## Tetanus Surveillance - United States, 2001-2008

Tetanus is a life-threatening but preventable disease caused by the toxin of Clostridium tetani, a ubiquitous, spore-forming, gram-positive bacillus found in high concentrations in soil and animal excrement. Reported tetanus cases have declined $>95 \%$, and deaths from tetanus have declined $>99 \%$ in the United States since 1947, when the disease became reportable nationally. To update a previous report ( 1 ) and to determine the populations at greatest risk for the disease, CDC analyzed cases reported to the National Notifiable Diseases Surveillance System (NNDSS) during 2001-2008. This report summarizes the results of that analysis, which found that 233 tetanus cases were reported during 2001-2008; among the 197 cases with known outcomes, the case-fatality rate was $13.2 \%$. Average annual incidence during that period was 0.10 per 1 million population overall and 0.23 among persons aged $\geq 65$ years. Incidence among Hispanics was nearly twice that among non-Hispanics, a difference accounted for by 16 cases among Hispanic injection drug users (IDUs). Among the 92 patients for whom tetanus toxoid-containing (TT) vaccination status was available, 37 ( $40.2 \%$ ) had received no doses of TT vaccine. Thirty ( $15.4 \%$ ) of 195 patients had diabetes, and 27 (15.3\%) of 176 were IDUs. Of 51 patients with an acute wound and a surveillance report complete enough to evaluate tetanus prophylaxis, 49 ( $96.1 \%$ ) had not received appropriate prophylaxis. Tetanus remains a rare but life-threatening disease in the United States. Health-care providers should ensure up-to-date TT vaccination of all their patients, especially persons aged $\geq 65$ years, persons with diabetes, and injection drug users.
From 1947 to 2008, the number of tetanus cases reported each year, which already had decreased greatly since 1900, continued to decline (Figure), in part because of continued use of tetanus antitoxin for wound management and introduction of TT vaccines in the 1930s and 1940s, which led to universal childhood immunization and the addition of decennial TT boosters for adults $(2,3)$. A major contributor to the decline in morbidity was the near elimination of neonatal tetanus, a result attributable to improved childbirth practices and to
increased levels of maternal immunity resulting from universal childhood vaccination (1). Sporadic cases of tetanus continue to occur in adults, especially in persons who were not vaccinated in childhood; during 1998-2000, a tetanus cluster was reported among IDUs in California (1). National surveillance for tetanus is conducted to monitor trends in incidence and identify populations at increased risk.
NNDSS is a passive surveillance system that relies on physicians to report cases of tetanus to state and local health departments. Because no laboratory test provides definitive confirmation of tetanus, the diagnosis is based on the clinical judgment of attending physicians and the exclusion of other causes of disease. For reporting cases to NNDSS, health-care providers use the following definition adopted by the Council of State and Territorial Epidemiologists and CDC in 1990: a confirmed case is an acute onset of hypertonia and/or painful muscular contractions (usually of the muscles of the jaw and neck) and generalized muscle spasms without other apparent medical cause, as reported by a health professional.
Tetanus case reports, including supplemental information (e.g., clinical history, patient vaccination status, wound care, clinical management, and outcome) and epidemiologic information are verified by health departments and transmitted electronically to CDC. Vaccination histories of patients are not validated by CDC. Tetanus rates by age and race/ethnicity were calculated using mid-year postcensal population estimates

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## U.S. Department of Health and Human Services <br> Centers for Disease Control and Prevention

FIGURE. Annual rate* of tetanus cases and tetanus deaths — National Notifiable Diseases Surveillance System, United States, 1947-2008


* Per 1 million population.

The MMWR series of publications is published by the Office of Surveillance, Epidemiology, and Laboratory Services, 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. [Article title]. MMWR 2011;60:[inclusive page numbers].

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for the years 2001-2008. Risk factors for death resulting from tetanus were assessed by univariate analyses followed by multivariate modeling.
During 2001-2008, a total of 233 cases were reported from 45 states; 26 ( $13.2 \%$ ) of 197 cases for which outcome was reported were fatal. A total of 120 cases ( $51.5 \%$ ) were reported from five states: California (60), Florida (25), Texas (12), New York (12), and Pennsylvania (11). An average of 29 cases was reported each year (range: 19-40). The average annual incidence was 0.10 per 1 million population (Table 1) and showed a slightly declining trend (Figure).
Sex and age were reported for all 233 cases. A total of 138 ( $59.2 \%$ ) patients were male; median age was 49 years (range: 5-94 years), excluding one nonfatal neonatal case.* Average annual incidence was higher among those aged $\geq 65$ years ( 0.23 cases per 1 million population) than among those aged 5-64 years ( 0.08 per 1 million population) (Table 1). Data on race were available for 179 ( $76.8 \%$ ) cases; incidence was similar by race: white ( 0.08 per 1 million population), black ( 0.07 ),

[^0]American Indian/Alaska Native (0.09), Asian/Pacific Islander (0.07), and other race (0.02). Data on Hispanic ethnicity were available for 185 ( $79.4 \%$ ) cases. The incidence among Hispanics was almost twice that among non-Hispanics ( 0.13 versus 0.07 cases per 1 million population); however, when IDUs were excluded, the incidence was almost the same among Hispanics ( 0.08 ) compared with non-Hispanics ( 0.07 ).
TT vaccination status was reported for 92 (39.5\%) of the 233 patients. A total of 37 patients ( $40.7 \%$ ) received no TT doses, $26(28.3 \%)$ received 1 dose, five ( $5.4 \%$ ) received 3 doses, and $24(26.1 \%)$ received $\geq 4$ doses (Table 2). Among the 36 patients aged $\geq 50$ years, five ( $13.9 \%$ ) reported completing the primary 3-dose TT series, compared with 24 (42.9\%) of the 56 aged $<50$ years. Seven ( $24.1 \%$ ) of 29 patients with $\geq 3$ doses of TT had received their last dose within 10 years, 18 (62.1\%) from 10 to 54 years previously, and four ( $13.8 \%$ ) reported an unknown interval since their last dose.
Among 195 patients whose medical history was known, 30 ( $15.4 \%$ ) were reported to have diabetes. Twenty-seven ( $15.3 \%$ ) of 176 patients whose status was known were IDUs, of whom 16 ( $59.3 \%$ ) were Hispanic. Three ( $11.1 \%$ ) of 27 patients with diabetes and known drug use status were IDUs. An

TABLE 1. Number and rate* of tetanus cases, number of known deaths, and case-fatality rate (CFR), by tetanus toxoid-containing vaccination status and age group - United States, 2001-2008

| Age group (yrs) | Previous vaccination with tetanus toxoid-containing vaccine |  |  |  |  |  |  |  |  |  | Total |  | Average annual rate | No. known deaths | $\begin{aligned} & \mathrm{CFR}^{\dagger} \\ & \text { (\%) } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Unknown |  | 0 dose |  | 1 dose |  | 3 doses |  | $\geq 4$ doses |  |  |  |  |  |  |
|  | No. | (\%) | No. | (\%) | No. | (\%) | No. | (\%) | No. | (\%) | No. ${ }^{\text {¢ }}$ | (\%) |  |  |  |
| 5-19 | 6 | (27.3) | 10 | (45.5) | 1 | (4.6) | 1 | (4.6) | 4 | (18.2) | 22 | (9.4) | 0.04 | 0 | - |
| 20-34 | 20 | (58.8) | 3 | (8.8) | 3 | (8.8) | 1 | (2.9) | 7 | (20.6) | 34 | (14.6) | 0.07 | 0 | - |
| 35-49 | 37 | (59.7) | 5 | (8.1) | 9 | (14.5) | 2 | (3.2) | 9 | (14.5) | 62 | (26.6) | 0.12 | 4 | (7.5) |
| 50-64 | 30 | (69.8) | 4 | (9.3) | 6 | (14.0) | 0 | - | 3 | (7.0) | 43 | (18.5) | 0.11 | 2 | (5.4) |
| $\geq 65$ | 48 | (67.6) | 14 | (19.7) | 7 | (9.9) | 1 | (1.4) | 1 | (1.4) | 71 | (30.5) | 0.23 | 20 | (31.3) |
| Total | 141 | (60.5) | 37 | (15.9) | 26 | (11.2) | 5 | (2.2) | 24 | (10.3) | 233 | (100.0) | 0.10 | 26 | (13.2) |

* Per 1 million population.
† Based on 197 cases with known outcomes.
§ Includes one nonfatal case in a neonatal patient who received no vaccine doses.

TABLE 2. Number of tetanus cases and known deaths, by tetanus toxoid-containing vaccination status and years since last dose - United States, 2001-2008

| Previous vaccination with tetanus toxoidcontaining vaccine | No. | (\%) | Years since last dose |  |  |  |  |  | Known deaths* |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | <10 |  | $\geq 10$ |  | Unknown |  |  |  |
|  |  |  | No. | (\%) | No. | (\%) | No. | (\%) | No. | (\%) |
| 0 dose | $37^{+}$ | (15.9) | - | - | - | - | - | - | 8 | (30.8) |
| 1 dose | 26 | (11.2) | 9 | (32.1) | 11 | (21.6) | 6 | (3.9) | 3 | (11.5) |
| 2 doses | 0 | - | - | - | - | - | - | - | - | - |
| 3 doses | 5 | (2.2) | 1 | (3.6) | 3 | (5.9) | 1 | (0.7) | 0 | - |
| $\geq 4$ doses | 24 | (10.3) | 6 | (21.4) | 15 | (29.4) | 3 | (2.0) | 1 | (3.8) |
| Unknown | 141 § | (60.5) | 12 | (42.9) | 22 | (43.1) | 107 | (69.5) | 14 | (53.9) |
| Total | 233 | (100.0) | 28 | (100.0) | 51 | (100.0) | 117 | (100.0) | 26 | (100.0) |

[^1]What is already known on this topic?
In 1947, the first year that tetanus became reportable nationally in the United States, the rate of reported cases was 3.9 per 1 million population. Since then, cases have declined $>95 \%$ with universal childhood vaccination with tetanus toxoid-containing (TT) vaccines, decennial TT boosters, improved wound management with tetanus antitoxin, and improved childbirth practices; however, sporadic cases in adults still occur, especially in those not vaccinated during childhood.
What is added by this report?
During 2001-2008, the average annual incidence of tetanus in the United States was 0.10 cases overall per 1 million population and 0.23 among persons aged $\geq 65$ years; the case-fatality rate was $13.2 \%$ overall but $31.3 \%$ among persons aged $\geq 65$ years.
What are the implications for public health practice?
Health-care providers should periodically assess their patients' TT vaccination status, with particular emphasis on up-to-date vaccination for those likely to be vaccinated inadequately or at increased risk for disease, such as persons aged $\geq 65$ years, those with diabetes, and injection drug users.
acute wound preceded disease onset in 167 ( $71.7 \%$ ) patients. Of those patient wounds, 132 (79.0\%) were punctures, or contaminated, infected, or devitalized wounds considered tetanus-prone and eligible to receive tetanus immune globulin (TIG) (4). Sixty-one ( $36.5 \%$ ) of the 167 patients with acute wounds sought medical care. Case reports for 51 ( $83.6 \%$ ) of those who sought care were sufficiently complete to evaluate prophylaxis received; 49 ( $96.1 \%$ ) did not receive appropriate TT prophylaxis or TT plus TIG as is currently recommended (4). Among all 233 patients, 31 ( $13.3 \%$ ) reported a chronic wound or infection before disease onset, including diabetic ulcers and dental abscesses. Twenty-two (9.4\%) reported no wounds or infections; of these, 14 were IDUs.
Among all persons with reported tetanus, the risk for fatal disease was greater among those aged $\geq 65$ years than those aged $<65$ years (relative risk [RR] $=5.1 ; 95 \%$ confidence interval $[C I]=2.1-12.2)$, among those with diabetes than those without diabetes ( $\mathrm{RR}=2.4 ; \mathrm{CI}=1.2-4.8$ ), and among those with no TT vaccination compared with those with $\geq 1$ doses of TT $(\mathrm{RR}=4.0 ; \mathrm{CI}=1.2-14.1)$. However, in the multivariable model, comparing age $\geq 65$ years versus $<65$ years, diabetes versus no diabetes, and no doses of vaccination versus 1 dose, neither diabetes (odds ratio $[\mathrm{OR}]=1.3 ; \mathrm{CI}=0.2-7.2$ ) nor vaccination ( $\mathrm{OR}=3.1$; $\mathrm{CI}=0.7-15.1$ ) were statistically significant. Age $\geq 65$ years remained a factor for greater risk for fatal tetanus ( $\mathrm{OR}=9.6 ; \mathrm{CI}=3.6-25.0$ ) in a final parsimonious model including only age. Sex, injection drug use, Hispanic ethnicity, unknown vaccination history, and acute injuries (versus chronic wounds) were not associated with increased risk for fatal disease in either univariate or multivariable analyses.

## Reported by

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## Editorial Note

Inadequate TT vaccination and inadequate wound prophylaxis remain the most important factors associated with tetanus. The findings in this report indicate that older adults are at greater risk for tetanus than younger persons, and the risk for fatal disease is higher among patients aged $\geq 65$ years. This increased risk likely results from inadequate vaccination rather than inadequate response to vaccination, because tetanus toxoid is sufficiently immunogenic in older adults (5). In this analysis, only one patient aged $\geq 50$ years reported having received a complete primary series and up-to-date boosters. Surveys of adults have shown declining TT vaccination coverage with increasing age, with coverage of $<50 \%$ observed among persons aged $\geq 65$ years in 2007 ( 6 ). Missed opportunities to vaccinate adult women and older adults in primary-care settings are common $(7,8)$. Providers should review vaccination status during adult health-care visits to ensure that persons with inadequate vaccination complete the primary tetanus series and are up-to-date with booster doses.
In this analysis, approximately one third of patients with acute wounds sought medical care, and among those who sought care and had sufficient case data, fewer than $4 \%$ received appropriate TT prophylaxis or TT plus TIG as recommended (4). Patients might not receive optimal tetanus prophylaxis as part of wound management because of the trivial appearance of many wounds and the failure of health-care providers to obtain a vaccination history, particularly from those who are not up to date with their TT vaccination (9).
Populations considered at increased risk for tetanus include persons with tetanus-prone wounds, IDUs, and those with diabetes and chronic wounds. The prevalence of diabetes among patients in this analysis was $15 \%$, nearly three times the average estimated prevalence of diabetes in the United States during 2001-2008 (10). Although the mechanism for increased risk is unclear, one possible explanation is that healthcare providers might not suspect tetanus early in persons with chronic wounds and diabetes; approximately $13 \%$ of tetanus patients reported a chronic wound or infection before onset. Health-care providers should incorporate up-to-date decennial TT vaccination into routine diabetes management to prevent tetanus ( $)$. Of those who reported no wound or infections,
the majority were IDUs. The mechanism for the greater tetanus risk among IDUs likely is introduction of tetanus spores through contaminated heroin or injection needles.
During 2001-2008, 71.7\% of tetanus patients had acute wounds, but only $36.5 \%$ sought immediate medical care, thus limiting the effectiveness of secondary prevention strategies. This finding was nearly identical to that of a previous report for the period 1982-2000 (1). These data also support previous studies indicating that provision of prophylaxis is not always optimal, at least in part because tetanus can result from seemingly trivial wounds that would not trigger suspicion of tetanus risk; clinical determination of tetanus-prone wounds is not exact $(4,9)$. In addition, this report indicates that, during 2001-2008, $13 \%$ of patients reported experiencing chronic wounds or conditions that were considered the source of tetanus infection. Many of these were not considered classic tetanus-prone wounds, according to treatment guidelines.
The findings in this report are subject to at least two limitations. First, surveillance for tetanus is passive and likely to be limited by underreporting and potential misclassification of disease. Second, because not all tetanus case reports were complete, missing data regarding outcome, risk factors, and other patient characteristics might affect the accuracy of the case-fatality ratio and certain other calculations.

Because $C$. tetani is ubiquitous in the environment, thorough assessment and management of wounds are especially important to the prevention of tetanus. Health-care providers should assess their patients' TT vaccination status with particular emphasis on up-to-date vaccination, especially if the patients are older adults, IDUs, persons with diabetes, and persons with chronic wounds.

## Acknowledgments

This report is based, in part, on contributions by T Pondo, MS, CE Rose Jr, PhD, Div of Bacterial Diseases, K Brown, MPH, Global Immunization Div, National Center for Immunization and Respiratory Diseases; P Srivastava, MS, Office of the Director, Office of Infectious Diseases; S Shah, MS, Div of HIV/AIDS Prevention Surveillance and Epidemiology, National Center for HIV, Viral Hepatitis, STD, and TB Prevention, CDC.

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# CDC Grand Rounds: Chlamydia Prevention: Challenges and Strategies for Reducing Disease Burden and Sequelae 

Chlamydia, a sexually transmitted infection caused by the bacterium Chlamydia trachomatis, is the most commonly reported nationally notifiable disease. A total of $1,244,180$ cases were reported in 2009 (1). However, many infections are not detected, and an estimated 2.8 million infections occur each year (2). The burden of infection is greatest among sexually active adolescents and young adults; chlamydia prevalence among sexually active persons aged 14-24 years is nearly three times the prevalence among those aged 25-39 years (National Health and Nutrition Examination Survey 1999-2008 [NHANES], unpublished data, 2011) (Figure 1). Substantial racial/ethnic disparities in chlamydial infection exist, with prevalence among non-Hispanic blacks approximately five times the prevalence among non-Hispanic whites. Among sexually active females aged 14-19 years, chlamydia prevalence is $6.8 \%$ overall ( $4.4 \%$ among non-Hispanic whites and $16.2 \%$ among non-Hispanic blacks).
The majority of genital chlamydial infections in both males and females are asymptomatic (3). When symptoms do occur, lower urogenital tract infection can manifest as cervicitis in females and urethritis in males and females. Whether symptomatic or asymptomatic, untreated chlamydia can ascend to the upper genital tract. In males, this can cause epididymitis, which is not thought to be an important cause of long-term sequelae. However, in females, upper tract infection can result in pelvic inflammatory disease (PID), a spectrum of clinical disorders involving infection and inflammation of the uterus, fallopian tubes, ovaries, or adjacent peritoneum. Both clinically diagnosed PID and subclinical upper genital tract infection can result in fibrosis, scarring, and loss of tubal function, which can in turn lead to serious long-term reproductive consequences, including tubal factor infertility (inability to conceive because of structural or functional fallopian tube damage), ectopic pregnancy, and chronic pelvic pain.
Available natural history data have limitations but suggest that $10 \%-15 \%$ of untreated chlamydial infections result in diagnosed clinical PID $(4,5)$. Once clinical PID occurs, up to $10 \%-15 \%$ of cases might lead to tubal factor infertility (4). Chlamydia also can lead to tubal infection that is not diagnosed

[^2]as PID; thus, an even greater proportion of untreated infections likely lead to infertility. Approximately 750,000 PID cases are diagnosed each year in the United States (G). However, PID has multiple infectious etiologies, and the burden of chlamydia-related PID is difficult to determine. Infertility is a major public health problem; in 2002, $7.4 \%$ of married females aged 15-44 years were infertile, and nearly one in five females aged $40-44$ years reported receiving a medical service for infertility at some point (7). The proportion of all infertility that is tubal factor varies by clinical setting, ranging from $10 \%$ to $40 \%(8,9)$. Chlamydia is the leading preventable cause of tubal factor infertility (8). Direct medical costs of chlamydia, including diagnosing and treating chlamydiaassociated infertility, are estimated at $\$ 701$ million annually (in 2010 U.S. dollars) (3).

## Prevention Challenges and Solutions

Chlamydia prevention programs have been implemented to reduce the burden of reproductive sequelae resulting from chlamydial infection. Because most reproductive complications of chlamydia occur in females and most infections are asymptomatic, the cornerstone of chlamydia prevention is screening young females for infection. Chlamydia is easily diagnosed and treated. Nucleic acid amplification tests are the preferred diagnostic tests because of their superior sensitivity, and they can be performed on easily collected specimens, such as urine or vaginal swabs. Highly efficacious treatment options include single-dose oral azithromycin or a 1-week course of doxycycline. National chlamydia screening recommendations were first released in 1993. Currently, CDC, the U.S. Preventive Services Task Force (USPSTF), and numerous professional medical associations recommend annual chlamydia screening for all sexually active females aged $<25$ years and for females aged $\geq 25$ years if they are at increased risk for infection (e.g., if they have new or multiple sex partners) (10). USPSTF defines chlamydia screening of sexually active young females as an A-rated recommended preventive service (strongest recommendation), based on randomized controlled trial data demonstrating that screening reduces PID incidence (2).
Evidence is insufficient to recommend routine chlamydia screening for males because of several factors, including feasibility, impact, and cost-effectiveness in preventing sequelae in females (10). However, targeted male screening in high prevalence settings (e.g., correctional facilities) should be considered when resources permit and such screening does not hinder

FIGURE 1. Chlamydia prevalence among sexually active* persons, by age group - United States, $1999-2008^{\dagger}$


Source: Unpublished data from National Health and Nutrition Examination Survey cycles 1999-2008, combined to provide stable estimates for all subgroups. Additional information available at http://www.cdc.gov/nchs/nhanes/ nhanes_questionnaires.htm.

* Based on a "yes" response to the question, "Have you ever had sex?" Sex was defined as vaginal, anal, or oral sex.
${ }^{\dagger}$ All relative standard errors $<30 \%$.
chlamydia screening efforts in females (10). Male partners of females infected with chlamydia have the highest prevalence of infection and should be the top priority for chlamydia testing and treatment efforts among males.
National screening recommendations have been in place for 18 years. Assessing the success of chlamydia prevention programs in reducing chlamydial infections and associated sequelae is critical. Traditionally, sexually transmitted disease (STD) trends have been monitored through case reports, and reported chlamydia case rates have climbed steadily during the past 2 decades (1). However, reported case rates do not necessarily reflect actual trends in incidence of infection. Increased case rates most likely are attributed to increased detection of infection through greater screening and use of more sensitive tests. In fact, prevalence data from several sources indicate that national chlamydia prevalence has not increased during the past decade and might actually be decreasing (11,12). For example, in a study conducted among women and men entering the National Job Training Program, the adjusted odds of a positive chlamydia test decreased by $19 \%$ in women and $8 \%$ in men during 2003-2007 (12). In addition, although PID has multiple causes, several data sources demonstrate that PID rates have been decreasing $(1,6,13)$. After substantial declines in PID rates during the late 1980s and 1990s (6), a $25 \%$ decline in PID rates during 2001-2005 was observed using a sample of national insurance claims data (13). Overall, available
ecologic evidence suggests that current chlamydia prevention programs, focused primarily on screening young females, are having some impact on chlamydia prevalence and PID, but not enough.
Screening females aged $<25$ years is ranked by the National Commission on Prevention Priorities as one of the 10 most beneficial and cost-effective prevention services, but it also is among the most underutilized (14). Screening coverage increased during 2001-2009 but still was less than $60 \%$; in 2009, coverage was $43 \%$ among eligible females enrolled in commercial health-care plans and 57\% among the Medicaid population (Figure 2) (15). Expanding chlamydia screening will be critical to reducing disease burden and associated reproductive sequelae. In addition, other prevention strategies also should play an important role, including behavioral interventions, rescreening of infected persons, and partner treatment efforts.
Behavioral risk reduction efforts, such as promoting correct and consistent condom use, can have an impact not only on chlamydia, but also on other STDs, including human immunodeficiency virus (HIV) infection, and on unintended pregnancy (10). Because repeat chlamydial infection is common, CDC recommends rescreening persons with chlamydia 3 months after treatment (10). Finally, treating male sex partners of infected females is critical in preventing repeat infections in females, and modeling work has shown that it also is essential in interrupting chlamydia transmission in the population (16). A safe, effective partner treatment tool endorsed by CDC and many medical associations is expedited partner therapy (EPT) (17). EPT involves providing prescriptions or medications to a patient to take to his/her partner, without examining the partner. EPT has been shown to be useful in ensuring partner treatment among males and reducing repeat infections among females (17).
Barriers exist in implementing chlamydia prevention strategies. Young females might lack knowledge about the need for screening and might be reluctant to seek STD services because of fears related to disclosing sexual activity to health-care providers and the societal stigma related to STDs. In addition, young adults (i.e., those aged 20-29 years) remain the largest uninsured group in the United States, with associated underutilization of health care (18). When young females do seek care, many health-care providers fail to take a sexual history and offer chlamydia screening. Clinicians might have limited knowledge about STDs and screening recommendations, might lack information about community STD rates, and might believe their patients are not at high risk (19). High deductibles and copayments for clinic visits, laboratory services, and medications might be another important barrier. For adolescents, maintaining confidentiality is of particular concern. All 50 states and the District of Columbia currently

FIGURE 2. Percentage of sexually active* females aged 16-24 years ${ }^{\dagger}$ screened for chlamydia, by health plan type - United States, 2001-2009


Source: Healthcare Effectiveness Data and Information Set. Available at http://www.ncqa.org/tabid/136/ default.aspx.

