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Multistate Outbreak of Human *Salmonella* Typhimurium Infections Associated with Aquatic Frogs – United States, 2009

During April–July 2009, the Utah Department of Health identified five cases of *Salmonella* Typhimurium infection with indistinguishable pulsed-field gel electrophoresis (PFGE) patterns, predominantly among children. In August, CDC began a multistate outbreak investigation to determine the source of the infections. This report summarizes the results of this ongoing investigation, which, as of December 30, had identified 85 *S. Typhimurium* human isolates with the outbreak strain from 31 states. In a multistate case-control study, exposure to frogs was found to be significantly associated with illness (63% of cases versus 3% of controls; matched odds ratio [mOR] = 24.4). Among 14 case-patients who knew the type of frog, all had exposure to an exclusively aquatic frog species, the African dwarf frog. Environmental samples from aquariums containing aquatic frogs in four homes of case-patients yielded *S. Typhimurium* isolates matching the outbreak strain. Preliminary traceback information has indicated these frogs likely came from the same breeder in California. Reptiles (e.g., turtles) and amphibians (e.g., frogs) have long been recognized as *Salmonella* carriers (1,2), and three multistate outbreaks of human *Salmonella* infections associated with turtle contact have occurred since 2006 (3,4). However, this is the first reported multistate outbreak of *Salmonella* infections associated with amphibians. Educational materials aimed at preventing salmonellosis from contact with reptiles should be expanded to include amphibians, such as aquatic frogs.

The five cases identified in July 2009 by the Utah Department of Health all had isolates indistinguishable by pulsed field gel electrophoresis and were identified with *Xba*I pattern JPXX01.0177. The cases had occurred during April–July. On September 29, PulseNet, the national molecular subtyping network for foodborne disease surveillance, identified a national increase of isolates with this PFGE pattern (37 isolates from 19 states in 60 days). Multiple-locus variable-number tandem

repeat analysis (MLVA) provided additional discrimination of the outbreak strain. For this investigation, a case was defined as *S. Typhimurium* infection with illness onset on or after April 1, 2009, with 1) PFGE pattern indistinguishable from the cluster-defining pattern and 2) MLVA pattern either matching that of the main outbreak strain, or MLVA unknown.

The multistate investigation began with in-depth, open-ended interviews of salmonellosis patients regarding exposures in the week before illness onset. A total of 11 interviews with patients were conducted through November. All 11 persons reported consumption of cheese-flavored crackers; eight reported exposure to aquatic animals, including fish and aquatic frogs.

As of December 30, 2009, *S. Typhimurium* isolates with the outbreak strain had been identified in 85 patients from 31 states, extending from Massachusetts to California, with week of illness onset ranging from March 22 to November 29 (Figure 1). Among the patients, 52% were male; median age was 5 years (range: 3 weeks–54 years), and 79% were aged <10 years. Among 47 patients with outcome information available, 16 (34%) had been hospitalized; no deaths were reported.



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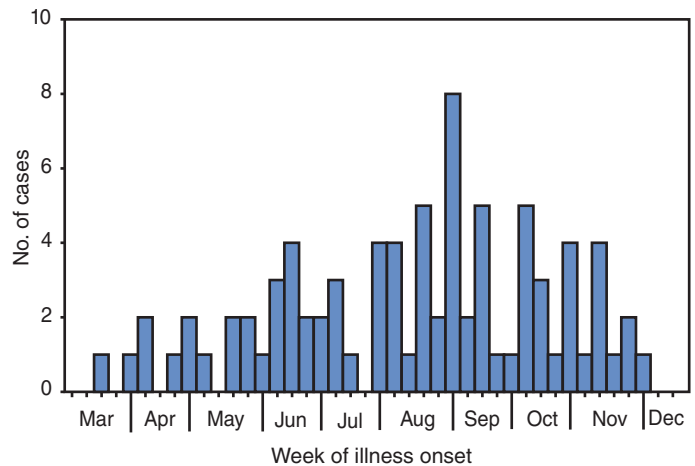
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FIGURE 1. Number (N = 83*) of cases of infection with the outbreak strain of *Salmonella* Typhimurium, by week of illness onset† — United States, 2009



* Reported as of December 30, 2009. Illnesses that began during the week of December 6 or later might not yet be reported. Two of 85 cases had no date for illness onset or isolation of organism from specimen and are not represented in this figure.

