\*</sup>National Electronic Telecommunications System for Surveillance.

†Public Health Laboratory Information System. Totals reported to the National Center for Infectious Diseases as of August 26, 1999.

§Totals reported to the Division of Sexually Transmitted Diseases Prevention, NCHSTP, as of July 19, 1999.

NOTIFIABLE DISEASES — Reported cases, by geographic division and area, United States, 1998 — Continued

|                   | Hansen               |            | Hepatitis  |                    |               |                 |
|-------------------|----------------------|------------|------------|--------------------|---------------|-----------------|
| Area              | disease<br>(leprosy) | A          | В          | C; non-A,<br>non-B | Legionellosis | Lyme<br>disease |
| United States     | 108                  | 23,229     | 10,258     | 3,518              | 1,355         | 16,801          |
| New England       | 1                    | 299        | 230        | 61                 | 98            | 5,056           |
| Maine             | NN                   | 20         | 5          | _                  | 1             | 78              |
| N.H.              | _                    | 19         | 21         | _                  | 7             | 45              |
| Vt.               | NN                   | 17         | 10         | 6                  | 7             | 11              |
| Mass.             | <del>-</del>         | 126        | 81         | 51                 | 34            | 699             |
| R.I.              | 1                    | 18         | 75         | 4                  | 26            | 789             |
| Conn.             | _                    | 99         | 38         |                    | 23            | 3,434           |
| Mid. Atlantic     | 7                    | 1,726      | 1,249      | 246                | 332           | 9,311           |
| Upstate N.Y.      | 3                    | 376        | 262        | 124                | 113           | 4,409           |
| N.Y. City<br>N.J. | 4                    | 591<br>343 | 423<br>205 | NA                 | 37<br>18      | 231<br>1,911    |
| Pa.               | NN                   | 416        | 359        | 122                | 164           | 2,760           |
| E.N. Central      |                      | 3,715      | 1,414      | 673                | <b>420</b>    | 774             |
| Ohio              |                      | 398        | 77         | 8                  | 133           | 47              |
| Ind.              | _                    | 174        | 117        | 6                  | 83            | 39              |
| III.              | _                    | 821        | 230        | 41                 | 54            | 14              |
| Mich.             | _                    | 2,135      | 476        | 470                | 82            | 17              |
| Wis.              | NN                   | 187        | 514        | 148                | 68            | 657             |
| W.N. Central      | 4                    | 1,362      | 438        | 52                 | 80            | 317             |
| Minn.             | _                    | 145        | 71         | 20                 | 12            | 261             |
| lowa              | 1                    | 400        | 55         | 8                  | 11            | 27              |
| Mo.               | _                    | 637        | 252        | 15                 | 18            | 12              |
| N. Dak.           | NN                   | 4          | 4          | _                  | _             | _               |
| S. Dak.           | 1                    | 40         | 4          | _                  | 7             | _               |
| Nebr.             | 2                    | 27         | 24         | 5                  | 21            | 4               |
| Kans.             | _                    | 109        | 28         | 4                  | 11            | 13              |
| S. Atlantic       | 6                    | 2,395      | 1,323      | 197                | 170           | 977             |
| Del.              | _                    | 6          | 4          | 23                 | 13            | 77              |
| Md.<br>D.C.       | _                    | 416<br>66  | 143<br>19  | 23                 | 38<br>9       | 659             |
| Va.               | _                    | 226        | 109        | 13                 | 9<br>27       | 8<br>73         |
| W. Va.            | NN                   | 9          | 14         | 9                  | NN            | 13              |
| N.C.              | 2                    | 128        | 243        | 26                 | 14            | 63              |
| S.C.              | _                    | 54         | 65         | 20                 | 12            | 8               |
| Ga.               | NN                   | 879        | 209        | 9                  | 8             | 5               |
| Fla.              | 4                    | 611        | 517        | 97                 | 49            | 71              |
| E.S. Central      | 1                    | 416        | 512        | 284                | 66            | 115             |
| Ky.               | _                    | 32         | 49         | 23                 | 27            | 27              |
| Tenn.             | 1                    | 234        | 294        | 173                | 23            | 47              |
| Ala.              | _                    | 81         | 75         | 5                  | 9             | 24              |
| Miss.             | _                    | 69         | 94         | 83                 | 7             | 17              |
| W.S. Central      | 28                   | 4,461      | 2,466      | 655                | 42            | 68              |
| Ark.              | _                    | 82         | 115        | 30                 | 2             | .8              |
| La.               |                      | 174        | 219        | 137                | 6             | 15              |
| Okla.             | NN                   | 667        | 172        | 25                 | 17            | 13              |
| Tex.              | 28                   | 3,538      | 1,960      | 463                | 17            | 32              |
| Mountain          | _                    | 3,134      | 813        | 387                | 78            | 19              |
| Mont.             | _                    | 96         | 8          | 8<br>87            | 2<br>3        |                 |
| ldaho<br>Wyo.     | _                    | 235<br>37  | 49<br>11   | 102                | 3<br>1        | 1               |
| Colo.             |                      | 345        | 102        | 32                 | 20            | _'              |
| N. Mex.           | _                    | 155        | 311        | 97                 | 2             | 4               |
| Ariz.             | _                    | 1,843      | 185        | 19                 | 21            | 1               |
| Utah              | _                    | 196        | 66         | 22                 | 21            |                 |
| Nev.              | _                    | 227        | 81         | 20                 | 8             | 6               |
| Pacific           | 61                   | 5,721      | 1,813      | 963                | 69            | 164             |
| Wash.             | _                    | 1,037      | 136        | 29                 | 15            | 7               |
| Oreg.             | 4                    | 435        | 201        | 21                 | NN            | 21              |
| Calif.            | 38                   | 4,178      | 1,445      | 859                | 52            | 135             |
| Alaska            | _                    | 17         | 13         | _                  | 1             | 1               |
| Hawaii            | 19                   | 54         | 18         | 54                 | 1             | NN              |
| Guam              | 3                    | _1         | 2          | 1                  | 2             | . 1             |
| P.R.              | <u> </u>             | 94         | 276        |                    | <u> </u>      | NN              |
| V.I.              | NA                   | NA         | NA         | NA                 | NA            | NA              |
| American Samoa    | NA<br>NA             | NA<br>NA   | NA<br>NA   | NA                 | NA<br>NA      | NA<br>NA        |
| C.N.M.I.          | NA                   | NA         | NA         | NA                 | NA            | NA              |

NOTIFIABLE DISEASES — Reported cases, by geographic division and area, United States, 1998 — Continued

|                   |           | Mea              | sles          | Meningo-<br>coccal |           |                |
|-------------------|-----------|------------------|---------------|--------------------|-----------|----------------|
| Area              | Malaria   | Indigenous       | Imported*     | disease            | Mumps     | Pertussis      |
| United States     | 1,611     | 74               | 26            | 2,725              | 666       | 7,405          |
| New England       | 98        | 1                | 2             | 123                | 10        | 1,114          |
| Maine             | 5         | _                | _             | 8                  | _         | 5              |
| N.H.<br>Vt.       | 6<br>2    | _                | _<br>1        | 13<br>5            | _         | 149            |
| Mass.             | 27        | <br>1            | 1             | 5<br>59            | 6         | 80<br>805      |
| R.I.              | 15        | <u>.</u>         | <u>.</u>      | 8                  | 1         | 21             |
| Conn.             | 43        | _                | _             | 30                 | 3         | 54             |
| Mid. Atlantic     | 426       | 11               | 5             | 295                | 207       | 695            |
| Upstate N.Y.      | 93<br>240 | 3                | 1             | 84<br>35           | 14<br>167 | 352<br>54      |
| N.Y. City<br>N.J. | 58        | <del></del><br>7 | <br>1         | 60                 | 6         | 29             |
| Pa.               | 35        | 1                | 3             | 116                | 20        | 260            |
| E.N. Central      | 147       | 12               | 4             | 399                | 82        | 919            |
| Ohio              | 15        | _                | 1             | 143                | 29        | 299            |
| Ind.              | 11        | 2                | 1             | 74                 | 7         | 185            |
| III.<br>Mich.     | 59<br>50  | 1<br>9           | _<br>1        | 104<br>44          | 10<br>33  | 173<br>71      |
| Wis.              | 12        | <del>-</del>     | 1             | 34                 | 3         | 191            |
| W.N. Central      | 110       | _                | <u>'</u>      | 231                | 34        | 756            |
| Minn.             | 71        | _                | _             | 37                 | 13        | 439            |
| lowa              | 8         | _                | _             | 46                 | 11        | 78             |
| Mo.               | 15        | _                | _             | 80                 | 4         | 59             |
| N. Dak.           | 3<br>1    | _                | _             | 5<br>9             | 2         | 46<br>8        |
| S. Dak.<br>Nebr.  | 2         | _                |               | 9<br>17            | _         | o<br>21        |
| Kans.             | 10        | _                | _             | 37                 | 4         | 105            |
| S. Atlantic       | 349       | 4                | 5             | 482                | 57        | 380            |
| Del.              | 3         | _                | 1             | 2                  | _         | 5              |
| Md.               | 89        | _                | 1             | 35                 | _         | 66             |
| D.C.              | 19        | _                | _             | 4                  | _         | 1              |
| Va.<br>W. Va.     | 61<br>2   | _                | <u>2</u><br>— | 49<br>19           | 13<br>—   | 56<br>7        |
| N.C.              | 30        | 1                | _             | 59                 | 12        | 112            |
| S.C.              | 6         | <u>.</u>         | _             | 57                 | 8         | 29             |
| Ga.               | 43        | 1                | 1             | 102                | 2         | 38             |
| Fla.              | 96        | 2                | _             | 155                | 22        | 66             |
| E.S. Central      | 35        | _                | 2             | 205                | 19        | 168            |
| Ky.<br>Tenn.      | 7<br>17   | _                | <u> </u>      | 38<br>75           | 1<br>2    | 95<br>40       |
| Ala.              | 6         | _                | i             | 55                 | 9         | 27             |
| Miss.             | 5         | _                | _             | 37                 | 7         | 6              |
| W.S. Central      | 101       | _                | _             | 338                | 67        | 427            |
| Ark.              | 2         | _                | _             | 31                 | 13        | 93             |
| La.               | 17        | _                | _             | 69                 | 8         | 13             |
| Okla.<br>Tex.     | 4<br>78   | _                | _             | 44<br>194          | 4<br>42   | 33<br>288      |
| Mountain          | <b>68</b> | 9                | 2             | 157                | 40        | 1.324          |
| Mont.             | 1         | _                | _             | 5                  | _         | 1,324          |
| ldaho             | 8         | _                | _             | 14                 | 7         | 263            |
| Wyo.              | _         | _                | _             | 8                  | 1         | 8              |
| Colo.             | 18        | _                | _             | 31                 | . 7       | 357            |
| N. Mex.           | 12<br>15  | 9                | _             | 26                 | NN        | 100            |
| Ariz.<br>Utah     | 15<br>2   | 9                | 2             | 48<br>15           | 6<br>5    | 241<br>297     |
| Nev.              | 12        | _                | _             | 10                 | 14        | 41             |
| Pacific           | 277       | 37               | 6             | 495                | 150       | 1,622          |
| Wash.             | 30        | _                | 1             | 77                 | 11        | 407            |
| Oreg.             | 17        | _                | <del>-</del>  | 91                 | NN        | 89             |
| Calif.            | 217       | 5                | 4             | 319                | 110       | 1,085          |
| Alaska            | 4<br>9    | 32               | 1             | 3<br>5             | 3<br>26   | 15<br>26       |
| Hawaii<br>Guam    | 2         |                  |               | 2                  | 5         | <u>26</u><br>1 |
| P.R.              | 1         | _                |               | 11                 | 7         | 10             |
| V.I.              | NA        | NA               | NA            | NA                 | NÁ        | NA             |
| American Samoa    | NA        | NA               | NA            | NA                 | NA        | NA             |
| C.N.M.I.          | NA        | NA               | NA            | NA                 | NA        | NA             |

<sup>\*</sup>Imported cases include only those resulting from importation from other countries.

## NOTIFIABLE DISEASES — Reported cases, by geographic division and area, United States, 1998 — Continued

|                        |          | Polio-<br>myelitis, |                | Rai               | bies     |                 |
|------------------------|----------|---------------------|----------------|-------------------|----------|-----------------|
| Area                   | Plague   | paralytic           | Psittacosis    | Animal            | Human    | RMSF*           |
| United States          | 9        | 1                   | 47             | 7,259             | 1        | 365             |
| New England            | _        | _                   | 1              | 1,452             | _        | 2               |
| Maine                  | _        | _                   | <del>-</del>   | 241               | _        | _               |
| N.H.                   | _        | _                   | 1              | 83                | _        | _               |
| Vt.<br>Mass.           | _        | _                   | _              | 72<br>498         | _        | _               |
| R.I.                   | _        | _                   | _              | 103               | _        | _               |
| Conn.                  | _        | _                   | NN             | 455               | _        | 2               |
| Mid. Atlantic          | _        | _                   | 18             | 1,609             | _        | 38              |
| Upstate N.Y.           | _        | _                   | 5              | 1,095             | _        | 11              |
| N.Y. City              | _        | _                   | _              | NA                | _        | 2               |
| N.J.                   | _        | _                   | _              | 224               | _        | 12              |
| Pa.<br>E.N. Central    | _        | _<br>1              | 13<br><b>6</b> | 290<br><b>127</b> | _        | 13<br><b>22</b> |
| Ohio                   | _        |                     | <u> </u>       | 59                | _        | 22<br>12        |
| Ind.                   | _        | 1                   |                | 12                | _        | 6               |
| III.                   | _        | <u>.</u>            | 1              | NN                | _        | 1               |
| Mich.                  | _        | _                   | 3              | 37                | _        | 3               |
| Wis.                   | NN       | NN                  | _              | 19                | _        | _               |
| W.N. Central           | _        | _                   | 2              | 741               | _        | 16              |
| Minn.                  | _        | _                   | 2              | 119               | _        | 1               |
| lowa                   | _        | _                   | _              | 153               | _        | 2               |
| Mo.<br>N. Dak.         | _        | _                   | _              | 42<br>155         | _        | 5<br>2          |
| S. Dak.                | _        | _                   | _              | 166               | _        | _               |
| Nebr.                  | _        | _                   | _              | 7                 | _        | 3               |
| Kans.                  | _        | _                   | _              | 99                | _        | 3               |
| S. Atlantic            | _        | _                   | 4              | 2,350             | 1        | 148             |
| Del.                   | _        | _                   | _              | 49                | _        |                 |
| Md.                    | _        | _                   | _              | 439               | _        | 18              |
| D.C.<br>Va.            | _        | _                   | <u>_</u>       | 10<br>549         | <u> </u> | <br>14          |
| W. Va.                 | _        | _                   |                | 77                |          | 4               |
| N.C.                   | _        | _                   | _              | 555               | _        | 71              |
| S.C.                   | _        | _                   | _              | 147               | _        | 34              |
| Ga.                    | _        | _                   | _              | 309               | _        | 4               |
| Fla.                   | _        | _                   | 3              | 215               | _        | 3               |
| E.S. Central           | _        | _                   | _              | 278               |          | 58              |
| Ky.<br>Tenn.           | _        | _                   | _              | 32<br>142         | NN       | 6<br>27         |
| Ala.                   | NN       | _                   | _              | 102               | _        | 11              |
| Miss.                  | _        | _                   | _              | 2                 | _        | 14              |
| W.S. Central           | _        | _                   | _              | 35                | _        | 72              |
| Ark.                   | _        | _                   | _              | 35                | _        | 23              |
| La.                    | _        | _                   | _              | _                 | _        | 5               |
| Okla.                  | _        | _                   | NN             | NN                | _        | 41              |
| Tex.                   | _        | _                   | NN             |                   | _        | 3               |
| Mountain               | 8        | _                   | 7              | 251               | _        | 8               |
| Mont.<br>Idaho         | _        | _                   | <u> </u>       | 56<br>NN          | _        | 1<br>1          |
| Wyo.                   | _        | _                   | 1              | 66                | _        |                 |
| Colo.                  | 1        | _                   | 2              | 42                | _        | 2               |
| N. Mex.                | 6        | _                   | _              | 6                 | _        | 2               |
| Ariz.                  | 1        | _                   | _              | 48                | _        | _               |
| Utah                   | _        | _                   | _              | 27                | _        | 1               |
| Nev.                   | _        | _                   | _              | 6                 | _        | 1               |
| Pacific<br>Wash.       | 1        | _                   | <b>9</b><br>3  | 416               | _        | 1               |
| Oreg.                  | _        | _                   | _              | <del>_</del> 7    | _        | _               |
| Calif.                 | 1        | _                   | 6              | 384               | _        | 1               |
| Alaska                 | _        | _                   | _              | 25                | _        | NN              |
| Hawaii                 | _        |                     |                |                   | _        | NN              |
| Guam                   |          | _                   | _              | _                 | _        |                 |
| P.R.                   |          |                     |                | 52                |          | NN              |
| V.I.<br>American Samoa | NA<br>NA | NA<br>NA            | NA<br>NA       | NA<br>NA          | NA<br>NA | NA<br>NA        |
| C.N.M.I.               | NA<br>NA | NA<br>NA            | NA<br>NA       | NA<br>NA          | NA<br>NA | NA<br>NA        |

<sup>\*</sup>Rocky Mountain spotted fever.

NOTIFIABLE DISEASES — Reported cases, by geographic division and area, United States, 1998 — Continued

|                            | Rube                | lla            |                |              |                           | hilis*                 |
|----------------------------|---------------------|----------------|----------------|--------------|---------------------------|------------------------|
| Area                       | Congenital syndrome | Rubella        | Salmonellosis  | Shigellosis  | Congenital<br>(age <1 yr) | Primary &<br>secondary |
| United States              | 7                   | 364            | 43,694         | 23,626       | 801                       | 6,993                  |
| New England                | <u>.</u>            | 38             | 2,508          | 413          | 2                         | 80                     |
| Maine                      | _                   | _              | 165            | 14           | _                         | 1                      |
| N.H.                       |                     | _              | 187            | 18           | _                         | 2                      |
| Vt.                        | NN                  | <br>8          | 144            | 7            |                           | 4<br>46                |
| Mass.<br>R.I.              | _                   | 1              | 1,312<br>159   | 266<br>37    |                           | 1                      |
| Conn.                      | _                   | 29             | 541            | 71           | _                         | 26                     |
| Vlid. Atlantic             | 3                   | 150            | 6,767          | 2,412        | 163                       | 324                    |
| Upstate N.Y.               | _                   | 114            | 1,680          | 678          | 13                        | 38                     |
| N. Y. City                 | 3                   | 20             | 1,895          | 710          | 43                        | 81                     |
| N.J.<br>Pa.                | _                   | 14<br>2        | 1,476<br>1,716 | 662<br>362   | 86<br>21                  | 107<br>98              |
| E.N. Central               | _                   | 2              | 6,279          | 3,037        | 97                        | 1,044                  |
| Ohio                       | _                   | _              | 1,491          | 566          | 4                         | 134                    |
| Ind.                       | _                   | _              | 685            | 180          | _                         | 215                    |
| III.                       | _                   | 1              | 1,921          | 1,573        | 71                        | 424                    |
| Mich.                      | . <del></del>       | 1              | 1,169          | 279          | 16                        | 211                    |
| Wis.                       | NN                  | _              | 1,013          | 439          | 6                         | 60                     |
| W.N. Central               | _                   | 41             | 2,361          | 1,119        | 15                        | 146                    |
| Minn.                      | _                   | _              | 601<br>375     | 331<br>69    | _                         | 9<br>5                 |
| Iowa<br>Mo.                | _                   |                | 632            | 221          | <br>15                    | 109                    |
| N. Dak.                    | _                   | _              | 68             | 11           | _                         | _                      |
| S. Dak.                    | _                   | _              | 132            | 33           | _                         | 1                      |
| Nebr.                      | _                   | _              | 190            | 372          | _                         | 8                      |
| Kans.                      | _                   | 39             | 363            | 82           | _                         | 14                     |
| S. Atlantic                | 1                   | <b>22</b><br>— | 9,326          | 4,727        | 184                       | 2,523                  |
| Del.<br>Md.                | _                   | <u> </u>       | 79<br>931      | 46<br>202    |                           | 21<br>648              |
| D.C.                       | _                   |                | 84             | 37           | 8                         | 81                     |
| Va.                        | _                   | 1              | 1,135          | 200          | 4                         | 149                    |
| W. Va.                     | _                   | <del></del>    | 181            | 11           | <del></del>               | 3                      |
| N.C.                       | _                   | 16             | 1,309          | 372          | 24                        | 723                    |
| S.C.<br>Ga.                | 1                   | _              | 667<br>1,839   | 198<br>1,138 | 19<br>14                  | 271<br>333             |
| Fla.                       | _                   | 4              | 3,101          | 2,523        | 71                        | 294                    |
| E.S. Central               | _                   | 2              | 2,363          | 1,734        | 38                        | 1,208                  |
| Ky.                        | _                   | _              | 364            | 158          | 5                         | 106                    |
| Tenn.                      | _                   | 2              | 624            | 1,062        | 9                         | 567                    |
| Ala.                       | _                   | _              | 695            | 459          | 9                         | 274                    |
| Miss.                      | _                   | NN             | 680            | 55<br>5 005  | 15                        | 261                    |
| W.S. Central               | 3                   | 90             | 5,381          | 5,295        | 155                       | 1,079                  |
| Ark.<br>La.                | _                   | <u>_</u>       | 616<br>863     | 211<br>384   | 30<br>8                   | 108<br>430             |
| Okla.                      | _                   |                | 501            | 712          | 15                        | 98                     |
| Tex.                       | 3                   | 89             | 3,401          | 3,988        | 102                       | 443                    |
| Mountain                   | _                   | 6              | 2,601          | 1,323        | 27                        | 231                    |
| Mont.                      | _                   | _              | 79             | 8            | _                         | _                      |
| ldaho                      | _                   | _              | 122            | 20           | _                         | 2                      |
| Wyo.<br>Colo.              | _                   | _              | 70<br>539      | 4<br>229     | _<br>1                    | 1<br>10                |
| N. Mex.                    | _                   | 1              | 306            | 306          |                           | 14                     |
| Ariz.                      | _                   | 2              | 885            | 643          | 25                        | 185                    |
| Utah                       | _                   | 2              | 355            | 48           | 1                         | 4                      |
| Nev.                       | _                   | 1              | 245            | 65           | _                         | 15                     |
| Pacific                    | _                   | 13             | 6,108          | 3,566        | 120                       | 358                    |
| Wash.                      | _                   | 8              | 703            | 277          | 1                         | 44                     |
| Oreg.<br>Calif.            | _                   | <br>3          | 329<br>4,724   | 194<br>3,033 | 119                       | 6<br>303               |
| Alaska                     | NN                  | _              | 4,724<br>57    | 3,033<br>11  | —                         | 303<br>1               |
| Hawaii                     |                     | 2              | 295            | 51           |                           | 4                      |
| Guam                       | _                   | _              | 46             | 39           | _                         | _                      |
| P.R.                       | . <del></del>       | 14             | 901            | 69           | 27                        | 17 <u>7</u>            |
| V.I.                       | NA                  | NA             | NA<br>NA       | NA           |                           | 7                      |
| American Samoa<br>C.N.M.I. | NA<br>NA            | NA<br>NA       | NA<br>NA       | NA<br>NA     | NA                        | NA                     |

<sup>\*</sup>Totals reported to the Division of Sexually Transmitted Diseases Prevention, NCHSTP, as of July 19, 1999.