* Defined as persons who had a claim or visit for pregnancy; contraception; diagnosis, screening, or treatment for a sexually transmitted disease; or cervical cancer screening.
${ }^{\dagger}$ Aged $16-26$ years during 2001-2002, 16-25 years during 2003-2007, and 16-24 years during 2008-2009.
through lectures, articles, and webinars, and promoting quality measures to improve the care of adolescents. ${ }^{\S}$ The coalition also is working to address racial/ethnic disparities in chlamydia prevalence, for example, by using mini-grants to develop community-level prevention approaches in areas with a disproportionate burden. The American Academy of Pediatrics and the Society for Adolescent Health and Medicine have developed coding and billing tools to maximize provider reimbursement while minimizing potential disclosure of confidential services through health plan billing statements. 9
One of the primary barriers to improving partner treatment services for chlamydia has been concerns about the legality of EPT in various jurisdictions. National advocacy efforts have been successful in removing many EPT legal and health systems barriers. In 2006, EPT was legally permissible in 12 states; as of November 2010, it was permissible in 27 states and one city. California was one of the first states to legalize EPT. In monitoring chlamydia partner services, California has found the highest levels of partner treatment with EPT, as well as with an alternative partner treatment strategy, "bring your own partner" (BYOP) (Figure 3) (20). With BYOP, at the time clinic staff members contact patients regarding their positive chlamydia test results and the need for timely treatment, staff members encourage patients to bring their partners with them when they come for treatment. For all partner treatment strategies, cost remains a major barrier to implementation. Ensuring coverage of the partner's prescribed treatment is critical. Effective partner treatment is an evidence-based prevention intervention that can reduce the risk for reinfection in females and ongoing transmission of chlamydia in the population.


## Summary and Next Steps

A substantial burden of chlamydia exists in the United States. Chlamydia is an important preventable cause of infertility and other adverse reproductive health outcomes. Effective prevention interventions are available to reduce the burden of chlamydia and its sequelae, but they are underutilized. Although prevention programs appear to be having some impact on chlamydia prevalence and PID, improvements can be made in raising awareness about chlamydia, increasing screening coverage, and enhancing

[^3]FIGURE 3. Percentage of chlamydia patients reporting that their sex partners also received treatment, by partner management strategy — eight family planning clinics, California, 2005-2006


Abbreviations: EPT = expedited partner therapy; BYOP = bring your own partner.
Source:Yu Y, Frasure J, Bolan G, et al. Evaluation of partner services for treatment of Chlamydia trachomatis in California family planning clinics. Presented at the 2008 National STD Prevention Conference, Chicago, IL,March 10-13,2008. Available at http://cdc.confex.com/cdc/std2008/webprogram/Paper14526.html.
partner services, including EPT. In addition, efforts should focus on reaching disproportionately affected racial/ethnic groups. Improving measurement of program implementation and outcomes also is critical. Chlamydia prevention presents many challenges but also opportunities for improvement. To break the cycle of chlamydia transmission in the United States, health-care providers should encourage annual chlamydia screening for all sexually active females aged $<25$ years, maximize use of effective partner treatment services, and rescreen infected females and males 3 months after treatment.

## Reported by

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# Measles Outbreaks and Progress Toward Measles Preelimination African Region, 2009-2010 

In 2008, the World Health Organization (WHO) African Region (AFR) measles technical advisory group (TAG) recommended establishing a measles preelimination goal, to be achieved by the end of 2012. The goal sets the following targets for the 46 AFR countries: $\geq 98 \%$ reduction in estimated regional measles mortality compared with 2000; measles incidence of $<5$ cases per 1 million population per year nationally; $>90 \%$ national measles-containing vaccine (MCV) first dose (MCV1) coverage and $>80 \%$ MCV1 coverage in all districts; and $\geq 95 \%$ MCV coverage by supplementary immunization activities (SIAs) in all districts (1). The goal also sets surveillance performance targets of $\geq 2$ cases of nonmeasles febrile rash illness per 100,000 population, $\geq 1$ suspected measles cases investigated with blood specimens in $\geq 80 \%$ of districts, and routine reporting from all districts ( 1 ). In addition, introduction of a routine second MCV dose (MCV2) was recommended for countries meeting specific criteria for MCV1 coverage and measles surveillance ( 1,2 ). This report updates progress toward the preelimination goal during 2009-2010 and summarizes measles outbreaks occurring in AFR countries since 2008. Of the 46 AFR countries, 12 (26\%) reported measles incidence of $<5$ cases per 1 million population during 2010, compared with $28(61 \%)$ in 2008. Furthermore, 28 ( $61 \%$ ) countries reported a laboratory-confirmed measles outbreak during 2009-2010 (3). The recent measles outbreaks highlight the need for renewed dedication by donors and governments to ensure that national multiyear vaccination plans, national budgetary line items, and financial commitments exist for routine immunization services and measles control activities.

## Measles Vaccination Coverage

The 46 AFR countries* report routine vaccination coverage to the WHO Regional Office for Africa (AFRO) using the WHO and United Nations Children's Fund (UNICEF) Joint Reporting Form (JRF) (4). In addition, WHO and UNICEF publish MCV1 coverage estimates based on multiple data sources, including JRF reports and demographic surveys (5). As of 2010, MCV1 was administered routinely at age 9 months ${ }^{\dagger}$ in 43

[^4]countries, and MCV2 was included in the routine immunization program in seven countries (Algeria, Cape Verde, Lesotho, Mauritius, Seychelles, South Africa, and Swaziland).
During 2001-2008, reported MCV1 coverage increased from $55 \%$ to $79 \%$ in the region (厅). In 2009, AFR MCV1 administrative coverage ${ }^{\S}$ was $83 \%$, based on the most recent JRF data; the WHO and UNICEF regional MCV1 coverage estimate was $69 \%$ (Figure 1). In 2009, four (9\%) countries (Burkina Faso, Gambia, Mauritius, and Sao Tome and Principe) reported $>80 \%$ MCV1 coverage in all districts. To interrupt endemic transmission of measles, mathematical models indicate that $93 \%-95 \%$ population immunity is needed (7). Since 1997, 41 ( $89 \%$ ) countries (all except Algeria, Cape Verde, Mauritius, Sao Tome and Principe, and Seychelles) have conducted an SIA targeting children aged 9 months-14 years, and 43 ( $93 \%$ ) countries (all except Algeria, Mauritius, and Seychelles) have conducted at least one SIA targeting children aged 9-59 months. A nationwide SIA was conducted in 31 ( $67 \%$ ) countries during 2009-2010 (Table); of these countries, five (16\%) (Ethiopia, Ghana, Malawi, Zambia, and Zimbabwe) conducted post-SIA vaccination coverage surveys.

## Measles Surveillance

Data on suspected measles cases are tallied monthly at local health facilities, reported to the district level, aggregated at the national level, and annually reported to AFRO using the JRF (8). JRF data on 2010 suspected measles cases were not yet available; thus, 2010 measles case-based surveillance data reported to AFRO by 40 ( $87 \%$ ) countries, in accordance with WHO AFRO measles surveillance guidelines, are cited instead (8). During 2001-2008, reported measles cases in AFR decreased by $93 \%$, and estimated measles-related mortality declined $91 \%$ (2). The number of reported measles cases decreased from 520,102 in 2000 to 37,162 in 2008, then increased to 83,464 in 2009 and to 172,824 in 2010 (Figure 1). Of 172,824 reported cases, 23,842 ( $14 \%$ ) were laboratory confirmed and 109,570 ( $63 \%$ ) were confirmed through epidemiologic link ${ }^{9}$ (3). During 2010, 25 ( $63 \%$ ) countries met the nonmeasles febrile rash illness reporting target of $\geq 2$ cases per 100,000

[^5]TABLE. Reported and estimated measles vaccination coverage,* supplementary immunization activities (SIAs), ${ }^{\dagger}$ reported measles cases, ${ }^{\S}$ and measles incidence, ${ }^{9}$ by country - World Health Organization (WHO) African Region, 2009-2010

| Country | MCV1 coverage for 2009 |  | Most recent national measles SIA |  |  | 2009 |  | 2010 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Administrative coverage (\%)** | WHO/UNICEF estimates $(\%)^{\dagger+}$ | Year | Target age groups (mos) | Administrative coverage (\%) | No. of reported measles cases | Incidence (per 100,000 population) | No. of reported measles cases | Incidence (per 100,000 population) |
| Algeria | NA | 88 | 2007 | NA | 90 | NA | NA | NA | NA |
| Angola ${ }^{\text {an }}$ | 77 | 77 | 2009 | 9-59 | >100 | 2,657 | 0.3 | 1,679 | 6.7 |
| Beninf9 | 95 | 72 | 2008 | 9-59 | >100 | 1,001 | 7.6 | 368 | 2.7 |
| Botswana!9 | 93 | 94 | 2009 | 9-59 | >100 | 553 | 5.9 | 1,412 | 46.8 |
| Burkina Faso ${ }^{\text {99 }}$ | 99 | 75 | 2007 | 9-59 | >100 | 786 | 3.3 | 741 | 2.5 |
| Burundit9 | 91 | 91 | 2010 | $9 \mathrm{mos}-14 \mathrm{yrs}$ | 94 | 303 | 0.2 | 492 | 2.8 |
| Cameroon ${ }^{\text {919 }}$ | 74 | 74 | 2009 | 9-59 | 96 | 1,305 | 4.4 | 808 | 1.1 |
| Cape Verde | 72 | 96 | 2009 | 9-59 | 87 | 3 | 0.0 | NA | NA |
| Central African Republic | 94 | 62 | 2010 | 9-47 | NA | 119 | 0.3 | 96 | 0.0 |
| Chad ${ }^{19}$ | 87 | 23 | 2009 | 9-59 | 93 | 551 | 3.7 | 305 | 1.7 |
| Comoros | 79 | 79 | 2010 | 9-47 | 84 | 1 | NA | NA | NA |
| Congo | 76 | 76 | 2010 | 9-59 | 82 | 106 | 0.0 | 113 | 0.1 |
| Côte d'Ivoire ${ }^{\text {fa }}$ | 67 | 67 | 2008 | 9-59 | 95 | 423 | 0.7 | 912 | 2.1 |
| Democratic Republic of Congo ${ }^{\text {IT }}$ | 86 | 76 | 2010 | 6-59 | NA | 683 | 0.1 | 1,421 | 0.2 |
| Equatorial Guinea | 77 | 51 | 2009 | 12-59 | 80 | 76 | NA | NA | NA |
| Eritrea | 80 | 95 | 2009 | 9-47 | 82 | 45 | 0.1 | 168 | 0.1 |
| Ethiopia99 | 75 | 75 | 2006 | 9-59 | 87 | 4,470 | 2.6 | 8,261 | 5.4 |
| Gabon | 63 | 55 | 2007 | 9-59 | 83 | 122 | NA | 58 | 0.1 |
| Gambia | 88 | 96 | 2007 | 9-59 | 96 | 3 | NA | 69 | 0.1 |
| Ghana | 93 | 93 | 2010 | 9-59 | 92 | 587 | 0.4 | 680 | 0.2 |
| Guinea ${ }^{\text {fa }}$ | 87 | 51 | 2009 | 9-59 | >100 | 56 | NA | 105 | 0.4 |
| Guinea-Bissau | 79 | 76 | 2009 | 9-59 | >100 | 0 | 0.0 | NA | NA |
| Kenya | 74 | 74 | 2009 | 9-59 | 82 | 1,374 | 0.1 | 1,279 | 0.2 |
| Lesothoif | 70 | 85 | 2010 | $6 \mathrm{mos}-14 \mathrm{yrs}$ | 91 | 182 | 0.9 | 2,857 | 118.7 |
| Liberia99 | 95 | 64 | 2010 | 6-59 | 100 | 53 | 0.0 | 81 | 0.3 |
| Madagascar | 85 | 64 | 2010 | 9-47 | 93 | 364 | NA | 394 | NA |
| Malawilı | 92 | 92 | 2010 | $9 \mathrm{mos}-14 \mathrm{yrs}$ | >100 | 533 | 0.1 | 73,727 | 526.3 |
| Malinq | 86 | 71 | 2007 | 9-59 | >100 | 3,086 | 22.4 | 1,990 | 12.6 |
| Mauritania 1 I\% | 59 | 59 | 2007 | 9-59 | 98 | 152 | 1.0 | 620 | 17.5 |
| Mauritius | 99 | 99 | NA | NA | NA | 15 | NA | NA | NA |
| Mozambique ${ }^{\text {f9 }}$ | 67 | 77 | 2008 | 9-59 | >100 | 457 | 0.2 | 2,318 | 6.7 |
| Namibia991 | 76 | 76 | 2009 | 9-59 | >100 | 2,222 | 45.4 | 2,242 | 64.3 |
| Niger ${ }^{1 / 4}$ | 87 | 73 | 2010 | 9-47 | >100 | 906 | 3.7 | 414 | 1.8 |
| Nigeria'9\% | 81 | 41 | 2008 | 9-59 | 97 | 4,800 | 0.8 | 14,028 | 5.1 |
| Rwanda" ${ }^{\text {a }}$ | 93 | 92 | 2009 | 9-59 | >100 | 254 | 0.1 | 517 | 1.2 |
| Sao Tome and Principe | 90 | 90 | NA | NA | NA | 0 | 0.0 | NA | NA |
| Senegal ${ }^{\text {and }}$ | 79 | 79 | 2010 | 9-59 | NA | 1,429 | 7.9 | 866 | 3.7 |
| Seychelles | 97 | 97 | NA | NA | NA | 0 | 0.0 | NA | NA |
| Sierra Leone ${ }^{\text {If }}$ | 93 | 71 | 2009 | 9-59 | >100 | 191 | 0.4 | 151 | 1.6 |
| South Africa"9 | 99 | 62 | 2010 | 6 mos-14 yrs | 80 | 2,510 | 3.1 | 24,393 | 25.5 |
| Swaziland ${ }^{\text {¢9 }}$ | 72 | 95 | 2010 | 6-59 | 90 | 152 | 0.3 | 771 | 25.9 |
| Togon9 | 84 | 84 | 2010 | 9-47 | 98 | 413 | 2.9 | 360 | 2.1 |
| Uganda | 81 | 68 | 2009 | 9-47 | >100 | 1,216 | 0.2 | 1,313 | 0.0 |
| United Republic of Tanzania | 91 | 91 | 2008 | 9-59 | 86 | 975 | 1.4 | 1,086 | 0.4 |
| Zambia99 | 92 | 85 | 2010 | 9-47 | >100 | 342 | 0.2 | 15,736 | 107.3 |
| Zimbabwe ${ }^{\text {f99 }}$ | 76 | 76 | 2010 | $6 \mathrm{mos}-15 \mathrm{yrs}$ | 97 | 524 | 1.1 | 9,993 | 72.4 |
| Regional total | $83^{\text {§§ }}$ | 69*** |  |  |  | 36,000 | 1.9 | 172,824 | 17.2 |

Abbreviations: AFRO = African Regional Office; IgM = immunoglobulin M; JRF = Joint Reporting Form; MCV = measles-containing vaccine; MCV1 = measles-containing vaccine first dose; NA = not available; UNICEF = United Nations Children's Fund.

* Reported measles vaccination coverage is the proportion of children aged 9-12 months who have received MCV1. The proportion is calculated by dividing the number of doses of MCV administered by the targeted number of children.
${ }^{\dagger}$ SIAs are regularly scheduled nationally to provide a second opportunity to administer MCV to all children aged 9-59 months.
$\S$ WHO AFRO monthly case-based reporting system. Underreporting in case-based data compared with the JRF data in 2009 was notably lower in Burkina Faso, Guinea, Mauritania, Namibia, South Africa, Uganda, United Republic of Tanzania, and Zimbabwe.
${ }^{\text {a }}$ Confirmed incidence is derived from cases confirmed in laboratory testing for measles-specific lgM antibodies, and reported to AFRO.
** Administrative coverage is the number of doses given to the target population, divided by the estimated target population. Countries report administrative data to WHO
${ }^{\dagger+}$ WHO and UNICEF estimates of routine measles vaccination coverage are based on reviews of surveys and national reports of administrative coverage.
§§ JRF data reported MCV1 administrative coverage as 79\% in 2008 and $83 \%$ in 2009.
19I One of the 28 countries that had measles outbreaks during 2009-2010.
*** WHO/UNICEF regional estimate for MCV1 was 67\% in 2008 and 69\% in 2009.

FIGURE 1. Number of reported measles cases* and coverage with the first dose of measlescontaining vaccine (MCV1) in children aged $<1$ year ${ }^{\dagger}$ - World Health Organization (WHO) African Region (AFR), 2000-2010§


* Confirmed cases of measles for 2000-2009 were reported by member states to WHO and the United Nations Children's Fund (UNICEF) through the Joint Reporting Form (JRF).
${ }^{\dagger}$ Data are from WHO/UNICEF measles vaccination coverage estimates based on reviews of surveys and national reports of administrative coverage and adjusted for biases. Administrative coverage is calculated by dividing the number of doses administered by the total estimated number in the <1 year target population.
§2010 data are from monthly measles case-based surveillance reported to the WHO AFR Office; JRF data are not included.
population and 29 ( $73 \%$ ) had $\geq 80 \%$ of districts reporting $\geq 1$ suspected cases with blood specimen. The overall confirmed measles incidence for the region in 2010 was 17.2 per 100,000 population and 12 ( $30 \%$ ) countries reported measles incidence of $<5$ cases per 1 million population (Figure 2).

During 2009 and 2010, B3 measles virus was detected in all 25 countries with genotype information and was the predominant genotype in the region. In addition to the B3 outbreak strain, Angola and Namibia reported transmission of the B2 genotype, and South Africa reported two additional genotypes: a D4 from a single case imported during the World Cup games in June 2010 and a D8 from a single case in 2009.

## Major Outbreaks and Response Activities

During 2009-2010, a total of 28 (61\%) of the 46 AFR countries had laboratory-confirmed measles outbreaks** with $>100$ reported measles cases, including 13 countries in 2009 and 15 additional countries in 2010 (Table), compared with

[^6]nine ( $20 \%$ ) countries in 2008. Of these 28 countries, 10 reported $\geq 90 \%$ MCV1 coverage in 2009, 15 had a follow-up SIA within 24 months before the outbreak, and all reported $\geq 90 \%$ SIA administrative coverage in the most recent measles SIA (Table). Of the 28 countries with reported outbreaks, 20 conducted an outbreak investigation and 14 implemented an outbreak response immunization (ORI) campaign or a nationwide SIA following the start of the outbreak.
In some AFRO countries, frequent outbreaks continued, suggesting that children were missed by routine vaccinations and by SIAs in recent years. Measles outbreaks in which the majority of cases involved children aged $<5$ years occurred in Angola, Democratic Republic of Congo, Ethiopia, Nigeria, and Sierra Leone. Ethiopia, for example, reported that MCV1 coverage increased from $59 \%$ in 2005 to $75 \%$ in 2009. The last nationwide measles SIA, conducted in three phases during 2007-2009, targeted children aged 9-59 months, with reported coverage of $98 \%, 92 \%$, and $93 \%$, respectively. The 2009 nonmeasles febrile rash illness rate was 2.4 per 100,000 population, and $87 \%$ of districts reported $\geq 1$ suspected cases with blood specimen. In $2009,1,176$ suspected cases were reported, compared with 8,261 cases in 2010 in 93 of 96 administrative zones. Of the cases reported in 2010, a total of 4,182 ( $51 \%$ ) were confirmed by either laboratory testing or epidemiologic link. Of the confirmed cases, 3,142 ( $75 \%$ ) were among children aged $<5$ years, and 3,877 ( $93 \%$ ) were among unvaccinated persons. In 2010, an ORI campaign was conducted in 54 districts of five zones, targeting children aged $6-59$ months, with reported coverage $>100 \%$.

In AFRO countries with higher, but still suboptimal, MCV1 coverage and SIA implementation, the age distribution of measles cases shifted to include older children and young adults. A measles outbreak pattern in which the age distribution of measles cases included older children and young adults occurred in Burkina Faso, Malawi, Namibia, South Africa, and Zambia. In Malawi, for example, reported MCV1 coverage increased from $82 \%$ in 2005 to $92 \%$ in 2009; a nationwide SIA targeting children aged 9-59 months was implemented in both 2005 and 2008, each with $>95 \%$ reported coverage. In 2009, the nonmeasles febrile rash illness rate was 3.8 per

FIGURE 2. Confirmed measles incidence* - World Health Organization (WHO) African Region (AFR), 2009 and 2010


* Confirmed measles incidence per 100,000 population; measles cases confirmed by laboratory testing or epidemiologic linkage.


## Reported by

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## Editorial Note

During 2001-2008, AFR countries made remarkable progress in reducing measles mortality and morbidity by increasing MCV1 coverage and periodic SIAs (2). However, since reaching an historic low of 32,278 reported cases in 2008, a resurgence of measles led to multiple large outbreaks during 2009-2010, despite increases in reported MCV1 coverage, indicating the fragility of the progress (Figure 1). Suboptimal routine and SIA vaccination coverage led to

100,000 and $96 \%$ of districts reported $\geq 1$ suspected case with blood specimen. In 2010, 73,727 suspected measles cases were reported from 24 of 28 districts in Malawi. Among 35,366 patients reported during October 24, 2009-July 17, 2010, a total of 14,627 ( $41 \%$ ) were aged $<5$ years, 11,391 (32\%) were aged 5-14 years, and $9,348(26 \%)$ were aged $\geq 15$ years. An initial ORI campaign was conducted 3 months after the start of the outbreak in three districts targeting children aged 9-59 months. A second ORI campaign was conducted 5-6 months after the outbreak started in eight districts targeting children aged 6 months- 14 years in affected schools and prisons with clusters of patients. In 2010, a nationwide SIA was implemented targeting children aged 6 months -14 years with $>95 \%$ administrative coverage in 26 of 28 districts.
Reasons for nonvaccination identified through outbreak investigations during 2009-2010 included vaccine unavailability; strict adherence to the WHO open vial policy, ${ }^{\dagger \dagger}$ leading to batching of children into infrequent vaccination sessions; and exclusion of children aged $>12$ months, who were considered ineligible for MCV1. In addition, unwillingness to receive vaccination was identified among certain religious groups in Zimbabwe, Botswana, Malawi, and South Africa.

[^7]an increasing number of susceptible persons over a prolonged period of low incidence, allowing some children to remain susceptible as they grew older. Outbreak cases occurring among older children and young adults suggest some progress in reducing measles incidence together with long-standing gaps in vaccination activities. In countries with large outbreaks occurring primarily among children aged <5 years, substantial numbers of children were missed by both routine vaccination and SIAs in recent years. In these countries, estimated MCV1 coverage remains suboptimal and reviews of vaccination services are needed to identify programmatic reasons for nonvaccination (9). Detailed outbreak investigations are recommended to describe the epidemiology of an outbreak, guide rapid ORI, and determine the likely cause of the outbreak (e.g., failure to vaccinate) ( 1 ).

The findings in this report are subject to at least two limitations. First, underreporting of measles cases and low sensitivity of measles case-based surveillance in some countries likely led to underestimates of measles incidence. Second, SIA administrative coverage $>100 \%$ suggests inaccurate and inflated reported coverage (9).
Although post-SIA coverage surveys are recommended, only five of 31 countries implemented a post-SIA coverage survey during 2009-2010. Estimates of vaccination coverage from population-based coverage surveys are key inputs to determine the susceptibility profile of a population. In addition, reliable

## What is already known on this topic?

During 2001-2008, reported measles-containing vaccine first dose (MCV1) coverage increased from $55 \%$ to $79 \%$ in 46 African countries, reported measles cases decreased by $93 \%$, and estimated measles-related mortality decreased $91 \%$. By 2008, 40 of the 46 countries had established case-based surveillance in accordance with the World Health Organization guidelines, and 28 reported measles incidence $<5$ cases per 1 million population per year.
What is added by this report?
In 2009, reported MCV1 coverage among the 46 African countries was 83\%; 12 (26\%) countries had measles incidence of $<5$ cases per 1 million population in 2010, and 28 ( $61 \%$ ) reported laboratory-confirmed measles outbreaks.
What are the implications for public health practice?
Despite substantial progress toward reducing measles mortality and morbidity, multiple outbreaks during 2009-2010 showed the gains were fragile, and epidemiologic investigations of some outbreaks showed a failure to vaccinate. The reasons for nonvaccination and corrective solutions need to be determined, the quality of reported data should be verified, and measles surveillance should be strengthened.
coverage estimates can help identify areas of low coverage so that program managers can better prioritize and more efficiently use resources. Even though AFR reported MCV coverage has increased continuously and the quality of measles surveillance has improved, subsequent measles outbreaks raise doubts concerning the accuracy and reliability of reported coverage and surveillance data. WHO-recommended methods for improving the accuracy of monitoring measles vaccination programs and post-SIA surveys to estimate coverage should be implemented routinely (1).
The 2009-2010 outbreaks highlight the need for full implementation of regional strategies, with an emphasis on improving vaccination coverage through routine immunization services and SIAs in every district, and introduction of MCV2 into routine immunization services in eligible countries (1).

National immunization program policies and delivery systems should be reviewed to ensure access to the recommended 2 doses of MCV by all eligible children. Communication strategies should be identified to ensure vaccination acceptance and demand among all segments of the population. Renewed dedication by donors and governments is needed to ensure that national multiyear plans, budgetary line items, and financial commitments exist for routine immunization services and measles control activities.

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## Announcements

## Autism Awareness Month — April 2011

April is Autism Awareness Month. CDC's most recent report from the 11 sites that make up the Autism and Developmental Disabilities Monitoring (ADDM) Network identified 2,757 children with autism spectrum disorders (ASDs) in a total population of 308,038 children aged 8 years, indicating a prevalence of approximately one in 110 (or $1 \%$ of children) (1). ASDs are a group of developmental disabilities characterized by atypical development in socialization, communication, and behavior. The symptoms of ASDs typically are present before age 3 years and often are accompanied by abnormalities in cognitive functioning, learning, attention, and sensory processing (1,2).

Efforts are needed to understand how complex genetic and environmental factors interact to result in the manifestations that make up the autism spectrum. In addition to differences in ASD prevalence by race/ethnicity, sex, and cognitive functioning, potential risk factors (e.g., variations by urban and rural area, sociodemographic status, perinatal complications, and parental age) also need further study. ADDM data are being analyzed to better understand the roles of these and other factors. Studies such as the Study to Explore Early Development, a CDC-funded study examining various risk factors for ASD, are being conducted and are necessary to test hypotheses more fully.