† Thirty-five illness onset dates were estimated from dates the outbreak strain was isolated from specimens.

Case-Control Study

To examine possible associations between illness and consumption of cheese crackers and exposure to aquatic pets, CDC conducted a nationwide case-control study during November 30–December 7. Patients infected with *S. Typhimurium* with the outbreak strain who had specimen collection dates after July 15 were enrolled. Controls were persons with recent infection of *Salmonella* strains other than the outbreak strain and matched to case-patients by age and county of residence. Exposure histories were collected for 7 days before illness onset for case-patients and for 7 days before interview for controls.

Investigators sought to match each case-patient with two controls. A total of 19 case-patients (18 with stool specimens and one with a urine specimen) and 31 matching controls were enrolled from 15 states. Case-patients were found to be significantly more likely than controls to have had exposure to an aquatic pet, including fish and frogs (74% of case-patients versus 35% of controls; mOR = 4.7 [95% confidence interval (CI) = 1.2–27.0]). More specifically, illness was found to be associated with exposure to frogs (63% of case-patients versus 3% of controls; mOR = 24.4 [CI = 4.0–infinity]). Exposure to fish was not statistically significant (58% of case-patients versus 29% of controls, mOR = 3.1 [CI = 0.8–14.2]). No association

* Persons interviewed included adult patients and parents or caretakers of children who were patients. They were asked: “Before this illness were you (or was your child) aware of any connection between reptile contact, such as contact with turtles or iguanas, and *Salmonella*?” and “Before this illness were you (or was your child) aware of any connection between amphibian contact, such as contact with frogs or salamanders, and *Salmonella*?”

was found between illness and consumption of any food item, including cheese crackers.

Among 39 patients interviewed as of December 9, including some of the 19 case-patients enrolled in the case-control study, 14 knew the type of frog involved in their exposure, and all 14 identified the frog as an African dwarf frog (Figure 2). When asked about potential for *Salmonella* infection, 19 of 36 (53%) patients reported awareness of association between contact with reptiles and *Salmonella* infection, but only 11 of 36 (31%) reported awareness of association with amphibians.* Among 20 patients from whom the information was available, the frog's aquarium was cleaned in the kitchen sink in the homes of six persons (30%) and in the bathroom sink in the homes of seven others (35%).

Environmental Testing and Traceback

Environmental samples taken from patient homes in four states yielded the outbreak strain of *S. Typhimurium*. The Colorado Department of Public Health obtained matched isolates from two African dwarf frogs, and from a rock and water in the aquarium containing the two frogs. The New Mexico Department of Health matched the outbreak strain with isolates from the filtration system, gravel, and water from an aquarium in a patient's home containing fish and a small water frog. The Ohio Department of Health matched the outbreak strain with isolates from a patient's deceased African dwarf frog, its water, and the lid and edge of its aquarium. The Utah Department of Health obtained matched isolates from a container used to clean African dwarf frogs in a patient's home.

Traceback investigations of frogs associated with positive environmental isolates have been completed. African dwarf frogs from the homes of the Colorado patient and the Utah patient were prizes from games at two different carnivals. The vendor who distributed the frogs to both carnivals was from Utah and identified the source as a breeder in California. Environmental sampling from the vendor's home (of aquarium filters and skin previously shed from African dwarf frogs) yielded multiple isolates matching the outbreak strain. The aquatic frog from the home of the New Mexico patient was purchased from a pet store chain, whose distributor identified the same breeder as the source for all of its aquatic frogs. The family of the Ohio patient purchased its African dwarf frog from a department store, whose distributor identified the breeder as the ultimate source of its frogs.

Environmental sampling from the breeder's California facility yielded *S. Typhimurium* isolates matching the outbreak strain. Positive samples were collected from multiple locations in the facility, including water tanks that contained African dwarf frogs and gravel in the water filtration system.

FIGURE 2. African dwarf frog



Photo/CDC

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Editorial Note: *Salmonella* illness remains a major public health problem in the United States, with an estimated 1.4 million human *Salmonella* infections, 15,000 hospitalizations, and 400 deaths annually (5). Although most *Salmonella* infections are foodborne, animal contact is an important source of human salmonellosis (6). Studies conducted during 1996–1997 determined that approximately 74,000 *Salmonella* infections each year in the United States resulted from reptile and amphibian exposure (1). The ongoing investigation described in this report documents the first multistate outbreak of *Salmonella* infections associated with amphibians. A case-control study described here found an association between infections and exposure to aquatic pet frogs such as African dwarf frogs. In addition, the outbreak strain was isolated from African dwarf frogs in two patient homes, from a container used to clean African dwarf frogs in a third home, and from water in an aquarium containing a small frog in a fourth home. Traceback investigations converged on a breeder in California; environmental sampling of the breeder's facility yielded the outbreak strain.