NOTIFIABLE DISEASES — Reported cases, by geographic division and area, United States, 1998 — Continued

| Area                          |                     |                   | chook             |             |                           | Typhoid         |
|-------------------------------|---------------------|-------------------|-------------------|-------------|---------------------------|-----------------|
|                               | All stages          | Tetanus           | shock<br>syndrome | Trichinosis | Tuberculosis <sup>†</sup> | fever           |
| United States                 | 37,977              | 41                | 138               | 19          | 18,361                    | 375             |
| New England                   | 824                 | _                 | 2                 | 1           | 505                       | 24              |
| Maine<br>N.H.                 | 4<br>14             | _                 | _                 | _           | 13<br>14                  | <u> </u>        |
| Vt.                           | 6                   | _                 |                   | 1           | 5                         |                 |
| Mass.                         | 568                 | _                 | _                 | <u>.</u>    | 282                       | 15              |
| R.I.                          | 55                  | _                 |                   | _           | 63                        | _               |
| Conn.                         | 177                 | _                 | NN<br>17          | _           | 128                       | 8               |
| Mid. Atlantic<br>Upstate N.Y. | <b>6,881</b><br>495 | 1                 | <b>17</b><br>10   | _           | <b>3,088</b><br>442       | <b>90</b><br>17 |
| N.Y. City                     | 4,650               | _                 | <del>-</del>      | _           | 1,558                     | 52              |
| N.J.                          | 826                 | _                 | _                 | _           | 640                       | 16              |
| Pa.                           | 910                 | 1                 | 7                 | _           | 448                       | 5               |
| E.N. Central                  | 3,905               | 12                | 30                | 9           | 1,762                     | 56              |
| Ohio<br>Ind.                  | 474<br>509          | 3<br>1            | 1<br>6            | 7           | 230<br>188                | 9<br>2          |
| IIIa.<br>III.                 | 2,028               | 5                 | 7                 |             | 850                       | 38              |
| Mich.                         | 686                 | 2                 | 14                | _           | 385                       | 6               |
| Wis.                          | 208                 | 1                 | 2                 | _           | 109                       | 1               |
| W.N. Central                  | 645                 | 2                 | 23                | _           | 520                       | 7               |
| Minn.<br>Iowa                 | 74<br>48            | <u> </u>          | 5<br>4            | _           | 161<br>55                 | 3               |
| Mo.                           | 375                 |                   | 6                 | _           | 184                       | 4               |
| N. Dak.                       | _                   | _                 | 1                 | _           | 10                        |                 |
| S. Dak.                       | 2                   | 1                 | _                 | _           | 23                        | _               |
| Nebr.<br>Kans.                | 33<br>113           | _                 | 3<br>4            | _           | 31<br>56                  | _               |
| S. Atlantic                   | 10,946              | 9                 | 16                |             | 3,5 <b>65</b>             | —<br>49         |
| Del.                          | 114                 | _                 | 4                 | _           | 3,505                     | 3               |
| Md.                           | 2,156               | 1                 | NN                | _           | 324                       | 11              |
| D.C.                          | 579                 | _                 | _                 | _           | 107                       | _               |
| Va.                           | 707                 | 1                 | _                 | _           | 339                       | 7               |
| W. Va.<br>N.C.                | 11<br>2,133         | 3<br>1            |                   |             | 42<br>498                 | 1<br>1          |
| S.C.                          | 871                 |                   | 4                 | _           | 286                       |                 |
| Ga.                           | 1,836               | _                 | 3                 | _           | 631                       | 10              |
| Fla.                          | 2,539               | 3                 | 3                 | _           | 1,302                     | 16              |
| E.S. Central                  | 4,383               | 1                 | 7                 | 4           | 1,224                     | 10              |
| Ky.                           | 339                 | _                 | 1                 | NN          | 179                       | 2               |
| Tenn.<br>Ala.                 | 1,750<br>1,133      | 1_                | 5<br>1            | 3           | 439<br>381                | 2<br>4          |
| Miss.                         | 1,161               | _                 | NN                | 1           | 225                       | 2               |
| W.S. Central                  | 6,475               | 6                 | 6                 | _           | 2,569                     | 31              |
| Ark.                          | 506                 | _                 | 2                 | NN          | 171                       | _               |
| La.                           | 1,651               | 2                 | NN                |             | 380                       | 1               |
| Okla.<br>Tex.                 | 363<br>3,955        | <u> </u>          | 4<br>NN           | NN<br>—     | 198<br>1,820              | 1<br>29         |
| Mountain                      | 1,099               | 2                 | 10                | 2           | 619                       | 12              |
| Mont.                         |                     | 1                 | _                 | 2           | 20                        | -               |
| ldaho                         | 15                  | _                 | 1                 | NN          | 14                        | 1               |
| Wyo.                          | 2                   | _                 | _                 | _           | 4                         | _               |
| Colo.                         | 118<br>76           | _                 | 4                 | _           | 79<br>69                  | 1               |
| N. Mex.<br>Ariz.              | 76<br>697           | <u></u>           | <u> </u>          | _           | 68<br>254                 | 2<br>5          |
| Utah                          | 55                  |                   | 2                 | _           | 52                        | _               |
| Nev.                          | 136                 | _                 | 2                 | _           | 128                       | 3               |
| Pacific                       | 2,819               | 8                 | 27                | 3           | 4,509                     | 96              |
| Wash.                         | 141                 | _                 | 6                 | _           | 265                       | 8               |
| Oreg.<br>Calif.               | 32<br>2,618         | <del>_</del><br>8 | NN<br>21          |             | 156<br>3,852              | 1<br>83         |
| Alaska                        | 13                  | _                 | NN                | <u> </u>    | 3,652<br>55               | -<br>-          |
| Hawaii                        | 15                  | <u> </u>          | NN                | <u> </u>    | 181                       | 4               |
| Guam                          | 3                   | _                 | _                 | _           | 89                        | _               |
| P.R.                          | 1,460               | 1                 | NN                |             | 201                       | 2               |
| V.I.<br>American Samoa        | 35<br>NA            | NA<br>NA          | NA<br>NA          | NA<br>NA    | NA<br>NA                  | NA<br>NA        |
| AIIICIICAII JAIIIOA           | NA<br>NA            | NA<br>NA          | NA<br>NA          | NA<br>NA    | NA<br>NA                  | NA<br>NA        |

<sup>\*</sup>Totals reported to the Division of Sexually Transmitted Diseases Prevention, NCHSTP, as of July 19, 1999. <sup>†</sup>Totals reported to the Division of Tuberculosis Elimination, NCHSTP, as of June 3, 1999.

#### NOTIFIABLE DISEASES — Summary of reported cases, by age group, United States, 1998

|  |          |       | <1       | 1-4       | 4       | 5          | -14     | 15-       | -24        | 25–39                   | 40-         | -64     |       | <u>.</u> 65 | Age<br>not |
|--|----------|-------|----------|-----------|---------|------------|---------|-----------|------------|-------------------------|-------------|---------|-------|-------------|------------|
| Disease                                | Total    | No.   | (Rate)   | No.       | (Rate)  | No.        | (Rate)  | No.       | (Rate)     | No. (Rate)              | No.         | (Rate)  | No.   | (Rate)      | stated     |
| AIDS*                                  | 46,521   | 93    | ( 2.46)  | 133       | ( 0.88) | 199        | ( 0.51) | 1,667     | ( 4.48)    | 24,689 ( 40.21)         | 19,008      | (24.01) | 732   | ( 2.13)     |            |
| Botulism, total                        | 116      | 66    | ( 1.76)  | 3         | (0.02)  | _          | ( —)    | 3         | ( 0.01)    | 14 ( 0.02)              | 25          | (0.03)  | 5     | (0.01)      | _          |
| Brucellosis                            | 79       | _     | ( —)     | 10        | (0.07)  | 10         | (0.03)  | 9         | ( 0.02)    | 18 ( 0.03)              | 23          | (0.03)  | 9     | (0.03)      | _          |
| Chlamydia <sup>†§</sup>                | 604,023  | NA    | ( NA)    | NA        | ( NA)   | NA         | ( NA)   | 441,225   | (1,259.62) | 124,556 (209.45)        | 11,397      | (15.59) | 1,226 | (3.78)      | 9,629      |
| Cholera                                | 17       | _     | ( —)     | _         | ( —)    | _          | ( —)    | _         | ( 0.00)    | 8 ( 0.01)               | 6           | ( 0.01) | 3     | ( 0.01)     | _          |
| Cryptosporidiosis                      | 3,793    | 93    | ( 2.81)  | 674       | (5.07)  | 629        | ( 1.84) | 328       | ( 1.01)    | 1,056 ( 1.97)           | 741         | ( 1.08) | 209   | (0.70)      | 63         |
| Diphtheria                             | 1        | _     | ( —)     | _         | ( —)    | _          | ( —)    | 1         | ( 0.00)    | — ( —)                  | _           | ( —)    | _     | ( —)        | _          |
| Encephalitis, California               |          |       |          |           |         |            |         |           |            |                         |             |         |       |             |            |
| serogroup viral                        | 97       | 4     | ( 0.11)  | 23        | (0.16)  | 65         | ( 0.17) | 1         | ( 0.00)    | 1 ( 0.00)               | 1           | (0.00)  | 1     | (0.00)      | 1          |
| Eastern equine                         | 4        | _     | ( —)     | _         | ( —)    | _          | ( —)    | _         | ( —)       | 1 ( 0.00)               | 1           | ( 0.00) | 2     | ( 0.01)     | _          |
| St. Louis                              | 24       | 1     | ( 0.03)  | _         | ( —)    | _          | ( —)    | 2         | ( 0.01)    | 6 ( 0.01)               | 10          | ( 0.01) | 5     | (0.02)      | _          |
| Escherichia coli                       |          |       |          |           |         |            |         |           |            |                         |             |         |       |             |            |
| O157:H7                                | 3,161    | 70    | ( 2.01)  | 639       | ( 4.57) | 655        | ( 1.83) | 392       | ( 1.15)    | 341 ( 0.61)             | 583         | ( 0.81) | 366   | ( 1.18)     | 115        |
| Gonorrhea§                             | 355,627  | NA    | ( NA)    | NA        | ( NA)   | NA         | ( NA)   | 209,036   | ( 571.45)  | 109,680 (176.24)        | 24,257      | (31.58) | 1,199 | (3.52)      | 4,252      |
| Haemophilus influenzae,                |          |       |          |           |         |            |         |           |            |                         |             |         |       |             |            |
| invasive disease                       | 1,194    | 157   | ( 4.16)  | 96        | (0.63)  | 63         | ( 0.16) | 55        | ( 0.15)    | 107 ( 0.17)             | 256         | ( 0.32) | 452   | ( 1.31)     | 8          |
| Hansen disease (leprosy)               |          | 2     | ( 0.06)  | _         | ( —)    | 2          | ( 0.01) | 11        | ( 0.03)    | 32 ( 0.06)              | 27          | (0.04)  | 14    | ( 0.05)     | 20         |
| Hepatitis A                            | 23,229   | 122   | ( 3.23)  | 1,154     | (7.60)  | 4,739      | (12.10) | 3,718     | ( 9.99)    | 7,589 ( 12.36)          | 4,560       |         | 1,056 | (3.07)      | 291        |
| Hepatitis B                            | 10,258   | 67    | ( 1.77)  | 54        | (0.36)  | 161        | ( 0.41) | 1,757     | ( 4.72)    | 4,357 ( 7.10)           | 3,117       | ( 3.94) | 525   | ( 1.53)     | 220        |
| Hepatitis C; non-A, non-E              |          | 21    | ( 0.56)  | 7         | ( 0.05) | 16         | ( 0.04) | 166       | ( 0.45)    | 1,101 ( 1.79)           | 1,619       | ( 2.05) | 145   | (0.42)      | 443        |
| Legionellosis                          | 1,355    | 4     | ( 0.11)  | 2         | ( 0.01) | 4          | ( 0.01) | 17        | ( 0.05)    | 136 ( 0.23)             | 609         | ( 0.79) | 569   | ( 1.69)     | 14         |
| Lyme disease                           | 16,801   | 70    | ( 1.86)  | 923       | ( 6.10) | 3,193      | (8.19)  | 1,396     | ( 3.77)    | 2,875 ( 4.70)           | 5,857       | (7.43)  |       | ( 6.81)     | 155        |
| Malaria                                | 1,611    | 10    | ( 0.26)  | 70        | ( 0.46) | 180        | ( 0.46) | 299       | ( 0.80)    | 507 ( 0.83)             | 438         | ( 0.55) | 65    | ( 0.19)     | 42         |
| Measles (rubeola)                      | 100      | 15    | ( 0.40)  | 15        | ( 0.10) | 12         | ( 0.03) | 29        | ( 0.08)    | 24 ( 0.04)              | 5           | ( 0.01) |       | ()          | _          |
| Meningococcal disease                  | 2,725    | 433   | ( 11.47) | 417       | ( 2.75) | 354        | ( 0.90) | 471       | ( 1.27)    | 249 ( 0.41)             | 386         | ( 0.49) | 390   | ( 1.13)     | 25         |
| Mumps                                  | 666      | 7     | ( 0.19)  | 120       | ( 0.80) | 289        | ( 0.75) | 88        | ( 0.24)    | 99 ( 0.16)              | 54          | ( 0.07) | _     | ( —)        | 9          |
| Pertussis                              | 7.405    | 0 101 | ( 50 54) | 050       | / 0 07) | 0.040      | ( = 4=) | 000       | ( 0.00)    | 004 / 400               | 075         | / O OF\ |       | ( 0 10)     | 47         |
| (whooping cough)                       | 7,405    | 2,134 | ( 56.51) | 953       | ( 6.27) | 2,016<br>1 | ( 5.15) | 890       | ( 2.39)    | 634 ( 1.03)             | 675         | ( 0.85) | 56    | ( 0.16)     | 47         |
| Plague                                 | 9        | _     | ()       | _         | ( -)    | - 1        | ( 0.00) | _         | ( -)       | 2 ( 0.00)               | 6           | ( 0.01) | _     | ( -)        | _          |
| Poliomyelitis, paralytic               |          | 1     | ( 0.03)  | _         | ( —)    |            | ( —)    | _         | ()         | — ( <u>—)</u>           | _           | ( —)    | 7     | ( —)        | <u>_</u>   |
| Psittacosis                            | 47<br>1  | 2     | ( 0.06)  | 2         | ( 0.01) | 2          | ( 0.01) | 3         | ( 0.01)    | 11 ( 0.02)<br>1 ( 0.00) | 19          | ( 0.03) | /     | ( 0.02)     | - 1        |
| Rabies, human                          | ı        | _     | ( —)     | _         | ( —)    | _          | ( —)    | _         | ( —)       | 1 ( 0.00)               | _           | ( —)    | _     | ( —)        | _          |
| Rocky Mountain                         | 365      | 2     | ( 0.05)  | 25        | ( 0.17) | 58         | ( 0.15) | 34        | ( 0.09)    | 86 ( 0.14)              | 118         | ( 0.15) | 20    | ( 0.11)     | 3          |
| spotted fever<br>Rubella (German measi |          | 16    | ( 0.05)  | 25<br>12  | ( 0.17) | 19         | ( 0.15) | 34<br>147 | ( 0.09)    | 122 ( 0.20)             | 47          | ( 0.15) | 39    | ( 0.11)     | 3<br>1     |
| Salmonellosis                          | 43,694   |       | (146.09) | 6,975     | (45.92) | 5,348      | (13.66) | 3,622     | ( 9.73)    | 5,944 ( 9.68)           | 6,475       | (8.18)  |       | (11.49)     | 5,859      |
| Shigellosis                            | 23,626   | 513   | ( 13.58) | 6,399     | (42.13) | 6.134      | (15.66) | 1,653     | ( 4.44)    | 3,209 ( 5.23)           | 1,818       | ( 2.30) | 436   | (11.49)     | 3,464      |
| Syphilis§                              | 23,020   | 513   | ( 13.30) | 0,399     | (42.13) | 0,134      | (15.00) | 1,000     | ( 4.44)    | 3,209 ( 5.23)           | 1,010       | ( 2.30) | 430   | ( 1.27)     | 3,404      |
| Primary and seconda                    | rv 6 995 | NA    | ( NA)    | NA        | (NA)    | NA         | (NA)    | 1,626     | ( 4.45)    | 3.368 ( 5.41)           | 1,833       | ( 2.39) | 103   | ( 0.30)     | 18         |
| Tetanus                                | 41       | 1     | ( 0.03)  | - NA      | ( NA)   | 2          | ( 0.01) | 1,626     | ( 0.02)    | 8 ( 0.01)               | 1,033       | ( 0.01) | 103   | ( 0.30)     | _          |
| Toxic-shock syndrome                   | 138      | 2     | ( 0.03)  | 3         | ( 0.02) | 20         | ( 0.01) | 23        | ( 0.02)    | 42 ( 0.08)              | 40          | ( 0.01) | 7     | (0.04)      |            |
| Trichinosis                            | 130      | _     | ( 0.00)  | 3<br>1    | ( 0.02) |            | ( 0.00) | 23        | ( 0.07)    | 7 ( 0.01)               | 7           | ( 0.00) | 1     | ( 0.02)     | 1          |
| Tuberculosis                           | 18,361   | 108   | ( 2.86)  | 533       | ( 3.51) | 441        | ( 1.13) | 1,548     | ( 4.16)    | 4,585 ( 7.47)           | 6.753       | ( 8.53) | -     | (12.77)     | ,          |
| Typhoid fever                          | 375      | 8     | ( 0.21)  | 533<br>47 | ( 0.31) | 63         | ( 0.16) | 86        | ( 4.16)    | 105 ( 0.17)             | 6,753<br>51 | ( 0.06) | 12    | ( 0.03)     |            |
| *Total number of acquired              |          |       |          |           |         |            |         |           | ,          | tion — Surveillance and |             |         |       |             |            |

<sup>\*</sup>Total number of acquired immunodeficiency syndrome (AIDS) cases reported to the Division of HIV/AIDS Prevention — Surveillance and Epidemiology, National Center for HIV, STD, and TB Prevention (NCHSTP), as of December 31, 1998.

<sup>&</sup>lt;sup>†</sup>Chlamydia refers to genital infections caused by *C. trachomatis*.

<sup>§</sup> Age-related data are collected on aggregate forms different from those used for the number of reported cases. Therefore, the total cases reported on this table can differ slightly from other tables. Cases among persons aged <15 years are not shown because some of these might not be caused by sexual transmission; these cases are, however, included in the totals. Cases and rates were updated through the Division of Sexually Transmitted Diseases Prevention, NCHSTP, as of July 19, 1999. Age-related data for 1998 are unavailable for chancroid. ¶ Cases were updated through the Division of Tuberculosis Elimination, NCHSTP, as of June 3, 1999.

Note: Incidence rates per 100,000 population. Rates < 0.01 after rounding are listed as 0.00.

NOTIFIABLE DISEASES — Summary of reported cases, by sex, United States, 1998

|  | Total   | M       | ale      | Fen     | nale     | Sex        |
|--|---------|---------|----------|---------|----------|------------|
| Disease                                      |         | No.     | (Rate)   | No.     | (Rate)   | not stated |
| AIDS*  | 46,521  | 35,776  | ( 27.09) | 10,742  | ( 7.77)  | 3          |
| Botulism, total                              | 116     | 62      | ( 0.05)  | 52      | ( 0.04)  | 2          |
| Brucellosis                                  | 79      | 39      | ( 0.03)  | 39      | ( 0.03)  | 1          |
| Chancroid <sup>†</sup>                       | 189     | 112     | ( 0.09)  | 76      | ( 0.06)  | 1          |
| Chlamydia <sup>†§</sup>                      | 604,420 | NA      | ( NA)    | 498,406 | (382.24) | _          |
| Cholera                                      | 17      | 10      | ( 0.01)  | 6       | ( 0.00)  | 1          |
| Cryptosporidiosis                            | 3,793   | 1,907   | ( 1.66)  | 1,822   | ( 1.52)  | 64         |
| Diphtheria                                   | 1       | NA      | ( NA)    | 1       | ( 0.00)  | _          |
| Encephalitis, California serogroup viral     | 97      | 61      | ( 0.05)  | 35      | ( 0.03)  | 1          |
| Eastern equine                               | 4       | 2       | ( 0.00)  | 2       | ( 0.00)  | _          |
| St. Louis                                    | 24      | 13      | ( 0.01)  | 11      | ( 0.01)  | _          |
| Escherichia coli O157:H7                     | 3,161   | 1,405   | ( 1.17)  | 1,563   | ( 1.24)  | 193        |
| Gonorrhea <sup>†</sup>                       | 355,642 | 175,233 | (133.75) | 179,651 | (131.50) | 758        |
| Haemophilus influenzae, invasive disease     | 1,194   | 517     | ( 0.39)  | 578     | ( 0.42)  | 99         |
| Hansen disease (leprosy)                     | 108     | 53      | ( 0.05)  | 35      | ( 0.03)  | 20         |
| Hepatitis A                                  | 23,229  | 12,656  | ( 9.58)  | 8,358   | ( 6.05)  | 2,215      |
| Hepatitis B                                  | 10,258  | 5,929   | ( 4.49)  | 3,887   | ( 2.81)  | 442        |
| Hepatitis C; non-A, non-B                    | 3,518   | 2,171   | ( 1.64)  | 1,272   | ( 0.92)  | 75         |
| Legionellosis                                | 1,355   | 806     | ( 0.62)  | 509     | ( 0.38)  | 40         |
| Lyme disease                                 | 16,801  | 8,820   | ( 6.71)  | 7,948   | ( 5.77)  | 33         |
| Malaria                                      | 1,611   | 996     | ( 0.75)  | 553     | ( 0.40)  | 62         |
| Measles (rubeola)                            | 100     | 45      | ( 0.03)  | 43      | ( 0.03)  | 12         |
| Meningococcal disease                        | 2,725   | 1,329   | ( 1.01)  | 1,318   | ( 0.95)  | 78         |
| Mumps  | 666     | 370     | ( 0.29)  | 267     | ( 0.20)  | 29         |
| Pertussis (whooping cough)                   | 7,405   | 3,285   | ( 2.49)  | 3,816   | ( 2.76)  | 304        |
| Plague                                       | 9       | 3       | ( 0.00)  | 5       | ( 0.00)  | 1          |
| Poliomyelitis, paralytic                     | 1       | 1       | ( 0.00)  | _       | ( — )    | _          |
| Psittacosis                                  | 47      | 12      | ( 0.01)  | 34      | ( 0.03)  | 1          |
| Rabies, human                                | 1       | 1       | ( 0.00)  | _       | ( — )    | _          |
| Rocky Mountain spotted fever                 | 365     | 222     | ( 0.17)  | 141     | ( 0.10)  | 2          |
| Rubella (German measles)                     | 364     | 238     | ( 0.18)  | 123     | ( 0.09)  | 3          |
| Salmonellosis                                | 43,694  | 17,942  | ( 13.59) | 19,035  | ( 13.77) | 6,717      |
| Shigellosis                                  | 23,626  | 8,786   | ( 6.65)  | 10,667  | ( 7.72)  | 4,173      |
| Syphilis, primary and secondary <sup>†</sup> | 6,993   | 3,902   | ( 2.98)  | 3,089   | ( 2.26)  | 2          |
| Tetanus                                      | 41      | 22      | ( 0.02)  | 18      | ( .01)   | 1          |
| Toxic-shock syndrome                         | 138     | 30      | ( 0.03)  | 103     | ( 0.09)  | 5          |
| Trichinosis                                  | 19      | 10      | ( 0.01)  | 9       | ( 0.01)  | _          |
| Tuberculosis <sup>¶</sup>                    | 18,361  | 11,413  | (8.64)   | 6,935   | (5.02)   | 13         |
| Typhoid fever                                | 375     | 196     | ( 0.15)  | 161     | ( 0.12)  | 18         |

<sup>\*</sup>Total number of acquired immunodeficiency syndrome (AIDS) cases reported to the Division of HIV/AIDS Prevention — Surveillance and Epidemiology, National Center for HIV, STD, and TB Prevention (NCHSTP), as of December 31, 1998.

Note: Incidence rates per 100,000 population. Rates < 0.01 after rounding are listed as 0.00.

<sup>&</sup>lt;sup>†</sup>Cases and rates were updated through the Division of Sexually Transmitted Diseases Prevention, NCHSTP, as of July 19, 1999.

<sup>§</sup>Chlamydia refers to genital infections caused by *C. trachomatis*. The rates for men are not presented because reporting for men is more limited than for women.

Cases were updated through the Division of Tuberculosis Elimination, NCHSTP, as of June 3, 1999.