CDC also is working with caregiver and professional groups through the "Learn the Signs. Act Early" health education program to improve early identification of ASDs and other developmental disabilities (3). CDC has resources and information for health-care providers, including information on screening tools and free educational materials to give to patients. These resources are available at http://www.cdc.gov/actearly. Additional information about autism and CDC's activities is available at http://www.cdc.gov/autism.

## References

1. CDC. Prevalence of autism spectrum disorders-Autism and Developmental Disabilities Monitoring Network, United States, 2006. MMWR 2009;58(No. SS-10).
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## Epidemiology in Action: Intermediate Analytic Methods Course - May 31-June 1, 2011

Emory University's Rollins School of Public Health and CDC's Office of Surveillance, Epidemiology, and Laboratory Services will cosponsor Epidemiology in Action: Intermediate Analytic Methods, to be held May 31-June 3, 2011, at Emory University. This course is designed for public health professionals who have had training and experience in basic applied epidemiology and would like training in additional quantitative skills related to analysis and interpretation of epidemiologic data.
The course includes a review of the fundamentals of descriptive epidemiology and biostatistics, measures of association, normal and binomial distributions, confounding, statistical tests, stratification, logistic regression models, and computer programs as used in epidemiology.
The prerequisite is an introductory course in epidemiology taken as an undergraduate or graduate student or completion of courses such as Epidemiology in Action or the International Course in Applied Epidemiology. Tuition will be charged.
Additional information and applications are available from Emory University by mail (Hubert Department of Global Health [Attn: Pia], 1518 Clifton Rd. NE, Rm. 7038, Atlanta, GA 30322), by telephone (404-727-3485); by fax (404-7274590), online (http://www.sph.emory.edu/epicourses), or by email (pvaleri@emory.edu).

## STD Awareness Month — April 2011

April is STD Awareness Month, an annual observance to raise public awareness about the impact of sexually transmitted diseases (STDs) on the lives of persons in the United States and the importance of discussing sexual health with healthcare providers and sex partners. This STD Awareness Month's focus is on the importance of young persons getting tested. Even though they make up only $25 \%$ of the sexually active population, persons aged 15-24 years account for nearly half of the 19 million new STD cases each year (1). Undetected and untreated STDs can increase a person's risk for human immunodeficiency virus (HIV) infection and cause other serious health consequences, such as infertility. STD screening can help detect disease early and, when combined with treatment, is one of the most effective tools available to protect one's health and prevent the spread of STDs to others.

To increase STD screening among young persons, CDC is partnering again with MTV, the Kaiser Family Foundation, the Planned Parenthood Federation of America, and other partners on the GYT (Get Yourself Tested) campaign. This year, the GYT website (http://www.gytnow.org) is offering resources for health-care providers to help them better serve their teen and young adult patients. CDC continues to update its interactive STD and HIV testing locator on the National HIV and STD Testing Resource website (http://www.findstdtest.org). CDC's STD Awareness Resource Site (http://www.cdenpin. org/stdawareness) provides STD prevention partners with information and tools to support their local STD Awareness Month activities all year round. Additional information about STDs is available at http://www.cdc.gov/std.

## Reference

1. Weinstock H, Berman S, Cates W Jr. Sexually transmitted diseases among American youth: incidence and prevalence estimates, 2000. Perspect Sex Reprod Health 2004;36:6-10.

## Life Expectancy and Years Free of Activity Limitations,* by Race and Sex United States, 2006



* Estimates are based on data from the National Vital Statistics System and the National Health Interview Survey (NHIS). NHIS collects information in household interviews of a sample of the civilian noninstitutionalized U.S. population. Expected years free from activity limitations combines estimates of total life expectancy and prevalence rates of activity limitations associated with chronic conditions, which are determined from responses to several questions in the NHIS Family Core component. Questions and methods used to compute total life expectancy and expected years free of activity limitations are included in the source report.

In 2006, total life expectancy was greater for females than males and for whites than for blacks. Total life expectancy ranged from 80.6 years for white females and 76.5 years for black females to 75.7 years for white males and 69.5 years for black males. Expected years free of activity limitations was greatest for white females ( 69.1 years), followed by white males ( 65.7 years), black females (63.4 years), and black males ( 59.3 years).

Source: Molla MT, Madans JH. Life expectancy free of chronic condition-induced activity limitations among white and black Americans, $2000-2006$. National Center for Health Statistics. Vital Health Stat 2010;3(34). Available at http://www.cdc.gov/nchs/data/series/sr_03/sr03_034.pdf.

## Notifiable Diseases and Mortality Tables

TABLE I. Provisional cases of infrequently reported notifiable diseases ( $<1,000$ cases reported during the preceding year) — United States, week ending March 26, 2011 (12th week)*

| Disease | Current week | $\begin{aligned} & \text { Cum } \\ & 2011 \end{aligned}$ | 5-year weekly average ${ }^{\dagger}$ | Total cases reported for previous years |  |  |  |  | States reporting cases during current week (No.) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | 2010 | 2009 | 2008 | 2007 | 2006 |  |
| Anthrax | - | - | - | - | 1 | - | 1 | 1 |  |
|  |  |  |  |  |  |  |  |  |  |
| California serogroup virus disease | - | - | 0 | 74 | 55 | 62 | 55 | 67 |  |
| Eastern equine encephalitis virus disease | - | - | - | 10 | 4 | 4 | 4 | 8 |  |
| Powassan virus disease | - | - | 0 | 8 | 6 | 2 | 7 | 1 |  |
| St. Louis encephalitis virus disease | - | - | - | 10 | 12 | 13 | 9 | 10 |  |
| Western equine encephalitis virus disease | - | - | - | - | - | - | - | - |  |
| Babesiosis | 2 | 6 | 1 | NN | NN | NN | NN | NN | NY (2) |
| Botulism, total | 2 | 17 | 2 | 111 | 118 | 145 | 144 | 165 |  |
| foodborne | - | 2 | 0 | 7 | 10 | 17 | 32 | 20 |  |
| infant | 2 | 12 | 2 | 79 | 83 | 109 | 85 | 97 | PA (1), TX (1) |
| other (wound and unspecified) | - | 3 | 0 | 25 | 25 | 19 | 27 | 48 |  |
| Brucellosis | - | 8 | 2 | 129 | 115 | 80 | 131 | 121 |  |
| Chancroid | 2 | 6 | 1 | 31 | 28 | 25 | 23 | 33 | MA (2) |
| Cholera | - | 12 | 0 | 12 | 10 | 5 | 7 | 9 |  |
| Cyclosporiasis ${ }^{\text {8 }}$ | 3 | 25 | 1 | 173 | 141 | 139 | 93 | 137 | FL (2), TN (1) |
| Diphtheria | - | - | - | - | - | - | - | - |  |
| Haemophilus influenzae, ${ }^{* *}$ invasive disease (age <5 yrs): |  |  |  |  |  |  |  |  |  |
| nonserotype b | 2 | 21 | 5 | 186 | 236 | 244 | 199 | 175 | $\mathrm{OH}(1), \mathrm{CO}(1)$ |
| unknown serotype | 6 | 66 | 4 | 233 | 178 | 163 | 180 | 179 | NY (2), OH (2), NC (1), CA (1) |
| Hansen disease ${ }^{\S}$ | 1 | 13 | 2 | 69 | 103 | 80 | 101 | 66 | FL (1) |
| Hantavirus pulmonary syndrome ${ }^{\S}$ | - | 4 | 0 | 18 | 20 | 18 | 32 | 40 |  |
| Hemolytic uremic syndrome, postdiarrheal ${ }^{\text {§ }}$ | 1 | 12 | 2 | 240 | 242 | 330 | 292 | 288 | FL (1) |
| Influenza-associated pediatric mortality ${ }^{\text {¢ }}$, $\dagger \dagger$ | 12 | 85 | 4 | 61 | 358 | 90 | 77 | 43 | AZ (1), CA (1), GA (2), MI (1), MO (1), NYC (1), NV (1), SD (2), WA (1), WI (1) |
| Listeriosis | 6 | 82 | 11 | 776 | 851 | 759 | 808 | 884 | NY (1), GA (1), TX (1), AZ (1), CA (2) |
| Measles ${ }^{\text {§§ }}$ | 6 | 35 | 2 | 61 | 71 | 140 | 43 | 55 | MN (6) |
| Meningococcal disease, invasive ${ }^{\text {ffl }}$ |  |  |  |  |  |  |  |  |  |
| A, C, Y, and W-135 | 2 | 39 | 10 | 262 | 301 | 330 | 325 | 318 | SC (1), CO (1) |
| serogroup B | - | 23 | 4 | 122 | 174 | 188 | 167 | 193 |  |
| other serogroup | - | 1 | 1 | 10 | 23 | 38 | 35 | 32 |  |
| unknown serogroup | 6 | 120 | 15 | 406 | 482 | 616 | 550 | 651 | ME (1), OH (1), FL (1), AL (1), OR (1), CA (1) |
| Novel influenza A virus infections*** | - | 1 | 0 | 4 | 43,774 | 2 | 4 | NN |  |
| Plague | 1 | 1 | - | 2 | 8 | 3 | 7 | 17 | IN (1) |
| Poliomyelitis, paralytic | - | - | - | - | 1 | - | - | - |  |
| Polio virus Infection, nonparalytic ${ }^{\text {§ }}$ | - | - | - | - | - | - | - | NN |  |
| Psittacosis ${ }^{\text {§ }}$ | - | 1 | 0 | 4 | 9 | 8 | 12 | 21 |  |
| Q fever, total ${ }^{\text {§ }}$ | - | 12 | 2 | 119 | 113 | 120 | 171 | 169 |  |
| acute | - | 5 | 1 | 96 | 93 | 106 | - | - |  |
| chronic | - | 7 | 0 | 23 | 20 | 14 | - | - |  |
| Rabies, human | - | - | 0 | 1 | 4 | 2 | 1 | 3 |  |
| Rubella ${ }^{\text {t+t }}$ | - | 1 | 0 | 6 | 3 | 16 | 12 | 11 |  |
| Rubella, congenital syndrome | - | - | - | - | 2 | - | - | 1 |  |
| SARS-CoV ${ }^{\S}$ | - | - | - | - | - | - | - | - |  |
| Smallpox ${ }^{\text {§ }}$ | - | - | - | - | - | - | - | - |  |
| Streptococcal toxic-shock syndrome ${ }^{\S}$ | 5 | 34 | 5 | 173 | 161 | 157 | 132 | 125 | MA (1), NY (2), OH (2) |
| Syphilis, congenital (age <1 yr) ${ }^{\text {¢§§ }}$ | - | 24 | 7 | 273 | 423 | 431 | 430 | 349 |  |
| Tetanus | - | - | 0 | 11 | 18 | 19 | 28 | 41 |  |
| Toxic-shock syndrome (staphylococcal) ${ }^{\text {s }}$ | 2 | 16 | 2 | 77 | 74 | 71 | 92 | 101 | MI (1), CA (1) |
| Trichinellosis | - | 4 | 0 | 6 | 13 | 39 | 5 | 15 |  |
| Tularemia | 1 | 3 | 0 | 114 | 93 | 123 | 137 | 95 | CA (1) |
| Typhoid fever | 3 | 63 | 6 | 444 | 397 | 449 | 434 | 353 | CA (3) |
| Vancomycin-intermediate Staphylococcus aureus ${ }^{\text {§ }}$ | - | 13 | 1 | 100 | 78 | 63 | 37 | 6 |  |
| Vancomycin-resistant Staphylococcus aureus ${ }^{\text {s }}$ | - | - | 0 | 1 | 1 |  | 2 | 1 |  |
| Vibriosis (noncholera Vibrio species infections) ${ }^{\S}$ | 3 | 37 | 4 | 803 | 789 | 588 | 549 | NN | FL (3) |
| Viral hemorrhagic fever 9 99! | - | - | - | 1 | NN | NN | NN | NN |  |
| Yellow fever | - | - | - | - | - | - | - | - |  |

See Table 1 footnotes on next page.

TABLE I. (Continued) Provisional cases of infrequently reported notifiable diseases ( $<1,000$ cases reported during the preceding year) — United States, week ending March 26, 2011 (12th week)*

[^8]FIGURE I. Selected notifiable disease reports, United States, comparison of provisional 4-week totals March 26, 2011, with historical data


* Ratio of current 4-week total to mean of 154 -week totals (from previous, comparable, and subsequent 4 -week periods for the past 5 years). The point where the hatched area begins is based on the mean and two standard deviations of these 4-week totals.


## Notifiable Disease Data Team and 122 Cities Mortality Data Team

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Michael S. Wodajo Lenee Blanton

TABLE II. Provisional cases of selected notifiable diseases, United States, weeks ending March 26, 2011, and March 27, 2010 (12th week)*

| Reporting area | Chlamydia trachomatis infection |  |  |  |  | Coccidioidomycosis |  |  |  |  | Cryptosporidiosis |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Current week | Previous 52 weeks |  | $\begin{aligned} & \text { Cum } \\ & 2011 \end{aligned}$ | $\begin{aligned} & \text { Cum } \\ & 2010 \end{aligned}$ | Current week | Previous 52 weeks |  | $\begin{aligned} & \text { Cum } \\ & 2011 \end{aligned}$ | $\begin{aligned} & \text { Cum } \\ & 2010 \end{aligned}$ | Current week | Previous 52 weeks |  | $\begin{aligned} & \text { Cum } \\ & 2011 \end{aligned}$ | $\begin{aligned} & \text { Cum } \\ & 2010 \\ & \hline \end{aligned}$ |
|  |  | Med | Max |  |  |  | Med | Max |  |  |  | Med | Max |  |  |
| United States | 14,057 | 24,606 | 27,733 | 270,296 | 289,529 | 137 | 0 | 505 | 2,819 | NN | 30 | 121 | 356 | 807 | 1,246 |
| New England | 1,120 | 805 | 2,046 | 9,600 | 8,271 | - | 0 |  | 1 | NN | 1 | 7 | 19 | 39 | 143 |
| Connecticut | 413 | 177 | 1,558 | 1,578 | 1,630 | N | 0 | 0 | N | NN | - | 0 | 8 | 8 | 77 |
| Maine ${ }^{\dagger}$ | - | 54 | 100 | 578 | 603 | N | 0 | 0 | N | NN | - | 0 | 7 | 1 | 13 |
| Massachusetts | 559 | 403 | 875 | 5,277 | 4,556 | N | 0 | 0 | N | NN | 1 | 3 | 9 | 22 | 26 |
| New Hampshire | 26 | 54 | 113 | 689 | 435 | - | 0 | 1 | 1 | NN | - | 1 | 5 | 3 | 12 |
| Rhode Island ${ }^{\dagger}$ | 95 | 69 | 154 | 1,129 | 755 | - | 0 | 0 | - | NN | - | 0 | 2 | 1 | 5 |
| Vermont ${ }^{\dagger}$ | 27 | 23 | 84 | 349 | 292 | N | 0 | 0 | N | NN | - | 1 | 5 | 4 | 10 |
| Mid. Atlantic | 2,359 | 3,351 | 5,202 | 36,911 | 37,954 | - | 0 | 0 | - | NN | 6 | 15 | 38 | 119 | 117 |
| New Jersey | 381 | 517 | 697 | 5,924 | 5,824 | N | 0 | 0 | N | NN | - | 0 | 4 | - | 4 |
| New York (Upstate) | 713 | 706 | 2,028 | 7,846 | 6,654 | N | 0 | 0 | N | NN | 2 | 4 | 13 | 34 | 19 |
| New York City | 434 | 1,176 | 2,777 | 11,627 | 14,793 | N | 0 | 0 | N | NN | - | 2 | 6 | 15 | 10 |
| Pennsylvania | 831 | 951 | 1,189 | 11,514 | 10,683 | N | 0 | 0 | N | NN | 4 | 7 | 26 | 70 | 84 |
| E.N. Central | 1,003 | 3,778 | 6,184 | 39,118 | 45,477 | 1 | 0 | 3 | 10 | NN | 6 | 30 | 130 | 190 | 313 |
| Illinois | 23 | 972 | 1,117 | 7,723 | 12,557 | N | 0 | 0 | N | NN | - | 3 | 21 | 16 | 46 |
| Indiana | - | 414 | 2,832 | 6,281 | 3,157 | N | 0 | 0 | N | NN | - | 4 | 10 | 22 | 44 |
| Michigan | 625 | 939 | 1,388 | 11,045 | 12,523 | - | 0 | 2 | 4 | NN | 1 | 5 | 18 | 42 | 72 |
| Ohio | 183 | 995 | 1,134 | 9,750 | 11,948 | 1 | 0 | 3 | 6 | NN | 5 | 7 | 24 | 73 | 68 |
| Wisconsin | 172 | 426 | 518 | 4,319 | 5,292 | N | 0 | 0 | N | NN | - | 9 | 65 | 37 | 83 |
| W.N. Central | 163 | 1,357 | 1,600 | 13,417 | 16,901 | - | 0 | 0 | - | NN | 4 | 19 | 83 | 63 | 164 |
| lowa | 9 | 200 | 237 | 2,112 | 2,562 | N | 0 | 0 | $N$ | NN | - | 4 | 24 | 8 | 38 |
| Kansas | 12 | 183 | 286 | 1,996 | 2,238 | N | 0 | 0 | N | NN | - | 2 | 9 | 12 | 16 |
| Minnesota | - | 290 | 354 | 2,316 | 3,615 | - | 0 | 0 | - | NN | - | 0 | 16 | - | 50 |
| Missouri | - | 501 | 619 | 4,844 | 6,040 | - | 0 | 0 | - | NN | 3 | 4 | 30 | 18 | 28 |
| Nebraska ${ }^{\dagger}$ | 125 | 94 | 185 | 1,229 | 1,242 | N | 0 | 0 | N | NN | 1 | 3 | 26 | 22 | 16 |
| North Dakota | - | 40 | 88 | 188 | 457 | N | 0 | 0 | N | NN | - | 0 | 9 | - | 1 |
| South Dakota | 17 | 62 | 91 | 732 | 747 | N | 0 | 0 | N | NN | - | 1 | 6 | 3 | 15 |
| S. Atlantic | 3,396 | 4,820 | 5,978 | 57,984 | 58,032 | - | 0 | 0 | - | NN | 7 | 19 | 39 | 176 | 195 |
| Delaware | 88 | 84 | 220 | 1,008 | 999 | - | 0 | 0 | - | NN | - | 0 | 1 | 2 | 1 |
| District of Columbia | - | 99 | 158 | 983 | 1,191 | - | 0 | 0 | - | NN | - | 0 | 1 | 2 | 1 |
| Florida | 691 | 1,456 | 1,706 | 16,090 | 16,990 | N | 0 | 0 | N | NN | 2 | 7 | 19 | 55 | 75 |
| Georgia | 770 | 699 | 2,201 | 8,926 | 8,980 | N | 0 | 0 | N | NN | 1 | 5 | 11 | 47 | 64 |
| Maryland ${ }^{\dagger}$ | - | 494 | 1,106 | 3,662 | 4,862 | - | 0 | 0 | - | NN | 1 | 1 | 3 | 12 | 7 |
| North Carolina | 588 | 750 | 1,436 | 11,186 | 11,260 | N | 0 | 0 | $N$ | NN | 2 | 0 | 12 | 23 | 21 |
| South Carolina ${ }^{\dagger}$ | 522 | 530 | 847 | 6,164 | 6,013 | N | 0 | 0 | N | NN | - | 2 | 8 | 25 | 9 |
| Virginia ${ }^{\dagger}$ | 654 | 666 | 970 | 8,909 | 6,901 | N | 0 | 0 | N | NN | - | 2 | 9 | 9 | 13 |
| West Virginia | 83 | 75 | 124 | 1,056 | 836 | N | 0 | 0 | N | NN | 1 | 0 | 3 | 1 | 4 |
| E.S. Central | 641 | 1,757 | 2,412 | 17,697 | 19,793 | - | 0 | 0 | - | NN | 1 | 4 | 19 | 26 | 43 |
| Alabama ${ }^{\dagger}$ | - | 538 | 780 | 4,049 | 5,567 | N | 0 | 0 | $N$ | NN | - | 2 | 13 | 5 | 13 |
| Kentucky | 381 | 266 | 614 | 2,753 | 3,322 | N | 0 | 0 | $N$ | NN | - | 1 | 6 | 10 | 14 |
| Mississippi | - | 384 | 780 | 4,467 | 4,703 | N | 0 | 0 | N | NN | - | 0 | 2 | 4 | 4 |
| Tennessee ${ }^{\dagger}$ | 260 | 576 | 800 | 6,428 | 6,201 | N | 0 | 0 | N | NN | 1 | 1 | 5 | 7 | 12 |
| W.S. Central | 1,832 | 3,163 | 4,248 | 36,823 | 41,059 | - | 0 | 1 | 1 | NN | - | 7 | 31 | 25 | 57 |
| Arkansas ${ }^{\dagger}$ | 309 | 302 | 439 | 3,710 | 3,510 | N | 0 | 0 | N | NN | - | 0 | 3 | 3 | 9 |
| Louisiana | 458 | 387 | 792 | 4,869 | 6,403 | - | 0 | 1 | 1 | NN | - | 1 | 6 | 5 | 10 |
| Oklahoma | - | 240 | 1,373 | 1,902 | 2,740 | N | 0 | 0 | N | NN | - | 1 | 8 | - | 8 |
| Texas ${ }^{\dagger}$ | 1,065 | 2,294 | 3,112 | 26,342 | 28,406 | N | 0 | 0 | N | NN | - | 4 | 24 | 17 | 30 |
| Mountain | 409 | 1,501 | 2,147 | 15,020 | 18,660 | 40 | 0 | 422 | 1,975 | NN | 3 | 10 | 30 | 84 | 106 |
| Arizona | 148 | 493 | 704 | 2,477 | 5,843 | 40 | 0 | 417 | 1,941 | NN | - | 1 | 3 | 4 | 5 |
| Colorado | - | 337 | 684 | 4,908 | 4,673 | N | 0 | 0 | N | NN | 2 | 3 | 6 | 29 | 25 |
| Idaho ${ }^{+}$ | 85 | 66 | 199 | 697 | 888 | N | 0 | 0 | N | NN | 1 | 2 | 7 | 12 | 21 |
| Montana ${ }^{\dagger}$ | 59 | 61 | 81 | 698 | 680 | N | 0 | 0 | N | NN | - |  | 4 | 9 | 14 |
| Nevada ${ }^{\dagger}$ | - | 189 | 375 | 2,291 | 2,045 | - | 0 | 4 | 15 | NN | - | 0 | 7 | 2 | 2 |
| New Mexico ${ }^{\dagger}$ | 103 | 196 | 1,253 | 2,260 | 2,524 | - | 0 | 4 | 14 | NN | - | 2 | 12 | 18 | 20 |
| Utah | - | 122 | 158 | 1,292 | 1,505 | - | 0 | 2 | 2 | NN | - | 1 | 5 | 6 | 13 |
| Wyoming ${ }^{\dagger}$ | 14 | 38 | 90 | 397 | 502 | - | 0 | 2 | 3 | NN | - | 0 | 2 | 4 | 6 |
| Pacific | 3,134 | 3,662 | 5,423 | 43,726 | 43,382 | 96 | 0 | 103 | 832 | NN | 2 | 12 | 29 | 85 | 108 |
| Alaska | - | 118 | 156 | 1,252 | 1,408 | N | 0 | 0 | N | NN | - | 0 | 3 | 3 | 2 |
| California | 2,502 | 2,838 | 4,717 | 34,891 | 32,463 | 96 | 0 | 103 | 832 | NN | 1 | 7 | 18 | 53 | 65 |
| Hawaii | - | 107 | 158 | 915 | 1,458 | N | 0 | 0 | N | NN | - | 0 | 0 | - | 1 |
| Oregon | 302 | 212 | 496 | 2,880 | 3,121 | N | 0 | 0 | N | NN | 1 | 3 | 13 | 28 | 29 |
| Washington | 330 | 396 | 505 | 3,788 | 4,932 | N | 0 | 0 | N | NN | - | 1 | 7 | 1 | 11 |
| Territories |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| American Samoa | - | 0 | 0 | - | - | N | 0 | 0 | N | NN | N | 0 | 0 | N | NN |
| C.N.M.I. | - | - | - | - | - | - | - | - | - | NN | - | - | - | - | - |
| Guam | - | 10 | 44 | 153 | 5 | - | 0 | 0 | - | NN | - | 0 | 0 | - | - |
| Puerto Rico | 123 | 102 | 251 | 1,319 | 1,447 | N | 0 | 0 | N | NN | N | 0 | 0 | N | NN |
| U.S. Virgin Islands | - | 12 | 29 |  | 113 | - | 0 | 0 | - | NN | - | 0 | 0 |  | - |

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

U: Unavailable. -: No reported cases. N: Not reportable. NN: Not Nationally Notifiable. Cum: Cumulative year-to-date counts. Med: Median. Max: Maximum.

* Case counts for reporting year 2010 and 2011 are provisional and subject to change. For further information on interpretation of these data, see http://www.cdc.gov/osels/ph_surveillance/ nndss/phs/files/ProvisionalNationa\%20NotifiableDiseasesSurveillanceData20100927.pdf. Data for TB are displayed in Table IV, which appears quarterly.
${ }^{\dagger}$ Contains data reported through the National Electronic Disease Surveillance System (NEDSS).