The most likely source of transmission in this outbreak was contact with water from the frogs' aquariums. Because African dwarf frogs are small and tend to rest at the bottom of aquariums where children have difficulty reaching them, direct

handling as the source of transmission is less likely. Amphibians are known carriers of *Salmonella* (2). African dwarf frogs are purely aquatic animals, typically <2 inches long from nose to tail stub, and sold as ornamental aquarium pets. In one study, 21% of aquarium frogs tested from 16 retailers were positive for *Salmonella* (2). Furthermore, *Salmonella* bacteria shed from frogs are readily recoverable from aquarium water where frogs are housed (2). *Salmonella* can survive for an extended period in the environment, and indirect transmission through environmental contamination might occur (1).

Although 53% of case-patients described in this report knew that *Salmonella* infection could be acquired from reptiles, including turtles, only 31% knew that *Salmonella* could be acquired from amphibians. These findings are consistent with anecdotal reports of persons buying frogs as pets as an alternative to pet turtles because of concern over salmonellosis. Human exposure to *Salmonella* from aquariums can occur in homes, but also in pet stores, retail stores, schools, or child care centers (7). Public education regarding the risk for illness associated with turtles and other reptiles should be expanded to include the risk for salmonellosis from aquatic pet frogs and other amphibians. Most notably, because children aged <5 years might be less likely to consistently practice proper hand hygiene, prevention and control measures should be emphasized for this age group.

Water contained in aquariums where frogs and other amphibians are housed is an ideal environment for *Salmonella* growth (1,2,8). Aquarium water should be changed regularly and aquariums should be cleaned frequently. However, in this investigation, in 30% of patient households, aquariums were cleaned in the kitchen sink, posing a risk for cross-contamination with food preparation areas (2). CDC has published guidelines for consumers on how to reduce the risk for *Salmonella* infection from amphibians and reptiles (available at <http://www.cdc.gov/salmonella/typh1209/index.html>). Preventive measures include washing hands thoroughly with soap and water after touching animals or cleaning aquariums. No regulations prohibit the sale of small frogs, but education measures might help reduce the risk for *Salmonella* transmission.

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What is already known on this topic?

Salmonella infection can be acquired through contact with reptiles and amphibians in homes, petting zoos, parks, child day care facilities, and other locations.

What is added by this report?

An ongoing multistate outbreak of human *Salmonella* infection has been associated with exposure to aquatic pet frogs; this is the first reported multistate salmonellosis outbreak associated with exposure to amphibians.

What are the implications for public health practice?

Longstanding salmonellosis education efforts targeting reptiles (e.g., pet turtles) should be expanded to include amphibians, and consumers should follow CDC guidelines for proper maintenance of aquariums.

Michigan, Minnesota, Missouri, Mississippi, Nebraska, Nevada, New Jersey, New Mexico, New York, Ohio, Pennsylvania, South Dakota, Tennessee, Texas, Utah, Virginia, Washington, and Wisconsin; and S Khan, Div of Foodborne, Bacterial, and Mycotic Diseases, National Center for Zoonotic, Vector-Borne, and Enteric Diseases, CDC.

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Patients Hospitalized with 2009 Pandemic Influenza A (H1N1) – New York City, May 2009

The first cases of 2009 pandemic influenza A (H1N1) in New York City occurred in April 2009, raising many questions about how best to contain the epidemic. To rapidly assess the severity of influenza illness and identify persons at highest risk for severe infection, the New York City (NYC) Department of

Health and Mental Hygiene (DOHMH) reviewed the medical charts of the first 99 patients with laboratory confirmed H1N1 admitted to any NYC hospital. The purpose of the review was to characterize the demographics of the first hospitalized patients, identify associated underlying medical conditions, describe the course and severity of disease, and examine the use of antiviral medications. This report summarizes the findings of this analysis. Approximately 60% of admitted patients were aged <18 years. The most commonly documented underlying condition was asthma, observed among 50% of patients aged <18 years and 46% of adult patients. Multiple underlying conditions were observed in 17% of patients (12% of children, 24% of adults). Patients treated with oseltamivir within 2 days of symptom onset had shorter median hospitalizations than those who did not (2 days versus 3 days [$p = 0.03$]). The findings of this assessment were used to inform immediate outbreak response measures in New York City. During such outbreaks, public education campaigns should encourage patients at high risk of severe illness to seek treatment promptly after symptom onset and should emphasize the importance of early antiviral therapy for patients with underlying risk conditions (1,2).