#### NOTIFIABLE DISEASES — Summary of reported cases, by race, United States, 1998

|  |         | Americar<br>or Alaska |            | Asia  | n or<br>Islander | Bla     | ok.   | Whi     | to    | Otl | 201          | Race<br>not sta    |      |
|--|---------|-----------------------|------------|-------|------------------|---------|-------|---------|-------|-----|--------------|--------------------|------|
| Disease                                  | Total   | No.                   | (%)        | No.   | (%)              | No.     | (%)   | No.     | (%)   | No. | (%)          | No.                | (%)  |
| AIDS*                                    | 46,521  | 148                   | (<1)       | 388   | ( 1)             | 21,728  | (47)  | 16,115  | ( 35) |     | (—)          | 8,142 <sup>†</sup> | (18) |
| Botulism, total                          | 116     | 8                     | (7)        | 3     | (3)              | 7       | (6)   | 58      | (50)  | 1   | ( 1)         | 39                 | (34) |
| Brucellosis                              | 79      | 1                     | (1)        | _     | (—)              |         | ( —)  | 49      | (62)  |     | (—)          | 29                 | (37) |
| Chlamydia§¶                              | 604,023 | 8,466                 | (1)        | 7,483 | ( 1)             | 203,013 | ( 34) | 124,323 | ( 21) | _   | ( <u>—</u> ) | 260,738†           | (43) |
| Cholera                                  | 17      | _                     | ( <u> </u> | 4     | (24)             | _       | (7)   | 10      | ( 59) | _   | ( <u>—</u> ) | 3                  | (18) |
| Cryptosporidiosis                        | 3,793   | 312                   | (8)        | 58    | (2)              | 278     | ( 7)  | 1,967   | (52)  | 9   | (<1)         | 1,169              | (31) |
| Diphtheria                               |         | _                     | (—)        | _     | (—)              | _       | ( —)  |         | (100) | _   | (—)          | · —                | (—)  |
| Encephalitis, California serogroup viral | 97      | 1                     | (1)        | _     | (—)              | 1       | (1)   | 87      | (90)  | _   | (—)          | 8                  | (8)  |
| Eastern equine                           | 4       | _                     | (—)        | _     | (—)              | _       | ( —)  | 4       | (100) | _   | (—)          | _                  | (—)  |
| St. Louis                                | 24      | _                     | (—)        | _     | (—)              | 6       | (25)  | 18      | (75)  | _   | (—)          | _                  | (—)  |
| Escherichia coli O157:H7                 | 3,161   | 6                     | (<1)       | 28    | (1)              | 93      | (3)   | 1,999   | (63)  | 5   | (<1)         | 1,030              | (33) |
| Gonorrhea¶                               | 355,627 | 1,790                 | (1)        | 1,481 | (<1)             | 217,360 | (61)  | 40,220  | (11)  | _   | (—)          | 94,776†            | (27) |
| Haemophilus influenzae, invasive disease | 1,194   | 22                    | (2)        | 19    | (2)              | 159     | (13)  | 711     | (60)  | 2   | (<1)         | 281                | (24) |
| Hansen disease (leprosy)                 | 108     | 1                     | (1)        | 31    | (29)             | 6       | (6)   | 28      | (26)  | _   | (—)          | 42                 | (39) |
| Hepatitis A                              | 23,229  | 236                   | (1)        | 349   | (2)              | 2,689   | (12)  | 12,229  | (53)  | 48  | (<1)         | 7,678              | (33) |
| Hepatitis B                              | 10,258  | 80                    | (1)        | 683   | (7)              | 1,855   | ( 18) | 3,958   | (39)  | 25  | (<1)         | 3,657              | (36) |
| Hepatitis C; non-A, non-B                | 3,518   | 46                    | (1)        | 33    | (1)              | 468     | ( 13) | 1,921   | ( 55) | 7   | (<1)         | 1,043              | (30) |
| Legionellosis                            | 1,355   | 3                     | (<1)       | 8     | (1)              | 135     | ( 10) | 913     | (67)  | _   | (—)          | 296                | (22) |
| Lyme disease                             | 16,801  | 44                    | (<1)       | 102   | (1)              | 205     | ( 1)  | 12,833  | (76)  | 41  | (<1)         | 3,576              | (21) |
| Malaria                                  | 1,611   | 4                     | (<1)       | 160   | (10)             | 613     | ( 38) | 404     | (25)  | 14  | (1)          | 416                | (26) |
| Measles (rubeola)                        | 100     | 1                     | (1)        | 5     | (5)              | 7       | (7)   | 47      | (47)  | _   | (—)          | 40                 | (40) |
| Meningococcal disease                    | 2,725   | 30                    | (1)        | 34    | (1)              | 405     | ( 15) | 1,716   | (63)  | 4   | (<1)         | 536                | (20) |
| Mumps                                    | 666     | 3                     | (<1)       | 53    | (8)              | 35      | ( 5)  | 412     | (62)  | 2   | (<1)         | 161                | (24) |
| Pertussis (whooping cough)               | 7,405   | 89                    | (1)        | 130   | (2)              | 438     | (6)   | 5,270   | (71)  | 10  | (<1)         | 1,468              | (20) |
| Plague                                   | 9       | 3                     | (33)       | _     | (—)              | _       | ( —)  | 6       | (67)  | _   | (—)          | _                  | (—)  |
| Poliomyelitis, paralytic                 | 1       | _                     | (—)        |       | (—)              | _       | ( —)  | 1       | (100) | _   | (—)          | _                  | (—)  |
| Psittacosis                              | 47      | 1                     | (2)        |       | (—)              | 4       | ( 9)  | 31      | (66)  | _   | (—)          | 11                 | (23) |
| Rabies, human                            | 1       | _                     | (—)        |       | (—)              | 1       | (100) | _       | ( —)  | _   | (—)          | _                  | (—)  |
| Rocky Mountain spotted fever             | 365     | 5                     | (1)        | 3     | (1)              | 18      | ( 5)  | 280     | (77)  | _   | (—)          | 59                 | (16) |
| Rubella (German measles)                 | 364     | 4                     | (1)        | 3     | (1)              | 3       | ( 1)  | 238     | (65)  | 26  | (7)          | 90                 | (25) |
| Rubella, congenital syndrome             | 7       | _                     | (—)        | _     | (—)              | 1       | ( 14) | 3       | (43)  | _   | (—)          | 3                  | (43) |
| Salmonellosis                            | 43,694  | 338                   | (1)        | 554   | (1)              | 3,247   | (7)   | 19,658  | ( 45) | 25  | (<1)         | 19,872             | (45) |
| Shigellosis                              | 23,626  | 411                   | (2)        | 147   | (1)              | 3,483   | ( 15) | 9,430   | (40)  | 15  | (<1)         | 10,140             | (43) |
| Syphilis, primary and secondary¶         | 6,995   | 55                    | (1)        | 36    | ( 1)             | 5,398   | (77)  | 912     | (13)  | _   | (—)          | 594 <sup>†</sup>   | (8)  |
| Tetanus                                  | 41      | 1                     | (2)        | 1     | (2)              | 6       | ( 15) | 29      | (71)  | _   | (—)          | 4                  | (10) |
| Toxic-shock syndrome                     | 138     | _                     | (—)        | 3     | (2)              | 11      | ( 8)  | 106     | (77)  | _   | (—)          | 18                 | (13) |
| Trichinosis                              | 19      | 1                     | (5)        | 1     | ( 5)             | 1       | ( 5)  | 12      | (63)  | _   | (—)          | 4                  | (21) |
| Tuberculosis**                           | 18,361  | 264                   | (1)        | 3,668 | (20)             | 5,980   | ( 33) | 8,408   | (46)  | _   | (—)          | 41                 | (<1) |
| Typhoid fever                            | 375     | 1                     | (<1)       | 105   | (28)             | 19      | ( 5)  | 65      | ( 17) | 13  | (3)          | 172                | (46) |

<sup>\*</sup>Total number of acquired immunodeficiency syndrome (AIDS) cases reported to the Division of HIV/AIDS Prevention — Surveillance and Epidemiology, National Center for HIV, STD, and TB Prevention (NCHSTP), as of December 31, 1998.

<sup>&</sup>lt;sup>†</sup> Includes the following cases originally reported as Hispanic: 7,931 for AIDS; 70,240 for chlamydia; 16,269 for gonorrhea; and 441 for syphilis, primary and secondary.

<sup>§</sup> Chlamydia refers to genital infections caused by C. trachomatis.

In addition to data collected through the National Electronic Telecommunications System for Surveillance (NETSS), some data concerning race are collected on aggregate forms different from those used for numbers of reported cases. Thus, the total number of cases reported on this table can differ slightly from other tables. Cases were updated through the Division of Sexually Transmitted Diseases Prevention, NCHSTP, as of July 19, 1999. Data regarding race for 1998 are unavailable for chancroid.

<sup>\*\*</sup>Cases were updated through the Division of Tuberculosis Elimination, NCHSTP as of June 3, 1999.

|  |         |        |              |           |       | Ethnic              | city  |  |
|--|---------|--------|--------------|-----------|-------|---------------------|-------|--|
|  |         | Hispa  | nic          | Non-Hispa | anic  | not stated          |       |  |
| Disease                                  | Total   | No.    | (%)          | No.       | (%)   | No.                 | (%)   |  |
| AIDS*                                    | 46,521  | 7,931  | (17)         | 37,843    | (81)  | 747 <sup>†</sup>    | ( 2)  |  |
| Botulism, total                          | 116     | 24     | (21)         | 59        | (51)  | 33                  | ( 28) |  |
| Brucellosis                              | 79      | 47     | (59)         | 14        | ( 18) | 18                  | (23)  |  |
| Chlamydia§¶                              | 604,023 | 70,240 | (12)         | 327,336   | (54)  | 206,447†            | (34)  |  |
| Cholera                                  | 17      | 1      | (6)          | 13        | (76)  | 3                   | (18)  |  |
| Cryptosporidiosis                        | 3,793   | 237    | (6)          | 1,600     | (42)  | 1,956               | (52)  |  |
| Diphtheria                               | 1       | _      | (—)          | _         | ( —)  | 1                   | (100) |  |
| Encephalitis, California serogroup viral | 97      | 2      | ( 2)         | 33        | ( 34) | 62                  | (64)  |  |
| Eastern equine                           | 4       | _      | ( <u>—</u> ) | 2         | (50)  | 2                   | (50)  |  |
| St. Louis                                | 24      | _      | (—)          | 13        | (54)  | 11                  | (46)  |  |
| Escherichia coli O157:H7                 | 3,161   | 86     | (3)          | 1,698     | (54)  | 1,377               | (44)  |  |
| Gonorrhea¶                               | 355,627 | 16,269 | (5)          | 257,580   | (72)  | 81,778 <sup>†</sup> | (23)  |  |
| Haemophilus influenzae, invasive disease | 1,194   | 78     | (7)          | 611       | (51)  | 505                 | (42)  |  |
| Hansen disease (leprosy)                 | 108     | 32     | (30)         | 52        | (48)  | 24                  | (22)  |  |
| Hepatitis A                              | 23,229  | 4,137  | (18)         | 9,884     | (43)  | 9,208               | (40)  |  |
| Hepatitis B                              | 10,258  | 850    | (8)          | 4,786     | (47)  | 4,622               | (45)  |  |
| Hepatitis C; non-A, non-B                | 3,518   | 392    | (11)         | 1,741     | (49)  | 1,385               | (39)  |  |
| Legionellosis                            | 1,355   | 26     | (2)          | 773       | (57)  | 556                 | (41)  |  |
| Lyme disease                             | 16,801  | 172    | (1)          | 7,780     | (46)  | 8,849               | (53)  |  |
| Malaria                                  | 1,611   | 167    | (10)         | 873       | (54)  | 571                 | (35)  |  |
| Measles (rubeola)                        | 100     | 10     | (10)         | 44        | (44)  | 46                  | (46)  |  |
| Meningococcal disease                    | 2,725   | 263    | (10)         | 1,530     | (56)  | 932                 | (34)  |  |
| Mumps                                    | 666     | 115    | (17)         | 221       | (33)  | 330                 | (50)  |  |
| Pertussis (whooping cough)               | 7,405   | 813    | (11)         | 4,866     | (66)  | 1,726               | (23)  |  |
| Plague                                   | 9       | 1      | (11)         | 8         | (89)  | _                   | ( —)  |  |
| Poliomyelitis, paralytic                 | 1       | _      | (—)          | 1         | (100) | _                   | ( —)  |  |
| Psittacosis                              | 47      | 5      | (11)         | 26        | (55)  | 16                  | (34)  |  |
| Rabies, human                            | 1       | _      | (—)          | _         | ( —)  | 1                   | (100) |  |
| Rocky Mountain spotted fever             | 365     | 7      | (2)          | 241       | (66)  | 117                 | (32)  |  |
| Rubella, congenital syndrome             | 7       | 4      | (57)         | _         | ( —)  | 3                   | (43)  |  |
| Rubella (German measles)                 | 364     | 289    | (79)         | 54        | ( 15) | 21                  | ( 6)  |  |
| Salmonellosis                            | 43,694  | 2,523  | (6)          | 15,393    | (35)  | 25,778              | (59)  |  |
| Shigellosis                              | 23,626  | 3,406  | (14)         | 7,999     | (34)  | 12,221              | (52)  |  |
| Syphilis, primary and secondary¶         | 6,995   | 441    | (6)          | 6,310     | (90)  | 244 <sup>†</sup>    | ( 3)  |  |
| Tetanus                                  | 41      | 10     | (24)         | 21        | (51)  | 10                  | (24)  |  |
| Toxic-shock syndrome                     | 138     | 4      | (3)          | 93        | (67)  | 41                  | ( 30) |  |
| Trichinosis                              | 19      | _      | (—)          | 6         | (32)  | 13                  | (68)  |  |
| Tuberculosis**                           | 18,361  | 4,099  | (22)         | 14,212    | (77)  | 50                  | ( <1) |  |
| Typhoid fever                            | 375     | 64     | (17)         | 144       | ( 38) | 167                 | ( 45) |  |

<sup>\*</sup>Total number of acquired immunodeficiency syndrome (AIDS) cases reported to the Division of HIV/AIDS Prevention — Surveillance and Epidemiology, National Center for HIV, STD, and TB Prevention (NCHSTP), as of December 31, 1998.

<sup>†</sup> Ethnicity is not stated and includes cases originally reported as American Indian/Alaskan Native or Asian/Pacific Islander.

<sup>§</sup> Chlamydia refers to genital infections caused by C. trachomatis.

In addition to data collected through the National Electronic Telecommunications System for Surveillance (NETSS), some data concerning ethnicity are collected on aggregate forms different from those used for numbers of reported cases. Thus, the total number of cases reported on this table can differ slightly from other tables. Cases were updated through the Division of Sexually Transmitted Diseases Prevention, NCHSTP, as of July 19, 1999. Data regarding ethnicity for 1998 are unavailable for chancroid.

<sup>\*\*</sup>Cases were updated through the Division of Tuberculosis Elimination, NCHSTP, as of June 3, 1999.

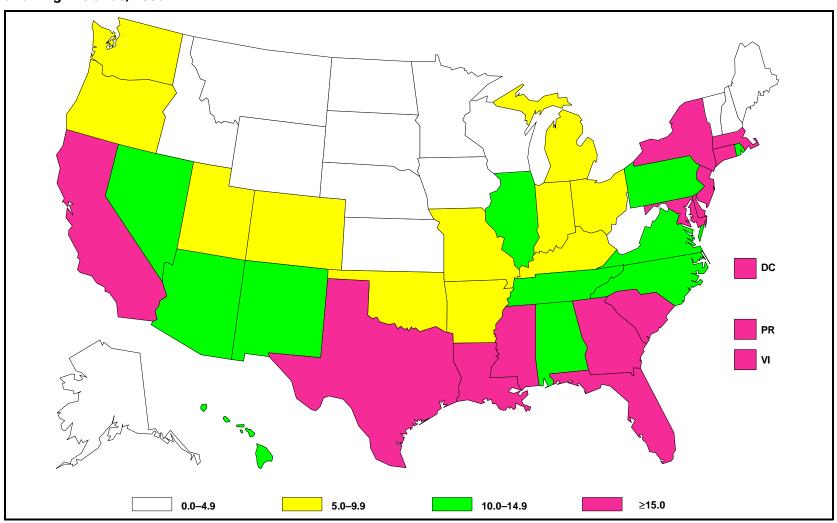
## **PART 2:**

# Graphs and Maps for Selected Notifiable Diseases in the United States

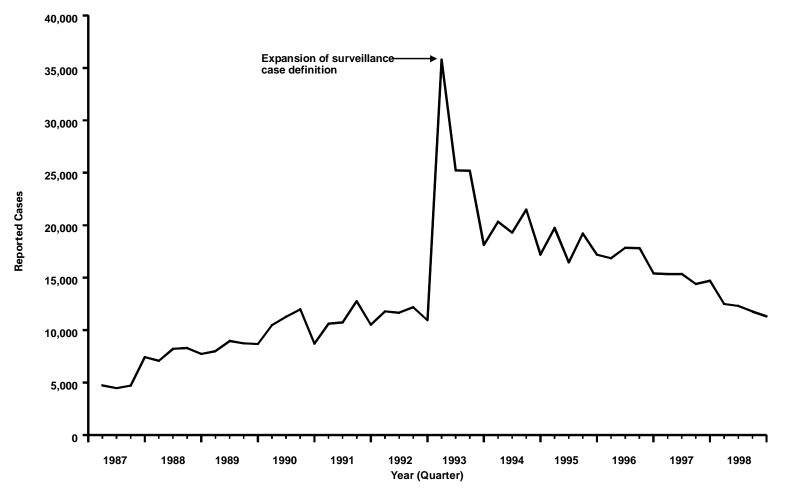
### EXPLANATION OF SYMBOLS USED IN TABLES, GRAPHS, AND MAPS

| Data not available                | NA |
|-----------------------------------|----|
| Report of disease is not required | NN |
| in that jurisdiction              |    |
| (not notifiable)                  |    |

ACQUIRED IMMUNODEFICIENCY SYNDROME (AIDS) — reported cases per 100,000 population, United States, Puerto Rico, and Virgin Islands, 1998



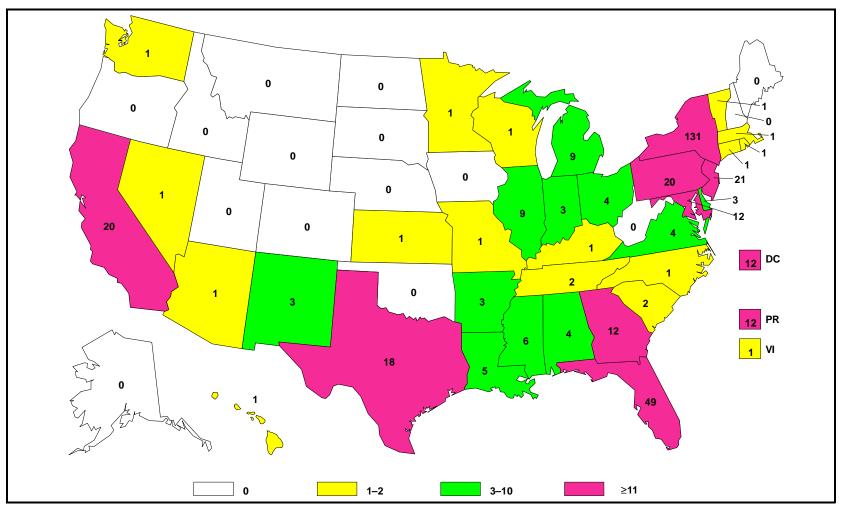
In 1998, the highest rates of reported AIDS cases per 100,000 population were in the northeastern, southern, and western states. Fifty-seven percent (57%) of reported AIDS cases occurred in New York, Florida, New Jersey, California, and Texas.



\*Includes Guam, Puerto Rico, the U.S. Pacific Islands, and the U.S. Virgin Islands.

The expansion of the AIDS surveillance case definition in 1993 caused a substantial increase in reported cases. However, new treatments have slowed the progression from human immunodeficiency virus (HIV) infection to AIDS and from AIDS to death. Consequently, the number of new AIDS cases is declining, and the number of persons living with HIV infection and AIDS is increasing.

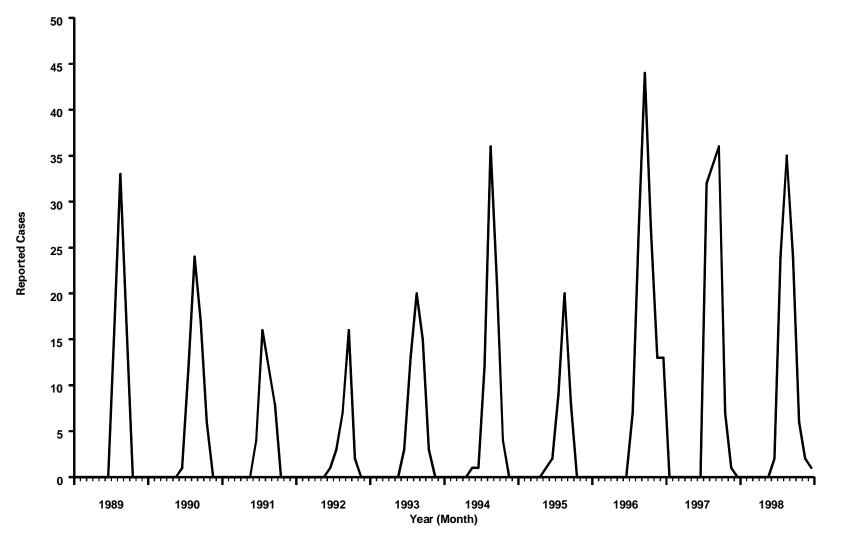
ACQUIRED IMMUNODEFICIENCY SYNDROME (AIDS) — reported pediatric cases,\* United States, Puerto Rico, and Virgin Islands, 1998



<sup>\*</sup>Children and adolescents aged <13 years.

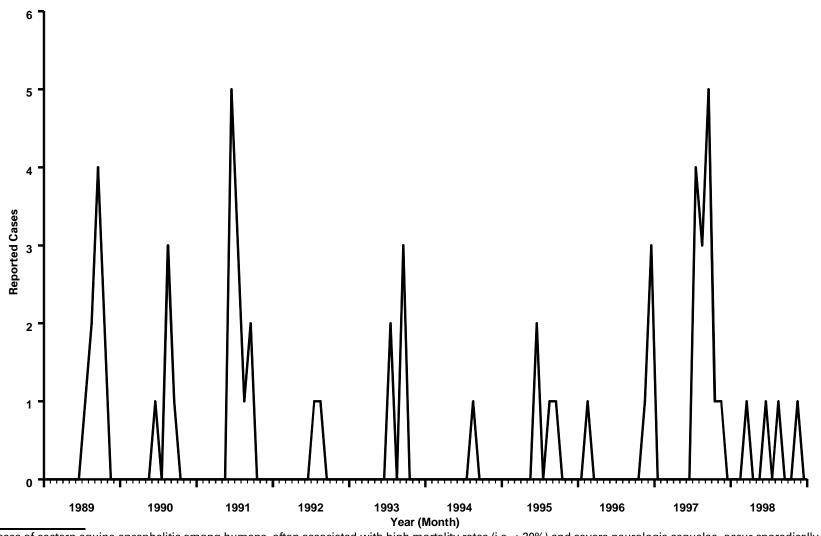
Trends in AIDS incidence among children continued to demonstrate the success of efforts to reduce perinatal (i.e., mother-to-child) human immunodeficiency virus (HIV) transmission and, more recently, the use of anti-retroviral treatments that slow the progression from HIV infection to AIDS. During 1992–1997, the number of perinatally acquired cases declined 67%. Despite these declines, new cases continue to occur among children aged <13 years who are disproportionally from racial and ethnic minority populations.

ARBOVIRAL ENCEPHALITIS — reported cases caused by California serogroup viruses, by month of onset, United States, 1989–1998



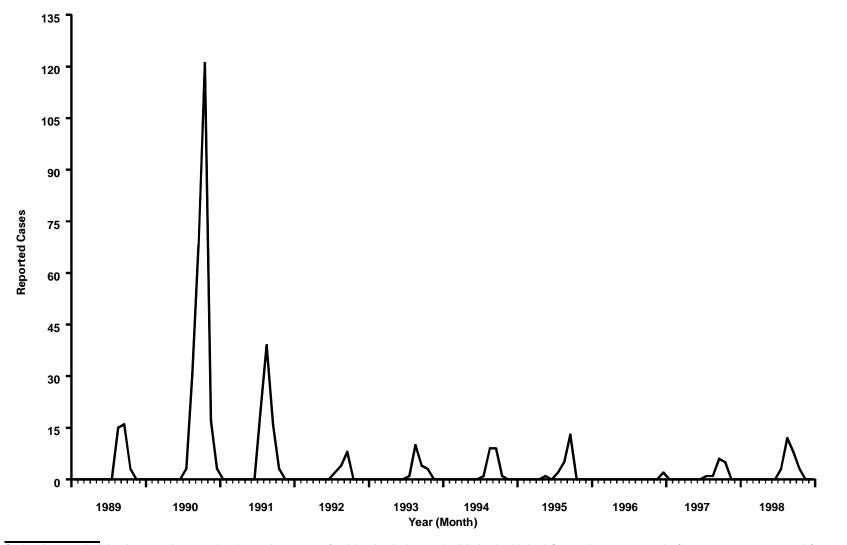
California serogroup viruses (mainly LaCrosse virus in the eastern United States) are an endemic cause of encephalitis, especially among children. In 1998, a total of 97 cases were reported from 11 states. During 1964–1998, a median of 65 cases (average: 74) were reported each year in the United States.

ARBOVIRAL ENCEPHALITIS — reported cases caused by eastern equine encephalitis virus, by month of onset, United States, 1989–1998

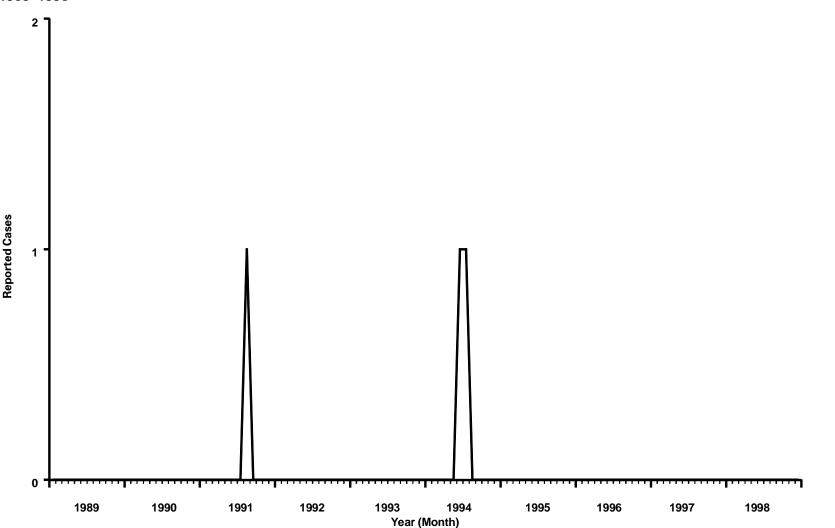


Cases of eastern equine encephalitis among humans, often associated with high mortality rates (i.e., >20%) and severe neurologic sequelae, occur sporadically in the eastern United States. During 1998, four cases were reported from four states. During 1964–1998, a median of 4 cases (average: 5) were reported each year in the United States.

ARBOVIRAL ENCEPHALITIS — reported cases caused by St. Louis encephalitis virus, by month of onset, United States, 1989–1998

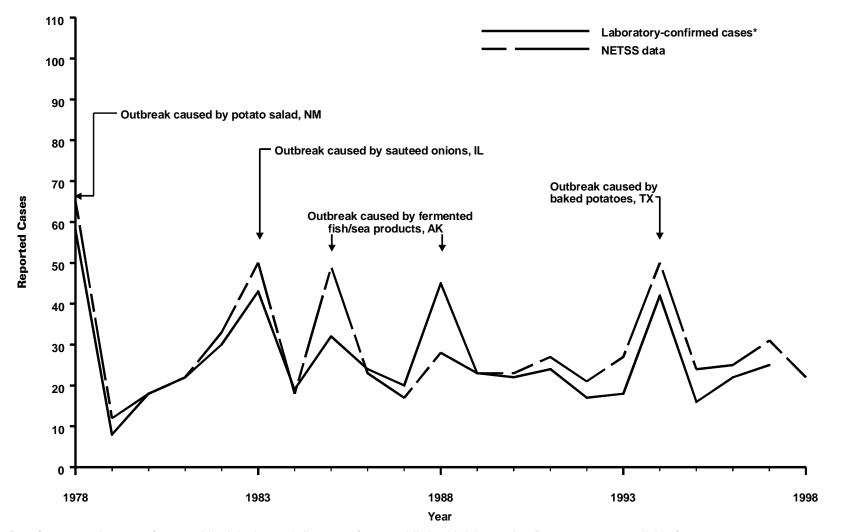


St. Louis encephalitis virus continues to be the major cause of epidemic viral encephalitis in the United States. In 1998, a total of 24 cases were reported from three states. During 1964–1998, a median of 26 cases (average: 128) were reported each year in the United States.