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending March 26, 2011, and March 27, 2010 (12th week)*

| Reporting area | Dengue Virus Infection |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Dengue Fever ${ }^{\dagger}$ |  |  |  |  | Dengue Hemorrhagic Fever ${ }^{\S}$ |  |  |  |  |
|  | Current week | Previous 52 weeks |  | $\begin{gathered} \text { Cum } \\ 2011 \end{gathered}$ | $\begin{aligned} & \text { Cum } \\ & 2010 \\ & \hline \end{aligned}$ | Current week | Previous 52 weeks |  | $\begin{aligned} & \text { Cum } \\ & 2011 \end{aligned}$ | $\begin{aligned} & \text { Cum } \\ & 2010 \\ & \hline \end{aligned}$ |
|  |  | Med | Max |  |  |  | Med | Max |  |  |
| United States | - | 6 | 51 | 6 | 67 | - | 0 | 2 | - | 1 |
| New England | - | 0 | 3 | - | 3 | - | 0 | 0 | - | - |
| Connecticut | - | 0 | 0 | - | - | - | 0 | 0 | - | - |
| Maine ${ }^{\text {I }}$ | - | 0 | 2 | - | 3 | - | 0 | 0 | - | - |
| Massachusetts | - | 0 | 0 | - | - | - | 0 | 0 | - | - |
| New Hampshire | - | 0 | 0 | - | - | - | 0 | 0 | - | - |
| Rhode Island" | - | 0 | 1 | - | - | - | 0 | 0 | - | - |
| Vermont ${ }^{\text {I }}$ | - | 0 | 1 | - | - | - | 0 | 0 | - | - |
| Mid. Atlantic | - | 2 | 25 | 2 | 28 | - | 0 | 1 | - | 1 |
| New Jersey | - | 0 | 5 | - | 3 | - | 0 | 0 | - | - |
| New York (Upstate) | - | 0 | 5 | - | 3 | - | 0 | 1 | - | - |
| New York City | - | 1 | 17 | - | 17 | - | 0 | 1 | - | 1 |
| Pennsylvania | - | 0 | 3 | 2 | 5 | - | 0 | 0 | - | - |
| E.N. Central | - | 1 | 7 | 2 | 9 | - | 0 | 1 | - | - |
| Illinois | - | 0 | 3 | - | 2 | - | 0 | 0 | - | - |
| Indiana | - | 0 | 2 | 1 | 2 | - | 0 | 0 | - | - |
| Michigan | - | 0 | 2 | - | - | - | 0 | 0 | - | - |
| Ohio | - | 0 | 2 | - | 5 | - | 0 | 0 | - | - |
| Wisconsin | - | 0 | 2 | 1 | - | - | 0 | 1 | - | - |
| W.N. Central | - | 0 | 6 | - | 5 | - | 0 | 1 | - | - |
| lowa | - | 0 | 1 | - | - | - | 0 | 0 | - | - |
| Kansas | - | 0 | 1 | - | - | - | 0 | 0 | - | - |
| Minnesota | - | 0 | 2 | - | 4 | - | 0 | 0 | - | - |
| Missouri | - | 0 | 0 | - | - | - | 0 | 0 | - | - |
| Nebraska ${ }^{\text {a }}$ | - | 0 | 6 | - | - | - | 0 | 0 | - | - |
| North Dakota | - | 0 | 0 | - | 1 | - | 0 | 0 | - | - |
| South Dakota | - | 0 | 0 | - | - | - | 0 | 1 | - | - |
| S. Atlantic | - | 2 | 19 | - | 13 | - | 0 | 1 | - | - |
| Delaware | - | 0 | 0 | - | - | - | 0 | 0 | - | - |
| District of Columbia | - | 0 | 0 | - | - | - | 0 | 0 | - | - |
| Florida | - | 2 | 14 | - | 10 | - | 0 | 1 | - | - |
| Georgia | - | 0 | 2 | - | 1 | - | 0 | 0 | - | - |
| Maryland ${ }^{\text {a }}$ | - | 0 | 0 | - | - | - | 0 | 0 | - | - |
| North Carolina | - | 0 | 2 | - | - | - | 0 | 0 | - | - |
| South Carolina ${ }^{\text {a }}$ | - | 0 | 3 | - | - | - | 0 | 0 | - | - |
| Virginial | - | 0 | 3 | - | 2 | - | 0 | 0 | - | - |
| West Virginia | - | 0 | 1 | - | - | - | 0 | 0 | - | - |
| E.S. Central | - | 0 | 2 | - | - | - | 0 | 0 | - | - |
| Alabama ${ }^{\text {a }}$ | - | 0 | 2 | - | - | - | 0 | 0 | - | - |
| Kentucky | - | 0 | 1 | - | - | - | 0 | 0 | - | - |
| Mississippi | - | 0 | 0 | - | - | - | 0 | 0 | - | - |
| Tennessee ${ }^{\text {® }}$ | - | 0 | 1 | - | - | - | 0 | 0 | - | - |
| W.S. Central | - | 0 | 1 | - | - | - | 0 | 1 | - | - |
| Arkansas ${ }^{\text {a }}$ | - | 0 | 0 | - | - | - | 0 | 1 | - | - |
| Louisiana | - | 0 | 0 | - | - | - | 0 | 0 | - | - |
| Oklahoma | - | 0 | 1 | - | - | - | 0 | 0 | - | - |
| Texas ${ }^{\text {a }}$ | - | 0 | 1 | - | - | - | 0 | 0 | - | - |
| Mountain | - | 0 | 2 | - | 2 | - | 0 | 0 | - | - |
| Arizona | - | 0 | 2 | - | - | - | 0 | 0 | - | - |
| Colorado | - | 0 | 0 | - | - | - | 0 | 0 | - | - |
| Idaho ${ }^{\text {a }}$ | - | 0 | 1 | - | - | - | 0 | 0 | - | - |
| Montana ${ }^{\text {a }}$ | - | 0 | 1 | - | - | - | 0 | 0 | - | - |
| Nevadaf | - | 0 | 1 | - | 1 | - | 0 | 0 | - | - |
| New Mexicof | - | 0 | 0 | - | 1 | - | 0 | 0 | - | - |
| Utah | - | 0 | 0 | - | - | - | 0 | 0 | - | - |
| Wyoming ${ }^{\text {a }}$ | - | 0 | 0 | - | - | - | 0 | 0 | - | - |
| Pacific | - | 0 | 6 | 2 | 7 | - | 0 | 0 | - | - |
| Alaska | - | 0 | 0 | - | 1 | - | 0 | 0 | - | - |
| California | - | 0 | 5 | - | 3 | - | 0 | 0 | - | - |
| Hawaii | - | 0 | 0 | - | - | - | 0 | 0 | - | - |
| Oregon | - | 0 | 0 | - | - | - | 0 | 0 | - | - |
| Washington | - | 0 | 2 | 2 | 3 | - | 0 | 0 | - | - |
| Territories |  |  |  |  |  |  |  |  |  |  |
| American Samoa | - | 0 | 0 | - | - | - | 0 | 0 | - | - |
| C.N.M.I. | - | - | - | - | - | - | - | - | - | - |
| Guam | - | 0 | 0 | - | - | - | 0 | 0 | - | - |
| Puerto Rico | - | 104 | 528 | 169 | 1,116 | - | 2 | 18 | - | 24 |
| U.S. Virgin Islands | - | 0 | 0 | - | - | - | 0 | 0 | - | - |

[^9]TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending March 26, 2011, and March 27, 2010 (12th week)*

| Reporting area | Ehrlichiosis/Anaplasmosis ${ }^{\dagger}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Ehrlichia chaffeensis |  |  |  |  | Anaplasma phagocytophilum |  |  |  |  | Undetermined |  |  |  |  |
|  | Current week | Previous 52 weeks |  | $\begin{aligned} & \text { Cum } \\ & 2011 \end{aligned}$ | $\begin{aligned} & \text { Cum } \\ & 2010 \end{aligned}$ | Current week | Previous 52 weeks |  | $\begin{aligned} & \text { Cum } \\ & 2011 \\ & \hline \end{aligned}$ | $\begin{aligned} & \text { Cum } \\ & 2010 \\ & \hline \end{aligned}$ | Current week | Previous 52 weeks |  | $\begin{aligned} & \text { Cum } \\ & 2011 \end{aligned}$ | $\begin{aligned} & \text { Cum } \\ & 2010 \end{aligned}$ |
|  |  | Med | Max |  |  |  | Med | Max |  |  |  | Med | Max |  |  |
| United States | 1 | 8 | 49 | 10 | 42 | - | 13 | 60 | 5 | 20 | - | 1 | 10 | 2 | 2 |
| New England | - | 0 | 2 | - | 1 | - | 1 | 9 | 1 | 6 | - | 0 | 1 | - | - |
| Connecticut | - | 0 | 0 | - | - | - | 0 | 6 | - | - | - | 0 | 0 | - | - |
| Maine ${ }^{\text {§ }}$ | - | 0 | 1 | - | 1 | - | 0 | 2 | 1 | 3 | - | 0 | 0 | - | - |
| Massachusetts | - | 0 | 0 | - | - | - | 0 | 0 | - | - | - | 0 | 0 | - | - |
| New Hampshire | - | 0 | 1 | - | - | - | 0 | 2 | - | - | - | 0 | 1 | - | - |
| Rhode Island ${ }^{\text {® }}$ | - | 0 | 1 | - | - | - | 0 | 6 | - | 3 | - | 0 | 0 | - | - |
| Vermont ${ }^{\S}$ | - | 0 | 0 | - | - | - | 0 | 0 | - | - | - | 0 | 0 | - | - |
| Mid. Atlantic | - | 0 | 10 | - | 6 | - | 4 | 15 | 2 | 1 | - | 0 | 1 | 1 | 1 |
| New Jersey | - | 0 | 0 | - | - | - | 0 | 1 | - | - | - | 0 | 0 | - | - |
| New York (Upstate) | - | 0 | 10 | - | 2 | - | 4 | 15 | 2 | 1 | - | 0 | 1 | 1 | 1 |
| New York City | - | 0 | 3 | - | 3 | - | 0 | 2 | - | - | - | 0 | 0 | - | - |
| Pennsylvania | - | 0 | 0 | - | 1 | - | 0 | 0 | - | - | - | 0 | 0 | - | - |
| E.N. Central | - | 0 | 4 | 1 | 4 | - | 4 | 41 | - | 9 | - | 1 | 7 | 1 | 1 |
| Illinois | - | 0 | 2 | - | - | - | 0 | 2 | - | - | - | 0 | 2 | - | - |
| Indiana | - | 0 | 0 | - | - | - | 0 | 0 | - | - | - | 0 | 3 | 1 | 1 |
| Michigan | - | 0 | 1 | - | - | - | 0 | 0 | - | - | - | 0 | 1 | - | - |
| Ohio | - | 0 | 3 | 1 | - | - | 0 | 1 | - | - | - | 0 | 0 | - | - |
| Wisconsin | - | 0 | 1 | - | 4 | - | 4 | 41 | - | 9 | - | 0 | 4 | - | - |
| W.N. Central | - | 1 | 13 | 2 | 1 | - | 0 | 3 | - | - | - | 0 | 3 | - | - |
| lowa | - | 0 | 0 | - | - | - | 0 | 0 | - | - | - | 0 | 0 | - | - |
| Kansas | - | 0 | 1 | - | - | - | 0 | 0 | - | - | - | 0 | 0 | - | - |
| Minnesota | - | 0 | 0 | - | - | - | 0 | 0 | - | - | - | 0 | 0 | - | - |
| Missouri | - | 1 | 13 | 2 | 1 | - | 0 | 3 | - | - | - | 0 | 3 | - | - |
| Nebraska§ | - | 0 | 1 | - | - | - | 0 | 0 | - | - | - | 0 | 0 | - | - |
| North Dakota | - | 0 | 0 | - | - | - | 0 | 0 | - | - | - | 0 | 0 | - | - |
| South Dakota | - | 0 | 0 | - | - | - | 0 | 0 | - | - | - | 0 | 0 | - | - |
| S. Atlantic | 1 | 3 | 17 | 7 | 27 | - | 1 | 7 | 1 | 4 | - | 0 | 1 | - | - |
| Delaware | - | 0 | 3 | 1 | 1 | - | 0 | 1 | - | - | - | 0 | 0 | - | - |
| District of Columbia | - | 0 | 0 | - | - | - | 0 | 0 | - | - | - | 0 | 0 | - | - |
| Florida | 1 | 0 | 2 | 2 | 1 | - | 0 | 1 | - | - | - | 0 | 0 | - | - |
| Georgia | - | 0 | 4 | 1 | 2 | - | 0 | 1 | - | - | - | 0 | 1 | - | - |
| Maryland ${ }^{\S}$ | - | 0 | 3 | 2 | 4 | - | 0 | 2 | - | 2 | - | 0 | 1 | - | - |
| North Carolina | - | 1 | 13 | 1 | 19 | - | 0 | 4 | 1 | 2 | - | 0 | 0 | - | - |
| South Carolina ${ }^{\text {§ }}$ | - | 0 | 2 | - | - | - | 0 | 1 | - | - | - | 0 | 0 | - | - |
| Virginias ${ }^{\S}$ | - | 1 | 8 | - | - | - | 0 | 2 | - | - | - | 0 | 1 | - | - |
| West Virginia | - | 0 | 1 | - | - | - | 0 | 0 | - | - | - | 0 | 0 | - | - |
| E.S. Central | - | 1 | 11 | - | - | - | 0 | 2 | 1 | - | - | 0 | 1 | - | - |
| Alabama ${ }^{5}$ | - | 0 | 3 | - | - | - | 0 | 2 | 1 | - | - | 0 | 0 | - | - |
| Kentucky | - | 0 | 2 | - | - | - | 0 | 0 | - | - | - | 0 | 0 | - | - |
| Mississippi | - | 0 | 1 | - | - | - | 0 | 1 | - | - | - | 0 | 0 | - | - |
| Tennessee ${ }^{\S}$ | - | 0 | 7 | - | - | - | 0 | 2 | - | - | - | 0 | 1 | - | - |
| W.S. Central | - | 0 | 11 | - | 2 | - | 0 | 4 | - | - | - | 0 | 1 | - | - |
| Arkansas ${ }^{\text {® }}$ | - | 0 | 5 | - | - | - | 0 | 2 | - | - | - | 0 | 0 | - | - |
| Louisiana | - | 0 | 0 | - | 1 | - | 0 | 0 | - | - | - | 0 | 0 | - | - |
| Oklahoma | - | 0 | 6 | - | - | - | 0 | 2 | - | - | - | 0 | 0 | - | - |
| Texas ${ }^{\S}$ | - | 0 | 1 | - | 1 | - | 0 | 1 | - | - | - | 0 | 1 | - | - |
| Mountain | - | 0 | 0 | - | - | - | 0 | 0 | - | - | - | 0 | 0 | - | - |
| Arizona | - | 0 | 0 | - | - | - | 0 | 0 | - | - | - | 0 | 0 | - | - |
| Colorado | - | 0 | 0 | - | - | - | 0 | 0 | - | - | - | 0 | 0 | - | - |
| Idahos ${ }^{\text {s }}$ | - | 0 | 0 | - | - | - | 0 | 0 | - | - | - | 0 | 0 | - | - |
| Montana ${ }^{\text {§ }}$ | - | 0 | 0 | - | - | - | 0 | 0 | - | - | - | 0 | 0 | - | - |
| Nevada§ | - | 0 | 0 | - | - | - | 0 | 0 | - | - | - | 0 | 0 | - | - |
| New Mexico§ | - | 0 | 0 | - | - | - | 0 | 0 | - | - | - | 0 | 0 | - | - |
| Utah | - | 0 | 0 | - | - | - | 0 | 0 | - | - | - | 0 | 0 | - | - |
| Wyoming ${ }^{\S}$ | - | 0 | 0 | - | - | - | 0 | 0 | - | - | - | 0 | 0 | - | - |
| Pacific | - | 0 | 1 | - | 1 | - | 0 | 0 | - | - | - | 0 | 1 | - | - |
| Alaska | - | 0 | 0 | - | - | - | 0 | 0 | - | - | - | 0 | 0 | - | - |
| California | - | 0 | 1 | - | 1 | - | 0 | 0 | - | - | - | 0 | 1 | - | - |
| Hawaii | - | 0 | 0 | - | - | - | 0 | 0 | - | - | - | 0 | 0 | - | - |
| Oregon | - | 0 | 0 | - | - | - | 0 | 0 | - | - | - | 0 | 0 | - | - |
| Washington | - | 0 | 0 | - | - | - | 0 | 0 | - | - | - | 0 | 0 | - | - |
| Territories |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| American Samoa | - | 0 | 0 | - | - | - | 0 | 0 | - | - | - | 0 | 0 | - | - |
| C.N.M.I. | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Guam | - | 0 | 0 | - | - | - | 0 | 0 | - | - | - | 0 | 0 | - | - |
| Puerto Rico | - | 0 | 0 | - | - | - | 0 | 0 | - | - | - | 0 | 0 | - | - |
| U.S. Virgin Islands | - | 0 | 0 | - | - | - | 0 | 0 | - | - | - | 0 | 0 | - | - |

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

U: Unavailable. -: No reported cases. N: Not reportable. NN: Not Nationally Notifiable. Cum: Cumulative year-to-date counts. Med: Median. Max: Maximum.
 nndss/phs/files/ProvisionalNationa\%20NotifiableDiseasesSurveillanceData20100927.pdf. Data for TB are displayed in Table IV, which appears quarterly.
${ }^{\dagger}$ Cumulative total E. ewingii cases reported for year $2010=11$, and 1 case report for 2011.
§ Contains data reported through the National Electronic Disease Surveillance System (NEDSS)

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending March 26, 2011, and March 27, 2010 (12th week)*

| Reporting area | Giardiasis |  |  |  |  | Gonorrhea |  |  |  |  | Haemophilus influenzae, invasive ${ }^{\dagger}$ All ages, all serotypes |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Current week | Previous 52 weeks |  | $\begin{aligned} & \text { Cum } \\ & 2011 \end{aligned}$ | $\begin{aligned} & \text { Cum } \\ & 2010 \end{aligned}$ | Current week | Previous 52 weeks |  | $\begin{aligned} & \text { Cum } \\ & 2011 \end{aligned}$ | $\begin{aligned} & \text { Cum } \\ & 2010 \end{aligned}$ | Current week | Previous 52 weeks |  | $\begin{aligned} & \text { Cum } \\ & 2011 \end{aligned}$ | $\begin{aligned} & \text { Cum } \\ & 2010 \end{aligned}$ |
|  |  | Med | Max |  |  |  | Med | Max |  |  |  | Med | Max |  |  |
| United States | 163 | 327 | 496 | 2,679 | 3,842 | 2,893 | 5,758 | 6,588 | 60,937 | 66,042 | 32 | 58 | 121 | 703 | 780 |
| New England | 8 | 28 | 55 | 209 | 339 | 116 | 102 | 206 | 1,125 | 1,139 | - | 3 | 9 | 38 | 34 |
| Connecticut | - | 4 | 12 | - | 79 | 56 | 39 | 169 | 456 | 512 | - | 0 | 6 | - | - |
| Maine ${ }^{\text {§ }}$ | 3 | 3 | 11 | 23 | 39 | - | 3 | 7 | 32 | 56 | - | 0 | 2 | 5 | 1 |
| Massachusetts | 3 | 14 | 25 | 136 | 135 | 49 | 48 | 80 | 524 | 465 | - | 2 | 6 | 25 | 24 |
| New Hampshire | - | 2 | 10 | 12 | 36 | 1 | 3 | 7 | 23 | 33 | - | 0 | 1 | 4 | 4 |
| Rhode Island ${ }^{\text {® }}$ | - | 1 | 7 | 7 | 15 | 10 | 5 | 15 | 84 | 63 | - | 0 | 2 | 3 | 4 |
| Vermont ${ }^{\text {® }}$ | 2 | 4 | 10 | 31 | 35 | - | 0 | 17 | 6 | 10 | - | 0 | 3 | 1 | 1 |
| Mid. Atlantic | 29 | 60 | 106 | 525 | 637 | 483 | 713 | 1,170 | 8,003 | 7,606 | 10 | 11 | 26 | 139 | 170 |
| New Jersey | - | 3 | 18 | - | 86 | 116 | 117 | 173 | 1,539 | 1,248 | - | 2 | 5 | 22 | 23 |
| New York (Upstate) | 23 | 21 | 58 | 198 | 226 | 106 | 110 | 260 | 1,163 | 1,005 | 4 | 3 | 15 | 32 | 45 |
| New York City | 5 | 17 | 33 | 179 | 165 | 85 | 233 | 540 | 2,454 | 2,815 | 2 | 2 | 6 | 29 | 33 |
| Pennsylvania | 1 | 16 | 27 | 148 | 160 | 176 | 262 | 366 | 2,847 | 2,538 | 4 | 4 | 11 | 56 | 69 |
| E.N.Central | 24 | 53 | 91 | 406 | 703 | 287 | 1,036 | 1,924 | 10,485 | 12,001 | 7 | 10 | 20 | 116 | 131 |
| Illinois | - | 11 | 32 | 50 | 161 | 4 | 252 | 328 | 1,932 | 2,885 | - | 3 | 7 | 27 | 35 |
| Indiana | - | 5 | 11 | 41 | 94 | - | 107 | 960 | 1,819 | 928 | - | 1 | 7 | 11 | 24 |
| Michigan | 3 | 12 | 25 | 95 | 151 | 181 | 248 | 486 | 2,869 | 3,379 | 1 | 1 | 3 | 19 | 9 |
| Ohio | 19 | 17 | 29 | 166 | 191 | 51 | 321 | 383 | 3,016 | 3,771 | 6 | 2 | 6 | 44 | 27 |
| Wisconsin | 2 | 8 | 34 | 54 | 106 | 51 | 93 | 156 | 849 | 1,038 | - | 2 | 5 | 15 | 36 |
| W.N. Central | 12 | 24 | 101 | 220 | 260 | 47 | 288 | 367 | 2,762 | 3,188 | 1 | 3 | 14 | 26 | 41 |
| lowa | 1 | 5 | 11 | 46 | 58 | 2 | 35 | 57 | 374 | 391 | - | 0 | 1 | - | 1 |
| Kansas | 2 | 3 | 10 | 33 | 56 | 4 | 40 | 62 | 352 | 416 | - | 0 | 2 | 2 | 4 |
| Minnesota | - | 0 | 75 | - | - | - | 38 | 62 | 304 | 539 | - | 0 | 9 | - | 12 |
| Missouri | 7 | 8 | 26 | 87 | 70 | - | 141 | 181 | 1,328 | 1,477 | 1 | 2 | 4 | 14 | 18 |
| Nebraska§ | 2 | 4 | 9 | 42 | 53 | 40 | 22 | 50 | 270 | 248 | - | 0 | 3 | 10 | 3 |
| North Dakota |  | 0 | 5 | - | 3 |  | 2 | 9 | 17 | 34 | - | 0 | 2 | . | 3 |
| South Dakota | - | 1 | 7 | 12 | 20 | 1 | 8 | 20 | 117 | 83 | - | 0 | 0 | - | - |
| S. Atlantic | 50 | 71 | 114 | 541 | 790 | 894 | 1,373 | 1,808 | 15,440 | 16,964 | 8 | 15 | 26 | 176 | 181 |
| Delaware | - | 0 | 5 | 6 | 9 | 23 | 19 | 48 | 238 | 228 | - | 0 | 1 | 1 | 2 |
| District of Columbia | - | 0 | 5 | 5 | 11 |  | 34 | 66 | 351 | 462 | - | 0 | 1 | - | - |
| Florida | 20 | 40 | 75 | 273 | 400 | 188 | 383 | 486 | 4,083 | 4,525 | 3 | 4 | 9 | 63 | 43 |
| Georgia | 22 | 10 | 26 | 134 | 172 | 211 | 230 | 668 | 2,617 | 2,852 | 2 | 3 | 7 | 38 | 48 |
| Maryland ${ }^{\text {§ }}$ | 5 | 5 | 11 | 52 | 70 | - | 137 | 243 | 957 | 1,337 | 1 | 1 | 5 | 15 | 9 |
| North Carolina | N | 0 | 0 | N | N | 209 | 248 | 596 | 3,860 | 3,710 | 1 | 2 | 9 | 20 | 28 |
| South Carolina ${ }^{\text {§ }}$ | - | 3 | 9 | 19 | 23 | 156 | 151 | 261 | 1,773 | 1,821 | 1 | 1 | 5 | 14 | 27 |
| Virginia§ | 2 | 8 | 32 | 49 | 96 | 88 | 134 | 223 | 1,346 | 1,922 | - | 2 | 6 | 25 | 19 |
| West Virginia | 1 | 0 | 6 | 3 | 9 | 19 | 13 | 26 | 215 | 107 | - | 0 | 9 | - | 5 |
|  | - | 4 | 12 | 25 | 64 | 205 | 471 | 697 | 4,735 | 5,311 | 1 | 3 | 10 | 42 | 44 |
| Alabama ${ }^{\text {§ }}$ | - | 4 | 11 | 23 | 33 | - | 159 | 236 | 1,262 | 1,596 | 1 | 1 | 4 | 15 | 5 |
| Kentucky | N | 0 | 0 | N | N | 131 | 72 | 160 | 744 | 893 | - | 1 | 3 | 10 | 8 |
| Mississippi | N | 0 | 0 | N | N | - | 110 | 216 | 1,171 | 1,314 | - | 0 | 2 | 2 | 4 |
| Tennessee ${ }^{\text {§ }}$ | - | 0 | 4 | 2 | 31 | 74 | 144 | 195 | 1,558 | 1,508 | - | 1 | 5 | 15 | 27 |
| W.S. Central | 1 | 6 | 14 | 37 | 77 | 489 | 866 | 1,209 | 9,477 | 10,882 | 2 | 2 | 21 | 40 | 41 |
| Arkansas ${ }^{\text {§ }}$ | 1 | 2 | 7 | 18 | 18 | 118 | 93 | 137 | 1,148 | 997 | 1 | 0 | 3 | 9 | 6 |
| Louisiana | - | 3 | 8 | 19 | 34 | 128 | 100 | 284 | 1,334 | 1,801 | - | 0 | 4 | 16 | 10 |
| Oklahoma | - | 0 | 5 | - | 25 | - | 76 | 332 | 605 | 805 | 1 | 1 | 17 | 15 | 22 |
| Texas§ | N | 0 | 0 | N | N | 243 | 597 | 866 | 6,390 | 7,279 | - | 0 | 1 | - | 3 |
| Mountain | 4 | 30 | 52 | 222 | 380 | 34 | 188 | 245 | 1,785 | 2,068 | 2 | 5 | 11 | 83 | 103 |
| Arizona | 1 | 3 | 8 | 24 | 35 | 26 | 59 | 81 | 437 | 700 | 1 | 2 | 7 | 38 | 45 |
| Colorado | 3 | 12 | 27 | 104 | 159 | - | 50 | 93 | 470 | 639 | 1 | 1 | 5 | 20 | 23 |
| Idaho ${ }^{\text {§ }}$ |  | 4 | 9 | 31 | 51 | 4 | 2 | 14 | 24 | 28 | - | 0 | 2 | 3 | 3 |
| Montana§ | - | 1 | 7 | 6 | 30 | 1 | 2 | 5 | 20 | 32 | - | 0 | 1 | 2 | - |
| Nevada ${ }^{\text {§ }}$ | - | 1 | 11 | 16 | 15 | - | 34 | 103 | 488 | 348 | - | 0 | 1 | 4 | 4 |
| New Mexico§ | - | 2 | 6 | 6 | 15 | 3 | 25 | 100 | 287 | 247 | - | 1 | 3 | 11 | 11 |
| Utah | - | 4 | 11 | 26 | 58 | - | 5 | 15 | 46 | 66 | - | 0 | 3 | 5 | 12 |
| Wyoming ${ }^{\S}$ | - | 0 | 5 | 9 | 17 | - | 1 | 4 | 13 | 8 | - | 0 | 1 | - | 5 |
| Pacific | 35 | 52 | 132 | 494 | 592 | 338 | 630 | 809 | 7,125 | 6,883 | 1 | 3 | 20 | 43 | 35 |
| Alaska | - | 2 | 6 | 11 | 22 | - | 22 | 36 | 190 | 334 | - | 0 | 2 | 7 | 9 |
| California | 30 | 32 | 57 | 348 | 379 | 279 | 522 | 684 | 6,084 | 5,544 | 1 | 0 | 16 | 9 | - |
| Hawaii | - | 1 | 4 | 3 | 15 | - | 13 | 26 | 116 | 179 | - | 0 | 2 | 5 | 6 |
| Oregon | 5 | 8 | 20 | 90 | 117 | 11 | 19 | 30 | 250 | 257 | - | 1 | 4 | 22 | 18 |
| Washington | - | 8 | 71 | 42 | 59 | 48 | 53 | 86 | 485 | 569 | - | 0 | 2 | - | 2 |
| Territories |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| American Samoa | - | 0 | 0 | - | - | - | 0 | 0 | - | - | - | 0 | 0 | - | - |
| C.N.M.I. | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Guam | - | 0 | 1 | - | - | - | 0 | 5 | 6 | - | - | 0 | 0 | - | - |
| Puerto Rico | 2 | 1 | 8 | 8 | 17 | 11 | 6 | 14 | 89 | 56 | - | 0 | 0 | - | 1 |
| U.S. Virgin Islands | - | 0 | 0 | - | - | - | 2 | 7 | - | 22 | - | 0 | 0 | - | - |

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

U: Unavailable. -: No reported cases. N: Not reportable. NN: Not Nationally Notifiable. Cum: Cumulative year-to-date counts. Med: Median. Max: Maximum.