The subjects of the assessment were the first 99 patients with polymerase chain reaction-confirmed H1N1 influenza admitted to any NYC hospital during April 25–May 24, 2009. To conduct the assessment, DOHMH physicians used a modified abstraction form based on one developed by CDC to collect clinical and laboratory data from paper and electronic medical charts of the hospitalized patients. Reviewing physicians identified underlying conditions known to increase risk for severe influenza (1,2). Body mass index (BMI) was calculated using height and weight recorded in the chart; BMI percentile-for-age for patients aged 2–17 years was determined by using CDC growth charts (3) and the standard formula (4) was used for nonpregnant adults aged ≥ 18 years. Patients with BMI ≥ 30 were categorized as obese (4). Wilcoxon ranked-sum tests were conducted to compare median lengths of hospitalization among surviving patients (statistically significant results defined as $p < 0.05$).

Among the 99 hospitalized patients, 19 (19%) were aged <5 years, 39 (39%) were aged 5–17 years, and nine (9%) were aged ≥ 50 years. These proportions differed from the proportions for the same age groups in the general population (2007 census projections for New York City), which were 7%, 16%, and 29%, respectively, indicating that hospitalized patients were generally younger than the general population. Of the hospitalized patients, non-Hispanic Asians and whites were underrepresented compared with the NYC general population, and Hispanics were overrepresented (Table 1).

The most common presenting symptoms were fever and cough. A total of 95 patients (96%) had measured or subjective

TABLE 1. Characteristics of 99 patients hospitalized with 2009 pandemic influenza A (H1N1), New York City (NYC), May 2009

| Characteristic | Hospitalized patients (N = 99) | | NYC population* (N = 8,274,527) | | Unadjusted chi-square p-value |
|-----------------------|--------------------------------|------|---------------------------------|------|-------------------------------|
| | No. | (%) | No. | (%) | |
| Age (yrs) | | | | | |
| 0–4 | 19 | (19) | 565,649 | (7) | <0.001 |
| 5–17 | 39 | (39) | 1,330,691 | (16) | <0.001 |
| 18–49 | 32 | (32) | 3,979,785 | (48) | 0.002 |
| 50–64 | 8 | (8) | 1,385,357 | (17) | 0.021 |
| ≥ 65 | 1 | (1) | 1,013,045 | (12) | 0.001 |
| Gender | | | | | |
| Female | 45 | (45) | 4,325,484 | (52) | 0.174 |
| Male | 54 | (55) | 3,949,043 | (48) | 0.174 |
| Race/Ethnicity | | | | | |
| Asian, non-Hispanic | 5 | (5) | 971,412 | (12) | 0.039 |
| Black, non-Hispanic | 26 | (26) | 1,979,191 | (24) | 0.585 |
| Hispanic | 38 | (38) | 2,269,971 | (27) | 0.015 |
| White, non-Hispanic | 12 | (12) | 2,928,832 | (35) | <0.001 |
| Unknown | 18 | (18) | | | |

* NYC Department of Health and Mental Hygiene neighborhood population estimates, modified from U.S. Census Bureau vintage population estimates, 2007.

fever on admission; 56 (57%) had measured fever of $>100.4^{\circ}\text{F}$ (median maximum temperature: 102.2°F [39.0°C]; range: 97.0°F – 105.9°F [36.1°C – 41.1°C]) and 39 (39%) had subjective fever. A total of 89 (90%) reported cough. Additional presenting symptoms reported included runny nose (42%), shortness of breath (34%), headache (33%), vomiting (32%), and myalgias (31%). Elevated heart and respiratory rates for age were observed in 63 (64%) and 48 (48%) of patients, respectively. Abnormally high (20 patients) and low (seven patients) white blood cell counts were observed in 27 patients (27%). A total of 87 patients (88%) received at least one chest radiograph, of which 38 (44%) were read as abnormal. The most common abnormalities were single lower lobe infiltrates (24%), interstitial infiltrates (18%), and multilobar infiltrate (8%). Complications observed during hospitalizations included acute respiratory distress syndrome (ARDS) in three patients (3%), shock in three (3%), sepsis in five (5%), liver impairment in five (5%), and renal failure in five (5%).