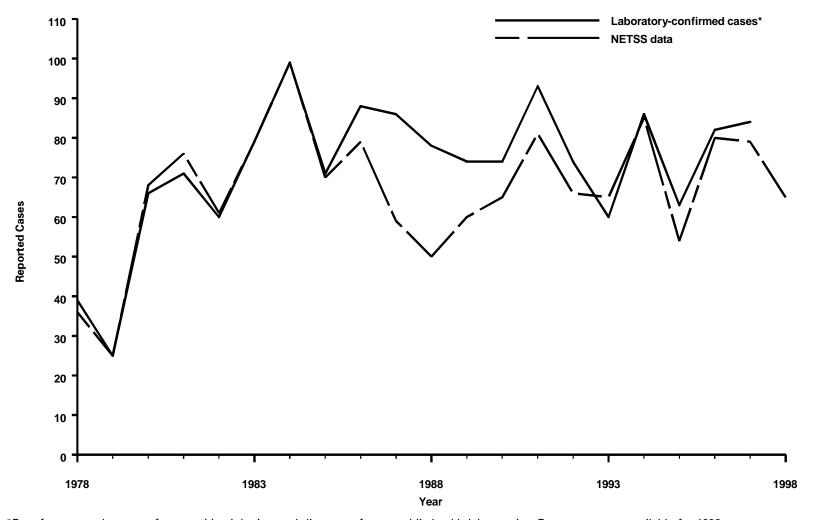
The most recent epidemic of western equine encephalitis occurred in Colorado in 1987. The reasons for the recent absence of epidemic transmission are not fully understood. During 1964–1998, a median of 3 cases (average: 19) were reported each year in the United States.

BOTULISM (foodborne) — by year, United States, 1978-1998



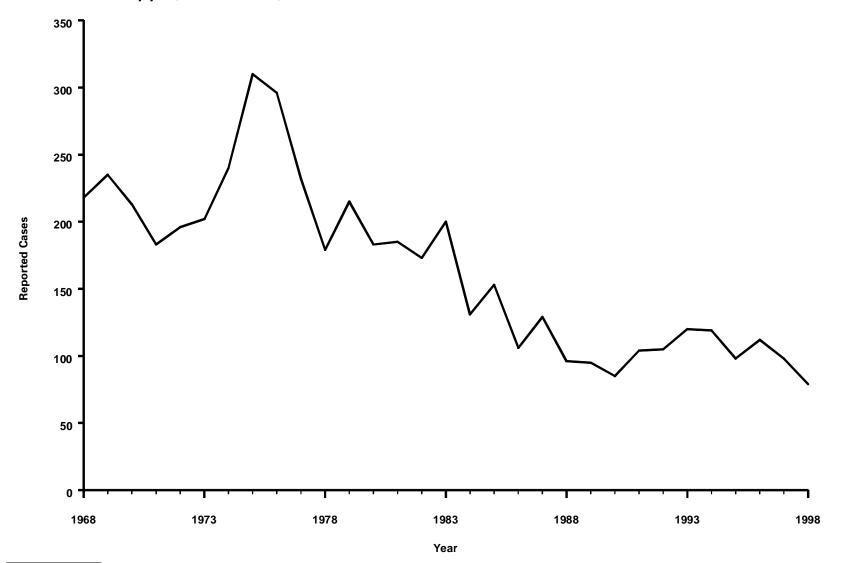
<sup>\*</sup>Data from annual survey of state epidemiologists and directors of state public health laboratories. Data are not yet available for 1998.

Although outbreaks of foodborne botulism occur infrequently, they can rapidly kill many affected persons. Such outbreaks require prompt and effective communication among clinicians and public health officials.



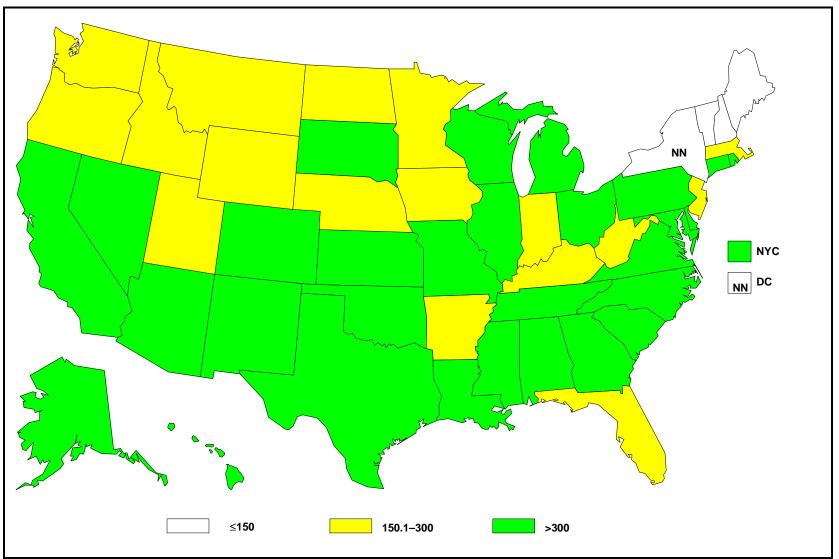
<sup>\*</sup>Data from annual survey of state epidemiologists and directors of state public health laboratories. Data are not yet available for 1998.

#### BRUCELLOSIS — by year, United States, 1968–1998



After peaking at >300 cases in 1975, the number of brucellosis cases has declined and, for the last 10 years, has remained relatively stable at approximately 100 cases per year.

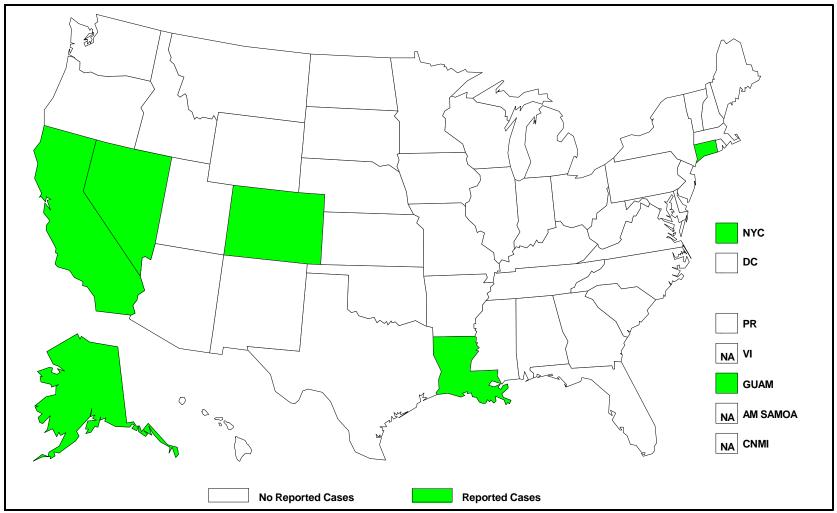
29



Chlamydia refers to genital infections caused by *C. trachomatis*. In 1998, the chlamydia rate among women was 382.2 cases per 100,000 population. The rates for men are not presented because reporting for men is more limited than it is for women.

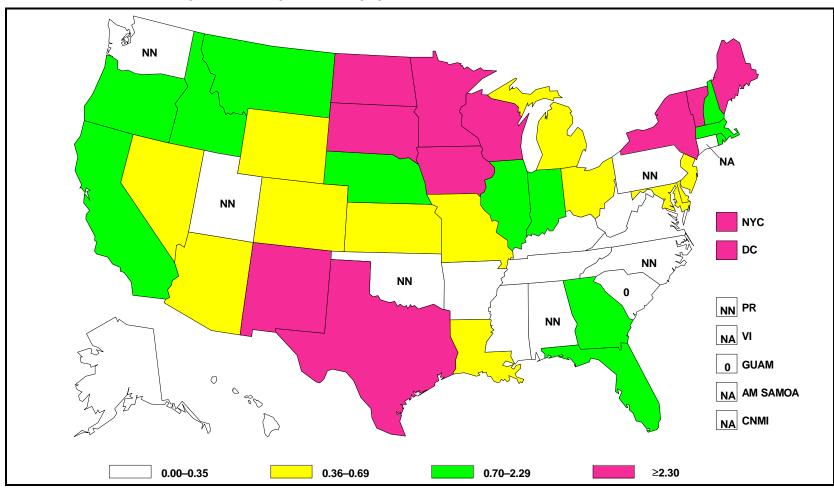
December 31, 1999

CHOLERA — reported cases, United States and territories, 1998



In recent years, cholera has been primarily a disease of travelers to Latin America, Asia, and Africa, although cases are occasionally acquired from contaminated seafood in the United States.

#### CRYPTOSPORIDIOSIS — reported cases per 100,000 population, United States and territories, 1998

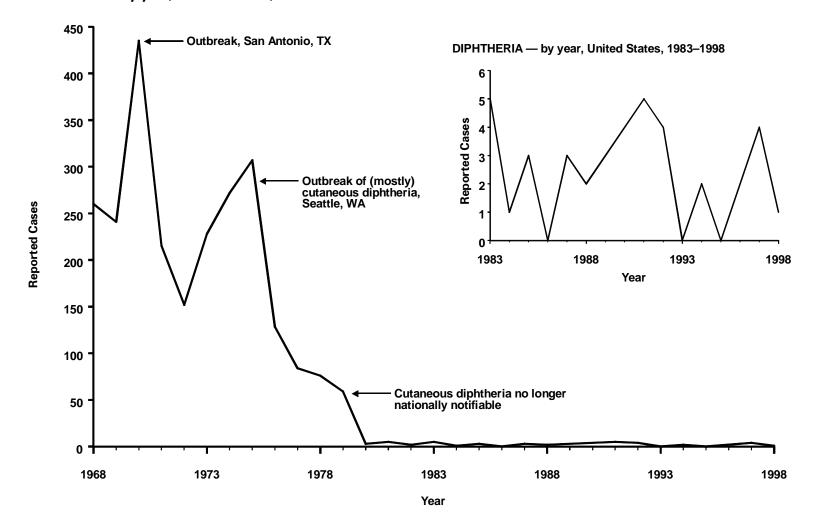


In 1998, cryptosporidiosis was not a reportable disease in six states (Alabama, North Carolina, Oklahoma, Pennsylvania, Utah, and Washington) and Puerto Rico.

Outbreaks can substantially influence cryptosporidiosis rates reported by states. In 1998, waterborne (i.e., drinking or recreational) or foodborne outbreaks were reported from Florida, Nebraska, New Mexico, Oregon, Texas, Wisconsin, and the District of Columbia.

Case-detection and reporting rates can be higher in states that participate in CDC's FoodNet or Emerging Infectious Diseases Program. In 1998, participating states included California, Connecticut, Georgia, New York, Maryland, Minnesota, and Oregon.

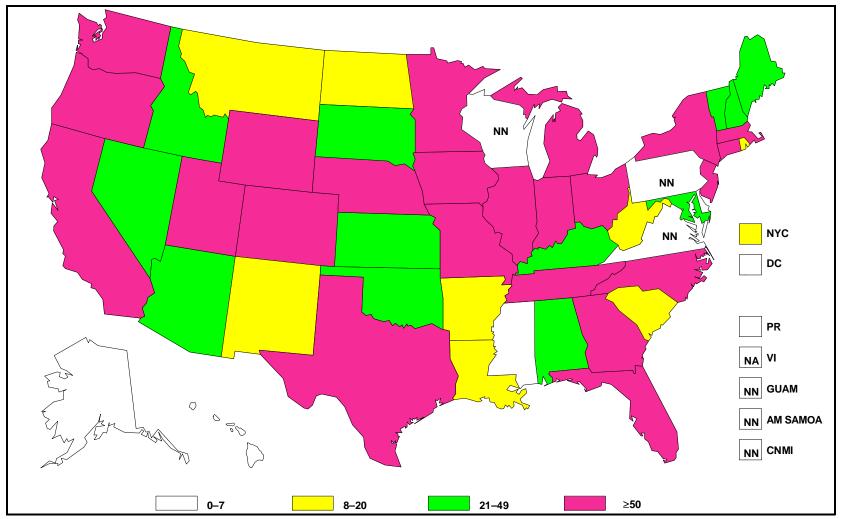
DIPHTHERIA — by year, United States, 1968-1998



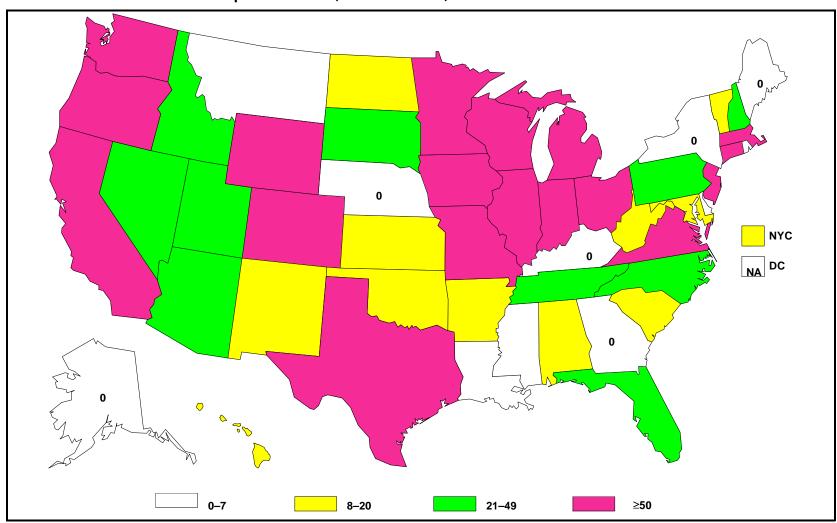
Respiratiory diphtheria continues to be rare in the United States; only one probable case was reported in 1998.

Note: A diphtheria vaccine was first licensed in 1949.

ESCHERICHIA COLI 0157:H7 — reported cases, United States and territories, 1998

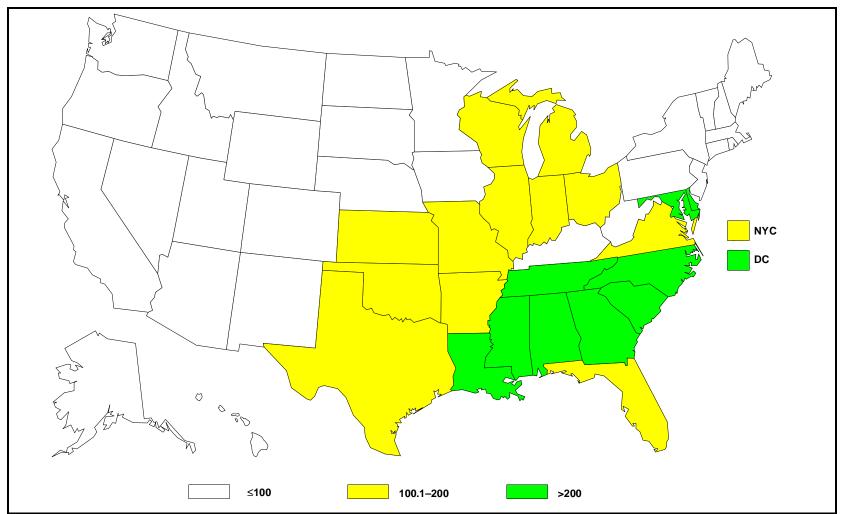


The number of states in which *Escherichia coli* O157:H7 infection is a notifiable disease increased to 47 in 1998. However, because <60% of clinical laboratories routinely test all stool specimens — or even all bloody stool specimens — for *E. coli* O157:H7, many infections are not recognized or reported.



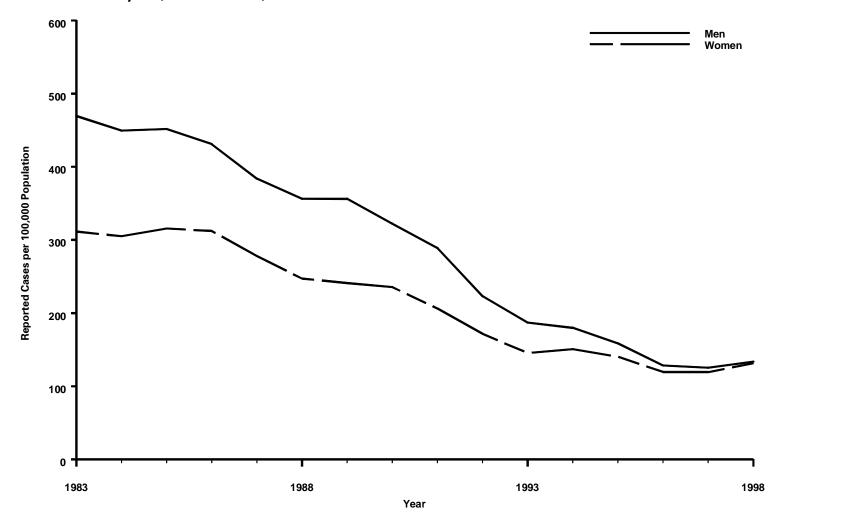
\*Data from the Public Health Laboratory Information System (PHLIS).

Only Escherichia coli O157:H7 isolates that are confirmed by a state public health laboratory are reported to PHLIS. Many public health laboratories are now able to subtype isolates using pulsed-field gel electrophoresis and compare their findings electronically with other states through the National Molecular Subtyping Network for Foodborne Disease Surveillance (PulseNet).

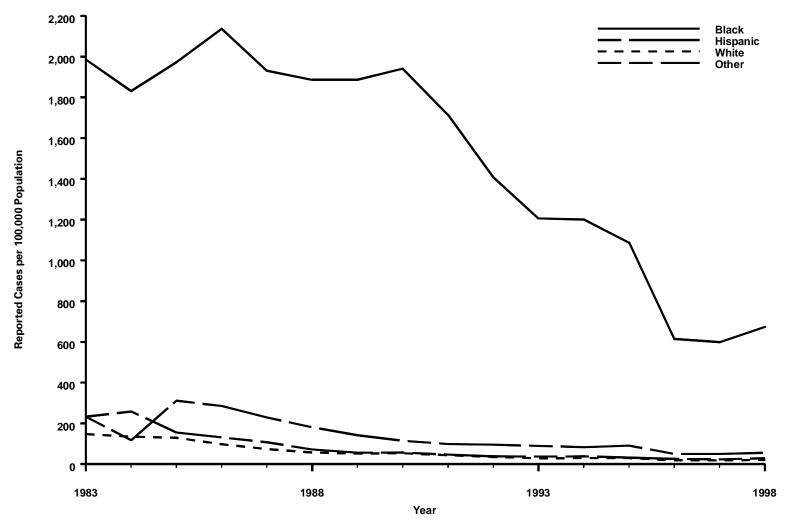


The overall U.S. rate of gonorrhea in 1998 was 132.9 cases per 100,000 population. Twenty-eight states reported gonorrhea rates below the revised *Healthy People 2000* national objective.

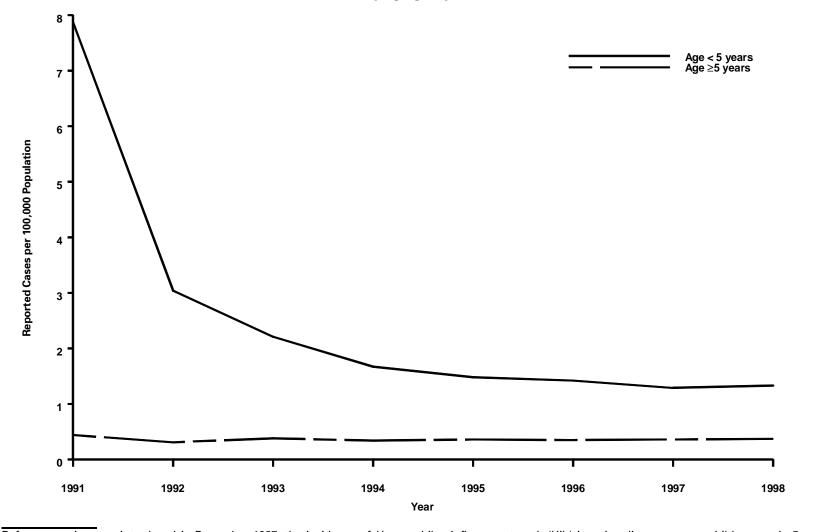
Note: The revised *Healthy People 2000* national objective is ≤100 cases per 100,000 population.



In 1998, the overall reported rate of gonorrhea in the United States was 132.9 cases per 100,000 population, an increase of 8.9% compared with 1997, when the rate was 122.0. Among men, the rate increased from 124.9 per 100,000 population in 1997 to 133.8 in 1998. Among women, the rate increased from 119.0 to 131.5 in 1998. (Data from the Division of Sexually Transmitted Diseases Prevention, National Center for HIV, STD, and TB Prevention.)

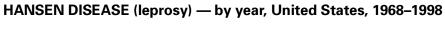


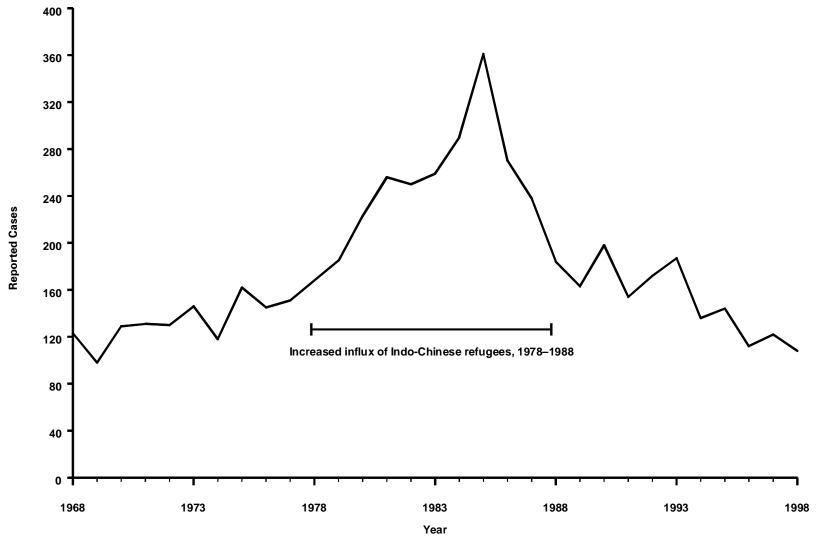
**December 31, 1999** 



Before a vaccine was introduced in December 1987, the incidence of *Haemophilus influenzae* type b (Hib) invasive disease among children aged <5 years was estimated to be 100 per 100,000. In 1998, a total of 255 cases of all serotypes of *H. influenzae* invasive disease were reported among children aged <5 years (incidence: 1.3 per 100,000 children); 61 (23%) cases were caused by Hib. (Data from the National Immunization Program.)

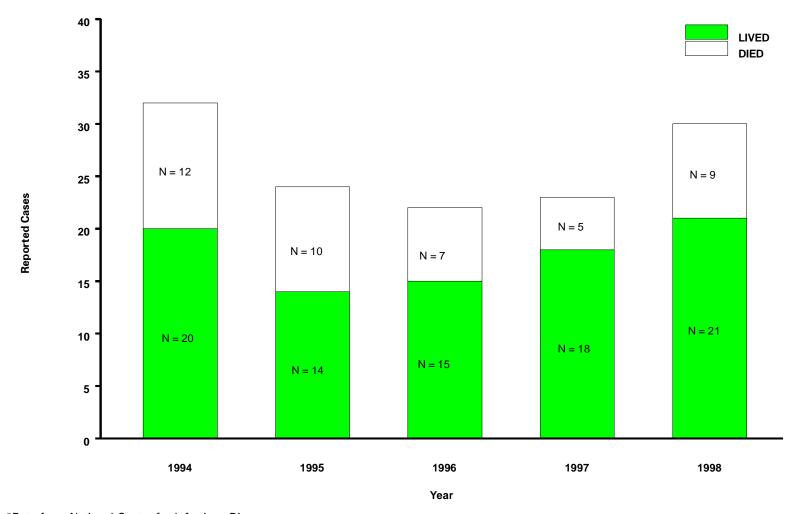






In 1998, a total of 108 cases of Hansen disease were reported in the United States. The number of cases peaked at 361 in 1985; since 1988, the number has remained relatively stable.