* Case counts for reporting year 2010 and 2011 are provisional and subject to change. For further information on interpretation of these data, see http://www.cdc.gov/osels/ph_surveillance/ nndss/phs/files/ProvisionalNationa\%20NotifiableDiseasesSurveillanceData20100927.pdf. Data for TB are displayed in Table IV, which appears quarterly.
Data for H. influenzae (age <5 yrs for serotype b, nonserotype b, and unknown serotype) are available in Table .
${ }^{\$}$ Contains data reported through the National Electronic Disease Surveillance System (NEDSS).

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending March 26, 2011, and March 27, 2010 (12th week)*

| Reporting area | Hepatitis (viral, acute), by type |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | A |  |  |  |  | B |  |  |  |  | C |  |  |  |  |
|  | Current week | Previous 52 weeks |  | $\begin{aligned} & \text { Cum } \\ & 2011 \end{aligned}$ | $\begin{aligned} & \text { Cum } \\ & 2010 \end{aligned}$ | Current week | Previous 52 weeks |  | $\begin{aligned} & \text { Cum } \\ & 2011 \end{aligned}$ | $\begin{aligned} & \text { Cum } \\ & 2010 \end{aligned}$ | Current week | Previous 52 weeks |  | $\begin{aligned} & \text { Cum } \\ & 2011 \end{aligned}$ | $\begin{aligned} & \text { Cum } \\ & 2010 \end{aligned}$ |
|  |  | Med | Max |  |  |  | Med | Max |  |  |  | Med | Max |  |  |
| United States | 14 | 29 | 44 | 252 | 369 | 20 | 61 | 142 | 451 | 679 | 7 | 15 | 27 | 153 | 161 |
| New England | - | 1 | 6 | 12 | 32 | - | 1 | 4 | 6 | 17 | - | 0 | 4 | 3 | 17 |
| Connecticut | - | 0 | 4 | 5 | 7 | - | 0 | 2 | 1 | 5 | - | 0 | 4 | 1 | 9 |
| Maine ${ }^{\text {+ }}$ | - | 0 | 1 | 1 | 1 | - | 0 | 1 | 1 | 4 | - | 0 | 1 | 1 |  |
| Massachusetts | - | 0 | 5 | 3 | 20 | - | 0 | 2 | 3 | 5 | - | 0 | 1 | - | 8 |
| New Hampshire | - | 0 | 1 | - | - | - | 0 | 2 | 1 | 2 | N | 0 | 0 | N | N |
| Rhode Island ${ }^{\dagger}$ | - | 0 | 1 | 1 | 4 | U | 0 | 0 | U | U | U | 0 | 0 | U | U |
| Vermont ${ }^{\dagger}$ | - | 0 | 1 | 2 | - | - | 0 | 1 | - | 1 | - | 0 | 1 | 1 | - |
| Mid. Atlantic | 1 | 4 | 10 | 37 | 52 | 5 | 5 | 10 | 55 | 64 | 1 | 1 | 5 | 13 | 16 |
| New Jersey | - | 0 | 1 | - | 6 | - | 1 | 5 | 6 | 15 | - | 0 | 2 | - | 4 |
| New York (Upstate) | 1 | 1 | 4 | 9 | 12 | 1 | 1 | 8 | 11 | 10 | 1 | 1 | 4 | 9 | 8 |
| New York City | - | 1 | 7 | 15 | 21 | 1 | 1 | 4 | 18 | 24 | - | 0 | 1 | - | - |
| Pennsylvania | - | 1 | 3 | 13 | 13 | 3 | 2 | 5 | 20 | 15 | - | 0 | 3 | 4 | 4 |
| E.N. Central | 2 | 4 | 9 | 39 | 62 | - | 9 | 22 | 67 | 130 | - | 1 | 6 | 29 | 19 |
| Illinois | - | 1 | 3 | 4 | 15 | - | 2 | 7 | 12 | 24 | - | 0 | 1 | - | - |
| Indiana | - | 0 | 3 | 7 | 6 | - | 1 | 6 | 5 | 20 | - | 0 | 4 | 13 | 7 |
| Michigan | 1 | 1 | 5 | 13 | 14 | - | 2 | 5 | 23 | 30 | - | 1 | 4 | 16 | 10 |
| Ohio | 1 | 1 | 5 | 14 | 10 | - | 1 | 16 | 22 | 26 | - | 0 | 1 | - | 1 |
| Wisconsin | - | 0 | 1 | 1 | 17 | - | 1 | 5 | 5 | 30 | - | 0 | 2 | - | 1 |
| W.N. Central | - | 1 | 13 | 10 | 12 | - | 2 | 8 | 24 | 36 | - | 0 | 8 | 2 | 1 |
| lowa | - | 0 | 3 | 1 | 4 | - | 0 | 1 | 1 | 6 | - | 0 | 0 | - | - |
| Kansas | - | 0 | 2 | 2 | 4 | - | 0 | 1 | 3 | 2 | - | 0 | 1 | - | - |
| Minnesota | - | 0 | 12 | - | - | - | 0 | 7 | - | 2 | - | 0 | 6 | - | 1 |
| Missouri | - | 0 | 2 | 3 | 3 | - | 1 | 3 | 15 | 18 | - | 0 | 2 | - | - |
| Nebraska ${ }^{\dagger}$ | - | 0 | 4 | 2 | 1 | - | 0 | 3 | 4 | 8 | - | 0 | 1 | 2 | - |
| North Dakota | - | 0 | 3 | - | - | - | 0 | 0 | - | - | - | 0 | 0 | - | - |
| South Dakota | - | 0 | 2 | 2 | - | - | 0 | 1 | 1 | - | - | 0 | 0 | - | - |
| S. Atlantic | 3 | 6 | 14 | 50 | 73 | 8 | 17 | 33 | 137 | 179 | 1 | 3 | 6 | 34 | 32 |
| Delaware | - | 0 | 1 | 1 | 3 | - | 0 | 2 | - | 8 | U | 0 | 0 | U | U |
| District of Columbia | - | 0 | 0 | - | 1 | - | 0 | 1 | - | 1 | - | 0 | 1 | - | 1 |
| Florida | 1 | 3 | 7 | 20 | 26 | 4 | 5 | 11 | 46 | 63 | 1 | 0 | 3 | 11 | - |
| Georgia | - | 1 | 4 | 13 | 7 | 1 | 3 | 8 | 28 | 46 | , | 0 | 2 | 4 | 4 |
| Maryland ${ }^{\dagger}$ | 1 | 0 | 3 | 5 | 5 | 1 | 1 | 5 | 12 | 17 | - | 0 | 3 | 5 | 6 |
| North Carolina | - | 0 | 5 | 3 | 10 | 2 | 2 | 16 | 25 | 14 | - | 1 | 3 | 10 | 13 |
| South Carolina ${ }^{\dagger}$ | - | 0 | 3 | 2 | 14 | - | 1 | 4 | 5 | 9 | - | 0 | 1 | - |  |
| Virginia ${ }^{\dagger}$ | 1 | 1 | 6 | 6 | 6 | - | 2 | 7 | 21 | 14 | - | 0 | 2 | 4 | 4 |
| West Virginia | - | 0 | 5 | - | 1 | - | 0 | 18 | - | 7 | - | 0 | 5 | - | 4 |
|  | - | 0 | 6 | 5 | 11 | 4 | 8 | 13 | 86 | 78 | 2 | 3 | 8 | 33 | 26 |
| Alabama ${ }^{\dagger}$ | - | 0 | 2 | - | 3 | - | 1 | 4 | 14 | 19 | - | 0 | 1 | 1 | 1 |
| Kentucky | - | 0 | 6 | 2 | 5 | - | 3 | 8 | 28 | 26 | - | 2 | 6 | 15 | 22 |
| Mississippi | - | 0 | 1 | - | - | - | 1 | 3 | 4 | 5 | U | 0 | 0 | U | U |
| Tennessee ${ }^{\dagger}$ | - | 0 | 2 | 3 | 3 | 4 | 3 | 8 | 40 | 28 | 2 | 1 | 5 | 17 | 3 |
| W.S. Central | - | 2 | 13 | 16 | 30 | 3 | 10 | 55 | 46 | 64 | 3 | 2 | 7 | 21 | 13 |
| Arkansas ${ }^{\dagger}$ | - | 0 | 1 | - | - | - | 1 | 4 | 5 | 8 | - | 0 | 0 | - | - |
| Louisiana | - | 0 | 2 | 1 | 3 | - | 1 | 3 | 10 | 15 | - | 0 | 2 | 4 | 1 |
| Oklahoma | - | 0 | 4 | - | - | - | 2 | 8 | 12 | 8 | 2 | 1 | 6 | 10 | 3 |
| Texas ${ }^{\dagger}$ | - | 2 | 9 | 15 | 27 | 3 | 5 | 43 | 19 | 33 | 1 | 0 | 3 | 7 | 9 |
| Mountain | - | 2 | 8 | 18 | 38 | - | 2 | 7 | 13 | 32 | - | 1 | 4 | 9 | 17 |
| Arizona | - | 1 | 4 | 7 | 19 | - | 0 | 2 | 2 | 9 | U | 0 | 0 | U | U |
| Colorado | - | 1 | 2 | 6 | 9 | - | 0 | 5 | 1 | 9 | - | 0 | 3 | 1 | 4 |
| Idaho ${ }^{+}$ | - | 0 | 2 | 1 | 2 | - | 0 | 1 | 2 | 1 | - | 0 | 2 | 5 | 3 |
| Montana ${ }^{\dagger}$ |  | 0 | 1 | 2 | 1 | - | 0 | 0 | - | - | - | 0 | 1 | 1 | - |
| Nevada ${ }^{\dagger}$ | - | 0 | 2 | - | 3 | - | 0 | 3 | 7 | 8 | - | 0 | 1 | - | 1 |
| New Mexico ${ }^{\dagger}$ | - | 0 | 1 | 1 | 1 | - | 0 | 1 | - | 2 | - | 0 | 1 | 2 | 6 |
| Utah + | - | 0 | 2 | - | 3 | - | 0 | 1 | 1 | 3 |  | 0 | 2 | - | 3 |
| Wyoming ${ }^{\dagger}$ | - | 0 | 3 | 1 | - | - | 0 | 1 | - | - | - | 0 | 0 | - | - |
| Pacific | 8 | 5 | 16 | 65 | 59 | - | 5 | 23 | 17 | 79 | - | 1 | 8 | 9 | 20 |
| Alaska | - | 0 | 1 | - | - | - | 0 | 1 | 1 | 1 | U | 0 | 0 | U | U |
| California | 8 | 4 | 16 | 58 | 46 | - | 3 | 18 | 4 | 59 | - | 0 | 3 | 3 | 9 |
| Hawaii | - | 0 | 1 | 1 | 4 | - | 0 | 1 | 1 | 1 | U | 0 | 0 | U | U |
| Oregon | - | 0 | 2 | 2 | 5 | - | 1 | 3 | 9 | 12 | - | 0 | 3 | 4 | 7 |
| Washington | - | 0 | 2 | 4 | 4 | - | 1 | 5 | 2 | 6 | - | 0 | 5 | 2 | 4 |
| Territories |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| American Samoa | - | 0 | 0 | - | - | - | 0 | 0 | - | - | - | 0 | 0 | - | - |
| C.N.M.I. | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Guam | - | 0 | 6 | 6 | 1 | - | 1 | 8 | 22 | 10 | - | 0 | 7 | 9 | 6 |
| Puerto Rico | 1 | 0 | 2 | 2 | 3 | - | 0 | 2 | 1 | 6 | - | 0 | 0 | - | - |
| U.S. Virgin Islands | - | 0 | 0 | - | - | - | 0 | 0 | - | - | - | 0 | 0 | - | - |

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

U: Unavailable. -: No reported cases. N: Not reportable. NN: Not Nationally Notifiable. Cum: Cumulative year-to-date counts. Med: Median. Max: Maximum.

* Case counts for reporting year 2010 and 2011 are provisional and subject to change. For further information on interpretation of these data, see http://www.cdc.gov/osels/ph_surveillance/ nndss/phs/files/ProvisionalNationa\%20NotifiableDiseasesSurveillanceData20100927.pdf. Data for TB are displayed in Table IV, which appears quarterly.
${ }^{\dagger}$ Contains data reported through the National Electronic Disease Surveillance System (NEDSS).

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending March 26, 2011, and March 27, 2010 (12th week)*

| Reporting area | Legionellosis |  |  |  |  | Lyme disease |  |  |  |  | Malaria |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Current week | Previous 52 weeks |  | $\begin{aligned} & \text { Cum } \\ & 2011 \end{aligned}$ | $\begin{aligned} & \text { Cum } \\ & 2010 \end{aligned}$ | Current week | Previous 52 weeks |  | $\begin{aligned} & \text { Cum } \\ & 2011 \end{aligned}$ | $\begin{aligned} & \text { Cum } \\ & 2010 \end{aligned}$ | Current week | Previous 52 weeks |  | $\begin{array}{r} \text { Cum } \\ 2011 \\ \hline \end{array}$ | $\begin{aligned} & \text { Cum } \\ & 2010 \\ & \hline \end{aligned}$ |
|  |  | Med | Max |  |  |  | Med | Max |  |  |  | Med | Max |  |  |
| United States | 23 | 57 | 122 | 368 | 487 | 79 | 412 | 1,680 | 1,264 | 2,939 | 11 | 27 | 81 | 202 | 260 |
| New England | - | 4 | 16 | 20 | 22 | - | 128 | 504 | 138 | 922 | - | 1 | 11 | 8 | 13 |
| Connecticut | - | 0 | 6 | - | 3 | - | 47 | 213 | - | 392 | - | 0 | 11 | - | - |
| Maine ${ }^{\dagger}$ | - | 0 | 3 | 2 | - | - | 11 | 62 | 38 | 44 | - | 0 | 1 | - | - |
| Massachusetts | - | 2 | 10 | 14 | 13 | - | 40 | 223 | 52 | 307 | - | 1 | 4 | 6 | 12 |
| New Hampshire | - | 0 | 5 | 2 | 1 | - | 24 | 69 | 30 | 151 | - | 0 | 2 | - | 1 |
| Rhode Island ${ }^{\dagger}$ | - | 0 | 4 | 1 | 4 | - | 1 | 40 | 4 | 13 | - | 0 | 4 | - | - |
| Vermont ${ }^{\dagger}$ | - | 0 | 2 | 1 | 1 | - | 4 | 28 | 14 | 15 | - | 0 | 1 | 2 | - |
| Mid. Atlantic | 4 | 14 | 48 | 86 | 105 | 32 | 180 | 737 | 751 | 1,365 | 1 | 7 | 18 | 52 | 65 |
| New Jersey | - | 1 | 11 | 1 | 16 | - | 47 | 220 | 142 | 399 | - | 0 | 1 | - | - |
| New York (Upstate) | 4 | 5 | 19 | 36 | 28 | 24 | 36 | 159 | 118 | 153 | 1 | 1 | 6 | 9 | 16 |
| New York City | - | 2 | 17 | 20 | 27 | - | 2 | 10 | 2 | 41 | - | 4 | 14 | 34 | 35 |
| Pennsylvania | - | 6 | 19 | 29 | 34 | 8 | 92 | 386 | 489 | 772 | - | 1 | 3 | 9 | 14 |
| E.N. Central | 4 | 12 | 44 | 71 | 124 | - | 26 | 330 | 13 | 125 | - | 3 | 9 | 16 | 22 |
| Illinois | - | 2 | 15 | 6 | 15 | - | 1 | 18 | 2 | 7 | - | 1 | 7 | 2 | 8 |
| Indiana | - | 1 | 6 | 7 | 25 | - | 0 | 7 | 1 | 11 | - | 0 | 2 | 2 | 2 |
| Michigan | - | 3 | 20 | 16 | 15 | - | 1 | 14 | 2 | 1 | - | 0 | 4 | 3 | 3 |
| Ohio | 4 | 4 | 15 | 42 | 43 | - | 0 | 9 | 3 | 5 | - | 1 | 5 | 8 | 9 |
| Wisconsin | - | 1 | 5 | - | 26 | - | 23 | 302 | 5 | 101 | - | 0 | 2 | 1 | - |
| W.N.Central | - | 2 | 9 | 5 | 16 | - | 1 | 11 | - | 3 | - | 1 | 4 | 2 | 15 |
| lowa | - | 0 | 2 | 1 | 1 | - | 0 | 10 | - | 2 | - | 0 | 2 | - | 3 |
| Kansas | - | 0 | 2 | - | 2 | - | 0 | 1 | - | 1 | - | 0 | 2 | 1 | 3 |
| Minnesota | - | 0 | 8 | - | 3 | - | 0 | 0 | - | - | - | 0 | 0 | - | 3 |
| Missouri | - | 0 | 4 | 3 | 5 | - | 0 | 1 | - | - | - | 0 | 3 | - | 2 |
| Nebraska ${ }^{\dagger}$ | - | 0 | 2 | - | 2 | - | 0 | 2 | - | - | - | 0 | 1 | 1 | 4 |
| North Dakota | - | 0 | 1 | - | 1 | - | 0 | 5 | - | - | - | 0 | 1 | - | - |
| South Dakota | - | 0 | 2 | 1 | 2 | - | 0 | 1 | - | - | - | 0 | 2 | - | - |
| S. Atlantic | 6 | 10 | 27 | 61 | 77 | 46 | 57 | 177 | 320 | 464 | 4 | 7 | 44 | 68 | 85 |
| Delaware | - | 0 | 3 | - | 3 | 3 | 10 | 33 | 74 | 124 | - | 0 | 1 | - | 1 |
| District of Columbia | - | 0 | 4 | - | 1 | - | 0 | 4 | 3 | 1 | - | 0 | 2 | 1 | 1 |
| Florida | 2 | 3 | 9 | 34 | 31 | 2 | 2 | 10 | 21 | 12 | 2 | 2 | 7 | 21 | 30 |
| Georgia | - | 1 | 4 | 1 | 11 | - | 0 | 2 | 1 | 2 | 1 | 1 | 7 | 11 | 14 |
| Maryland ${ }^{\dagger}$ | 2 | 2 | 6 | 10 | 17 | 34 | 22 | 106 | 128 | 203 | 1 | 1 | 24 | 11 | 11 |
| North Carolina | 2 | 1 | 7 | 9 | 4 | - | 0 | 9 | 6 | 34 | - | 0 | 13 | 8 | 17 |
| South Carolina ${ }^{\dagger}$ | - | 0 | 2 | 1 | 1 | 7 | 0 | 3 | 1 | 8 | - | 0 | 1 | - | 1 |
| Virginia ${ }^{\dagger}$ | - | 1 | 9 | 6 | 8 | 7 | 18 | 82 | 86 | 69 | - | 1 | 5 | 16 | 10 |
| West Virginia | - | 0 | 3 | - | 1 | - | 0 | 29 | - | 11 | - | 0 | 1 | - | - |
| E.S. Central | 1 | 2 | 10 | 12 | 22 | 1 | 0 | 4 | 4 | 10 | 1 | 0 | 3 | 4 | 4 |
| Alabama ${ }^{\dagger}$ | - | 0 | 2 | 1 | 3 | - | 0 | 1 | 2 | - | - | 0 | 1 | 1 | 1 |
| Kentucky | - | 0 | 4 | 4 | 6 | - | 0 | 1 | - | 1 | 1 | 0 | 1 | 2 | 2 |
| Mississippi | - | 0 | 3 | 1 | 2 | - | 0 | 0 | - | - | - | 0 | 2 | - | - |
| Tennessee ${ }^{\dagger}$ | 1 | 1 | 6 | 6 | 11 | 1 | 0 | 4 | 2 | 9 | - | 0 | 2 | 1 | 1 |
| W.S. Central | - | 3 | 8 | 17 | 14 | - | 2 | 22 | 3 | 11 | - | 1 | 17 | 10 | 19 |
| Arkansas ${ }^{\text { }}$ | - | 0 | 2 | - | 1 | - | 0 | 0 | - | - | - | 0 | 1 | - | 1 |
| Louisiana | - | 0 | 3 | 6 | 1 | - | 0 | 1 | - | - | - | 0 | 1 | - | 1 |
| Oklahoma | - | 0 | 3 | 1 | - | - | 0 | 0 | - | - | - | 0 | 1 | 1 | 2 |
| Texas ${ }^{\dagger}$ | - | 2 | 7 | 10 | 12 | - | 2 | 22 | 3 | 11 | - | 1 | 16 | 9 | 15 |
| Mountain | - | 3 | 10 | 13 | 35 | - | 0 | 3 | 2 | 2 | - | 1 | 4 | 10 | 12 |
| Arizona | - | 1 | 7 | 6 | 9 | - | 0 | 1 | 1 | - | - | 0 | 3 | 3 | 4 |
| Colorado | - | 0 | 2 | 1 | 11 | - | 0 | 1 | - | - | - | 0 | 3 | 3 | 3 |
| Idaho ${ }^{+}$ | - | 0 | 1 | 1 | - | - | 0 | 2 | - | 1 | - | 0 | 1 | - | - |
| Montana ${ }^{\dagger}$ | - | 0 | 1 | - | 1 | - | 0 | 1 | - | - | - | 0 | 1 | - | - |
| Nevada ${ }^{+}$ | - | 0 | 2 | 1 | 6 | - | 0 | 1 | - | - | - | 0 | 2 | 2 | 2 |
| New Mexico ${ }^{\dagger}$ | - | 0 | 2 | - | 1 | - | 0 | 2 | 1 | - | - | 0 | 1 | 2 | - |
| Utah | - | 0 | 2 | 4 | 7 | - | 0 | 1 | - | 1 | - | 0 | 0 | - | 3 |
| Wyoming ${ }^{\dagger}$ | - | 0 | 2 | - | - | - | 0 | 0 | - | - | - | 0 | 0 | - |  |
| Pacific | 8 | 5 | 15 | 83 | 72 | - | 4 | 11 | 33 | 37 | 5 | 4 | 10 | 32 | 25 |
| Alaska | - | 0 | 2 | - | - | - | 0 | 1 | - | 1 | - | 0 | 2 | 2 | 1 |
| California | 8 | 4 | 14 | 76 | 66 | - | 3 | 8 | 26 | 20 | 5 | 2 | 9 | 24 | 17 |
| Hawaii | - | 0 | 1 | 1 | - | N | 0 | 0 | N | N | - | 0 | 1 | - | - |
| Oregon | - | 0 | 3 | 1 | - | - | 0 | 3 | 7 | 16 | - | 0 | 3 | 3 | 2 |
| Washington | - | 0 | 5 | 5 | 6 | - | 0 | 3 | - | - | - | 0 | 5 | 3 | 5 |
| Territories |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| American Samoa | - | 0 | 0 | - | - | N | 0 | 0 | N | N | - | 0 | 0 | - | - |
| C.N.M.I. | - | - | - | - | - | N | - | - | N | N | - | - | - | - | - |
| Guam | - | 0 | 1 | - | - | - | 0 | 0 | - | - | - | 0 | 0 | - | - |
| Puerto Rico | - | 0 | 0 | - | - | N | 0 | 0 | N | N | - | 0 | 1 | - | 3 |
| U.S. Virgin Islands | - | 0 | 0 | - | - | - | 0 | 0 | - | - | - | 0 | 0 | - | - |

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

U: Unavailable. -: No reported cases. N: Not reportable. NN: Not Nationally Notifiable. Cum: Cumulative year-to-date counts. Med: Median. Max: Maximum

* Case counts for reporting year 2010 and 2011 are provisional and subject to change. For further information on interpretation of these data, see http://www.cdc.gov/osels/ph_surveillance/
nndss/phs/files/ProvisionalNationa\%20NotifiableDiseasesSurveillanceData20100927.pdf. Data for TB are displayed in Table IV, which appears quarterly.
+ Contains data reported through the National Electronic Disease Surveillance System (NEDSS).