Underlying medical conditions known to increase the risk of severe influenza or influenza complications (1,2) were observed in 73 patients (74%), including 37 children (64%) and 36 adults (88%), and 17 patients (17%), including seven children (12%) and 10 adults (24%), had more than one underlying condition (Table 2). The most commonly documented underlying condition was history of asthma, recorded for 29 patients aged <18 years (50%) and 19 adults (46%). Also recorded were chronic metabolic disorders including diabetes (11 patients [11%]), neurological disorders including neuromuscular disorders, seizure disorders, or cognitive dysfunction (10 patients [10%]), and immunosuppressive conditions, including HIV or medication-related conditions (five patients [5%]). Among

TABLE 2. Underlying conditions among 99 patients hospitalized with 2009 pandemic influenza A (H1N1), by age, New York City, May 2009

| Condition | All ages (N = 99) | | <18 yrs (n = 58) | | ≥18 yrs (n = 41) | |
|---|----------------------|-------------|---------------------|-------------|---------------------|-------------|
| | No. | (%) | No. | (%) | No. | (%) |
| No underlying conditions associated with severe influenza | 26 | (26) | 21 | (36) | 5 | (12) |
| Single underlying condition associated with severe influenza | 56 | (57) | 30 | (52) | 26 | (63) |
| Asthma, ever diagnosed | 36 | (36) | 23 | (40) | 13 | (32) |
| Neurologic disorder* | 4 | (4) | 1 | (2) | 3 | (7) |
| Chronic metabolic disorder | 5 | (5) | 1 | (2) | 4 | (10) |
| Chronic cardiovascular disease (excluding hypertension) | 1 | (1) | 1 | (2) | 0 | (0) |
| Hemoglobinopathy, such as sickle cell disease | 2 | (2) | 2 | (3) | 0 | (0) |
| Renal disease | 2 | (2) | 1 | (2) | 1 | (2) |
| Immunosuppressive condition | 2 | (2) | 1 | (2) | 1 | (2) |
| Chronic lung disease | 1 | (1) | 0 | (0) | 1 | (2) |
| Pregnancy† | 3 | (3) | 0 | (0) | 3 | (7) |
| Multiple underlying conditions | 17 | (17) | 7 | (12) | 10 | (24) |
| Asthma plus at least one other underlying condition‡ | 12 | (12) | 6 | (10) | 6 | (15) |
| Chronic metabolic disorder plus one other underlying condition¶ | 4 | (4) | 0 | (0) | 4 | (10) |
| Renal disease plus immunosuppressive condition | 1 | (1) | 1 | (2) | 0 | (0) |
| Weight (body mass index [BMI])** | | | | | | |
| Underweight (0 to <18.5) | 5 | (10) | 5 | (18) | 0 | (0) |
| Normal (18.5 to <25.0) | 13 | (27) | 11 | (39) | 2 | (10) |
| Overweight (25.0 to <30.0) | 13 | (27) | 7 | (25) | 6 | (30) |
| Obese (30.0 to 40.0) | 13 | (27) | 5 | (18) | 8 | (40) |
| Morbidly obese (>40.0) | 4 | (8) | 0 | (0) | 4 | (20) |

* Neurologic disorders include neuromuscular disorders, seizure disorders, and cognitive dysfunction.

† Currently or within 10 days after delivery.

‡ Other conditions include neurologic disorders, chronic metabolic disorders, chronic cardiovascular disease, hemoglobinopathy, immunosuppressive conditions, renal disease, and pregnancy.

¶ Other conditions include neurologic disorders, chronic cardiovascular disease, and immunosuppressive conditions, excluding asthma.

** Among 48 patients for whom BMI was available. BMI was calculated using height and weight recorded in the chart, using CDC growth charts to determine BMI percentile-for-age for patients aged 2–17 years, CDC. Overweight and obesity: defining childhood overweight and obesity (available at <http://www.cdc.gov/obesity/childhood/defining.html>) and using the standard formula for nonpregnant adults (available at <http://www.cdc.gov/obesity/defining.html>).

the 24 female patients aged 15–49 years at the time of hospital admission, seven (29%) were pregnant or within 10 days after delivery, of whom four had additional underlying conditions. Among the 20 adults and 28 patients aged <18 years for whom information was available, 12 adults (60%) and five patients aged <18 years (18%) were obese. Underlying conditions (1,2) were observed in 11 of the obese adults and four of the obese patients aged <18 years.