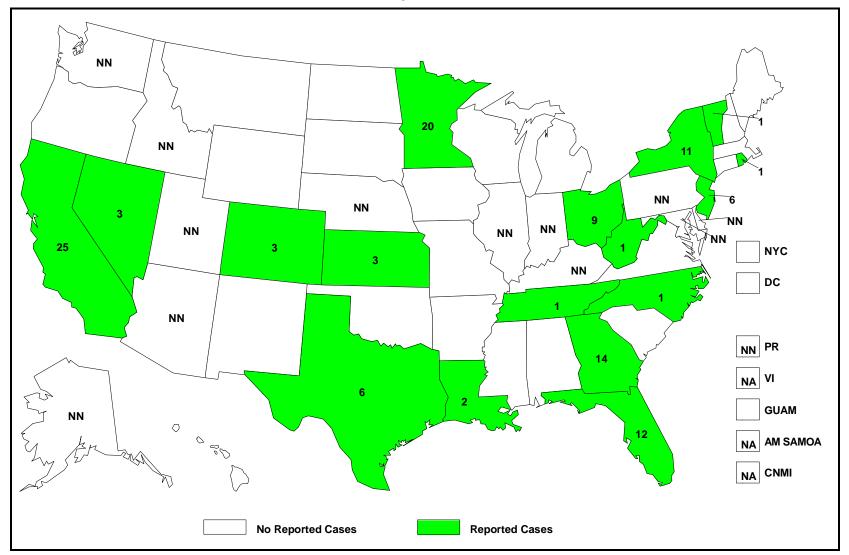
#### HANTAVIRUS PULMONARY SYNDROME — by survival status,\* by year, United States, 1994–1998



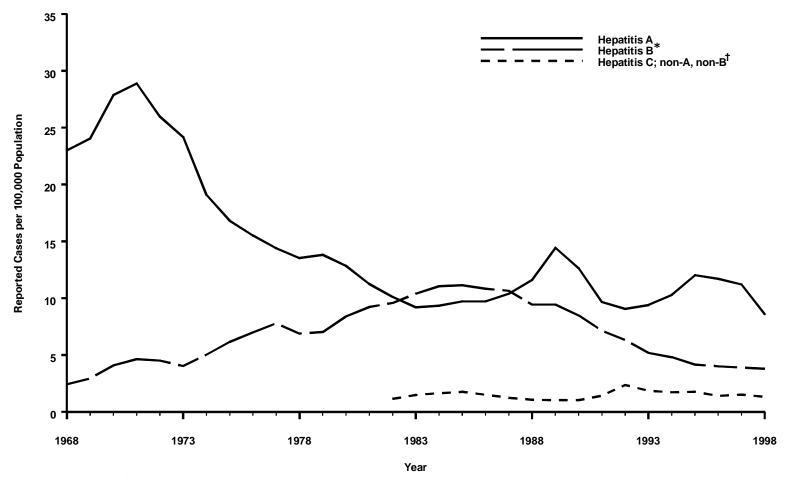
<sup>\*</sup>Data from National Center for Infectious Disease.

In 1998, a total of 15 (50%) of the confirmed cases of hantavirus pulmonary syndrome (HPS) were reported from Arizona, Colorado, New Mexico, and Utah — the largest number of cases from the Four Corners region since 1994 (17 cases). During 1995–1997, the average number of HPS cases from this region each year was four. An additional three cases with preliminary clinical and serologic evidence of HPS with onset in 1998 are under investigation.

#### HEMOLYTIC UREMIC SYNDROME, POSTDIARRHEAL — reported cases, United States and territories, 1998



In the United States, nearly all cases of postdiarrheal hemolytic uremic syndrome are caused by infection with *Escherichia coli* 0157:H7 or other *E. coli* bacteria that produce Shiga toxin.

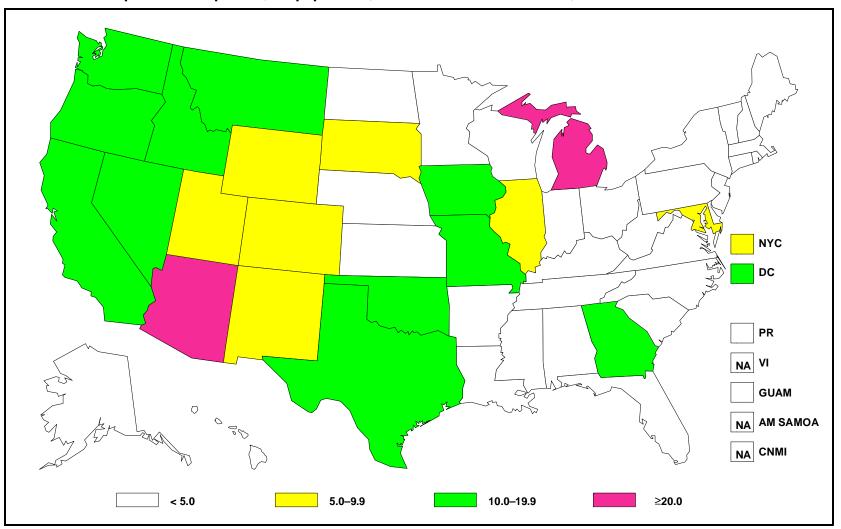


Cyclic peaks in hepatitis A occur approximately every ten years. In 1998, hepatitis A rates continued to decline after peaking at 12.1 cases per 100,000 in 1995. The ongoing decline in hepatitis B since the mid-1980s is attributed to a decrease in the number of cases among injecting-drug users and a decline in cases associated with both male homosexual practices and heterosexual practices. The increase observed in non-A, non-B hepatitis after 1990 is misleading because, in some states, reported cases have included those among persons identified in routine screening programs as testing positive for antibody to hepatitis C virus but not exhibiting symptoms of acute hepatitis.

<sup>\*</sup>A hepatitis B vaccine was first licensed in June 1982.

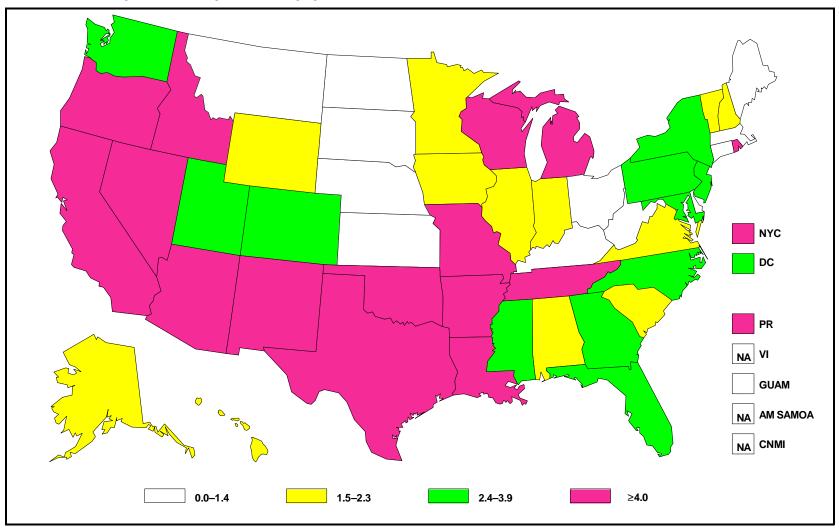
†An anti-HCV (hepatitis C virus) antibody test first became available in May 1990.

HEPATITIS A — reported cases per 100,000 population, United States and territories, 1998

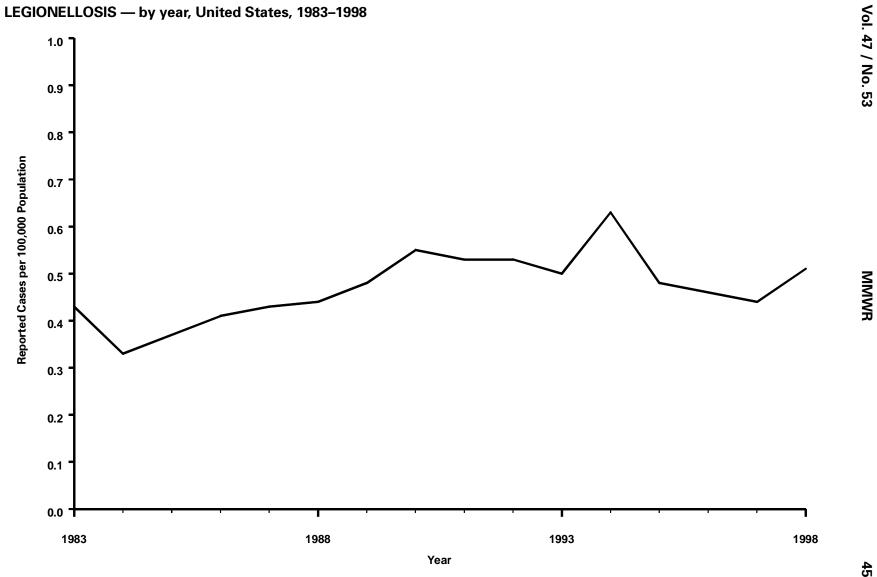


As in previous years, the rate of hepatitis A virus (HAV) infection in the western United States in 1998 was three times the average rate in other regions. The Advisory Committee on Immunization Practices (ACIP) recently recommended routine HAV vaccination for children living in states with consistently elevated HAV infection rates as the approach most likely to prevent and control transmission of this disease (MMWR 1999;48[RR-12]).

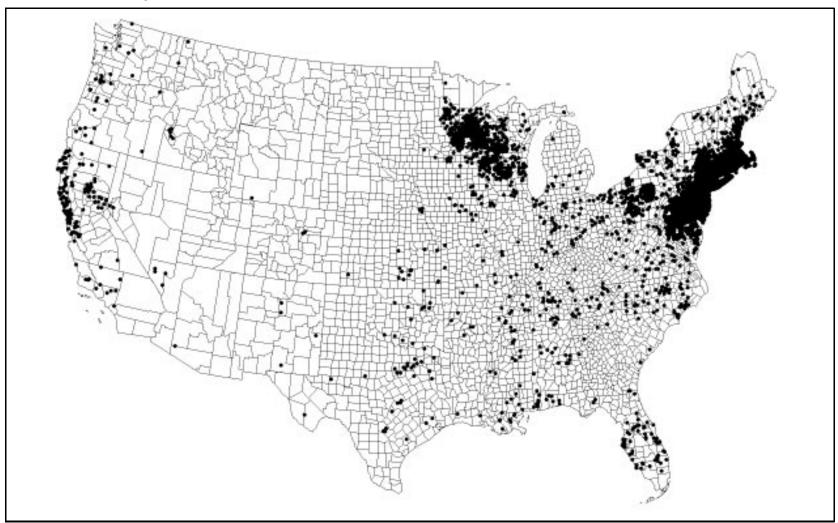
HEPATITIS B — reported cases per 100,000 population, United States and territories, 1998



Although hepatitis B virus (HBV) infection continues to decline in most states, reported cases represent only a fraction of actual cases. Seroprevalence data from the National Health and Nutrition Examination Survey indicate that 5% of persons (12.5 million persons) living in the United States have been infected with HBV — approximately 300,000 persons each year during the preceding two decades.

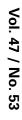


In 1998, the overall reported rate of legionellosis in the United States was 0.51 cases per 100,000 population. However, data from prospective, population-based studies of persons with pneumonia indicate that the actual rate of legionellosis is more than 10-fold this number.

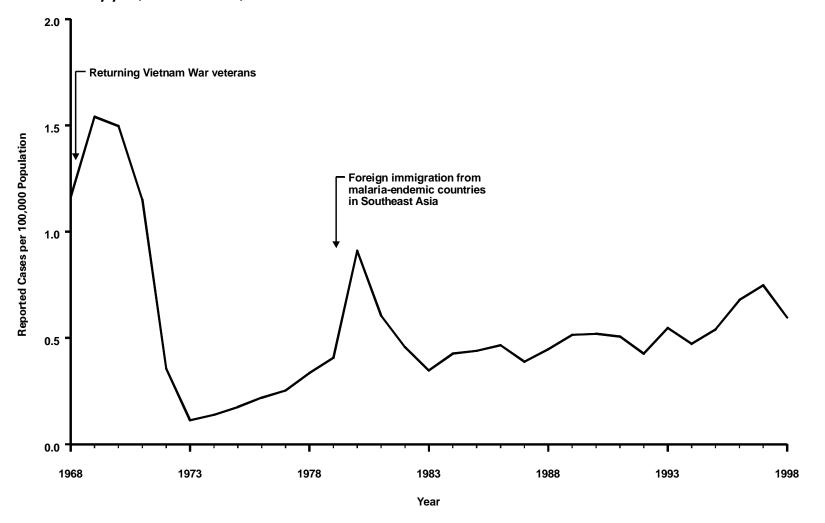


\*One case=one dot randomly placed in the patient's county of residence.

In 1998, a total of 16,801 cases of Lyme disease were reported, the highest number of cases ever reported. In December 1998, a new Lyme disease vaccine was approved by the U.S. Food and Drug Administration. The Advisory Committee on Immunization Practices (ACIP) issued recommendations for the use of this vaccine in June 1999 (MMWR 1999;48[RR-7]).

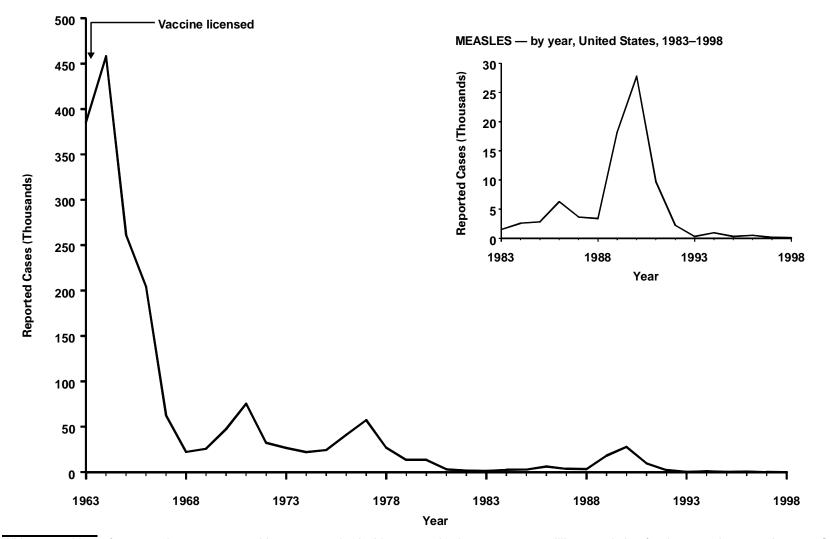






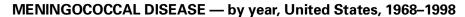
The increasing number of imported malaria cases in the preceding decade is probably related to several factors, including a) increased foreign travel to and from malaria-endemic areas, some of which have higher rates of malaria transmission; b) inadequate chemoprophylaxis used by travelers; and c) increasing antimalarial drug resistance.

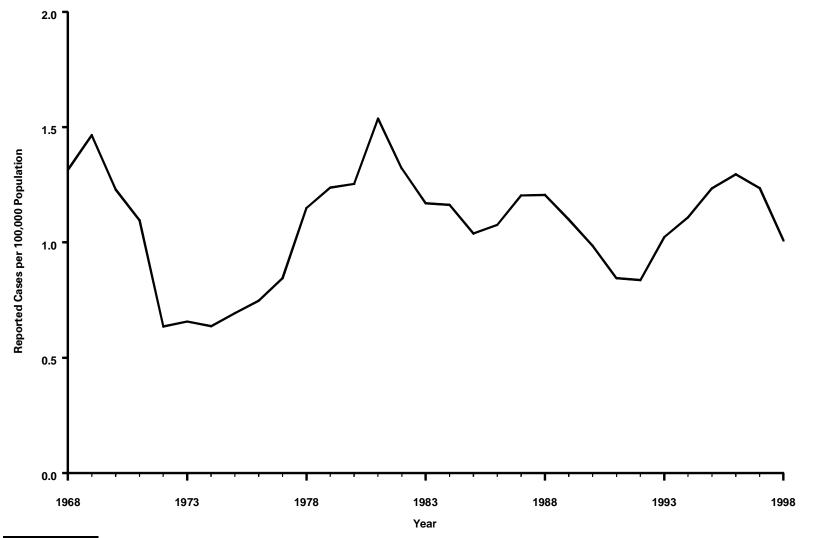
**December 31, 1999** 



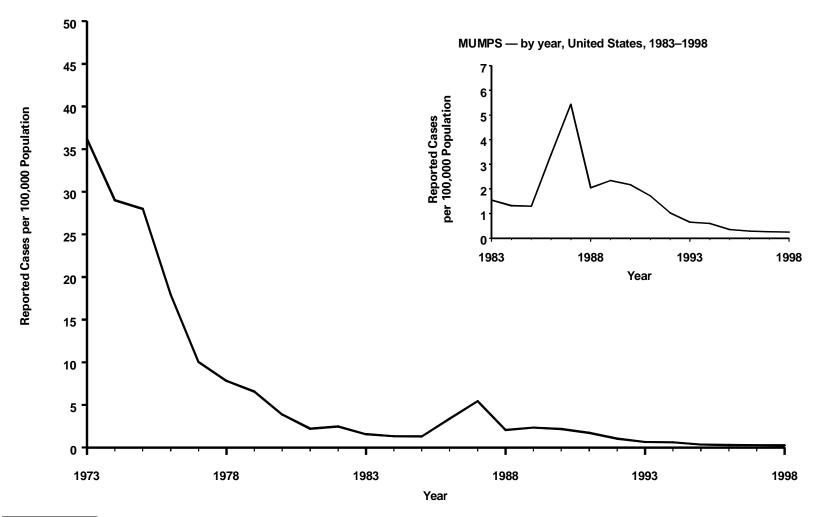
With a record low of 100 measles cases reported in 1998, measles incidence remained at <1 case per million population for the second consecutive year. Of the 100 cases reported, 71% were associated with international importation, suggesting measles is no longer an indigenous disease in the United States.





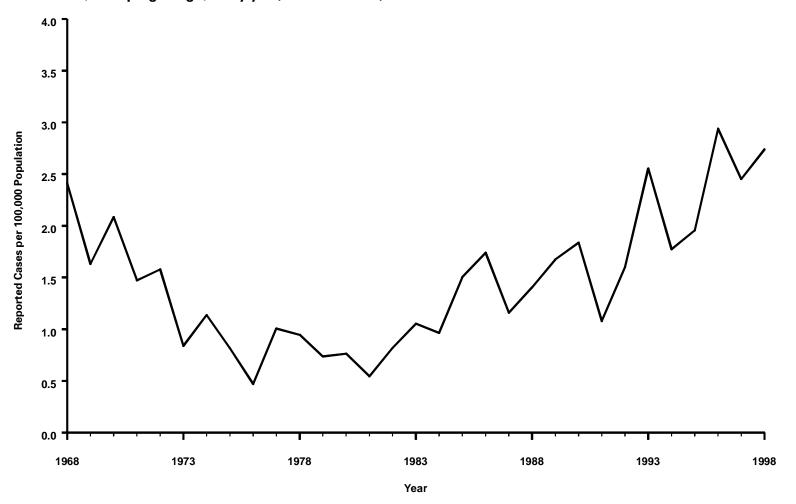


Although overall rates of meningococcal disease have remained relatively stable in the United States during the preceding 10 years, case-fatality rates remain elevated. Of the 1,186 (43%) of patients with outcome reported in 1998, a total of 14.4% died. In 1998, serogroup information was reported for 33% of patients. Serogroup Y accounted for 34% of cases in which the serogroup was reported. Most other cases were caused by serogroup B (29%) or serogroup C (29%).



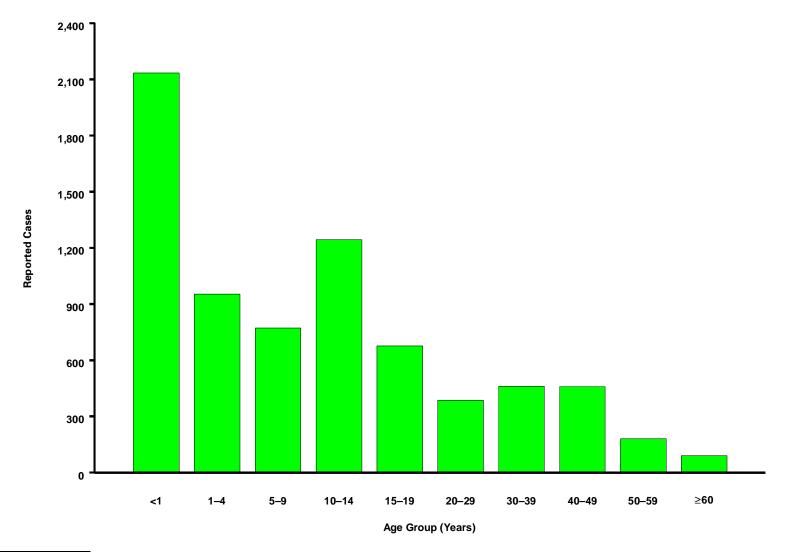
In 1998, a record low number of 666 mumps cases was reported in the United States.

Note: A mumps vaccine was first licensed in December 1967.



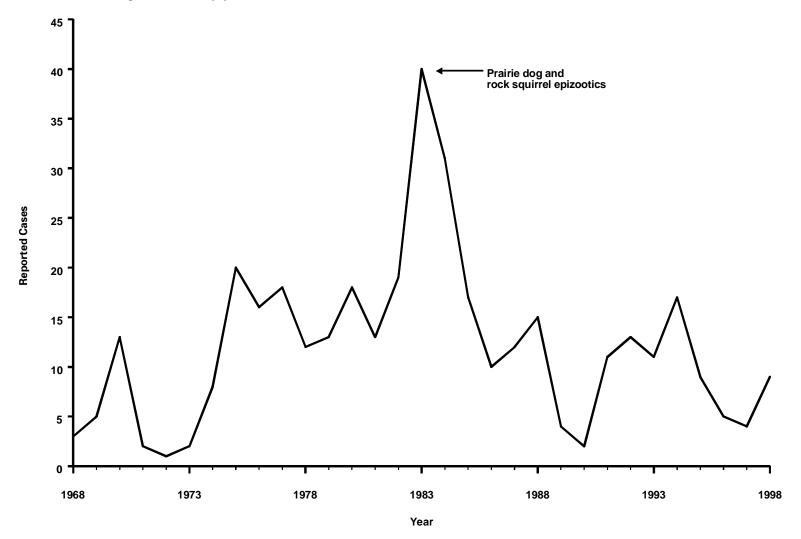
Pertussis epidemics occur every 3–4 years. During the last epidemic (1996), the highest number of pertussis cases (7,796) since 1967 was reported (incidence: 2.9 cases per 100,000 population). Since 1993, the number of cases reported after each epidemic year has not returned to the baseline of the preepidemic year.

Note: A pertussis vaccine was first licensed in 1949.



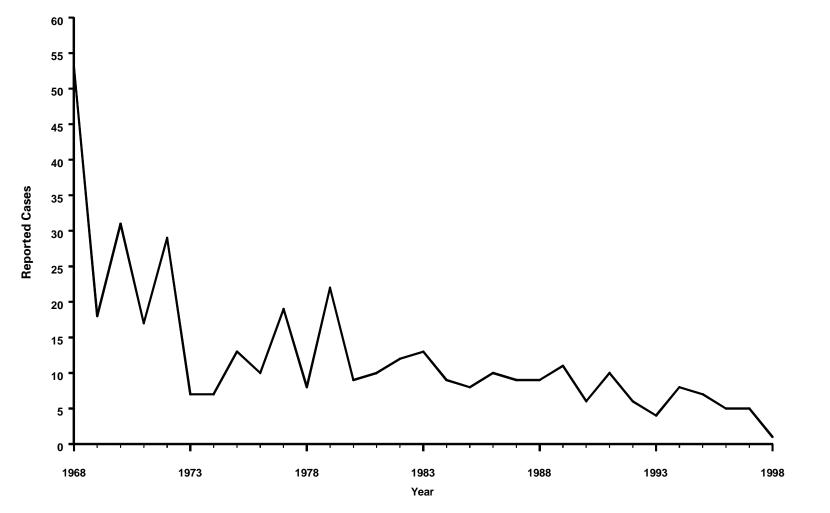
Although the highest number of reported cases continues to be among children aged <1 year, pertussis cases among adolescents and adults increasingly are being reported to CDC. In 1998, a total of 47% of all reported pertussis cases occurred among persons aged ≥10 years. By comparison, during 1990–1992, 1993–1995, and 1996–1997, the proportion of reported pertussis cases among persons aged ≥10 years was 24%, 29%, and 45%, respectively.

PLAGUE — among humans, by year, United States, 1968-1998



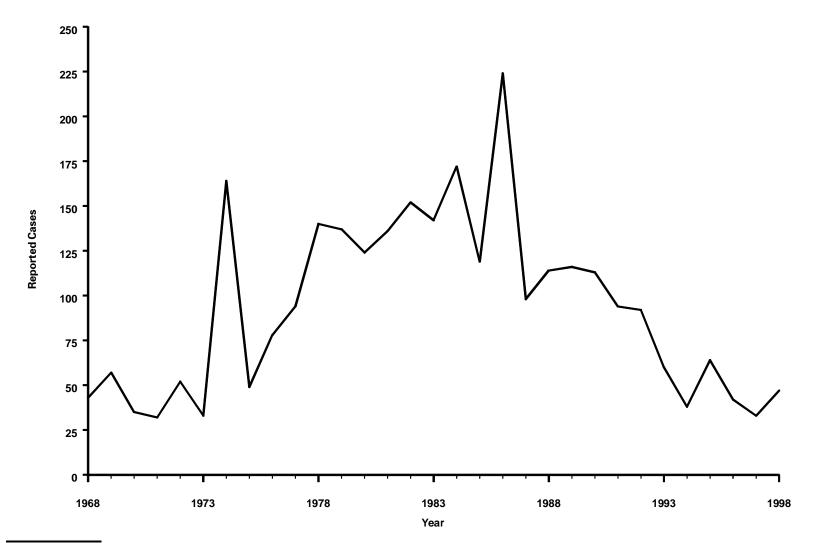
In 1998, nine cases of plague among humans were reported in the United States (six cases in New Mexico, one in Arizona, one in California, and one in Colorado). No cases were fatal.





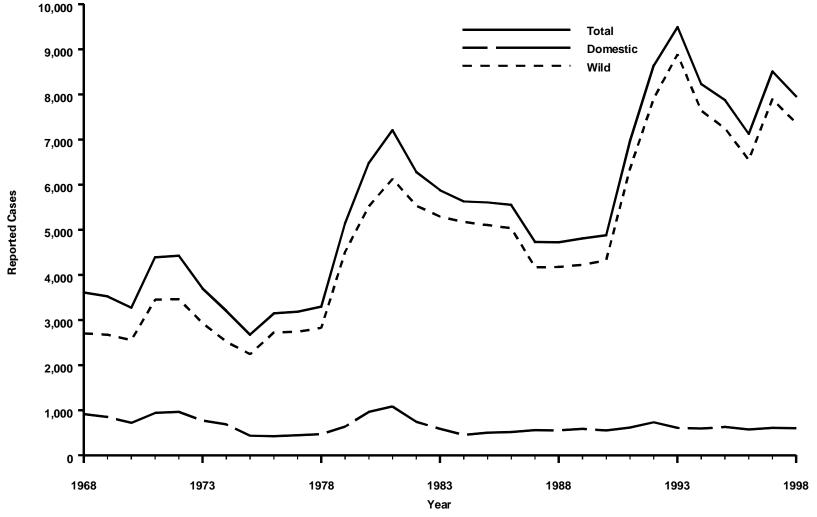
On July 16, 1999, the Advisory Committee for Immunization Practices (ACIP) recommended an all inactivated polio vaccine (IPV) schedule for routine, childhood polio vaccination in the United States. As of January 1, 2000, all children should receive four doses of IPV — at ages 2 months, 4 months, 6–18 months, and 4–6 years.