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending March 26, 2011, and March 27, 2010 (12th week)*

| Reporting area | Meningococcal disease, invasive ${ }^{\dagger}$ All serogroups |  |  |  |  | Mumps |  |  |  |  | Pertussis |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Current week | Previous 52 weeks |  | $\begin{aligned} & \text { Cum } \\ & 2011 \end{aligned}$ | $\begin{aligned} & \text { Cum } \\ & 2010 \\ & \hline \end{aligned}$ | Current week | Previous 52 weeks |  | $\begin{aligned} & \text { Cum } \\ & 2011 \end{aligned}$ | $\begin{aligned} & \text { Cum } \\ & 2010 \end{aligned}$ | Current week | Previous 52 weeks |  | $\begin{aligned} & \text { Cum } \\ & 2011 \end{aligned}$ | $\begin{aligned} & \text { Cum } \\ & 2010 \end{aligned}$ |
|  |  | Med | Max |  |  |  | Med | Max |  |  |  | Med | Max |  |  |
| United States | 8 | 14 | 37 | 183 | 225 | 3 | 15 | 220 | 82 | 964 | 181 | 541 | 2,151 | 3,062 | 2,617 |
| New England | 1 | 0 | 3 | 9 | 2 | - | 0 | 2 | 1 | 15 | 2 | 10 | 24 | 80 | 60 |
| Connecticut | - | 0 | 1 | 1 | - | - | 0 | 1 | - | 10 | - | 1 | 8 | - | 8 |
| Maine ${ }^{\text {§ }}$ | 1 | 0 | 1 | 2 | - | - | 0 | 1 | - | 1 | 1 | 1 | 8 | 28 | 4 |
| Massachusetts | - | 0 | 2 | 6 | 1 | - | 0 | 2 | 1 | 4 | 1 | 5 | 13 | 39 | 40 |
| New Hampshire | - | 0 | 0 | - | - | - | 0 | 1 | - | - | - | 0 | 3 | 9 | 3 |
| Rhode Island ${ }^{\text {§ }}$ | - | 0 | 1 | - | - | - | 0 | 0 | - | - | - | 0 | 7 | 3 | 3 |
| Vermont ${ }^{\text {§ }}$ | - | 0 | 1 | - | 1 | - | 0 | 0 | - | - | - | 0 | 4 | 1 | 2 |
| Mid. Atlantic | - | 1 | 5 | 21 | 23 | - | 6 | 209 | 9 | 871 | 12 | 38 | 122 | 330 | 141 |
| New Jersey | - | 0 | 1 | - | 8 | - | 1 | 15 | 4 | 191 | - | 2 | 9 | 11 | 28 |
| New York (Upstate) | - | 0 | 4 | 7 | 2 | - | 0 | 44 | 1 | 556 | 9 | 12 | 85 | 104 | 47 |
| New York City | - | 0 | 3 | 8 | 6 | - | 0 | 201 | 4 | 115 | - | 0 | 12 | 7 | - |
| Pennsylvania | - | 0 | 2 | 6 | 7 | - | 0 | 16 | - | 9 | 3 | 20 | 70 | 208 | 66 |
| E.N. Central | 1 | 2 | 9 | 20 | 35 | 1 | 1 | 7 | 16 | 29 | 24 | 114 | 194 | 767 | 646 |
| Illinois | - | 0 | 3 | 6 | 7 | - | 0 | 2 | 7 | 6 | - | 22 | 52 | 121 | 90 |
| Indiana | - | 0 | 2 | 2 | 9 | - | 0 | 1 | - | 2 | - | 12 | 26 | 49 | 61 |
| Michigan | - | 0 | 4 | 2 | 2 | - | 0 | 1 | 2 | 11 | 15 | 31 | 57 | 254 | 182 |
| Ohio | 1 | 1 | 2 | 8 | 9 | 1 | 0 | 5 | 7 | 4 | 9 | 34 | 80 | 270 | 238 |
| Wisconsin | - | 0 | 3 | 2 | 8 | - | 0 | 2 | - | 6 | - | 12 | 24 | 73 | 75 |
| W.N. Central | - | 1 | 5 | 12 | 14 | 1 | 1 | 14 | 9 | 13 | 4 | 35 | 416 | 187 | 184 |
| lowa | - | 0 | 1 | 3 | 4 | - | 0 | 7 | - | 3 | - | 12 | 34 | 38 | 34 |
| Kansas | - | 0 | 2 | 1 | 1 | - | 0 | 1 | 2 | 1 | - | 2 | 10 | 19 | 33 |
| Minnesota | - | 0 | 1 | - | 1 | - | 0 | 4 | - | 2 | - | 0 | 408 | - | - |
| Missouri | - | 0 | 4 | 4 | 6 | - | 0 | 3 | 5 | 5 | 3 | 8 | 44 | 89 | 92 |
| Nebraska§ | - | 0 | 2 | 3 | 2 | - | 0 | 10 | 1 | 2 | 1 | 4 | 13 | 26 | 11 |
| North Dakota | - | 0 | 1 | - | - | 1 | 0 | 1 | 1 | - | - | 0 | 30 | 13 | - |
| South Dakota | - | 0 | 1 | 1 | - | - | 0 | 1 | - | - | - | 0 | 2 | 2 | 14 |
| S. Atlantic | 2 | 2 | 7 | 29 | 50 | - | 0 | 5 | 2 | 15 | 11 | 40 | 106 | 355 | 326 |
| Delaware | - | 0 | 1 | - | 1 | - | 0 | 0 | - | - | - | 0 | 4 | 5 | - |
| District of Columbia | - | 0 | 0 | - | - | - | 0 | 1 | - | 1 | - | 0 | 2 |  | 1 |
| Florida | 1 | 1 | 5 | 9 | 22 | - | 0 | 3 | - | 1 | 7 | 6 | 28 | 78 | 43 |
| Georgia | - | 0 | 2 | 1 | 3 | - | 0 | 2 | 1 | - | 1 | 5 | 13 | 58 | 48 |
| Maryland ${ }^{\text {§ }}$ | - | 0 | 1 | 2 | 2 | - | 0 | 1 | - | 5 | - | 2 | 6 | 25 | 40 |
| North Carolina | - | 0 | 3 | 7 | 8 | - | 0 | 2 | - | 1 | - | 3 | 35 | 72 | 124 |
| South Carolina ${ }^{\text {§ }}$ | 1 | 0 | 1 | 4 | 4 | - | 0 | 2 | - | , | 1 | 6 | 25 | 40 | 43 |
| Virginia§ | - | 0 | 2 | 6 | 9 | - | 0 | 2 | 1 | 4 | 2 | 7 | 39 | 76 | 22 |
| West Virginia | - | 0 | 1 | - | 1 | - | 0 | 0 | - | 2 | - | 1 | 43 | - | 5 |
| E.S. Central | 1 | 1 | 3 | 10 | 9 | - | 0 | 2 | 3 | 3 | - | 14 | 35 | 92 | 193 |
| Alabama ${ }^{\text {§ }}$ | 1 | 0 | 1 | 6 | 1 | - | 0 | 2 | 1 | 1 | - | 4 | 8 | 27 | 55 |
| Kentucky | - | 0 | 2 | - | 3 | - | 0 | 1 | - | - | - | 4 | 16 | 37 | 66 |
| Mississippi | - | 0 | 1 | 1 | 2 | - | 0 | 1 | 2 | - | - | 1 | 8 | 2 | 16 |
| Tennessee§ | - | 0 | 2 | 3 | 3 | - | 0 | 1 | - | 2 | - | 4 | 11 | 26 | 56 |
| W.S.Central | - | 1 | 10 | 17 | 30 | 1 | 2 | 16 | 34 | 11 | 18 | 54 | 234 | 181 | 604 |
| Arkansas ${ }^{\text {® }}$ | - | 0 | 1 | 4 | 2 | - | 0 | 1 | - | 1 | - | 3 | 17 | 10 | 34 |
| Louisiana | - | 0 | 2 | 3 | 6 | - | 0 | 2 | - | - | - | 1 | 3 | 3 | 9 |
| Oklahoma | - | 0 | 1 | 2 | 12 | - | 0 | 1 | - | - | 6 | 0 | 63 | 8 | 3 |
| Texas ${ }^{\text {§ }}$ | - | 1 | 9 | 8 | 10 | 1 | 2 | 15 | 34 | 10 | 12 | 45 | 157 | 160 | 558 |
| Mountain | 1 | 1 | 6 | 12 | 14 | - | 0 | 4 | 1 | 3 | 30 | 40 | 99 | 516 | 239 |
| Arizona | - | 0 | 2 | 5 | 5 | - | 0 | 1 | - | 1 | - | 11 | 29 | 160 | 86 |
| Colorado | 1 | 0 | 4 | 1 | 3 | - | 0 | 1 | - | 2 | 29 | 11 | 67 | 226 | 23 |
| Idaho ${ }^{\text {§ }}$ | - | 0 | 1 | 3 | 1 | - | 0 | 1 | - | - | 1 | 3 | 15 | 25 | 40 |
| Montana§ | - | 0 | 1 | - | 1 | - | 0 | 0 | - | - | - | 2 | 16 | 41 | 5 |
| Nevada§ | - | 0 | 1 | - | 1 | - | 0 | 1 | - | - | - | 0 | 7 | 7 | 1 |
| New Mexico ${ }^{\text {§ }}$ | - | 0 | 1 | - | 2 | - | 0 | 2 | 1 | - | - | 2 | 11 | 12 | 26 |
| Utah | - | 0 | 1 | 3 | 1 | - | 0 | 1 | - | - | - | 6 | 13 | 43 | 57 |
| Wyoming ${ }^{\S}$ | - | 0 | 1 | - | - | - | 0 | 1 | - | - | - | 0 | 2 | 2 | 1 |
| Pacific | 2 | 3 | 15 | 53 | 48 | - | 0 | 18 | 7 | 4 | 80 | 148 | 1,101 | 554 | 224 |
| Alaska | - | 0 | 1 | - | - | - | 0 | 1 | 1 | 1 | - | 0 | 6 | 13 | 4 |
| California | 1 | 2 | 10 | 37 | 34 | - | 0 | 18 | - | - | 80 | 130 | 959 | 430 | 123 |
| Hawaii | - | 0 | 1 | 2 | 1 | - | 0 | 2 | 3 | 1 | - | 1 | 6 | 7 | 17 |
| Oregon | 1 | 1 | 3 | 11 | 9 | - | 0 | 1 | 3 | 1 | - | 6 | 12 | 39 | 53 |
| Washington | - | 0 | 4 | 3 | 4 | - | 0 | 2 | - | 1 | - | 8 | 132 | 65 | 27 |
| Territories |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| American Samoa | - | 0 | 0 | - | - | - | 0 | 0 | - | - | - | 0 | 0 | - | - |
| C.N.M.I. | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Guam | - | 0 | 0 | - | - | - | 1 | 15 | 12 | 7 | - | 0 | 14 | 28 | - |
| Puerto Rico | - | 0 | 0 | - | - | - | 0 | 1 | - | - | - | 0 | 1 | 1 | - |
| U.S. Virgin Islands | - | 0 | 0 | - | - | - | 0 | 0 | - | - | - | 0 | 0 | - | - |

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

U: Unavailable. -: No reported cases. N: Not reportable. NN: Not Nationally Notifiable. Cum: Cumulative year-to-date counts. Med: Median. Max: Maximum.

* Case counts for reporting year 2010 and 2011 are provisional and subject to change. For further information on interpretation of these data, see http://www.cdc.gov/osels/ph_surveillance/ nndss/phs/files/ProvisionalNationa\%20NotifiableDiseasesSurveillanceData20100927.pdf. Data for TB are displayed in Table IV, which appears quarterly.
Data for meningococcal disease, invasive caused by serogroups A, C, Y, and W-135; serogroup B; other serogroup; and unknown serogroup are available in Table I.
${ }^{\S}$ Contains data reported through the National Electronic Disease Surveillance System (NEDSS).

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending March 26, 2011, and March 27, 2010 (12th week)*

| Reporting area | Rabies, animal |  |  |  |  | Salmonellosis |  |  |  |  | Shiga toxin-producing E. coli (STEC) ${ }^{\dagger}$ |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Current week | Previous 52 weeks |  | $\begin{aligned} & \text { Cum } \\ & 2011 \end{aligned}$ | $\begin{aligned} & \text { Cum } \\ & 2010 \end{aligned}$ | Current week | Previous 52 weeks |  | $\begin{aligned} & \text { Cum } \\ & 2011 \end{aligned}$ | $\begin{aligned} & \text { Cum } \\ & 2010 \end{aligned}$ | Current week | Previous 52 weeks |  | $\begin{aligned} & \text { Cum } \\ & 2011 \\ & \hline \end{aligned}$ | $\begin{aligned} & \text { Cum } \\ & 2010 \\ & \hline \end{aligned}$ |
|  |  | Med | Max |  |  |  | Med | Max |  |  |  | Med | Max |  |  |
| United States | 23 | 61 | 143 | 317 | 659 | 246 | 934 | 1,768 | 4,943 | 6,667 | 32 | 92 | 215 | 543 | 529 |
| New England | 3 | 3 | 11 | 18 | 55 | 7 | 33 | 81 | 252 | 752 | - | 2 | 13 | 16 | 78 |
| Connecticut | - | 0 | 7 | - | 21 | - | 0 | 59 | 59 | 490 | - | 0 | 7 | 7 | 60 |
| Maine ${ }^{\text {§ }}$ | 2 | 1 | 3 | 7 | 16 | 2 | 3 | 8 | 24 | 16 | - | 0 | 3 | 1 | 1 |
| Massachusetts | - | 0 | 0 | - | - | 3 | 23 | 52 | 131 | 191 | - | 1 | 9 | 3 | 11 |
| New Hampshire | 1 | 0 | 6 | 2 | 4 | 1 | 3 | 12 | 20 | 27 | - | 0 | 2 | 5 | 6 |
| Rhode Island ${ }^{\text {§ }}$ | - | 0 | 4 | 2 | 2 | 1 | 2 | 18 | 10 | 19 | - | 0 | 1 | - | - |
| Vermont ${ }^{\text {§ }}$ | - | 1 | 3 | 7 | 12 | - | 2 | 5 | 8 | 9 | - | 0 | 2 | - | - |
| Mid. Atlantic | 4 | 18 | 41 | 50 | 225 | 31 | 95 | 218 | 513 | 765 | 1 | 10 | 32 | 62 | 50 |
| New Jersey | - | 0 | 0 | - | - | - | 15 | 57 | 52 | 153 | - | 2 | 9 | 11 | 10 |
| New York (Upstate) | 4 | 8 | 19 | 50 | 96 | 15 | 25 | 63 | 130 | 151 | 1 | 4 | 12 | 19 | 16 |
| New York City | - | 0 | 9 | - | 74 | - | 23 | 56 | 145 | 193 | - | 1 | 7 | 7 | 7 |
| Pennsylvania | - | 8 | 24 | - | 55 | 16 | 31 | 81 | 186 | 268 | - | 3 | 13 | 25 | 17 |
| E.N. Central | - | 2 | 27 | 10 | 6 | 27 | 91 | 253 | 514 | 769 | 1 | 13 | 44 | 75 | 80 |
| Illinois | - | 1 | 11 | 4 | 1 | - | 33 | 124 | 145 | 266 | - | 2 | 9 | 7 | 16 |
| Indiana | - | 0 | 0 | - | - | - | 13 | 62 | 42 | 90 | - | 2 | 10 | 13 | 8 |
| Michigan | - | 1 | 5 | 3 | 3 | 6 | 16 | 49 | 98 | 148 | - | 3 | 16 | 19 | 20 |
| Ohio | - | 0 | 12 | 3 | 2 | 20 | 24 | 47 | 173 | 185 | 1 | 3 | 11 | 25 | 10 |
| Wisconsin | - | 0 | 0 | - | - | 1 | 10 | 48 | 56 | 80 | - | 4 | 17 | 11 | 26 |
| W.N. Central | 1 | 4 | 36 | 8 | 36 | 15 | 45 | 97 | 269 | 357 | 2 | 11 | 39 | 40 | 57 |
| lowa | - | 0 | 3 | - | 1 | 1 | 10 | 34 | 67 | 42 | - | 2 | 16 | 9 | 10 |
| Kansas | 1 | 1 | 4 | 4 | 16 | - | 7 | 18 | 40 | 58 | - | 1 | 5 | 6 | 6 |
| Minnesota | - | 0 | 34 | - | 8 | - | 0 | 32 | - | 89 | - | 0 | 7 | - | 16 |
| Missouri | - | 1 | 6 | - | 2 | 13 | 13 | 44 | 119 | 106 | 2 | 4 | 27 | 15 | 17 |
| Nebraska§ | - | 1 | 4 | 4 | 9 | 1 | 4 | 13 | 25 | 33 | - | 1 | 6 | 9 | 6 |
| North Dakota | - | 0 | 3 | - | - | - | 0 | 13 | - | 4 | - | 0 | 10 | - | - |
| South Dakota | - | 0 | 0 | - | - | - | 2 | 17 | 18 | 25 | - | 0 | 4 | 1 | 2 |
| S. Atlantic | 12 | 20 | 38 | 183 | 262 | 74 | 263 | 610 | 1,463 | 1,765 | 16 | 15 | 34 | 169 | 84 |
| Delaware | - | 0 | 0 | - | - | - | 3 | 11 | 18 | 13 | - | 0 | 2 | 2 | - |
| District of Columbia | - | 0 | 0 | - | - | - | 1 | 6 | 4 | 13 | - | 0 | 1 | 1 | 2 |
| Florida | - | 0 | 14 | 25 | 96 | 47 | 108 | 226 | 589 | 796 | 12 | 6 | 23 | 82 | 33 |
| Georgia | - | 0 | 0 | - | - | 8 | 41 | 144 | 273 | 213 | 1 | 2 | 7 | 16 | 12 |
| Maryland ${ }^{\text {§ }}$ | - | 6 | 15 | 41 | 83 | 9 | 18 | 57 | 113 | 144 | 1 | 2 | 9 | 21 | 9 |
| North Carolina | - | 0 | 0 | - | - | 1 | 29 | 240 | 229 | 349 | - | 2 | 10 | 22 | 8 |
| South Carolina ${ }^{\text {§ }}$ | - | 0 | 0 | - | - | 1 | 25 | 99 | 100 | 98 | 1 | 0 | 3 | 4 | 2 |
| Virginia§ | 12 | 12 | 25 | 117 | 70 | 6 | 21 | 68 | 131 | 102 | 1 | 3 | 9 | 21 | 18 |
| West Virginia | - | 1 | 7 | - | 13 | 2 | 1 | 13 | 6 | 37 | - | 0 | 3 | - | - |
| E.S. Central | 1 | 3 | 7 | 26 | 27 | 14 | 55 | 177 | 332 | 330 | 5 | 5 | 22 | 34 | 31 |
| Alabama ${ }^{\text {¢ }}$ | - | 1 | 4 | 15 | 5 | 3 | 20 | 52 | 105 | 117 | - | 1 | 4 | 4 | 9 |
| Kentucky | 1 | 0 | 4 | 3 | - | 4 | 11 | 32 | 57 | 60 | 1 | 1 | 6 | 7 | 3 |
| Mississippi | - | 0 | 1 | - | - | 3 | 18 | 67 | 67 | 52 | - | 0 | 12 | 3 | 4 |
| Tennessee ${ }^{\text {§ }}$ | - | 1 | 4 | 8 | 22 | 4 | 17 | 53 | 103 | 101 | 4 | 2 | 7 | 20 | 15 |
| W.S. Central | 1 | 0 | 30 | 6 | 8 | 10 | 132 | 396 | 426 | 566 | 2 | 7 | 84 | 36 | 26 |
| Arkansas ${ }^{\text {8 }}$ | 1 | 0 | 7 | 3 | 6 | 7 | 12 | 43 | 71 | 42 | - | 0 | 5 | 4 | 5 |
| Louisiana | - | 0 | 0 | - | - | - | 20 | 49 | 63 | 147 | - | 0 | 2 | 1 | 4 |
| Oklahoma | - | 0 | 30 | 3 | 2 | 3 | 12 | 39 | 54 | 48 | 1 | 0 | 24 | 5 | 1 |
| Texas ${ }^{\S}$ | - | 0 | 0 | - | - | - | 84 | 345 | 238 | 329 | 1 | 5 | 60 | 26 | 16 |
| Mountain | 1 | 1 | 7 | 3 | 11 | 14 | 51 | 113 | 359 | 469 | 1 | 11 | 34 | 39 | 66 |
| Arizona | - | 0 | 0 | - | - | 2 | 16 | 43 | 116 | 159 | 1 | 1 | 13 | 15 | 13 |
| Colorado | - | 0 | 0 | - | - | 9 | 10 | 24 | 106 | 115 | - | 3 | 21 | 5 | 19 |
| Idaho ${ }^{\text {§ }}$ | - | 0 | 2 | - | 1 | 1 | 3 | 9 | 37 | 25 | - | 2 | 7 | 6 | 7 |
| Montana§ | - | 0 | 3 | 2 | - | 2 | 1 | 6 | 10 | 24 | - | 1 | 5 | 2 | 9 |
| Nevada§ | - | 0 | 2 | - | - | - | 5 | 22 | 21 | 29 | - | 0 | 5 | 2 | 1 |
| New Mexico§ | 1 | 0 | 2 | 1 | 3 | - | 6 | 19 | 30 | 52 | - | 0 | 6 | 3 | 8 |
| Utah | - | 0 | 2 | - | - | - | 5 | 17 | 29 | 50 | - | 1 | 7 | 6 | 8 |
| Wyoming ${ }^{\text {§ }}$ | - | 0 | 4 | - | 7 | - | 1 | 8 | 10 | 15 | - | 0 | 3 | - | 1 |
| Pacific | - | 2 | 13 | 13 | 29 | 54 | 117 | 291 | 815 | 894 | 4 | 12 | 52 | 72 | 57 |
| Alaska | - | 0 | 2 | 9 | 8 | - | 1 | 4 | 11 | 18 | - | 0 | 1 | - | 1 |
| California | - | 0 | 12 | - | 17 | 51 | 79 | 217 | 641 | 671 | 3 | 6 | 32 | 57 | 32 |
| Hawaii | - | 0 | 0 | - | - | 2 | 6 | 14 | 65 | 59 | 1 | 0 | 3 | 1 | 11 |
| Oregon | - | 0 | 2 | 4 | 4 | 1 | 8 | 48 | 54 | 82 | - | 2 | 11 | 6 | 5 |
| Washington | - | 0 | 0 | - | - | - | 14 | 71 | 44 | 64 | - | 2 | 18 | 8 | 8 |
| Territories |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| American Samoa | N | 0 | 0 | N | N | - | 0 | 1 | - | 1 | - | 0 | 0 | - | - |
| C.N.M.I. | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Guam | - | 0 | 0 | - | - | - | 0 | 3 | 4 | - | - | 0 | 0 | - | - |
| Puerto Rico | - | 1 | 3 | 6 | 14 | 2 | 7 | 21 | 15 | 132 | - | 0 | 0 | - | - |
| U.S. Virgin Islands | - | 0 | 0 | - | - | - | 0 | 0 | - | - | - | 0 | 0 | - | - |

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

U: Unavailable. -: No reported cases. N: Not reportable. NN: Not Nationally Notifiable. Cum: Cumulative year-to-date counts. Med: Median. Max: Maximum.