Among 24 patients (24%) admitted to the intensive care unit (ICU), seven (29%) required mechanical ventilation. Median age of ICU patients was 19 years (range: 0–55 years). Patients admitted to the ICU had longer median lengths of stay (4 days, range: 1–29 days) compared with other hospitalized patients.

Four patients (4%) died. Three of those patients were obese. Underlying conditions among the four included asthma (two) and Down syndrome (one). One patient died on the day of admission, two other patients died within 4 days of admission, and the fourth patient died 41 days after admission.

Median length of time from symptom onset to admission was 2 days (range: 0–14). Among the 95 patients who survived

their hospitalization, a difference of 1 day for median length of hospitalization was observed for children compared with adults (2 days [range: 0–20] vs. 3 days [range: 1–29]; $p = 0.01$).

Antiviral treatment with oseltamivir was received by 76 patients (77%); three (4%) initiated treatment before hospitalization. Of the 76 patients who received antivirals, 36 (47%) began treatment within 2 days of symptom onset. Median time from onset of illness to treatment was 3 days (range: <24 hrs to 15 days). Patients who initiated antiviral treatment within the 2 days recommended by CDC (1) had shorter lengths of stay than those who initiated treatment later (median: 2 days versus 3 days; $p = 0.03$).

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Editorial Note: This review was conducted to assess rapidly, in the first days of the NYC H1N1 outbreak, the characteristics and severity of illness in hospitalized patients in New York City. All data were collected within 2 weeks and results were

available quickly to DOHMH to inform outbreak response measures. A key finding was that the first hospitalized patients in New York City were in younger age groups (91% of these patients were aged <50 years, and 59% were aged <18 years). Only one patient was aged ≥65 years, the most commonly hospitalized group for seasonal influenza (2). These findings were consistent with other descriptions of hospitalized persons with H1N1 (5), and contributed to a growing body of national epidemiologic data that later informed ACIP recommendations (6) regarding target groups for the forthcoming monovalent H1N1 vaccine.

The finding that prompt treatment with antiviral medications was associated with a shorter length of hospitalization did not definitively establish that more rapid treatment resulted in shorter hospitalization, in part because of a small sample size and possible confounding with other risk factors. However, the finding, along with CDC guidance concerning treatment of H1N1 influenza, generally supported DOHMH's public health messages that persons with underlying conditions should seek care as early as possible. This message was disseminated via press releases to the public, information published on the DOHMH website, and through electronic health alerts sent to NYC health-care providers.

Asthma was the most commonly noted underlying condition among H1N1 patients, observed for 50% of patients aged <18 years and 49% of adult patients (age adjusted). These proportions are higher than rates of asthma among NYC residents, as reported in the 2003 and 2007 NYC Community Health Survey (CHS) (7), in which 17% of children aged <18 years and 13% of adults were reported to have a history of asthma. Although the ascertainment methods for asthma history were different for the hospital assessment and the CHS, the finding suggested that asthma might be playing a role in the earliest hospitalizations for H1N1 influenza. Similarly, obesity was more common among H1N1 patients (56% of adults [age adjusted] where information was available) than NYC residents (22% of adult NYC residents on the 2007 CHS).

Although BMI was available for only 59% of patients aged >2 years, 92% of obese adults and 80% of obese patients aged <18 years had an underlying condition, potentially increasing the risk for severe influenza or complications. In addition, three of the four fatalities occurred in obese individuals. Whether obesity itself contributes to the risk of acquiring H1N1 influenza or to the risk of severe disease or death remains unclear but has been a focus of investigation during the H1N1 pandemic (8,9). To aid in future studies, all patients hospitalized with H1N1 influenza should have an objective measure of height and weight documented in their medical record.

What is already known on this topic?

In the early days of the 2009 pandemic influenza A (H1N1) outbreak, little was known regarding the risk factors or expected clinical course of H1N1 infection among hospitalized patients.

What is added by this report?

Detailed examination of hospitalization and patient outcome data during the initial outbreak of H1N1 influenza in New York City showed that 56% of adult patients hospitalized for H1N1 were obese, 92% of obese patients had other underlying medical conditions, and suggested that prompt antiviral therapy after symptom onset might be associated with shorter length of hospitalization.