Note: An inactivated poliomyelitis vaccine was first licensed in 1955. An oral vaccine was licensed in 1961.



The number of psittacosis cases can vary from year to year because of periodic outbreaks. The apparent increase in cases from the late 1970s to the mid-1980s might reflect greater application of diagnostic tests for *Chlamydia* species among patients with respiratory illness. The lower number of cases in recent years might reflect both improved diagnostic testing to distinguish *C. psittaci* from *C. pneumoniae* infections and improved control measures for *C. psittaci* infection among birds.

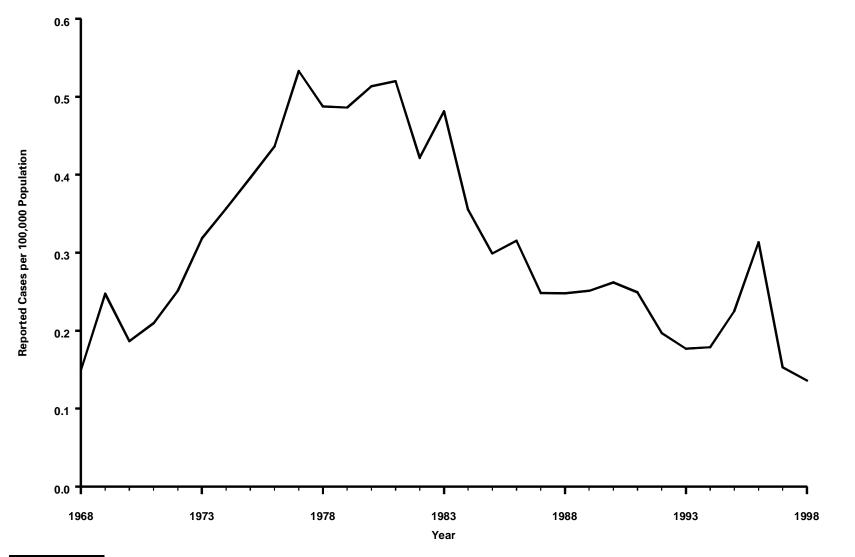
RABIES — wild and domestic animals, by year,\* United States and Puerto Rico, 1968-1998



<sup>\*</sup>Data from the National Center for Infectious Diseases.

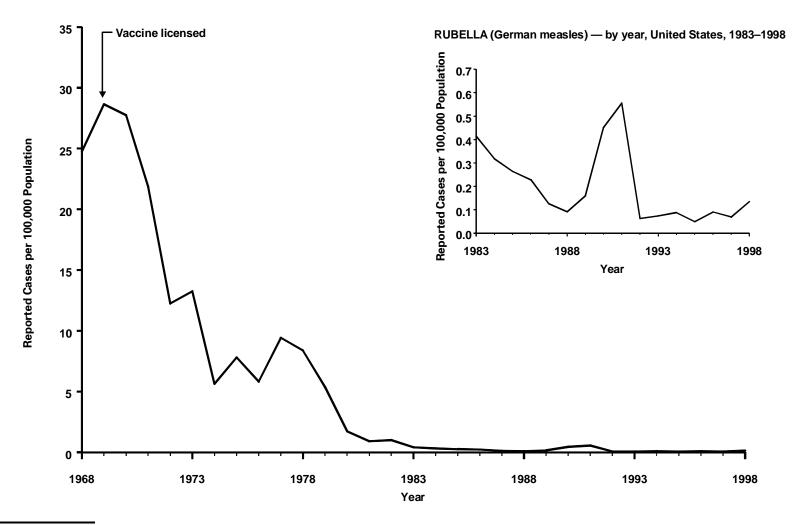
Periods of resurgence and decline of rabies incidence are primarily the result of cyclic reemergence, mainly among raccoons in the eastern United States. Wildlife populations increase and reach densities sufficient to support epizootic transmission of the disease, resulting in substantial increases in reported cases. As populations are decimated by these epizootics, numbers of reported cases decline until populations again reach levels to support epizootic transmission of the disease.



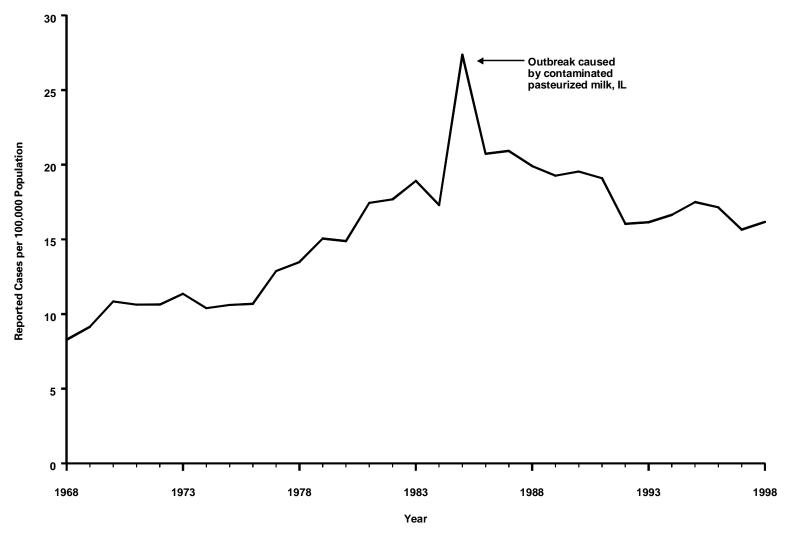


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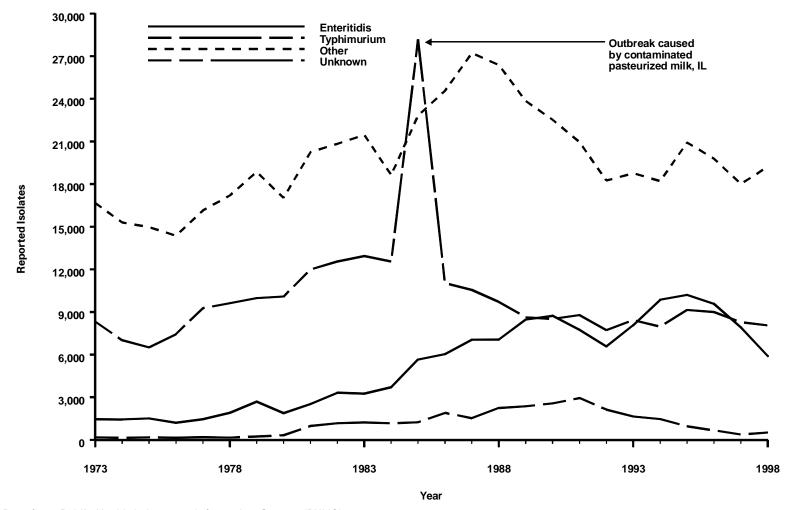
Changes in the number of reported cases of Rocky Mountain spotted fever might reflect alterations to surveillance algorithms for this and other tickborne diseases. Biological factors (e.g., changes in tick populations resulting from fluctuating environmental conditions) also could be involved.



Since 1994, the incidence of rubella has remained at record low levels in the United States. In 1998, a total of 74% of reported rubella cases occurred among persons aged ≥20 years.



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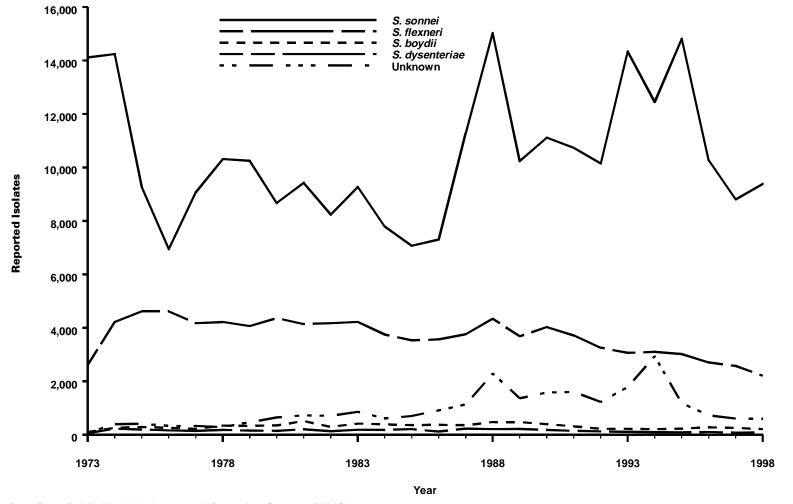
<sup>\*</sup>Data from Public Health Laboratory Information System (PHLIS).

In 1998, a new food vehicle, cold breakfast cereal, caused an outbreak of Salmonella serotype Agona infections that resulted in 409 culture-confirmed cases in 22 states. As a result of the outbreak investigation, two million pounds of cereal were recalled.

SHIGELLOSIS — by year, United States, 1968–1998



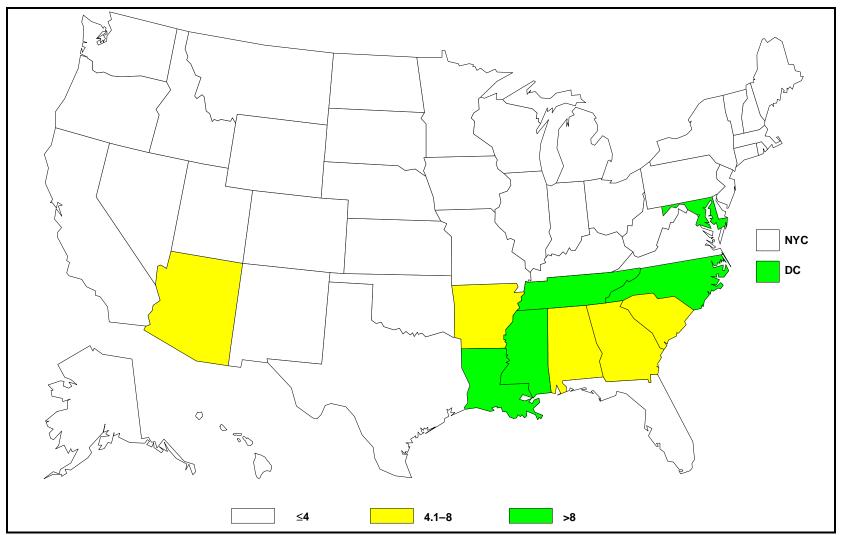
SHIGELLA — species of isolate by year,\* United States, 1973-1998



\*Data from Public Health Laboratory Information System (PHLIS).

In 1998, a large international outbreak of *Shigella sonnei* caused by contaminated parsley led to secondary transmission in child-care centers. Improvements in food safety could lead to a decrease in cases of shigellosis.

SYPHILIS, PRIMARY AND SECONDARY — reported cases per 100,000 population, United States, 1998

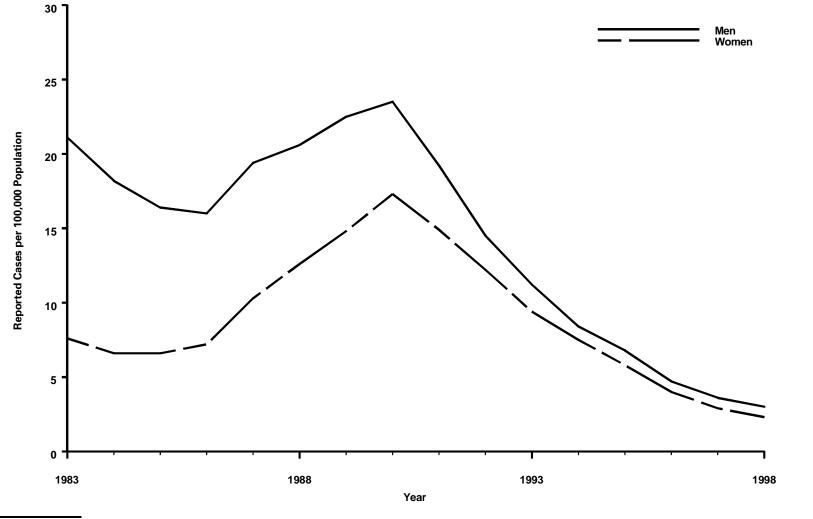


In 1998, the U.S. rate of primary and secondary syphilis was 2.6 cases per 100,000 population — below the revised *Healthy People 2000* national objective. Forty states reported rates below the national objective, and 14 states reported ≤5 cases.

Note: The revised *Healthy People 2000* national objective is ≤4.0 cases per 100,000 population.

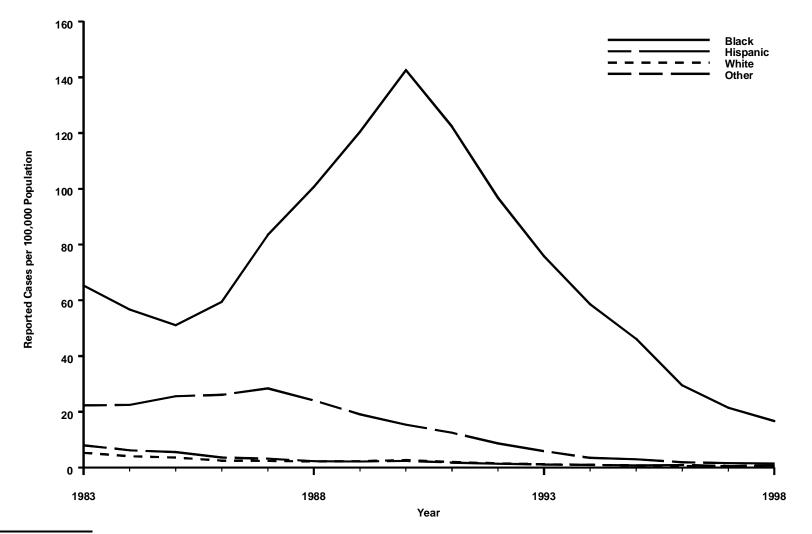
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The reported rate of primary and secondary syphilis in the United States continues to decline, with 1998 rates among both males and females below the Healthy People 2000 national objective of 4.0 cases per 100,000 population. Among men, the rate decreased from 3.6 cases per 100,000 population in 1997 to 3.0 in 1998. Among women, the rate decreased from 2.9 cases per 100,000 population in 1997 to 2.3 in 1998.





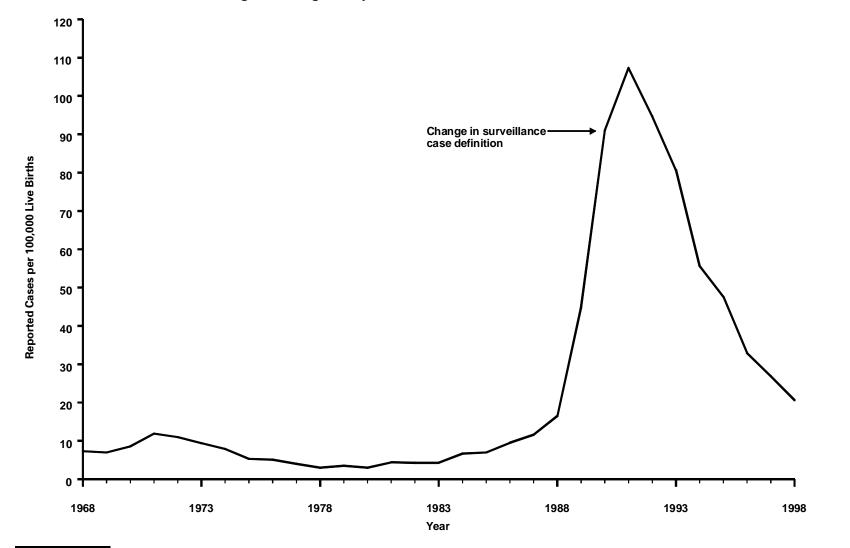
In 1998, primary and secondary syphilis rates for all racial and ethnic groups declined except among American Indians/Alaskan Natives (included in the "Other" race and ethnicity category). However, the rate for non-Hispanic blacks in 1998 (i.e., 17.1 cases per 100,000 population) was 34-fold greater than the rate for non-Hispanic whites.

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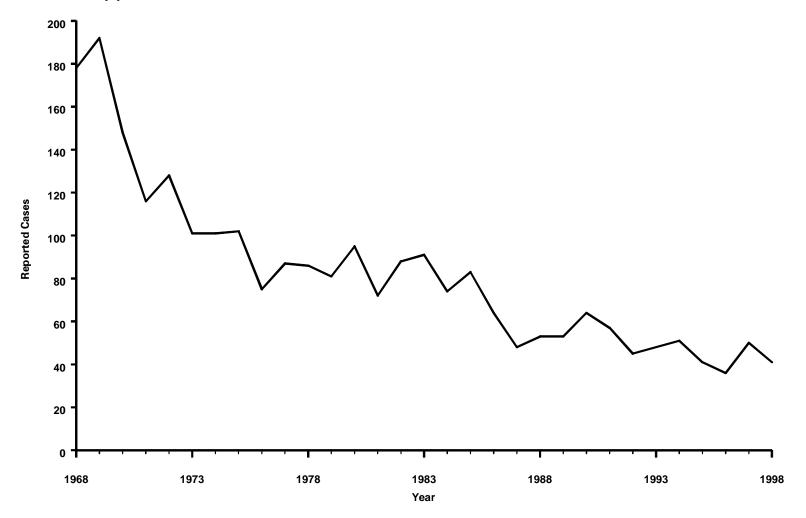
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SYPHILIS, CONGENITAL — among infants aged <1 year, United States, 1968–1998



The rate of congenital syphilis decreased from 27.5 cases per 100,000 live births in 1997 to 20.6 in 1997. (Data from the Division of Sexually Transmitted Diseases Prevention, National Center for HIV, STD, and TB Prevention.)

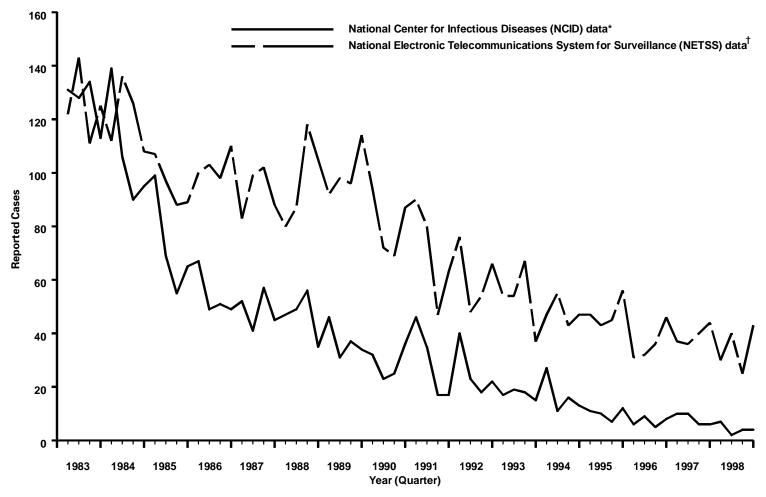
TETANUS — by year, United States, 1968–1998



Of the 41 cases of tetanus reported in 1998, nine (22%) were among persons aged <25 years.

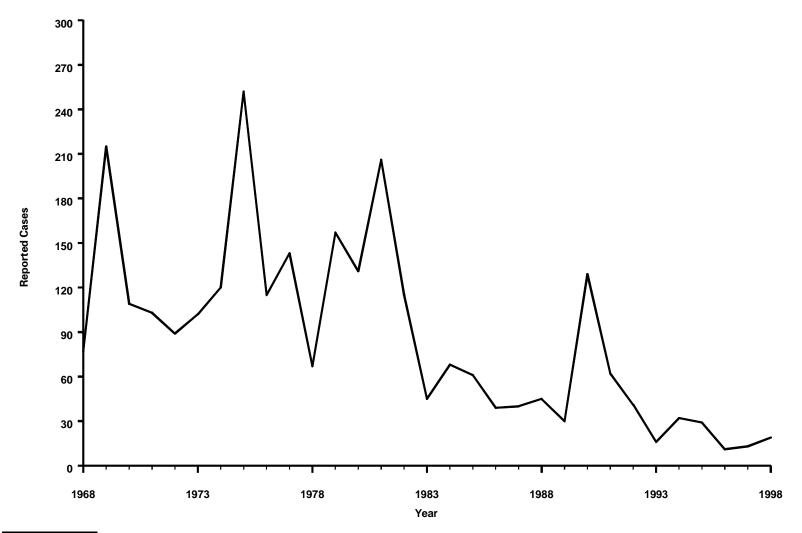
Note: A tetanus vaccine was first available in 1933.

# TOXIC-SHOCK SYNDROME (TSS) — by quarter, United States, 1983-1998



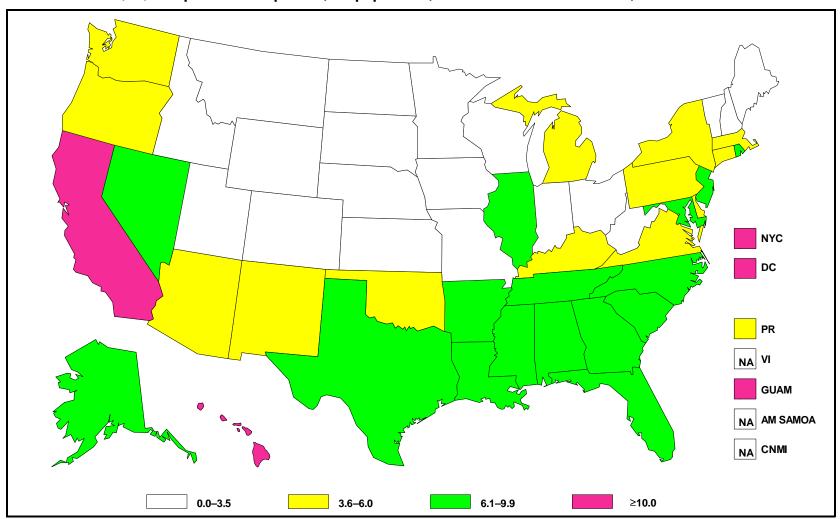
 $<sup>^*</sup>$ Includes cases meeting the CDC definition for confirmed and probable cases of staphylococcal TSS.  $^\dagger$  TSS data were first available through NETSS in 1983.

In 1998, a total of 17 cases of staphylococcal TSS were reported to NCID. Of those cases, seven persons (41%) had menstrual TSS.



In 1998, a total of 19 trichinosis cases were reported. This low number of reported cases continues the declining trend of this zoonotic infection in the United States.

TUBERCULOSIS (TB) — reported cases per 100,000 population, United States and territories, 1998

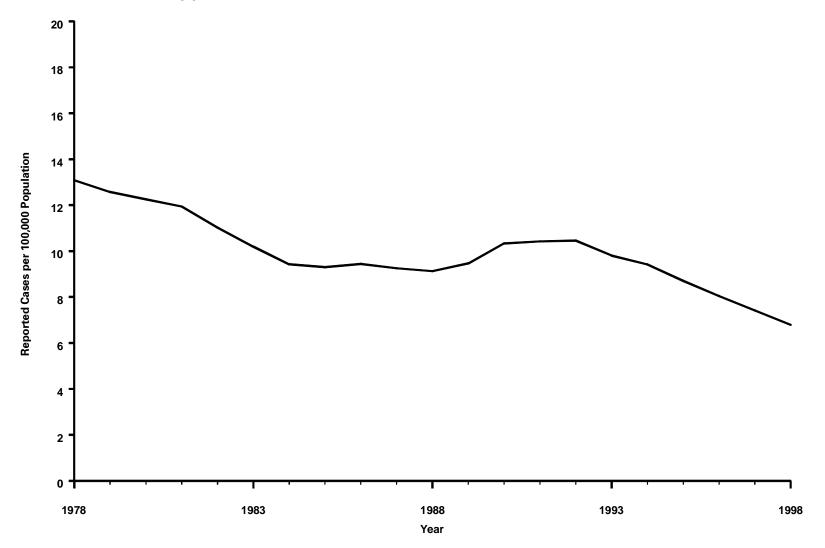


In 1998, a total of 19 states had TB rates of ≤3.5 cases per 100,000 population, which is the interim (i.e., year 2000) incidence target for the elimination of TB by the year 2010, established by CDC and the Advisory Council for the Elimination of Tuberculosis.