* Case counts for reporting year 2010 and 2011 are provisional and subject to change. For further information on interpretation of these data, see http://www.cdc.gov/osels/ph_surveillance/ nndss/phs/files/ProvisionalNationa\%20NotifiableDiseasesSurveillanceData20100927.pdf. Data for TB are displayed in Table IV, which appears quarterly.
${ }^{\dagger}$ Includes E. coli O157:H7; Shiga toxin-positive, serogroup non-O157; and Shiga toxin-positive, not serogrouped.
${ }^{\S}$ Contains data reported through the National Electronic Disease Surveillance System (NEDSS).

| Reporting area | Shigellosis |  |  |  |  | Spotted Fever Rickettsiosis (including RMSF) ${ }^{\dagger}$ |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  | Confirmed |  |  |  |  | Probable |  |  |  |  |
|  | Current week | Previous 52 weeks |  | $\begin{aligned} & \text { Cum } \\ & 2011 \end{aligned}$ | $\begin{aligned} & \text { Cum } \\ & 2010 \end{aligned}$ | Current week | Previous 52 weeks |  | $\begin{aligned} & \text { Cum } \\ & 2011 \end{aligned}$ | $\begin{aligned} & \text { Cum } \\ & 2010 \\ & \hline \end{aligned}$ | Current week | Previous 52 weeks |  | $\begin{aligned} & \text { Cum } \\ & 2011 \end{aligned}$ | $\begin{aligned} & \text { Cum } \\ & 2010 \\ & \hline \end{aligned}$ |
|  |  | Med | Max |  |  |  | Med | Max |  |  |  | Med | Max |  |  |
| United States | 98 | 274 | 500 | 1,696 | 3,070 | - | 2 | 10 | 12 | 10 | 3 | 27 | 99 | 60 | 81 |
| New England | 1 | 4 | 17 | 44 | 121 | - | 0 | 0 | - | - | - | 0 | 1 | 1 | - |
| Connecticut | , | 0 | 5 | 5 | 69 | - | 0 | 0 | - | - | - | 0 | 0 | - | - |
| Maine ${ }^{\text {§ }}$ | 1 | 0 | 3 | 5 | 2 | - | 0 | 0 | - | - | - | 0 | 1 | - | - |
| Massachusetts | - | 3 | 16 | 33 | 44 | - | 0 | 0 | - | - | - | 0 | 0 | - | - |
| New Hampshire | - | 0 | 2 | - | 3 | - | 0 | 0 | - | - | - | 0 | 1 | - | - |
| Rhode Island ${ }^{\text {§ }}$ | - | 0 | 4 | - | 2 | - | 0 | 0 | - | - | - | 0 | 1 | 1 | - |
| Vermont ${ }^{\text {§ }}$ | - | 0 | 1 | 1 | 1 | - | 0 | 0 | - | - | - | 0 | 0 | - | - |
| Mid. Atlantic | 8 | 24 | 70 | 116 | 449 | - | 0 | 1 | - | - | - | 1 | 4 | 2 | 6 |
| New Jersey | - | 4 | 16 | 16 | 75 | - | 0 | 0 | - | - | - | 0 | 0 | - | - |
| New York (Upstate) | 2 | 3 | 15 | 27 | 39 | - | 0 | 1 | - | - | - | 0 | 3 | - | - |
| New York City | 2 | 5 | 14 | 51 | 73 | - | 0 | 1 | - | - | - | 0 | 4 | 2 | 6 |
| Pennsylvania | 4 | 9 | 55 | 22 | 262 | - | 0 | 0 | - | - | - | 0 | 3 | - | - |
| E.N. Central | 3 | 23 | 45 | 116 | 656 | - | 0 | 1 | - | - | - | 1 | 10 | 2 | 1 |
| Illinois | - | 8 | 20 | 31 | 471 | - | 0 | 1 | - | - | - | 0 | 5 | - | - |
| Indiana ${ }^{\text {§ }}$ | - | 1 | 4 | 11 | 8 | - | 0 | 1 | - | - | - | 0 | 5 | - | 1 |
| Michigan | 2 | 5 | 10 | 26 | 44 | - | 0 | 0 | - | - | - | 0 | 1 | 1 | - |
| Ohio | 1 | 5 | 18 | 48 | 60 | - | 0 | 0 | - | - | - | 0 | 2 | 1 | - |
| Wisconsin | - | 2 | 21 | - | 73 | - | 0 | 0 | - | - | - | 0 | 1 | , | - |
| W.N. Central | 2 | 22 | 81 | 91 | 638 | - | 0 | 4 | 2 | - | - | 4 | 21 | 10 | 5 |
| lowa | - | 1 | 4 | 4 | 13 | - | 0 | 0 | - | - | - | 0 | 1 | 1 | - |
| Kansas ${ }^{\text {® }}$ | - | 5 | 13 | 20 | 43 | - | 0 | 1 | - | - | - | 0 | 0 | - | - |
| Minnesota | - | 0 | 3 | - | 11 | - | 0 | 0 | - | - | - | 0 | 0 | - | - |
| Missouri | 2 | 16 | 66 | 63 | 564 | - | 0 | 4 | 2 | - | - | 4 | 20 | 9 | 5 |
| Nebraska§ | - | 1 | 10 | 3 | 4 | - | 0 | 1 | - | - | - | 0 | 1 | - | - |
| North Dakota | - | 0 | 0 | - | - | - | 0 | 0 | - | - | - | 0 | 1 | - | - |
| South Dakota | - | 0 | 2 | 1 | 3 | - | 0 | 0 | - | - | - | 0 | 0 | - | - |
| S. Atlantic | 35 | 58 | 123 | 581 | 372 | - | 1 | 7 | 4 | 7 | - | 7 | 60 | 20 | 55 |
| Delaware ${ }^{\S}$ | - | 0 | 2 | - | 26 | - | 0 | 0 | - | 1 | - | 0 | 3 | 1 | 3 |
| District of Columbia | - | 0 | 4 | 5 | 8 | - | 0 | 1 | - | - | - | 0 | 0 | - | - |
| Florida§ | 31 | 26 | 55 | 381 | 126 | - | 0 | 1 | 1 | - | - | 0 | 2 | 4 | - |
| Georgia | 3 | 15 | 26 | 90 | 125 | - | 0 | 6 | 1 | 2 | - | 0 | 0 | - | - |
| Maryland ${ }^{\text {§ }}$ | - | 2 | 8 | 17 | 21 | - | 0 | 1 | 1 | 1 | - | 0 | 5 | 1 | 6 |
| North Carolina | - | 3 | 36 | 60 | 30 | - | 0 | 3 | 1 | 3 | - | 2 | 48 | 10 | 42 |
| South Carolina ${ }^{\text {§ }}$ | - | 1 | 5 | 9 | 21 | - | 0 | 1 | - | - | - | 0 | 2 | 1 | 2 |
| Virginia ${ }^{\text {® }}$ | 1 | 2 | 8 | 19 | 15 | - | 0 | 2 | - | - | - | 2 | 12 | 3 | 2 |
| West Virginia | - | 0 | 66 | - | - | - | 0 | 0 | - | - | - | 0 | 0 | - | - |
| E.S. Central | 1 | 14 | 40 | 89 | 103 | - | 0 | 3 | - | 1 | 1 | 5 | 29 | 6 | 7 |
| Alabama ${ }^{\text {§ }}$ | - | 5 | 14 | 42 | 15 | - | 0 | 1 | - | - | 1 | 1 | 8 | 4 | 1 |
| Kentucky | - | 2 | 28 | 9 | 35 | - | 0 | 2 | - | - | - | 0 | 0 | - | - |
| Mississippi | - | 1 | 5 | 16 | 6 | - | 0 | 0 | - | - | - | 0 | 3 | - | - |
| Tennessee ${ }^{\S}$ | 1 | 4 | 14 | 22 | 47 | - | 0 | 2 | - | 1 | - | 4 | 20 | 2 | 6 |
| W.S. Central | 33 | 54 | 257 | 289 | 384 | - | 0 | 4 | - | 1 | 2 | 2 | 43 | 3 | 6 |
| Arkansas ${ }^{\text {8 }}$ | 1 | 1 | 6 | 5 | 11 | - | 0 | 2 | - | - | 1 | 1 | 29 | 1 | 1 |
| Louisiana | - | 6 | 13 | 23 | 35 | - | 0 | 0 | - | - | - | 0 | 1 | - | - |
| Oklahoma | 1 | 3 | 13 | 21 | 55 | - | 0 | 3 | - | - | 1 | 0 | 11 | 1 | 1 |
| Texas ${ }^{\S}$ | 31 | 44 | 240 | 240 | 283 | - | 0 | 1 | - | 1 | - | 0 | 3 | 1 | 4 |
| Mountain | 6 | 16 | 32 | 149 | 140 | - | 0 | 5 | 6 | - | - | 0 | 7 | 16 | 1 |
| Arizona | - | 8 | 19 | 38 | 79 | - | 0 | 4 | 6 | - | - | 0 | 7 | 16 | - |
| Colorado§ | 1 | 2 | 8 | 24 | 18 | - | 0 | 1 | - | - | - | 0 | 1 | - | - |
| Idaho ${ }^{\text {§ }}$ | - | 0 | 3 | 6 | 4 | - | 0 | 0 | - | - | - | 0 | 1 | - | - |
| Montana ${ }^{\text {§ }}$ | 5 | 0 | 14 | 43 | 3 | - | 0 | 1 | - | - | - | 0 | 1 | - | - |
| Nevada ${ }^{\text {§ }}$ | - | 0 | 6 | 6 | 5 | - | 0 | 0 | - | - | - | 0 | 0 | - | - |
| New Mexico§ | - | 3 | 10 | 27 | 23 | - | 0 | 0 | - | - | - | 0 | 0 | - | 1 |
| Utah | - | 1 | 4 | 5 | 8 | - | 0 | 0 | - | - | - | 0 | 1 | - | - |
| Wyoming ${ }^{\text {§ }}$ | - | 0 | 0 | - | - | - | 0 | 0 | - | - | - | 0 | 1 | - | - |
| Pacific | 9 | 22 | 73 | 221 | 207 | - | 0 | 2 | - | 1 | - | 0 | 1 | - | - |
| Alaska | - | 0 | 1 | 1 | - | N | 0 | 0 | N | N | N | 0 | 0 | N | N |
| California | 9 | 19 | 58 | 183 | 175 | - | 0 | 2 | - | 1 | - | 0 | 0 | - | - |
| Hawaii | - | 1 | 4 | 16 | 9 | N | 0 | 0 | N | N | N | 0 | 0 | N | N |
| Oregon | - | 1 | 4 | 12 | 14 | N | 0 | 0 | , | , | N | 0 | 1 | N | - |
| Washington | - | 1 | 17 | 9 | 9 | - | 0 | 0 | - | - | - | 0 | 0 | - | - |
| Territories |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| American Samoa | - | 1 | 1 | 1 | - | N | 0 | 0 | N | N | N | 0 | 0 | N | N |
| C.N.M.I. | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Guam | - | 0 | 1 | 1 | - | N | 0 | 0 | N | N | N | 0 | 0 | N | N |
| Puerto Rico | - | 0 | 1 | - | - | N | 0 | 0 | N | N | N | 0 | 0 | N | N |
| U.S. Virgin Islands | - | 0 | 0 | - | - | - | 0 | 0 | - | - | - | 0 | 0 | - | - |

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

U: Unavailable. -: No reported cases. N: Not reportable. NN: Not Nationally Notifiable. Cum: Cumulative year-to-date counts. Med: Median. Max: Maximum.

* Case counts for reporting year 2010 and 2011 are provisional and subject to change. For further information on interpretation of these data, see http://www.cdc.gov/osels/ph_surveillance/ nndss/phs/files/ProvisionalNationa\%20NotifiableDiseasesSurveillanceData20100927.pdf. Data for TB are displayed in Table IV, which appears quarterly.
$\dagger$ IIInesses with similar clinical presentation that result from Spotted fever group rickettsia infections are reported as Spotted fever rickettsioses. Rocky Mountain spotted fever (RMSF) caused
by Rickettsia rickettsii, is the most common and well-known spotted fever.
§ Contains data reported through the National Electronic Disease Surveillance System (NEDSS).

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending March 26, 2011, and March 27, 2010 (12th week)*

| Reporting area | Streptococcus pneumoniae, ${ }^{\dagger}$ invasive disease |  |  |  |  |  |  |  |  |  | Syphilis, primary and secondary |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | All ages |  |  |  |  | Age < 5 |  |  |  |  |  |  |  |  |  |
|  | Current week | Previous 52 weeks |  | $\begin{aligned} & \text { Cum } \\ & 2011 \end{aligned}$ | $\begin{aligned} & \text { Cum } \\ & 2010 \end{aligned}$ | Current week | Previous 52 weeks |  | $\begin{aligned} & \text { Cum } \\ & 2011 \end{aligned}$ | $\begin{aligned} & \text { Cum } \\ & 2010 \end{aligned}$ | Current week | $\underline{\text { Previous } 52 \text { weeks }}$ |  | Cum | Cum |
|  |  | Med | Max |  |  |  | Med | Max |  |  |  | Med | Max | 2011 | 2010 |
| United States | 214 | 286 | 825 | 4,095 | 4,581 | 20 | 32 | 92 | 338 | 736 | 80 | 253 | 348 | 2,158 | 2,862 |
| New England | 6 | 9 | 99 | 64 | 131 | - | 1 | 14 | 5 | 25 | 5 | 9 | 20 | 82 | 89 |
| Connecticut | - | 0 | 91 | - | - | - | 0 | 12 | - | - | - | 1 | 8 | 11 | 17 |
| Maine ${ }^{\text {§ }}$ | 3 | 2 | 13 | 35 | 33 | - | 0 | 1 | 1 | 2 | - | 0 | 3 | 2 | 7 |
| Massachusetts | 1 | 1 | 5 | 9 | 29 | - | 0 | 3 | 2 | 19 | 4 | 5 | 15 | 53 | 55 |
| New Hampshire | - | 0 | 7 | - | 41 | - | 0 | 0 | - | 3 | 1 | 0 | 2 | 5 | 3 |
| Rhode Island ${ }^{\text {§ }}$ | - | 1 | 36 | 7 | - | - | 0 | 3 | - | - | - | 1 | 4 | 9 | 5 |
| Vermont ${ }^{\text {}}$ | 2 | 1 | 5 | 13 | 28 | - | 0 | 1 | 2 | 1 | - | 0 | 1 | 2 | 2 |
| Mid. Atlantic | 23 | 32 | 60 | 451 | 317 | 4 | 6 | 19 | 50 | 94 | 10 | 31 | 45 | 239 | 397 |
| New Jersey | - | 1 | 8 | 15 | 31 | - | 1 | 5 | 10 | 17 | 2 | 4 | 10 | 43 | 57 |
| New York (Upstate) | 5 | 2 | 11 | 24 | 46 | 3 | 1 | 9 | 14 | 35 | - | 2 | 18 | 36 | 17 |
| New York City | 10 | 15 | 33 | 230 | 99 | - | 2 | 14 | 9 | 23 | 2 | 15 | 31 | 80 | 232 |
| Pennsylvania | 8 | 12 | 22 | 182 | 141 | 1 | 1 | 5 | 17 | 19 | 6 | 7 | 16 | 80 | 91 |
| E.N. Central | 46 | 61 | 105 | 811 | 963 | 2 | 5 | 13 | 50 | 129 | 1 | 30 | 53 | 163 | 462 |
| Illinois | - | 1 | 6 | 13 | 40 | - | 1 | 4 | 13 | 34 | 1 | 13 | 25 | 31 | 242 |
| Indiana | - | 9 | 27 | 116 | 212 | - | 0 | 6 | 3 | 17 | - | 4 | 14 | 30 | 34 |
| Michigan | 7 | 13 | 29 | 169 | 206 | - | 1 | 4 | 10 | 34 | - | 4 | 9 | 22 | 68 |
| Ohio | 35 | 25 | 45 | 408 | 388 | 2 | 2 | 5 | 19 | 28 | - | 9 | 21 | 73 | 102 |
| Wisconsin | 4 | 7 | 19 | 105 | 117 | - | 0 | 4 | 5 | 16 | - | 1 | 3 | 7 | 16 |
| W.N. Central | 3 | 10 | 61 | 124 | 276 | 1 | 1 | 12 | 22 | 56 | - | 6 | 18 | 63 | 62 |
| lowa | - | 0 | 0 | - | - | - | 0 | 0 | - | - | - | 0 | 3 | 3 | 3 |
| Kansas | - | 2 | 6 | 24 | 34 | - | 0 | 2 | 2 | 5 | - | 0 | 3 | 2 | 4 |
| Minnesota | - | 0 | 46 | - | 142 | - | 0 | 8 | - | 25 | - | 3 | 10 | 31 | 13 |
| Missouri | 3 | 2 | 10 | 59 | 40 | 1 | 0 | 4 | 17 | 17 | - | 2 | 9 | 26 | 40 |
| Nebraska ${ }^{\text {§ }}$ | - | 2 | 9 | 41 | 47 | - | 0 | 2 | 3 | 5 | - | 0 | 2 | 1 | 2 |
| North Dakota | - | 0 | 11 | - | 4 | - | 0 | 1 | - | - | - | 0 | 0 | - | - |
| South Dakota | - | 0 | 2 | - | 9 | - | 0 | 2 | - | 4 | - | 0 | 1 | - | - |
| S. Atlantic | 51 | 62 | 133 | 1,062 | 1,191 | 5 | 8 | 23 | 84 | 195 | 36 | 61 | 153 | 600 | 593 |
| Delaware | 1 | 1 | 4 | 22 | 9 | - | 0 | 1 | - | - | - | 0 | 4 | 4 | 1 |
| District of Columbia | - | 0 | 2 | 4 | 12 | - | 0 | 2 | 1 | 3 | - | 3 | 15 | 34 | 30 |
| Florida | 35 | 26 | 68 | 532 | 547 | 4 | 3 | 13 | 42 | 77 | 3 | 23 | 43 | 228 | 221 |
| Georgia | 4 | 10 | 21 | 132 | 217 | 1 | 2 | 6 | 13 | 57 | 14 | 13 | 108 | 74 | 81 |
| Maryland ${ }^{\text {§ }}$ | 11 | 9 | 32 | 191 | 155 | - | 1 | 4 | 9 | 21 | - | 7 | 16 | 75 | 44 |
| North Carolina | - | 0 | 0 | - | - | - | 0 | 0 | - | - | 7 | 6 | 19 | 84 | 124 |
| South Carolina§ | - | 8 | 25 | 167 | 197 | - | 1 | 4 | 5 | 20 | 5 | 3 | 10 | 49 | 33 |
| Virginia§ | - | 1 | 4 | 14 | 16 | - | 1 | 4 | 14 | 14 | 7 | 4 | 22 | 52 | 56 |
| West Virginia | - | 1 | 11 | - | 38 | - | 0 | 4 | - | 3 | - | 0 | 2 | - | 3 |
| E.S. Central | 21 | 24 | 45 | 377 | 431 | 2 | 2 | 7 | 20 | 41 | 5 | 16 | 39 | 112 | 191 |
| Alabama ${ }^{\text {}}$ | - | 0 | 0 | - | - | - | 0 | 0 | - | - | - | 4 | 11 | 27 | 63 |
| Kentucky | 2 | 4 | 11 | 55 | 48 | - | 0 | 3 | 5 | 3 | 4 | 2 | 12 | 24 | 23 |
| Mississippi | - | 1 | 8 | 4 | 25 | - | 0 | 2 | - | 5 | - | 4 | 16 | 24 | 39 |
| Tennessee ${ }^{\text {§ }}$ | 19 | 21 | 39 | 318 | 358 | 2 | 1 | 6 | 15 | 33 | 1 | 5 | 17 | 37 | 66 |
| W.S. Central | 34 | 35 | 339 | 490 | 505 | 5 | 5 | 26 | 52 | 78 | 11 | 38 | 71 | 337 | 438 |
| Arkansas§ | 15 | 3 | 23 | 79 | 50 | 1 | 0 | 3 | 8 | 8 | 4 | 3 | 10 | 35 | 70 |
| Louisiana | - | 2 | 10 | 60 | 39 | - | 0 | 2 | 5 | 11 | - | 9 | 36 | 59 | 73 |
| Oklahoma | 3 | 1 | 4 | 12 | 19 | 3 | 1 | 4 | 12 | 19 | - | 2 | 6 | 10 | 17 |
| Texas§ | 16 | 28 | 310 | 339 | 397 | 1 | 3 | 19 | 27 | 40 | 7 | 23 | 33 | 233 | 278 |
| Mountain | 27 | 35 | 75 | 629 | 679 | 1 | 4 | 10 | 51 | 103 | 1 | 12 | 26 | 69 | 111 |
| Arizona | 14 | 12 | 44 | 309 | 345 | 1 | 1 | 5 | 23 | 48 | 1 | 4 | 9 | 6 | 43 |
| Colorado | 11 | 11 | 23 | 155 | 172 | - | 1 | 4 | 8 | 23 | - | 2 | 8 | 20 | 32 |
| Idaho ${ }^{\text {§ }}$ | - | 0 | 2 | 3 | 5 | - | 0 | 2 | 2 | 2 | - | 0 | 2 | 3 | 1 |
| Montana§ | - | 0 | 2 | 3 | 5 | - | 0 | 1 | - | - | - | 0 | 2 | 1 | - |
| Nevada ${ }^{\text {§ }}$ | - | 2 | 8 | 30 | 27 | - | 0 | 1 | 3 | 3 | - | 2 | 9 | 23 | 19 |
| New Mexico ${ }^{\text {§ }}$ | 2 | 3 | 13 | 80 | 56 | - | 0 | 2 | 7 | 12 | - | 1 | 4 | 11 | 8 |
| Utah | - | 3 | 8 | 41 | 64 | - | 0 | 3 | 8 | 14 | - | 1 | 5 | 5 | 8 |
| Wyoming ${ }^{\S}$ | - | 0 | 15 | 8 | 5 | - | 0 | 1 | - | 1 | - | 0 | 0 | - | - |
| Pacific | 3 | 6 | 24 | 87 | 88 | - | 0 | 5 | 4 | 15 | 11 | 47 | 63 | 493 | 519 |
| Alaska | - | 2 | 11 | 38 | 43 | - | 0 | 2 | 3 | 11 | - | 0 | 1 | - | 1 |
| California | 3 | 3 | 23 | 48 | 45 | - | 0 | 5 | 1 | 4 | 6 | 40 | 57 | 434 | 438 |
| Hawaii | - | 0 | 3 | 1 | - | - | 0 | 0 | - | - | - | 0 | 5 | 1 | 11 |
| Oregon | - | 0 | 0 | - | - | - | 0 | 0 | - | - | 1 | 1 | 7 | 24 | 17 |
| Washington | - | 0 | 0 | - | - | - | 0 | 0 | - | - | 4 | 3 | 11 | 34 | 52 |
| Territories |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| American Samoa | - | 0 | 0 | - | - | - | 0 | 0 | - | - | - | 0 | 0 | - | - |
| C.N.M.I. | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Guam | - | 0 | 0 | - | - | - | 0 | 0 | - | - | - | 0 | 0 | - | - |
| Puerto Rico | - | 0 | 0 | - | - | - | 0 | 0 | - | - | 11 | 4 | 15 | 56 | 52 |
| U.S. Virgin Islands | - | 0 | 0 | - | - | - | 0 | 0 | - | - | - | 0 | 0 | - | - |

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

U: Unavailable. -: No reported cases. N: Not reportable. NN: Not Nationally Notifiable. Cum: Cumulative year-to-date counts. Med: Median. Max: Maximum.
 nndss/phs/files/ProvisionalNationa\%20NotifiableDiseasesSurveillanceData20100927.pdf. Data for TB are displayed in Table IV, which appears quarterly.
 a normally sterile body site (e.g., blood or cerebrospinal fluid).
§ Contains data reported through the National Electronic Disease Surveillance System (NEDSS).