What are the implications for public health practice?

This rapid assessment led to a greater understanding of the disease; results were used by New York City health authorities when issuing guidance to the public and providing information and health alerts to New York City health-care providers.

The findings in the report are subject to at least three limitations. First, during the review period some hospitalized patients might have had H1N1 but were not tested or confirmed, resulting in underreporting of cases. Second, despite the use of a standardized abstraction tool, incomplete information in the medical charts might have led to underreporting of some underlying illnesses and limited the ability to study their role in the development of severe influenza. Finally, patients hospitalized in the first weeks of the outbreak likely do not represent patients later hospitalized with H1N1 (>900 in New York City as of July 2009, after which surveillance was limited to sentinel hospitals and passive reporting).

Collecting data from the medical charts of hospitalized patients during the initial aspects of such epidemics can provide information useful to health departments for policy making or education or prevention campaigns, but the utility of such surveys must be balanced with the extensive resources required to collect such information. Currently, DOHMH is collecting clinical and laboratory data from patients with H1N1 infection at sentinel hospital sites. In particular, efforts are underway to collect height and weight to evaluate whether obesity is an independent risk factor for hospitalization. Public education campaigns should encourage patients at high risk of severe illness to be vaccinated, and should emphasize to medical providers the importance of early antiviral therapy for children aged <2 years and patients with underlying risk conditions (1).

Acknowledgments

This report is based, in part, on contributions by JM Norton, PhD, and S Lim, MS, and the DOHMH 2009 Pandemic Influenza

A (H1N1) Chart Abstraction Team, New York City Department of Health and Mental Hygiene.

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Outbreak of 2009 Pandemic Influenza A (H1N1) at a School — Hawaii, May 2009

The first cases of 2009 H1N1 pandemic influenza were reported by CDC on April 21, 2009 (1). Twenty-one days later, on May 12, the Hawaii Department of Health (HDOH) confirmed two pandemic H1N1 cases from the same school in Oahu. One case was in an 8th-grade student and the other in a 3rd-grade teacher. HDOH initiated an investigation to determine the extent of transmission at the school and among household contacts, and to help establish appropriate control strategies. This report summarizes the results of the investigation, which detected an outbreak of pandemic H1N1 cases at the school over the ensuing 3 weeks. A total of 16 cases were identified; all patients recovered with no hospitalizations or deaths. HDOH, the school, and the Hawaii Department of Education (HDOE) instituted an education campaign asking students and employees to stay home if ill. After consulting with HDOH, school officials decided not to close the school;

the outbreak ended after 19 days. This outbreak represented the first documented community transmission of pandemic H1N1 virus in Hawaii. The investigation contributed to the early understanding of the epidemiology of H1N1 influenza in Hawaii (e.g., that risk factors for infection would not be restricted to mainland or foreign travel) and the likely role that endemic transmission would play. Influenza activity in schools can serve to inform local public health officials of changing disease patterns, especially early in an epidemic.

HDOH conducts routine, year-round influenza surveillance, including participation in national laboratory surveillance, an outpatient influenza-like illness (ILI) surveillance network (ILINet), and pneumonia and influenza mortality surveillance, and uses the ILI case definition (i.e., illness with fever (temperature of $\geq 100^{\circ}\text{F}$ [$\geq 37.8^{\circ}\text{C}$]) and cough or sore throat in the absence of another known cause) (2). In Hawaii, laboratory-confirmed influenza and influenza outbreaks are reportable. Schools are required to report when absentee rates attributable to any illness exceed 10% of the student body. The majority of school reporting has been for ILI-related absenteeism, so HDOH incorporates school reporting for ILI-related absenteeism into influenza surveillance. During early May 2009, Hawaii sentinel physicians reported that the ILI rate in Hawaii was higher than the national rate (2.4% versus 1.7%, respectively) (3). Hawaii identified its first confirmed case of pandemic H1N1 on April 29, 2009. HDOH subsequently requested that all persons with ILI symptoms seek medical care and health-care providers test all such patients for influenza by collecting nasopharyngeal specimens for reverse transcription–polymerase chain reaction (RT-PCR). Positive specimens were submitted to HDOH for influenza subtyping by RT-PCR using CDC-approved primers. HDOH advised the public that persons experiencing symptoms consistent with influenza stay home from school/work for 7 days or 24 hours after fever resolution, whichever was longer (consistent with CDC recommendations at that time). A total of 42 confirmed cases, all associated with U.S. mainland travel, were identified before the school outbreak.