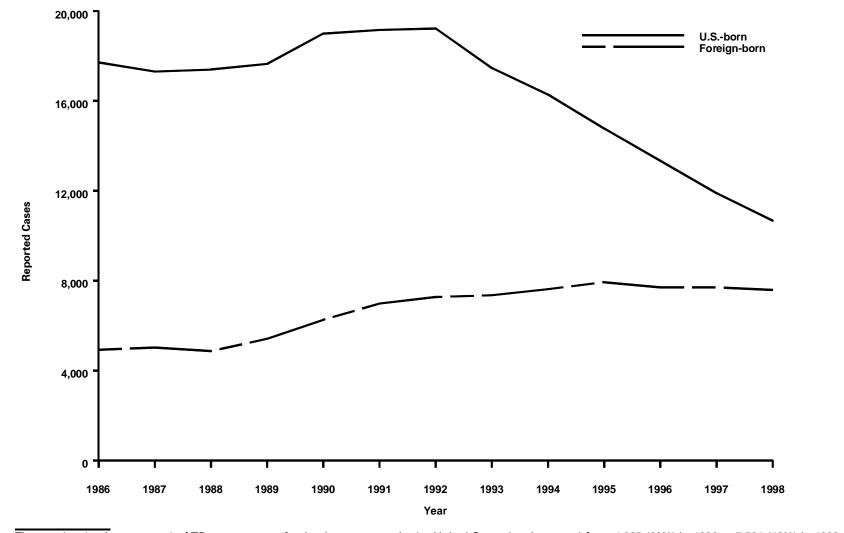
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TUBERCULOSIS (TB) — by year, United States, 1978–1998

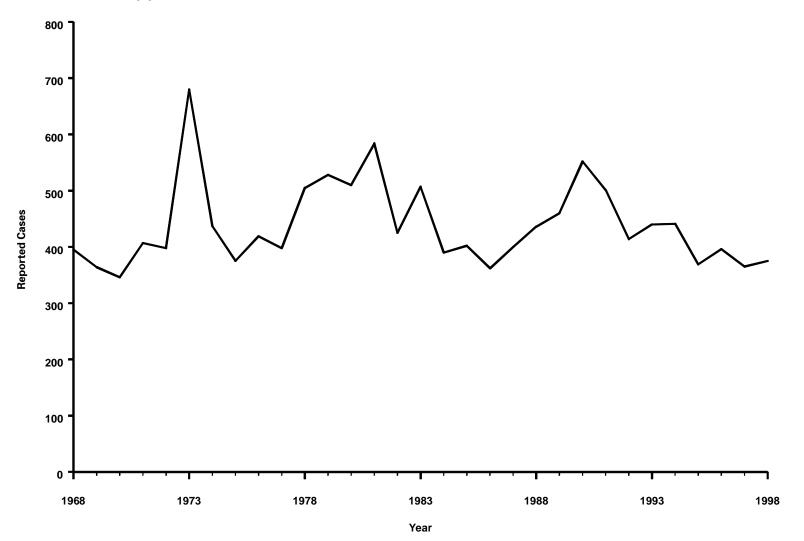


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December 31, 1999

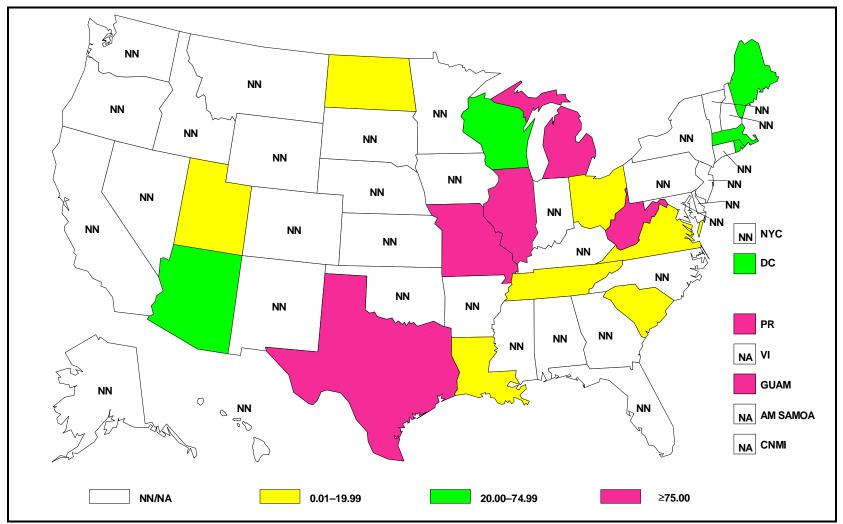


The number (and percentage) of TB cases among foreign-born persons in the United States has increased from 4,925 (22%) in 1986 to 7,591 (42%) in 1998.



Antimicrobial resistance among Salmonella serotype Typhi isolates has continued to increase, as has the proportion of typhoid fever cases that are preventable through immunization of international travelers.

VARICELLA (chickenpox) — reported cases per 100,000 population, United States and territories, 1998



Varicella (chickenpox) is not a nationally notifiable disease. However, in 1998, a total of 17 states, the District of Columbia, and two territories reported cases via the National Electronic Telecommunications System for Surveillance (NETSS). This map reflects data from states where varicella is notifiable at the state

# **PART 3:**

# Historical Summary Tables

EXPLANATION OF SYMBOLS USED IN TABLES, GRAPHS, AND MAPS

No reported cases .....-

TABLE 1. NOTIFIABLE DISEASES — Summary of reported cases per 100,000 population, United States, 1988–1998

| Disease   | 1988         | 1989         | 1990         | 1991         | 1992          | 1993         | 1994         | 1995         | 1996           | 1997         | 1998         |
|---|--------------|--------------|--------------|--------------|---------------|--------------|--------------|--------------|----------------|--------------|--------------|
| AIDS*   | 12.61        | 13.58        | 16.72        | 17.32        | 17.83         | 40.20        | 30.07        | 27.20        | 25.21          | 21.85        | 17.21        |
| Amebiasis   | 1.20         | 1.34         | 1.38         | 1.23         | 1.21          | 1.21         | 1.20         |              |                | †            |              |
| Anthrax   | 0.00<br>2.94 | 4.14         | <u> </u>     | 6.26         | 0.00<br>5.18  | 5.39         | <br>3.71     | _            | _              | + -          | _            |
| Aseptic meningitis Botulism, total (wound and unspecified)        | 0.03         | 0.04         | 0.04         | 0.05         | 0.04          | 0.04         | 0.06         | 0.04         | 0.05           | 0.05         | 0.04         |
| Foodborne   | 0.01         | 0.01         | 0.04         | 0.01         | 0.00          | 0.04         | 0.02         | 0.01         | 0.01           | 0.02         | 0.01         |
| Brucellosis   | 0.04         | 0.04         | 0.03         | 0.04         | 0.04          | 0.05         | 0.05         | 0.04         | 0.05           | 0.04         | 0.03         |
| Chancroid   | 2.04         | 1.90         | 1.70         | 1.40         | 0.80          | 0.54         | 0.30         | 0.20         | 0.15           | 0.09         | 0.07         |
| Chlamydia <sup>§</sup>  |              |              |              |              | ¶             |              |              | 182.60       | 188.10         | 196.80       | 236.57       |
| Cholera   | 0.00         | _            | 0.00         | 0.01         | € 0.04        | 0.00         | 0.02         | 0.01         | 0.01           | 0.01         | 0.01<br>1.61 |
| Cryptosporidiosis Diphtheria                                      | 0.00         | 0.00         | 0.00         | 0.00         | 0.00          | ·····        | 0.00         |              | 0.01           | 1.12<br>0.01 | 0.00         |
| Encephalitis, primary   | 0.36         | 0.40         | 0.54         | 0.40         | 0.30          | 0.36         | 0.28         |              |                | †            |              |
| Postinfectious  | 0.05         | 0.04         | 0.04         | 0.03         | 0.05          | 0.07         | 0.06         |              |                | †            |              |
| Encephalitis, California serogroup viral                          |              |              |              | ¶            |               |              |              |              | **<br>**<br>** |              | 0.04         |
| Eastern equine  |              |              |              |              |               |              |              |              | **             |              | 0.00         |
| St. Louis<br>Western equine                                       |              |              |              | ¶            |               |              |              |              | **             |              | 0.01<br>0.00 |
| Escherichia coli O157:H7  |              |              |              |              |               |              | 0.82         | 1.01         | 1.18           | 1.04         | 1.28         |
| Gonorrhea   | 298.74       | 297.36       | 276.60       | 249.48       | 201.60        | 172.40       | 168.40       | 149.50       | 122.80         | 121.40       | 132.88       |
| Granuloma inguinale   | 0.00         | 0.00         | 0.00         | 0.01         | 0.00          | 0.00         | 0.00         |              |                |              | 132.00       |
| Haemophilus influenzae, invasive disease                          |              | v v          |              | 1.10         | 0.55          | 0.55         | 0.45         | 0.45         | 0.45           | 0.44         | 0.44         |
| Hansen disease (leprosy)  | 0.07         | 0.07         | 0.06         | 0.06         | 0.07          | 0.07         | 0.05         | 0.06         | 0.05           | 0.05         | 0.05         |
| Hepatitis A   | 11.60        | 14.43        | 12.64        | 9.67         | 9.06          | 9.40         | 10.29        | 12.13        | 11.70          | 11.22        | 8.59         |
| Hepatitis B   | 9.43<br>1.07 | 9.43<br>1.02 | 8.48         | 7.14         | 6.32          | 5.18         | 4.81         | 4.19<br>1.78 | 4.01<br>1.41   | 3.90         | 3.80<br>1.30 |
| Hepatitis C; non-A, non-B <sup>††</sup><br>Hepatitis, unspecified | 1.07         | 0.93         | 1.03<br>0.67 | 1.42<br>0.50 | 2.36<br>0.35  | 1.86<br>0.24 | 1.78<br>0.17 |              |                | 1.43         |              |
|   | 0.44         | 0.48         | 0.55         | 0.53         | 0.53          | 0.50         | 0.17         | 0.48         | 0.47           | 0.44         | 0.51         |
| Legionellosis<br>Leptospirosis                                    | 0.44         | 0.48         | 0.55         | 0.53         | 0.53          | 0.50         | 0.03         | 0.46         |                | †            |              |
| Lyme disease  | 0.02         | * *          | 0.00         | 3.80         | 3.93          | 3.20         | 5.01         | 4.49         | 6.21           | 4.79         | 6.39         |
| Lymphogranuloma venereum  | 0.07         | 0.08         | 0.10         | 0.19         | 0.10          | 0.10         | 0.10         |              |                | †            |              |
| Malaria   | 0.45         | 0.51         | 0.52         | 0.51         | 0.43          | 0.55         | 0.47         | 0.55         | 0.68           | 0.75         | 0.60         |
| Measles (rubeola)   | 1.38         | 7.33         | 11.17        | 3.82         | 0.88          | 0.12         | 0.37         | 0.12         | 0.20           | 0.06         | 0.04         |
| Meningococcal disease<br>Mumps                                    | 1.21<br>2.05 | 1.10<br>2.34 | 0.99<br>2.17 | 0.84<br>1.72 | 0.84<br>1.03  | 1.02<br>0.66 | 1.11<br>0.60 | 1.25<br>0.35 | 1.30<br>0.29   | 1.24<br>0.27 | 1.01<br>0.25 |
| Murine typhus fever   | 0.02         | 0.02         | 0.02         | 0.02         | 0.02          | 0.00         | 0.00         | 0.55         |                | †            |              |
| Pertussis (whooping cough)  | 1.40         | 1.67         | 1.84         | 1.08         | 1.60          | 2.55         | 1.77         | 1.97         | 2.94           | 2.46         | 2.74         |
| Plague  | 0.01         | 0.00         | 0.00         | 0.00         | 0.01          | 0.00         | 0.01         | 0.00         | 0.01           | 0.01         | 0.00         |
| Poliomyelitis, paralytic  | 0.00         | 0.00         | 0.00         | 0.00         | 0.00          | 0.00         | 0.00         | 0.00         | 0.01           | 0.01         | 0.00         |
| Psittacosis   | 0.05         | 0.05         | 0.05         | 0.04         | 0.04          | 0.02         | 0.02         | 0.03         | 0.02           | 0.02         | 0.02         |
| Rabies, human   | 0.00         | 0.00         | 0.00         | 0.00         | 0.00          | 0.00         | 0.00         | 0.00         | 0.01           | 0.01         | 0.00         |
| Rheumatic fever, acute Rocky Mountain spotted fever               | 0.14<br>0.25 | 0.13<br>0.25 | 0.09<br>0.26 | 0.12<br>0.25 | 0.06<br>0.20  | 0.08<br>0.18 | 0.09<br>0.18 | 0.23         | 0.32           | .†<br>0.16   | 0.14         |
| Rubella (German measles)  | 0.25         | 0.25         | 0.45         | 0.56         | 0.26          | 0.18         | 0.18         | 0.25         | 0.32           | 0.10         | 0.14         |
| Salmonellosis, excluding typhoid fever                            | 19.91        | 19.26        | 19.54        | 19.10        | 16.04         | 16.15        | 16.64        | 17.66        | 17.15          | 15.66        | 16.17        |
| Shigellosis   | 12.46        | 10.07        | 10.89        | 9.34         | 9.38          | 12.48        | 11.44        | 12.32        | 9.80           | 8.64         | 8.74         |
| Syphilis, primary and secondary                                   | 16.43        | 18.07        | 20.10        | 17.26        | 13.70         | 10.40        | 8.10         | 6.30         | 4.29           | 3.19         | 2.61         |
| Total, all stages   | 42.37        | 44.94        | 53.80        | 51.69        | 45.30         | 39.70        | 32.00        | 26.20        | 19.97          | 17.39        | 14.19        |
| Tetanus   | 0.02         | 0.02         | 0.03         | 0.02         | 0.02          | 0.02         | 0.02         | 0.02         | 0.02           | 0.02         | 0.02         |
| Toxic-shock syndrome<br>Trichinosis                               | 0.16<br>0.02 | 0.16<br>0.01 | 0.13<br>0.05 | 0.11<br>0.02 | 0.10<br>0.02  | 0.08<br>0.01 | 0.10<br>0.01 | 0.07<br>0.01 | 0.06<br>0.01   | 0.06<br>0.01 | 0.06<br>0.01 |
|   | 9.13         | 9.46         | 10.33        | 10.42        |               | 9.82         |              | 8.70         | 8.04           | 7.42         | 6.79         |
| Tuberculosis<br>Tularemia   | 9.13<br>0.08 | 9.46<br>0.06 | 0.06         | 0.08         | 10.46<br>0.06 | 9.82<br>0.05 | 9.36<br>0.04 | 0.70         |                | 1.42         |              |
| Typhoid fever   | 0.08         | 0.19         | 0.22         | 0.20         | 0.16          | 0.03         | 0.04         | 0.14         | 0.15           | 0.14         | 0.14         |
| Varicella (chickenpox)§§  | 122.43       | 121.77       | 120.06       | 135.82       | 176.54        | 118.54       | 135.76       | 118.11       | 44.13          | 93.55        | 70.28        |
| Yellow fever  | _            | _            | _            | _            | _             | _            | _            | _            | 0.01           | _            | _            |

Note: Incidence rates per 100,000 population. Rates <0.01 after rounding are listed as 0.00. Data in the MMWR Summary of Notifiable Diseases, United States might not match data in other CDC surveillance reports because of differences in the timing of reports, the source of the data, and the use of different case definitions.

<sup>\*</sup>Acquired immunodeficiency syndrome (AIDS).

† No longer nationally notifiable.

§ Chlamydia refers to genital infections caused by *C. trachomatis*.

<sup>¶</sup> Not previously nationally notifiable.

\*\*Nationally notifiable; data not presented because of limited number of states reporting.

†† Anti-HCV (hepatitis C virus) antibody test became available May 1990.

§§ Not nationally notifiable.

TABLE 2. NOTIFIABLE DISEASES — Summary of reported cases, United States, 1991–1998

| Disease                                  | 1991    | 1992    | 1993    | 1994    | 1995    | 1996          | 1997         | 1998     |
|--|---------|---------|---------|---------|---------|---------------|--------------|----------|
| AIDS                                     | 43,672  | 45,472  | 103,691 | 78,279  | 71,547  | 66,885        | 58,492       | 46,521*  |
| Amebiasis                                | 2,989   | 2,942   | 2,970   | 2,983   |         |               | †            |          |
| Anthrax                                  | _       | 1       | _       | _       | _       | _             | _            | _        |
| Aseptic meningitis                       | 14,526  | 12,223  | 12,848  | 8,932   |         |               |              |          |
| Botulism, total (wound and unspecified)  | 114     | 91      | 97      | 143     | 97      | 119           | 132          | 116      |
| Foodborne                                | 27      | 21      | 27      | 50      | 24      | 25            | 31           | 22       |
| Infant                                   | 81      | 66      | 65      | 85      | 54      | 80            | 79           | 65       |
| Brucellosis                              | 104     | 105     | 120     | 119     | 98      | 112           | 98           | 79       |
| Chancroid                                | 3,476   | 1,886   | 1,399   | 773     | 606     | 386           | 243          | 189§     |
| Chlamydia¶                               |         |         | **      |         | 477,638 | 498,884       | 526,671      | 604,420§ |
| Cholera                                  | 26      | 103     | 18      | 39      | 23      | 4             | 6            | 17       |
| Cryptosporidiosis                        |         |         | **      |         |         |               | 2,566        | 3,793    |
| Diphtheria                               | 5       | 4       | _       | 2       | _       | 2             | . 4          | 1        |
| Encephalitis, primary                    | 1,021   | 774     | 919     | 717     |         |               | <sup>T</sup> |          |
| Postinfectious                           | 82      | 129     | 170     | 143     |         |               | т            |          |
| Encephalitis, California serogroup viral |         |         | **      |         |         | ††            |              | 97       |
| Eastern equine                           |         |         | **      |         |         | ††            |              | 4        |
| St. Louis                                |         |         | **      |         |         | <sup>TT</sup> |              | 24       |
| Western equine                           |         |         | **      |         |         | ††            |              | _        |
| Escherichia coli O157:H7                 |         | **      |         | 1,420   | 2,139   | 2,741         | 2,555        | 3,161    |
| Gonorrhea                                | 620,478 | 501,409 | 439,673 | 418,068 | 392,848 | 325,883       | 324,907      | 355,642§ |
| Granuloma inguinale                      | 29      | 6       | 19      | 3       |         |               | †            |          |
| Haemophilus influenzae, invasive disease | 2,764   | 1,412   | 1,419   | 1,174   | 1,180   | 1,170         | 1,162        | 1,194    |
| Hansen disease (leprosy)                 | 154     | 172     | 187     | 136     | 144     | 112           | 122          | 108      |
| Hepatitis A                              | 24,378  | 23,112  | 24,238  | 26,796  | 31,582  | 31,032        | 30,021       | 23,229   |
| Hepatitis B                              | 18,003  | 16,126  | 13,361  | 12,517  | 10.805  | 10,637        | 10,416       | 10,258   |
| Hepatitis C; non-A, non-B§§              | 3,582   | 6,010   | 4,786   | 4,470   | 4,576   | 3,716         | 3,816        | 3,518    |
| Hepatitis, unspecified                   | 1,260   | 884     | 627     | 444     |         |               | †            |          |
| Legionellosis                            | 1,317   | 1,339   | 1,280   | 1,615   | 1,241   | 1,198         | 1,163        | 1,355    |
| Leptospirosis                            | 58      | 54      | 51      | 38      |         |               | t            |          |
| Lyme disease                             | 9,465   | 9,895   | 8,257   | 13,043  | 11,700  | 16,455        | 12,801       | 16,801   |
| Lymphogranuloma venereum                 | 471     | 302     | 285     | 235     |         |               | †            |          |

| Malaria                                | 1,278   | 1,087   | 1,411   | 1,229   | 1,419   | 1,800  | 2,001  | 1,611     |
|--|---------|---------|---------|---------|---------|--------|--------|-----------|
| Measles (rubeola)                      | 9,643   | 2,237   | 312     | 963     | 309     | 508    | 138    | 100       |
| Meningococcal disease                  | 2,130   | 2,134   | 2,637   | 2,886   | 3,243   | 3,437  | 3,308  | 2,725     |
| Mumps                                  | 4,264   | 2,572   | 1,692   | 1,537   | 906     | 751    | 683    | 666       |
| Murine typhus fever                    | 43      | 28      | 25      |         |         | †      |        |           |
| Pertussis (whooping cough)             | 2,719   | 4,083   | 6,586   | 4,617   | 5,137   | 7,796  | 6,564  | 7,405     |
| Plague                                 | 11      | 13      | 10      | 17      | 9       | 5      | 4      | 9         |
| Poliomyelitis, paralytic¶              | 10      | 6       | 4       | 8       | 7       | 5      | 5      | 1         |
| Psittacosis                            | 94      | 92      | 60      | 38      | 64      | 42     | 33     | 47        |
| Rabies, animal                         | 6,910   | 8,589   | 9,377   | 8,147   | 7,811   | 6,982  | 8,105  | 7,259     |
| Rabies, human                          | 3       | . 1     | 3       | 6       | 5       | . 3    | 2      | . 1       |
| Rheumatic fever, acute                 | 127     | 75      | 112     | 112     |         |        | †      |           |
| Rocky Mountain spotted fever           | 628     | 502     | 456     | 465     | 590     | 831    | 409    | 365       |
| Rubella (German measles)               | 1,401   | 160     | 192     | 227     | 128     | 238    | 181    | 364       |
| Rubella, congenital syndrome           | 47      | 11      | 5       | 7       | 6       | 4      | 5      | 7         |
| Salmonellosis, excluding typhoid fever | 48,154  | 40,912  | 41,641  | 43,323  | 45,970  | 45,471 | 41,901 | 43,694    |
| Shigellosis                            | 23,548  | 23,931  | 32,198  | 29,769  | 32,080  | 25,978 | 23,117 | 23,626    |
| Syphilis, primary and secondary        | 42,935  | 33,973  | 26,498  | 20,627  | 16,500  | 11,387 | 8,550  | 6,993§    |
| Total, all stages                      | 128,569 | 112,581 | 101,259 | 81,696  | 68,953  | 52,976 | 46,540 | 37,977§   |
| Tetanus                                | 57      | 45      | 48      | 51      | 41      | 36     | 50     | 41        |
| Toxic-shock syndrome                   | 280     | 244     | 212     | 192     | 191     | 145    | 157    | 138       |
| Trichinosis                            | 62      | 41      | 16      | 32      | 29      | 11     | 13     | 19        |
| Tuberculosis                           | 26,283  | 26,673  | 25,313  | 24,361  | 22,860  | 21,337 | 19,851 | 18,361*** |
| Tularemia                              | 193     | 159     | 132     | 96      |         |        | t      |           |
| Typhoid fever                          | 501     | 414     | 440     | 441     | 369     | 396    | 365    | 375       |
| Varicella (chickenpox)†††              | 147,076 | 158,364 | 134,722 | 151,219 | 120,624 | 83,511 | 98,727 | 82,455    |
| Yellow fever                           |         |         | §§§     |         |         | 1      | · —    | <u> </u>  |

\*Total number of acquired immunodeficiency syndrome (AIDS) cases reported to the Division of HIV/AIDS Prevention — Surveillance and Epidemiology, National Center for HIV, STD, and TB Prevention (NCHSTP), through December 31, 1998.

† No longer nationally notifiable.

§ Cases were updated through the Division of Sexually Transmitted Diseases Prevention, NCHSTP, as of July 19, 1999.

Chlamydia refers to genital infections caused by *C. trachomatis*.

\*\*Not previously nationally notifiable.

th Nationally notifiable; data not presented because of limited number of states reporting.

\$\frac{55}{4}\text{Anti-HCV}\$ (hepatitis C virus) antibody test was available as of May 1990.

\$\frac{1}{1}\text{Numbers might not reflect changes because of retrospective case evaluations or late reports (see MMWR 1986;35:180-2).

\*\*\*Cases were updated through the Division of Tuberculosis Elimination, NCHSTP, as of June 3, 1999.

†††Varicella was taken off the nationally notifiable disease list in 1991. Many states continue to report these cases to CDC.

§§§ Last indigenous case of yellow fever was reported in 1911; before 1996, the last imported case was reported in 1924.

Note: Data in the MMWR Summary of Notifiable Diseases, United States might not match data in other CDC surveillance reports because of differences in the timing of reports, the source of the data, and the use of different case definitions.