| Reporting area | Varicella (chickenpox) |  |  |  |  | West Nile virus disease ${ }^{\dagger}$ |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  | roinvasiv |  |  |  | Nonn | oinvasi |  |  |
|  | Current week | Previous 52 weeks |  | $\begin{aligned} & \text { Cum } \\ & 2011 \end{aligned}$ | $\begin{aligned} & \text { Cum } \\ & 2010 \end{aligned}$ | Current week | Previous 52 weeks |  | $\begin{aligned} & \text { Cum } \\ & 2011 \end{aligned}$ | $\begin{aligned} & \text { Cum } \\ & 2010 \\ & \hline \end{aligned}$ | Current week | Previous 52 weeks |  | $\begin{aligned} & \text { Cum } \\ & 2011 \end{aligned}$ | $\begin{aligned} & \text { Cum } \\ & 2010 \\ & \hline \end{aligned}$ |
|  |  | Med | Max |  |  |  | Med | Max |  |  |  | Med | Max |  |  |
| United States | 139 | 248 | 574 | 2,486 | 3,967 | - | 1 | 71 | - | 1 | - | 1 | 53 | - | 1 |
| New England | 3 | 21 | 46 | 160 | 252 | - | 0 | 3 | - | - | - | 0 | 2 | - | - |
| Connecticut | - | 5 | 20 | - | 62 | - | 0 | 2 | - | - | - | 0 | 2 | - | - |
| Maine ${ }^{\text {f }}$ | - | 4 | 16 | 42 | 68 | - | 0 | 0 | - | - | - | 0 | 0 | - | - |
| Massachusetts | 3 | 5 | 17 | 75 | 60 | - | 0 | 2 | - | - | - | 0 | 1 | - | - |
| New Hampshire | - | 2 | 9 | 9 | 40 | - | 0 | 1 | - | - | - | 0 | 0 | - | - |
| Rhode Island ${ }^{\text {a }}$ | - | 1 | 4 | 6 | 2 | - | 0 | 0 | - | - | - | 0 | 0 | - | - |
| Vermont ${ }^{\text {® }}$ | - | 2 | 13 | 28 | 20 | - | 0 | 0 | - | - | - | 0 | 0 | - | - |
| Mid. Atlantic | 20 | 28 | 62 | 245 | 421 | - | 0 | 19 | - | - | - | 0 | 13 | - | - |
| New Jersey | - | 6 | 30 | 58 | 139 | - | 0 | 3 | - | - | - | 0 | 6 | - | - |
| New York (Upstate) | N | 0 | 0 | N | N | - | 0 | 9 | - | - | - | 0 | 7 | - | - |
| New York City | - | 0 | 0 | - | 1 | - | 0 | 7 | - | - | - | 0 | 4 | - | - |
| Pennsylvania | 20 | 18 | 41 | 187 | 281 | - | 0 | 3 | - | - | - | 0 | 3 | - | - |
| E.N. Central | 39 | 78 | 154 | 827 | 1,503 | - | 0 | 15 | - | - | - | 0 | 7 | - | - |
| Illinois | 3 | 18 | 43 | 171 | 380 | - | 0 | 10 | - | - | - | 0 | 4 | - | - |
| Indianal | - | 5 | 24 | 59 | 165 | - | 0 | 2 | - | - | - | 0 | 2 | - | - |
| Michigan | 11 | 27 | 53 | 273 | 487 | - | 0 | 6 | - | - | - | 0 | 1 | - | - |
| Ohio | 25 | 21 | 58 | 323 | 378 | - | 0 | 1 | - | - | - | 0 | 1 | - | - |
| Wisconsin | - | 5 | 22 | 1 | 93 | - | 0 | 0 | - | - | - | 0 | 1 | - | - |
| W.N. Central | 4 | 12 | 32 | 62 | 210 | - | 0 | 7 | - | - | - | 0 | 11 | - | - |
| lowa | N | 0 | 0 | N | N | - | 0 | 1 | - | - | - | 0 | 2 | - | - |
| Kansas ${ }^{\text {a }}$ | , | 2 | 19 | 38 | 90 | - | 0 | 1 | - | - | - | 0 | 3 | - | - |
| Minnesota | - | 0 | 0 | - | - | - | 0 | 1 | - | - | - | 0 | 3 | - | - |
| Missouri | - | 7 | 23 | 10 | 102 | - | 0 | 1 | - | - | - | 0 | 0 | - | - |
| Nebraska ${ }^{\text {a }}$ | $N$ | 0 | 0 | N | N | - | 0 | 3 | - | - | - | 0 | 7 | - | - |
| North Dakota | 4 | 0 | 10 | 11 | 14 | - | 0 | 2 | - | - | - | 0 | 2 | - | - |
| South Dakota | - | 0 | 7 | 3 | 4 | - | 0 | 2 | - | - | - | 0 | 3 | - | - |
| S. Atlantic | 24 | 32 | 100 | 316 | 488 | - | 0 | 6 | - | - | - | 0 | 4 | - | 1 |
| Delawaref | - | 0 | 4 | 2 | 3 | - | 0 | 0 | - | - | - | 0 | 0 | - | - |
| District of Columbia | - | 0 | 4 | 5 | 1 | - | 0 | 1 | - | - | - | 0 | 1 | - | - |
| Florida ${ }^{\text {a }}$ | 20 | 15 | 57 | 234 | 248 | - | 0 | 3 | - | - | - | 0 | 1 | - | - |
| Georgia | N | 0 | 0 | N | N | - | 0 | 1 | - | - | - | 0 | 3 | - | 1 |
| Maryland ${ }^{\text {a }}$ | N | 0 | 0 | N | N | - | 0 | 3 | - | - | - | 0 | 2 | - | - |
| North Carolina | N | 0 | 0 | N | N | - | 0 | 0 | - | - | - | 0 | 0 | - | - |
| South Carolina ${ }^{\text {a }}$ | - | 0 | 13 | - | 44 | - | 0 | 1 | - | - | - | 0 | 0 | - | - |
| Virginial | 4 | 10 | 29 | 75 | 99 | - | 0 | 1 | - | - | - | 0 | 1 | - | - |
| West Virginia | - | 6 | 26 | - | 93 | - | 0 | 0 | - | - | - | 0 | 0 | - | - |
| E.S. Central | 2 | 6 | 22 | 72 | 57 | - | 0 | 1 | - | 1 | - | 0 | 3 | - | - |
| Alabama ${ }^{\text {a }}$ | 2 | 5 | 22 | 69 | 57 | - | 0 | 1 | - | - | - | 0 | 1 | - | - |
| Kentucky | N | 0 | 0 | N | N | - | 0 | 1 | - | - | - | 0 | 1 | - | - |
| Mississippi | - | 0 | 2 | 3 | - | - | 0 | 1 | - | 1 | - | 0 | 2 | - | - |
| Tennessee ${ }^{\text {f }}$ | N | 0 | 0 | N | N | - | 0 | 1 | - | - | - | 0 | 2 | - | - |
| W.S. Central | 47 | 41 | 202 | 480 | 670 | - | 0 | 16 | - | - | - | 0 | 3 | - | - |
| Arkansas ${ }^{\text {a }}$ | - | 2 | 32 | 29 | 35 | - | 0 | 3 | - | - | - | 0 | 1 | - | - |
| Louisiana | - | 2 | 4 | 13 | 19 | - | 0 | 3 | - | - | - | 0 | 1 | - | - |
| Oklahoma | N | 0 | 0 | N | N | - | 0 | 1 | - | - | - | 0 | 0 | - | - |
| Texas ${ }^{\text {a }}$ | 47 | 38 | 191 | 438 | 616 | - | 0 | 15 | - | - | - | 0 | 2 | - | - |
| Mountain | - | 17 | 50 | 271 | 344 | - | 0 | 18 | - | - | - | 0 | 15 | - | - |
| Arizona | - | 0 | 0 | - | - | - | 0 | 13 | - | - | - | 0 | 9 | - | - |
| Colorado ${ }^{\text {a }}$ | - | 7 | 31 | 107 | 117 | - | 0 | 5 | - | - | - | 0 | 11 | - | - |
| Idaho ${ }^{\text {a }}$ | N | 0 | 0 | N | N | - | 0 | 0 | - | - | - | 0 | 1 | - | - |
| Montana ${ }^{\text {a }}$ | - | 3 | 28 | 72 | 67 | - | 0 | 0 | - | - | - | 0 | 0 | - | - |
| Nevada" | N | 0 | 0 | N | N | - | 0 | 0 | - | - | - | 0 | 1 | - | - |
| New Mexicof | - | 1 | 8 | 11 | 24 | - | 0 | 6 | - | - | - | 0 | 2 | - | - |
| Utah | - | 4 | 26 | 81 | 133 | - | 0 | 1 | - | - | - | 0 | 1 | - | - |
| Wyoming ${ }^{\text {a }}$ | - | 0 | 3 | - | 3 | - | 0 | 1 | - | - | - | 0 | 1 | - | - |
| Pacific | - | 2 | 16 | 53 | 22 | - | 0 | 8 | - | - | - | 0 | 6 | - | - |
| Alaska | - | 1 | 5 | 21 | 10 | - | 0 | 0 | - | - | - | 0 | 0 | - | - |
| California | - | 0 | 13 | 23 | 2 | - | 0 | 8 | - | - | - | 0 | 6 | - | - |
| Hawaii | - | 1 | 4 | 9 | 10 | - | 0 | 0 | - | - | - | 0 | 0 | - | - |
| Oregon | N | 0 | 0 | N | N | - | 0 | 0 | - | - | - | 0 | 0 | - | - |
| Washington | N | 0 | 0 | N | N | - | 0 | 1 | - | - | - | 0 | 1 | - | - |
| Territories |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| American Samoa | N | 0 | 0 | N | N | - | 0 | 0 | - | - | - | 0 | 0 | - | - |
| C.N.M.I. | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Guam | - | 0 | 2 | 8 | 1 | - | 0 | 0 | - | - | - | 0 | 0 | - | - |
| Puerto Rico | 6 | 8 | 30 | 49 | 103 | - | 0 | 0 | - | - | - | 0 | 0 | - | - |
| U.S. Virgin Islands | - | 0 | 0 | - | - | - | 0 | 0 | - | - | - | 0 | 0 | - | - |

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

U: Unavailable. -: No reported cases. N: Not reportable. NN: Not Nationally Notifiable. Cum: Cumulative year-to-date counts. Med: Median. Max: Maximum.

* Case counts for reporting year 2010 and 2011 are provisional and subject to change. For further information on interpretation of these data, see http://www.cdc.gov/osels/ph_surveillance/ nndss/phs/files/ProvisionalNationa\%20NotifiableDiseasesSurveillanceData20100927.pdf. Data for TB are displayed in Table IV, which appears quarterly.
$\uparrow$ Updated weekly from reports to the Division of Vector-Borne Infectious Diseases, National Center for Zoonotic, Vector-Borne, and Enteric Diseases (ArboNET Surveillance). Data for California serogroup, eastern equine, Powassan, St. Louis, and western equine diseases are available in Table I.
${ }^{\S}$ Not reportable in all states. Data from states where the condition is not reportable are excluded from this table, except starting in 2007 for the domestic arboviral diseases and influenzaassociated pediatric mortality, and in 2003 for SARS-CoV. Reporting exceptions are available at http://www.cdc.gov/osels/ph_surveillance/nndss/phs/infdis.htm.
${ }^{9}$ Contains data reported through the National Electronic Disease Surveillance System (NEDSS).

|  | All causes, by age (years) |  |  |  |  |  | P\& ${ }^{\dagger}$ <br> Total | Reporting area (Continued) | All causes, by age (years) |  |  |  |  |  | P\& ${ }^{\dagger}$ <br> Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Reporting area | All Ages | $\geq 65$ | 45-64 | 25-44 | 1-24 | <1 |  |  | All Ages | $\geq 65$ | 45-64 | 25-44 | 1-24 | <1 |  |
| New England | 487 | 337 | 107 | 28 | 7 | 8 | 42 | S. Atlantic | 1,237 | 797 | 308 | 79 | 26 | 26 | 92 |
| Boston, MA | 143 | 99 | 31 | 6 | 3 | 4 | 11 | Atlanta, GA | 179 | 123 | 43 | 4 | 8 | 1 | 10 |
| Bridgeport, CT | 23 | 18 | 4 | 1 | - | - | 2 | Baltimore, MD | 160 | 89 | 47 | 13 | 4 | 7 | 18 |
| Cambridge, MA | 16 | 11 | 4 | 1 | - | - | 3 | Charlotte, NC | 114 | 77 | 23 | 8 | 4 | 2 | 11 |
| Fall River, MA | 11 | 9 | 2 | - | - | - | - | Jacksonville, FL | 159 | 106 | 38 | 14 | - | 1 | 11 |
| Hartford, CT | 49 | 35 | 8 | 5 | - | 1 | 4 | Miami, FL | 84 | 54 | 19 | 9 | 2 | - | 5 |
| Lowell, MA | 31 | 21 | 9 | 1 | - | - | 2 | Norfolk, VA | 51 | 31 | 9 | 5 | - | 6 | - |
| Lynn, MA | 14 | 7 | 6 | 1 | - | - | 3 | Richmond, VA | 63 | 42 | 18 | 3 | - | - | 9 |
| New Bedford, MA | 31 | 17 | 10 | 4 | - | - | - | Savannah, GA | 52 | 32 | 14 | 3 | 2 | 1 | 3 |
| New Haven, CT | 38 | 29 | 5 | 3 | 1 | - | 4 | St. Petersburg, FL | 69 | 45 | 17 | 4 | 1 | 2 | 6 |
| Providence, RI | 66 | 48 | 13 | 1 | 1 | 3 | 5 | Tampa, FL | 176 | 115 | 44 | 12 | - | 4 | 7 |
| Somerville, MA | 2 | 2 | - | - | - | - | - | Washington, D.C. | 116 | 71 | 35 | 4 | 4 | 2 | 11 |
| Springfield, MA | 34 | 20 | 8 | 4 | 2 | - | 4 | Wilmington, DE | 14 | 12 | 1 | - | 1 | - | 1 |
| Waterbury, CT | 29 | 21 | 7 | 1 | - | - | 4 | E.S. Central | 876 | 588 | 198 | 51 | 21 | 18 | 86 |
| Worcester, MA | U | U | U | U | U | U | U | Birmingham, AL | 166 | 107 | 33 | 13 | 4 | 9 | 15 |
| Mid. Atlantic | 2,269 | 1,555 | 500 | 138 | 41 | 35 | 130 | Chattanooga, TN | 111 | 77 | 27 | 2 | 3 | 2 | 13 |
| Albany, NY | 49 | 36 | 9 | 1 | 1 | 2 | 1 | Knoxville, TN | 126 | 83 | 33 | 7 | 3 | - | 10 |
| Allentown, PA | 25 | 22 | 3 | - | - | - | - | Lexington, KY | 86 | 59 | 21 | 5 | - | 1 | 10 |
| Buffalo, NY | 75 | 44 | 23 | 4 | - | 4 | 7 | Memphis, TN | 153 | 106 | 31 | 9 | 6 | 1 | 18 |
| Camden, NJ | 40 | 26 | 11 | 2 | - | 1 | 2 | Mobile, AL | 62 | 48 | 8 | 4 | 1 | 1 | 6 |
| Elizabeth, NJ | 23 | 16 | 7 | - | - | - | 5 | Montgomery, AL | 22 | 15 | 7 | - | - | - | 2 |
| Erie, PA | 47 | 32 | 10 | 2 | 2 | 1 | 7 | Nashville, TN | 150 | 93 | 38 | 11 | 4 | 4 | 12 |
| Jersey City, NJ | 17 | 9 | 4 | 4 | - | - | 3 | W.S. Central | 1,414 | 931 | 341 | 88 | 28 | 26 | 109 |
| New York City, NY | 1,084 | 752 | 234 | 68 | 19 | 11 | 53 | Austin, TX | 102 | 70 | 19 | 8 | 2 | 3 | 10 |
| Newark, NJ | 27 | 14 | 9 | 3 | 1 | - | 1 | Baton Rouge, LA | 60 | 46 | 10 | 2 | 2 | - | - |
| Paterson, NJ | 23 | 17 | 3 | 2 | 1 | - | 2 | Corpus Christi, TX | 79 | 51 | 24 | - | 4 | - | 8 |
| Philadelphia, PA | 480 | 301 | 117 | 37 | 13 | 12 | 22 | Dallas, TX | 248 | 153 | 66 | 13 | 8 | 8 | 20 |
| Pittsburgh, PA§ | 31 | 18 | 10 | 2 | 1 | - | 5 | El Paso, TX | 71 | 48 | 15 | 3 | 1 | 4 | 6 |
| Reading, PA | 27 | 23 | 3 | - | - | 1 | 2 | Fort Worth, TX | U | U | U | U | U | U | U |
| Rochester, NY | 87 | 60 | 19 | 5 | 1 | 2 | 6 | Houston, TX | 195 | 105 | 56 | 24 | 4 | 6 | 14 |
| Schenectady, NY | 23 | 17 | 6 | - | - | - | 3 | Little Rock, AR | 90 | 64 | 19 | 5 | - | 2 | 1 |
| Scranton, PA | 20 | 17 | 2 | - | - | 1 | 1 | New Orleans, LA | U | U | U | U | U | U | U |
| Syracuse, NY | 122 | 101 | 17 | 4 | - | - | 9 | San Antonio, TX | 293 | 191 | 73 | 23 | 3 | 3 | 26 |
| Trenton, NJ | 27 | 16 | 7 | 3 | 1 | - | - | Shreveport, LA | 141 | 100 | 34 | 6 | 1 | - | 10 |
| Utica, NY | 15 | 13 | 1 | - | 1 | - | - | Tulsa, OK | 135 | 103 | 25 | 4 | 3 | - | 14 |
| Yonkers, NY | 27 | 21 | 5 | 1 | - | - | 1 | Mountain | 1,237 | 831 | 285 | 71 | 25 | 22 | 95 |
| E.N. Central | 2,298 | 1,531 | 589 | 107 | 37 | 34 | 212 | Albuquerque, NM | 111 | 72 | 26 | 10 | 1 | 2 | 8 |
| Akron, OH | 56 | 43 | 10 | 1 | 2 | - | 4 | Boise, ID | 74 | 56 | 14 | 3 | - | 1 | 7 |
| Canton, OH | 45 | 35 | 10 | - | - | - | 11 | Colorado Springs, CO | 79 | 50 | 23 | 2 | 2 | 2 | 3 |
| Chicago, IL | 260 | 165 | 75 | 15 | 5 | - | 18 | Denver, CO | 120 | 79 | 27 | 7 | 4 | 3 | 12 |
| Cincinnati, OH | 98 | 62 | 27 | 8 | 1 | - | 9 | Las Vegas, NV | 297 | 208 | 64 | 17 | 6 | 2 | 16 |
| Cleveland, OH | 298 | 207 | 75 | 9 | 3 | 4 | 23 | Ogden, UT | 46 | 36 | 8 | 1 | - | 1 | 6 |
| Columbus, OH | 399 | 265 | 99 | 22 | 3 | 10 | 38 | Phoenix, AZ | 200 | 126 | 48 | 13 | 5 | 6 | 21 |
| Dayton, OH | 120 | 88 | 24 | 7 | 1 | - | 11 | Pueblo, CO | 36 | 27 | 8 | 1 | - | - | 3 |
| Detroit, MI | 117 | 65 | 41 | 4 | 3 | 4 | 5 | Salt Lake City, UT | 122 | 75 | 27 | 11 | 4 | 5 | 11 |
| Evansville, IN | 47 | 35 | 11 | 1 | - | - | 4 | Tucson, AZ | 152 | 102 | 40 | 6 | 3 | - | 8 |
| Fort Wayne, IN | 63 | 47 | 11 | 4 | - | 1 | 4 | Pacific | 1,712 | 1,201 | 376 | 75 | 35 | 25 | 204 |
| Gary, IN | 14 | 7 | 6 | 1 | - | - | 1 | Berkeley, CA | 9 | 7 | 1 | - | - | 1 | - |
| Grand Rapids, MI | 65 | 47 | 13 | 3 | 1 | 1 | 12 | Fresno, CA | 123 | 76 | 35 | 11 | 1 | - | 16 |
| Indianapolis, IN | 233 | 138 | 74 | 11 | 5 | 5 | 28 | Glendale, CA | 37 | 26 | 9 | 1 | - | 1 | 6 |
| Lansing, MI | 43 | 26 | 13 | 2 | 1 | 1 | 5 | Honolulu, HI | 28 | 18 | 9 | 1 | - | - | 1 |
| Milwaukee, WI | 77 | 49 | 22 | 5 | 1 | - | 9 | Long Beach, CA | 103 | 73 | 19 | 6 | 4 | 1 | 21 |
| Peoria, IL | 72 | 50 | 15 | 3 | 1 | 3 | 9 | Los Angeles, CA | 273 | 190 | 59 | 15 | 5 | 4 | 41 |
| Rockford, IL | 63 | 37 | 16 | 4 | 4 | 2 | 5 | Pasadena, CA | 19 | 16 | 2 | 1 | - | - | 2 |
| South Bend, IN | 59 | 36 | 18 | 2 | 3 | - | 3 | Portland, OR | 104 | 71 | 26 | 5 | - | 2 | 5 |
| Toledo, OH | 108 | 74 | 25 | 5 | 2 | 2 | 8 | Sacramento, CA | 184 | 130 | 38 | 8 | 6 | 2 | 19 |
| Youngstown, OH | 61 | 55 | 4 | - | 1 | 1 | 5 | San Diego, CA | 150 | 107 | 30 | 4 | 6 | 3 | 15 |
| W.N.Central | 807 | 522 | 213 | 37 | 20 | 13 | 99 | San Francisco, CA | 123 | 88 | 27 | 6 | - | 2 | 12 |
| Des Moines, IA | 192 | 143 | 32 | 8 | 4 | 5 | 19 | San Jose, CA | 205 | 144 | 49 | 5 | 5 | 2 | 24 |
| Duluth, MN | 4 | 2 | 1 | 1 | - | - | 4 | Santa Cruz, CA | 29 | 24 | 5 | - | - | - | 4 |
| Kansas City, KS | 28 | 13 | 14 | 1 | - | - | 2 | Seattle, WA | 117 | 84 | 20 | 4 | 3 | 6 | 14 |
| Kansas City, MO | 110 | 62 | 37 | 5 | 3 | 3 | 9 | Spokane, WA | 70 | 56 | 11 | 2 | 1 | - | 10 |
| Lincoln, NE | 49 | 37 | 9 | 2 | - | 1 | 5 | Tacoma, WA | 138 | 91 | 36 | 6 | 4 | 1 | 14 |
| Minneapolis, MN | 10 | 8 | 2 | - | - | - | 10 | Total ${ }^{\text {¹ }}$ | 12,337 | 8,293 | 2,917 | 674 | 240 | 207 | 1,069 |
| Omaha, NE | 95 | 68 | 17 | 7 | 1 | 2 | 9 |  | 12,337 | 8,293 | 2,917 |  | 240 |  | 1,069 |
| St. Louis, MO | 231 | 127 | 81 | 10 | 10 | 1 | 24 |  |  |  |  |  |  |  |  |
| St. Paul, MN | 9 | 7 | 1 | - | - | 1 | 9 |  |  |  |  |  |  |  |  |
| Wichita, KS | 79 | 55 | 19 | 3 | 2 | - | 8 |  |  |  |  |  |  |  |  |

U: Unavailable. -: No reported cases.

by the week that the death certificate was filed. Fetal deaths are not included.
$\dagger$ Pneumonia and influenza.
§ Because of changes in reporting methods in this Pennsylvania city, these numbers are partial counts for the current week. Complete counts will be available in 4 to 6 weeks.
ๆ Total includes unknown ages.

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is U.S. Government Printing Office: 2011-723-011/21036 Region IV ISSN: 0149-2195


[^0]:    *The patient was a premature male who was delivered at home and developed tetanus 11 days after birth. His mother was an immigrant with an unknown vaccination history.

[^1]:    ${ }^{*}$ Among 197 cases with known outcomes.
    ${ }^{\dagger}$ Includes one nonfatal case in a neonatal patient.
    §Includes 34 patients who did not recall the number of doses but did recall when the last dose of vaccine was received.

[^2]:    This is another in a series of occasional MMWR reports titled CDC Grand Rounds. These reports are based on grand rounds presentations at CDC on high-profile issues in public health science, practice, and policy. Information about CDC Grand Rounds is available at http://www.cdc.gov/about/grand-rounds.

[^3]:    Additional information available at http://ncc.prevent.org.
    ${ }^{9}$ Additional information available at http://www.adolescenthealth.org/clinical_care_resources/2304.htm.

[^4]:    *AFR countries: Algeria, Angola, Benin, Botswana, Burkina Faso, Burundi, Cameroon, Cape Verde, Central African Republic, Chad, Comoros, Congo, Côte d'Ivoire, Democratic Republic of Congo, Equatorial Guinea, Eritrea, Ethiopia, Gabon, Gambia, Ghana, Guinea, Guinea-Bissau, Kenya, Lesotho, Liberia, Madagascar, Malawi, Mali, Mauritania, Mauritius, Mozambique, Namibia, Niger, Nigeria, Rwanda, Sao Tome and Principe, Senegal, Seychelles, Sierra Leone, South Africa, Swaziland, Togo, Uganda, United Republic of Tanzania, Zambia, and Zimbabwe.
    ${ }^{\dagger}$ MCV1 is administered in Cape Verde, Mauritius, and Seychelles at ages 12-15 months.

[^5]:    ${ }^{\$}$ Administrative coverage is the total number of doses given to the target population, divided by the estimated target population.

    - A laboratory-confirmed case is confirmed by serology for measles-specific immunoglobulin $\mathrm{M}(\mathrm{IgM})$ antibody in a person who was not vaccinated in the previous 30 days. A case of measles is confirmed by epidemiologic linkage when linked in time and place to a laboratory-confirmed measles case in a district but lacks serologic confirmation (8).

[^6]:    ** A measles outbreak is laboratory confirmed when 3 or more laboratoryconfirmed measles IgM-positive cases occur in a health facility or district in a month (8).

[^7]:    $\dagger \dagger$ The WHO policy requires that opened vials of MCV be discarded at the end of each immunization session or immediately if potentially contaminated. The policy is available at http://www.who.int/vaccines-documents/docspdf/ www9403.pdf.

[^8]:    -: No reported cases. N: Not reportable. NN: Not Nationally Notifiable. Cum: Cumulative year-to-date counts.
     nndss/phs/files/ProvisionalNationa\%20NotifiableDiseasesSurveillanceData20100927.pdf.
     Additional information is available at http://www.cdc.gov/osels/ph_surveillance/nndss/phs/files/5yearweeklyaverage.pdf.
     influenza-associated pediatric mortality, and in 2003 for SARS-CoV. Reporting exceptions are available at http://www.cdc.gov/osels/ph_surveillance/nndss/phs/infdis.htm.
     Enteric Diseases (ArboNET Surveillance). Data for West Nile virus are available in Table II.
    ** Data for H. influenzae (all ages, all serotypes) are available in Table II.
     occurring during the 2010-11 influenza season have been reported.
    $\S \S$ The six measles cases reported for the current week were indigenous.
    ๆๆ Data for meningococcal disease (all serogroups) are available in Table II.
    
    
     for 2009 were provided by the Influenza Division, National Center for Immunization and Respiratory Diseases (NCIRD).
    $t+\dagger$ No rubella cases were reported for the current week.
    §§§ Updated weekly from reports to the Division of STD Prevention, National Center for HIV/AIDS, Viral Hepatitis, STD, and TB Prevention.
    आ $\uparrow \uparrow$ There was one case of viral hemorrhagic fever reported during week 12 of 2010 . The one case report was confirmed as lassa fever. See Table II for dengue hemorrhagic fever.

[^9]:    C.N.M.I.: Commonwealth of Northern Mariana Islands.

    U: Unavailable. -: No reported cases. N: Not reportable. NN: Not Nationally Notifiable. Cum: Cumulative year-to-date counts. Med: Median. Max: Maximum.
     nndss/phs/files/ProvisionalNationa\%20NotifiableDiseasesSurveillanceData20100927.pdf. Data for TB are displayed in Table IV, which appears quarterly.
    $\dagger$ Dengue Fever includes cases that meet criteria for Dengue Fever with hemorrhage, other clinical and unknown case classifications.
    § DHF includes cases that meet criteria for dengue shock syndrome (DSS), a more severe form of DHF.
    ${ }^{\wedge}$ Contains data reported through the National Electronic Disease Surveillance System (NEDSS).