TABLE 3. NOTIFIABLE DISEASES — Summary of reported cases, United States, 1983–1990

| Disease                                 | 1983    | 1984    | 1985    | 1986    | 1987    | 1988    | 1989    | 1990    |
|---|---------|---------|---------|---------|---------|---------|---------|---------|
| AIDS*                                   | †       | 4,445   | 8,249   | 12,932  | 21,070  | 31,001  | 33,722  | 41,595  |
| Amebiasis                               | 6,658   | 5,252   | 4,433   | 3,532   | 3,123   | 2,860   | 3,217   | 3,328   |
| Anthrax                                 | · —     | 1       | · —     | _       | 1       | 2       | · —     | _       |
| Aseptic meningitis                      | 12,696  | 8,326   | 10,619  | 11,374  | 11,487  | 7,234   | 10,274  | 11,852  |
| Botulism, total (wound and unspecified) | 133     | 123     | 122     | 109     | 82      | 84      | 89      | 92      |
| Foodborne                               |         | §       | 49      | 23      | 17      | 28      | 23      | 23      |
| Infant                                  |         | §       | 70      | 79      | 59      | 50      | 60      | 65      |
| Brucellosis                             | 200     | 131     | 153     | 106     | 129     | 96      | 95      | 82      |
| Chancroid                               | 847     | 665     | 2,067   | 3,756   | 4,998   | 5,001   | 4,692   | 4,212   |
| Cholera                                 | 1       | 1       | 4       | 23      | 6       | 8       | _       | 6       |
| Diphtheria                              | 5       | 1       | 3       | _       | 3       | 2       | 3       | 4       |
| Encephalitis, primary¶                  | 1,761   | 1,257   | 1,376   | 1,302   | 1,418   | 882     | 981     | 1,341   |
| Postinfectious¶                         | 34      | 108     | 161     | 124     | 121     | 121     | 88      | 105     |
| Gonorrhea                               | 900,435 | 878,556 | 911,419 | 900,868 | 780,905 | 719,536 | 733,151 | 690,169 |
| Granuloma inguinale                     | 24      | 30      | 44      | 61      | 22      | 11      | 7       | 97      |
| Hansen disease (leprosy)                | 259     | 290     | 361     | 270     | 238     | 184     | 163     | 198     |
| Hepatitis A                             | 21,532  | 22,040  | 23,210  | 23,430  | 25,280  | 28,507  | 35,821  | 31,441  |
| Hepatitis B                             | 24,318  | 26,115  | 26,611  | 26,107  | 25,916  | 23,177  | 23,419  | 21,102  |
| Hepatitis C; non-A, non-B               | 3,470   | 3,871   | 4,184   | 3,634   | 2,999   | 2,619   | 2,529   | 2,553   |
| Hepatitis, unspecified                  | 7,149   | 5,531   | 5,517   | 3,940   | 3,102   | 2,470   | 2,306   | 1,671   |
| Legionellosis                           | 852     | 750     | 830     | 980     | 1,038   | 1,085   | 1,190   | 1,370   |
| Leptospirosis                           | 61      | 40      | 57      | 41      | 43      | 54      | 93      | 77      |
| Lymphogranuloma venereum                | 335     | 170     | 226     | 396     | 303     | 185     | 189     | 277     |
| Malaria                                 | 813     | 1,007   | 1,049   | 1,123   | 944     | 1,099   | 1,277   | 1,292   |
| Measles (rubeola)                       | 1,497   | 2,587   | 2,822   | 6,282   | 3,655   | 3,396   | 18,193  | 27,786  |
| Meningococcal disease                   | 2,736   | 2,746   | 2,479   | 2,594   | 2,930   | 2,964   | 2,727   | 2,451   |
| Mumps                                   | 3,355   | 3,021   | 2,982   | 7,790   | 12,848  | 4,866   | 5,712   | 5,292   |
| Murine typhus fever                     | 62      | 53      | 37      | 67      | 49      | 54      | 41      | 50      |
| Pertussis (whooping cough)              | 2,463   | 2,276   | 3,589   | 4,195   | 2,823   | 3,450   | 4,157   | 4,570   |

| Plague                                 | 40      | 31      | 17      | 10      | 12      | 15      | 4       | 2       |
|--|---------|---------|---------|---------|---------|---------|---------|---------|
| Poliomyelitis, total                   | 13      | 9       |         |         |         | * *     |         |         |
| Paralytic                              | 13      | 9       | 8       | 10      | 9       | 9       | 11      | 6       |
| Psittacosis                            | 142     | 172     | 119     | 224     | 98      | 114     | 116     | 113     |
| Rabies, animal                         | 5,878   | 5,567   | 5,565   | 5,504   | 4,658   | 4,651   | 4,724   | 4,826   |
| Rabies, human                          | 2       | 3       | 1       | _       | 1       | _       | 1       | 1       |
| Rheumatic fever, acute                 | 88      | 117     | 90      | 147     | 141     | 158     | 144     | 108     |
| Rocky Mountain spotted fever           | 1,126   | 838     | 714     | 760     | 604     | 609     | 623     | 651     |
| Rubella (German measles)               | 970     | 752     | 630     | 551     | 306     | 225     | 396     | 1,125   |
| Rubella, congenital syndrome           | 22      | 5       | _       | 14      | 5       | 6       | 3       | 11      |
| Salmonellosis, excluding typhoid fever | 44,250  | 40,861  | 65,347  | 49,984  | 50,916  | 48,948  | 47,812  | 48,603  |
| Shigellosis                            | 19,719  | 17,371  | 17,057  | 17,138  | 23,860  | 30,617  | 25,010  | 27,077  |
| Syphilis, primary and secondary        | 32,698  | 28,607  | 27,131  | 27,883  | 35,147  | 40,117  | 44,540  | 50,223  |
| Total, all stages                      | 74,637  | 69,888  | 67,563  | 68,215  | 86,545  | 103,437 | 110,797 | 134,255 |
| Tetanus                                | 91      | 74      | 83      | 64      | 48      | 53      | 53      | 64      |
| Toxic-shock syndrome                   | 502     | 482     | 384     | 412     | 372     | 390     | 400     | 322     |
| Trichinosis                            | 45      | 68      | 61      | 39      | 40      | 45      | 30      | 129     |
| Tuberculosis                           | 23,846  | 22,255  | 22,201  | 22,768  | 22,517  | 22,436  | 23,495  | 25,701  |
| Tularemia                              | 310     | 291     | 177     | 170     | 214     | 201     | 152     | 152     |
| Typhoid fever                          | 507     | 390     | 402     | 362     | 400     | 436     | 460     | 552     |
| Varicella (chickenpox)                 | 177,462 | 221,983 | 178,162 | 183,243 | 213,196 | 192,857 | 185,441 | 173,099 |
| Yellow fever                           |         |         |         |         | ††      |         |         |         |

Note: Data in the MMWR Summary of Notifiable Disease, United States might not match data in other CDC Surveillance reports because of differences in timing of reports, the source of the data, and the use of different case definitions.

<sup>\*</sup>Acquired immunodeficiency syndrome (AIDS).

† Not previously nationally notifiable.

§ Not reported as distinct categories during this period.

¶ Beginning in 1984, data were recorded by date of report to state health departments. Before 1984, data were recorded by onset date.

\*\*Categories other than paralytic are no longer reported.

<sup>††</sup> Last indigenous case of yellow fever was reported in 1911; before 1996, the last imported case was reported in 1924.

TABLE 4. NOTIFIABLE DISEASES — Summary of reported cases, United States, 1975–1982

| Disease                                 | 1975    | 1976      | 1977      | 1978      | 1979      | 1980      | 1981    | 1982    |
|---|---------|-----------|-----------|-----------|-----------|-----------|---------|---------|
| Amebiasis                               | 2,775   | 2,906     | 3,044     | 3,937     | 4,107     | 5,271     | 6,632   | 7,304   |
| Anthrax                                 | 2       | 2         | _         | 6         | _         | 1         | _       | _       |
| Aseptic meningitis                      | 4,475   | 3,510     | 4,789     | 6,573     | 8,754     | 8,028     | 9,547   | 9,680   |
| Botulism, total (wound and unspecified) | 20      | 55        | 129       | 105       | 45        | 89        | 103     | 97      |
| Brucellosis                             | 310     | 296       | 232       | 179       | 215       | 183       | 185     | 173     |
| Chancroid                               | 700     | 628       | 455       | 521       | 840       | 788       | 850     | 1,392   |
| Cholera                                 | _       | _         | 3         | 12        | 1         | 9         | 19      | _       |
| Diphtheria*                             | 307     | 128       | 84        | 76        | 59        | 3         | 5       | 2       |
| Encephalitis, primary                   | 4,064   | 1,651     | 1,414     | 1,351     | 1,504     | 1,362     | 1,492   | 1,464   |
| Postinfectious                          | 237     | 175       | 119       | 78        | 84        | 40        | 43      | 36      |
| Gonorrhea                               | 999,937 | 1,001,994 | 1,002,219 | 1,013,436 | 1,004,058 | 1,004,029 | 990,864 | 960,633 |
| Granuloma inguinale                     | 60      | 71        | 75        | 72        | 76        | 51        | 66      | 17      |
| Hansen disease (leprosy)                | 162     | 145       | 151       | 168       | 185       | 223       | 256     | 250     |
| Hepatitis A                             | 35,855  | 33,288    | 31,153    | 29,500    | 30,407    | 29,087    | 25,802  | 23,403  |
| Hepatitis B                             | 13,121  | 14,973    | 16,831    | 15,016    | 15,452    | 19,015    | 21,152  | 22,177  |
| Hepatitis, unspecified                  | 7,158   | 7,488     | 8,639     | 8,776     | 10,534    | 11,894    | 10,975  | 8,564   |
| Legionellosis                           | †       | 235       | 359       | 761       | 593       | 475       | 408     | 654     |
| Leptospirosis                           | 93      | 73        | 71        | 110       | 94        | 85        | 82      | 100     |
| Lymphogranuloma venereum                | 353     | 365       | 348       | 284       | 250       | 199       | 263     | 235     |
| Malaria                                 | 373     | 471       | 547       | 731       | 894       | 2,062     | 1,388   | 1,056   |
| Measles (rubeola)                       | 24,374  | 41,126    | 57,345    | 26,871    | 13,597    | 13,506    | 3,124   | 1,714   |
| Meningococcal disease                   | 1,478   | 1,605     | 1,828     | 2,505     | 2,724     | 2,840     | 3,525   | 3,056   |
| Mumps                                   | 59,647  | 38,492    | 21,436    | 16,817    | 14,225    | 8,576     | 4,941   | 5,270   |
| Murine typhus fever                     | 41      | 69        | 75        | 46        | 69        | 81        | 61      | 58      |
| Pertussis (whooping cough)              | 1,738   | 1,010     | 2,177     | 2,063     | 1,623     | 1,730     | 1,248   | 1,895   |
| Plague                                  | 20      | 16        | 18        | 12        | 13        | 18        | 13      | 19      |
| Poliomyelitis, total                    | 13      | 10        | 19        | 8         | 22        | 9         | 10      | 12      |
| Paralytic <sup>§</sup>                  | 13      | 10        | 19        | 8         | 22        | 9         | 10      | 12      |
| Psittacosis                             | 49      | 78        | 94        | 140       | 137       | 124       | 136     | 152     |
| Rabies, animal                          | 2,627   | 3,073     | 3,130     | 3,254     | 5,119     | 6,421     | 7,118   | 6,212   |
| Rabies, human                           | 2       | 2         | 2         | 4         | 4         |           | 2       |         |
| Rheumatic fever, acute                  | 2,854   | 1,865     | 1,738     | 851       | 629       | 432       | 264     | 137     |
| Rocky Mountain spotted fever            | 844     | 937       | 1,153     | 1,063     | 1,070     | 1,163     | 1,192   | 976     |
| Rubella (German measles)                | 16,652  | 12,491    | 20,395    | 18,269    | 11,795    | 3,904     | 2,077   | 2,325   |
| Rubella, congenital syndrome            | 30      | 30        | 23        | 30        | 62        | 50        | 19      | 7       |
| Salmonellosis, excluding typhoid fever  | 22,612  | 22,937    | 27,850    | 29,410    | 33,138    | 33,715    | 39,990  | 40,936  |
| Shigellosis                             | 16,584  | 13,140    | 16,052    | 19,511    | 20,135    | 19,041    | 19,859  | 18,129  |
| Syphilis, primary and secondary         | 25,561  | 23,731    | 20,399    | 21,656    | 24,874    | 27,204    | 31,266  | 33,613  |
| Total, all stages                       | 80,356  | 71,761    | 64,621    | 64,875    | 67,049    | 68,832    | 72,799  | 75,579  |
| Tetanus                                 | 102     | 75        | 87        | 86        | 81        | 95        | 72      | 88      |
| Trichinosis                             | 252     | 115       | 143       | 67        | 157       | 131       | 206     | 115     |
| Tuberculosis¶                           | 33,989  | 32,105    | 30,145    | 28,521    | 27,669    | 27,749    | 27,373  | 25,520  |
| Tularemia                               | 129     | 157       | 165       | 141       | 196       | 234       | 288     | 275     |
| Typhoid fever                           | 375     | 419       | 398       | 505       | 528       | 510       | 584     | 425     |
| Varicella (chickenpox)                  | 154,248 | 183,990   | 188,396   | 154,089   | 199,081   | 190,894   | 200,766 | 167,423 |
| Yellow fever                            |         |           |           |           | **        |           |         |         |

<sup>\*</sup>Cutaneous diphtheria is no longer nationally notifiable after 1979.

Note: Data in the MMWR Summary of Notifiable Diseases, United States might not match data in other CDC surveillance reports because of differences in the timing of reports, the source of the data, and the use of different case definitions.

<sup>†</sup> Not previously nationally notifiable.

§ No cases with paralytic poliomyelitis caused by wild-virus have been reported in the United States since 1979.

¶ Case data after 1974 are not comparable with earlier years because of changes in reporting criteria that became effective in 1975.

\*\*Last indigenous case of yellow fever was reported in 1911; before 1996, the last imported case was reported in 1924.

TABLE 5. NOTIFIABLE DISEASES — Summary of reported cases, United States, 1967–1974

| Disease                                     | 1967                                  | 1968                                  | 1969            | 1970             | 1971             | 1972             | 1973             | 1974             |
|---|---------------------------------------|---------------------------------------|-----------------|------------------|------------------|------------------|------------------|------------------|
| Amebiasis                                   | 3,157                                 | 3,005                                 | 2,915           | 2,888            | 2,752            | 2,199            | 2,235            | 2,743            |
| Anthrax                                     | 2                                     | 3                                     | 4               | 2                | 5                | 2                | 2                | 2                |
| Aseptic meningitis                          | 3,082                                 | 4,494                                 | 3,672           | 6,480            | 5,176            | 4,634            | 4,846            | 3,197            |
| Botulism                                    | 5                                     | 7                                     | 16              | 12               | 25               | 22               | 34               | 28               |
| Brucellosis                                 | 265                                   | 218                                   | 235             | 213              | 183              | 196              | 202              | 240              |
| Chancroid                                   | 784                                   | 845                                   | 1,104           | 1,416            | 1,320            | 1,414            | 1,165            | 945              |
| Cholera                                     | _                                     | _                                     | _               | _                | 1                | _                | 1                | _                |
| Diphtheria                                  | 219                                   | 260                                   | 241             | 435              | 215              | 152              | 228              | 272              |
| Encephalitis, primary                       | 1,478                                 | 1,781                                 | 1,613           | 1,580            | 1,524            | 1,059            | 1,613            | 1,164            |
| Postinfectious                              | 1,060                                 | 502                                   | 304             | 370              | 439              | 243              | 354              | 218              |
| Gonorrhea                                   | 404,836                               | 464,543                               | 534,872         | 600,072          | 670,268          | 767,215          | 842,621          | 906,121          |
| Granuloma inguinale                         | 154                                   | 156                                   | 154             | 124              | 89               | 81               | 62               | 47               |
| Hansen disease (leprosy)                    | 81                                    | 123                                   | 98              | 129              | 131              | 130              | 146              | 118              |
| Hepatitis A (infectious)                    | 38,909                                | 45,893                                | 48,416          | 56,797           | 59,606           | 54,074           | 50,749           | 40,358           |
| Hepatitis B (serum)                         | 2,458                                 | 4,829                                 | 5,909           | 8,310            | 9,556            | 9,402            | 8,451            | 10,631           |
| Leptospirosis                               | 67<br>371                             | 69                                    | 89              | 47               | 62               | 41               | 57               | 8,351            |
| Lymphogranuloma venereum<br>Malaria         | 2,022                                 | 485<br>2,317                          | 520<br>3,102    | 612<br>3,051     | 692<br>2,375     | 756<br>742       | 408<br>237       | 394<br>293       |
|   | · · · · · · · · · · · · · · · · · · · | · · · · · · · · · · · · · · · · · · · |                 | <u> </u>         | -                |                  |                  |                  |
| Measles (rubeola)                           | 62,705<br>2,161                       | 22,231<br>2,623                       | 25,826<br>2,951 | 47,351<br>2,505  | 75,290<br>2,262  | 32,275<br>1,323  | 26,690<br>1,378  | 22,094<br>1,346  |
| Meningococcal disease<br>Mumps              | 2,101<br>*                            | 152,209                               | 90,918          | 2,505<br>104,953 | 2,262<br>124,939 | 74,215           | 69,612           | 59,128           |
| Murine typhus fever                         | 52                                    | 36                                    | 36              | 104,953          | 124,939          | 74,215<br>18     | 32               | 26               |
| Pertussis (whooping cough)                  | 9.718                                 | 4,810                                 | 3,285           | 4,249            | 3.036            | 3,287            | 1,759            | 2,402            |
| Plague                                      | 3,718                                 | 4,610                                 | 5,205<br>5      | 13               | 2                | 3,207            | 1,753            | 2,402            |
| Poliomyelitis, total                        | 41                                    | 53                                    | 20              | 33               | 21               | 31               | 8                | 7                |
| Paralytic                                   | 40                                    | 53                                    | 18              | 31               | 17               | 29               | 7                | 7                |
| Psittacosis                                 | 41                                    | 43                                    | 57              | 35               | 32               | 52               | 33               | 164              |
| Rabies, animal                              | 4,481                                 | 3,591                                 | 3,490           | 3,224            | 4,310            | 4,369            | 3,640            | 3,151            |
| Rabies, human                               | 4,461                                 | 3,391                                 | 3,490           | 3,224            | 4,310            | 4,309            | 3,040            | 3,131            |
| Rheumatic fever, acute                      | 3,985                                 | 3,470                                 | 3,229           | 3,227            | 2,793            | 2,614            | 2,560            | 2,431            |
| Rocky Mountain spotted fever                | 305                                   | 298                                   | 498             | 380              | 432              | 523              | 668              | 754              |
| Rubella (German measles)                    | 46,888                                | 49,371                                | 57,686          | 56,552           | 45,086           | 25,507           | 27,804           | 11,917           |
| Rubella, congenital syndrome                | 10                                    | 14                                    | 37,000          | 77               | 68               | 42               | 35               | 45               |
| Salmonellosis, excluding typhoid fever      | 18,120                                | 16,514                                | 18,419          | 22,096           | 21,928           | 22,151           | 23,818           | 21,980           |
| Shigellosis                                 | 13,474                                | 12,180                                | 11,946          | 13,845           | 16,143           | 20,207           | 22,642           | 22,600           |
| Streptococcal sore throat and scarlet fever | 453,351                               | 435,013                               | 450.008         | 433,405          |                  |                  | +                |                  |
| Syphilis, primary and secondary             | 21,053                                | 19,019                                | 19,130          | 21,982           | 23,783           | 24,429           | '<br>24,825      | 25,385           |
| Total, all stages                           | 102,581                               | 96,271                                | 92,162          | 91,382           | 23,783<br>95,997 | 24,429<br>91.149 | 24,825<br>87.469 | 25,365<br>83.771 |
|   | 263                                   | 178                                   | 192             | 148              | 95,997           | 128              | 101              |                  |
| Tetanus<br>Trichinosis                      | 263<br>66                             | 77                                    | 215             | 148              | 103              | 89               | 101              | 101<br>120       |
| Tuberculosis                                | 45,647                                | 42,623                                | 39,120          | 37,137           | 35,217           | 32,882           | 30,998           | 30,122           |
| Tularemia                                   | 45,647<br>184                         | 42,623<br>186                         | 39,120<br>149   | 37,137<br>172    | 35,217<br>187    | 32,002<br>152    | 30,998<br>171    | 30,122           |
| Typhoid fever                               | 396                                   | 395                                   | 364             | 346              | 407              | 398              | 680              | 437              |
| Varicella (chickenpox)                      |                                       |                                       |                 |                  |                  | 164,114          | 182,927          | 437<br>141,495   |
| Yellow fever                                |                                       |                                       |                 |                  |                  |                  |                  |                  |
| ICHOW ICAGI                                 |                                       |                                       |                 |                  |                  |                  |                  |                  |

<sup>\*</sup> Not previously nationally notifiable.

† No longer nationally notifiable.

Note: Data in the MMWR Summary of Notifiable Diseases, United States might not match data in other CDC surveillance reports because of differences in the timing of reports, the source of the data, and the use of different case definitions.

<sup>§</sup> Last indigenous case of yellow fever was reported in 1911; before 1996, the last imported case was reported in 1924.

TABLE 6. NOTIFIABLE DISEASES — Deaths from selected diseases, United States, 1988–1997

| Cause of Death                           | ICD-9*          | 1988   | 1989   | 1990   | 1991   | 1992   | 1993   | 1994   | 1995   | 1996   | 1997   |
|--|-----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| AIDS†                                    |                 | 16,602 | 22,082 | 25,188 | 29,555 | 33,566 | 37,267 | 42,114 | 43,115 | 31,130 | 16,516 |
| Anthrax                                  | 022             | · —    | · —    | · —    | · —    | · —    | · —    | · —    | · —    | · —    | · —    |
| Botulism, foodborne                      | 005.1           | 1      | 2      | 4      | 2      | 1      | _      | _      | 2      | 1      | 2      |
| Brucellosis                              | 023             | 2      | _      | _      | _      | _      | 1      | _      | 1      | _      | 1      |
| Chancroid                                | 099.0           | _      | _      | _      | 1      | _      | _      | _      | _      | _      | _      |
| Cholera                                  | 001             | _      | _      | 2      | 2      | 2      | _      | 1      | _      | 2      | _      |
| Diphtheria                               | 032             | _      | _      | 1      | _      | 1      | _      | _      | 1      | _      | _      |
| Encephalitis, California serogroup viral | 062.5           | _      | _      | _      | _      | _      | _      | _      | _      | 1      | 1      |
| Eastern equine                           | 062.2           | _      | 1      | 1      | 1      | 1      | 1      | _      | 1      | 1      | 2      |
| St. Louis                                | 062.3           | _      | _      | 13     | 9      | 2      | 1      | 3      | 6      | _      | 1      |
| Western equine                           | 062.1           | _      | _      | _      | _      | _      | _      | _      | _      | _      | _      |
| Gonococcal infections                    | 098             | 3      | 4      | 3      | 3      | 4      | 5      | 3      | 3      | 4      | 3      |
| Haemophilus influenzae,                  |                 |        |        |        |        |        |        |        |        |        |        |
| invasive disease                         | 041.5           | 25     | 16     | 16     | 17     | 16     | 7      | 5      | 12     | 7      | 7      |
| Hansen disease (leprosy)                 | 030             | _      | 4      | 3      | _      | 2      | 1      | 3      | 2      | _      | 2      |
| Hepatitis, viral, infectious (Hep A)     | 070.0,070.1     | 70     | 88     | 76     | 71     | 82     | 95     | 97     | 142    | 121    | 127    |
| Hepatitis, viral, serum (Hep B)          | 070.2,070.3     | 621    | 711    | 816    | 912    | 903    | 1,041  | 1,120  | 1,027  | 1,082  | 1,030  |
| Hepatitis, viral, other and unspecified  | 070.4–070.9     | 599    | 717    | 686    | 857    | 1,016  | 1,353  | 1,844  | 2,231  | 2,577  | 2,900  |
| Malaria                                  | 084             | 7      | 11     | 3      | 4      | 8      | 12     | 3      | 8      | 4      | 7      |
| Measles (rubeola)                        | 055             | 3      | 32     | 64     | 27     | 4      | _      | _      | 2      | 1      | 2      |
| Meningococcal disease                    | 036             | 278    | 273    | 215    | 198    | 201    | 260    | 276    | 273    | 290    | 309    |
| Mumps                                    | 072             | 2      | 3      | 1      | 1      | _      | _      | _      | _      | 1      | _      |
| Pertussis (whooping cough)               | 033             | 4      | 12     | 12     | _      | 5      | 7      | 8      | 6      | 4      | 6      |
| Plague                                   | 020             | _      | _      | _      | _      | 1      | 2      | 2      | 1      | 2      | _      |
| Poliomyelitis, total                     | 045.0-045.9     | 1      | _      | _      | 1      | _      | _      | _      | 1      | _      | _      |
| Psittacosis                              | 073             | 1      | 1      | 2      | _      | 4      | 1      | _      | _      | 1      | _      |
| Rabies, human                            | 071             | _      | 1      | 1      | 3      | 1      | 1      | 3      | 3      | 3      | 4      |
| Rubella (German measles)                 | 056             | 1      | 4      | 8      | 1      | 1      | _      | _      | 1      | _      | _      |
| Salmonellosis, incl. paratyphoid fever   | 002.1-002.9,003 | 66     | 99     | 80     | 53     | 47     | 52     | 49     | 66     | 58     | 51     |
| Shigellosis                              | 004             | 8      | 16     | 10     | 10     | 8      | 5      | 13     | 8      | 5      | 5      |
| Spotted fevers                           | 082.0           | 20     | 10     | 20     | 13     | 13     | 5      | 9      | 8      | 6      | 12     |
| Syphilis                                 | 090-097         | 85     | 105    | 106    | 93     | 91     | 80     | 79     | 65     | 73     | 62     |
| Tetanus                                  | 037             | 17     | 9      | 11     | 11     | 9      | 11     | 9      | 5      | 1      | 4      |
| Trichinosis                              | 124             | _      | 1      | _      | _      | _      | _      | _      | _      | _      | _      |
| Tuberculosis (all forms)                 | 010–018         | 1,921  | 1,970  | 1,810  | 1,713  | 1,705  | 1,631  | 1,478  | 1,336  | 1,202  | 1,166  |
| Typhoid fever                            | 002.0           | _      | _      | 1      | 1      | _      | _      | 1      | _      | 1      | _      |
| Varicella (chickenpox)§                  | 052             | 83     | 89     | 120    | 81     | 100    | 100    | 124    | 115    | 81     | 99     |
| Yellow fever                             | 060             | _      | _      | _      | _      | _      | _      | _      | _      | 1      | _      |

Note: Data in the MMWR Summary of Notifiable Diseases, United States might not match data in other CDC surveillance reports because of differences in the timing of reports, the source of the data, and the use of different case definitions.

Source: National Center for Health Statistics System, 1988-1997. Deaths are classified according to the ICD-9.

<sup>\*</sup> International Classification of Diseases, Ninth Revision, 1975. Numbers in this column are ICD-9 categories.

† Acquired immunodeficiency syndrome (AIDS). In 1987, the National Center for Health Statistics introduced categories \*042-\*044 for classifying and coding human immunodeficiency virus (HIV) infection. The asterisks are not footnote symbols, but indicate that these codes are not part of ICD-9.

§ Varicella was taken off the nationally notifiable disease list in 1991. Many states continue to report these cases to CDC.

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# State and Territorial Epidemiologists and Laboratory Directors

State and Territorial Epidemiologists and Laboratory Directors are acknowledged for their contributions to CDC Surveillance Summaries. The epidemiologists and the laboratory directors listed below were in the positions shown as of December 1999.

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