The school, a public Hawaiian immersion school enrolling 353 day students, comprises two adjacent campuses, one for K–8th grades (enrollment 235) and the other for 9th–12th grades (enrollment 118). Students reside in communities throughout Oahu, most riding school buses to campus. A school assembly is held twice a week. All students share one library, computer laboratory, and cafeteria. Only middle school students (7th and 8th grades) share common classes and participate together in daily athletics.

The initial two school cases of pandemic H1N1 were identified in an 8th-grade student and a 3rd-grade teacher on May 12. Their ILI onsets were May 1 and 7, respectively. The source

of their infections is unknown; neither traveled out-of-state in the 10 days before onset. HDOH immediately alerted the HDOE superintendent. The 8th-grade student experienced ILI onset on May 1 and continued attending school. Although his symptoms appeared to improve after 2 days, he reported fever (102.0°F [38.9°C]) recurrence 4 days after onset. A nasopharyngeal specimen was obtained for influenza RT-PCR testing on May 8. The 3rd-grade teacher visited her physician on May 8 (1 day after onset), and a nasopharyngeal specimen was obtained for influenza RT-PCR testing; she did not attend school after illness onset during school hours but did go in to school on a weekend day when school was not in session. Both specimens were reported positive for 2009 pandemic influenza A (H1N1) virus on May 12. On May 13, HDOH met with school staff to discuss mitigation options of school closure or continued self-isolation of other possible cases. The same day, HDOE provided students with a letter informing parents of the outbreak. On May 14, HDOH issued a press release reiterating the recommendation to stay home if ill. Per HDOH recommendations, HDOE decided to close the school only if a marked increase in hospitalizations or influenza-associated complications occurred or if school operations were affected by absenteeism. Neither of these conditions were met; the school did not close during this outbreak.

On May 12, HDOH launched an investigation to determine the sources of infection and extent of transmission. Confirmed cases, defined by laboratory identification of 2009 pandemic influenza A (H1N1) virus RNA by RT-PCR from a nasopharyngeal specimen, were ascertained by active and passive surveillance. HDOH interviewed the two initial patients and the parents of all students in the teacher's class. Continuing daily through June 4, the end of the school year, students were questioned about ILI symptoms, and the school health aide reported these students to HDOH. HDOH telephoned parents of ill students each day to identify any household contacts experiencing ILI symptoms and called through 7 days after onset of the last identified case in each household. All persons with ILI illness were interviewed and asked to undergo influenza testing. Interviewers used a standard questionnaire to collect demographic information, symptoms, medical history, clinical management information, and outcomes data. HDOH performed nasopharyngeal swabs for any person without health-care access.

Passive surveillance comprised daily review of HDOH pandemic H1N1 laboratory results. HDOH interviewed any person with confirmed pandemic H1N1 infection and a school affiliation. Household contacts with ILI also were interviewed and asked to undergo influenza testing.

During May 12–26, a total of 16 confirmed cases affiliated with the school were identified; cases occurred in 10 students,

one 3rd-grade teacher, and five household contacts of students (Table). The overall attack rate for confirmed cases among students was 2.8% (elementary school, 0.6%; middle school, 10.2%; and high school, 2.5%). Illness onset dates ranged from May 1 through May 17 (Figure). Median duration of reported fever was 6 days (range: 1–7 days). All persons recovered with no hospitalizations or deaths. Students with confirmed illness resided in six (18%) of 33 postal code areas on the island of Oahu. None traveled out of state in the 10 days before illness onset. Seven (44%) received seasonal influenza vaccine during the period October 2008–March 2009. Seven (44%) received antiviral medications.

HDOH reviewed student absentee rates before and during the outbreak. Overall absenteeism rates exceeded 10% on seven occasions during the 2 weeks before confirmation of the first case (Figure). Median daily absenteeism during April 23–May 13 was 13% (range: 7%–25%) for the entire school.

TABLE. Characteristics of 16 patients with confirmed 2009 pandemic influenza A (H1N1)* associated with a school outbreak — Hawaii, April 21–May 26, 2009

| Characteristic† | No. | (%)§ |
|--|-----|-------|
| Race | | |
| Native Hawaiian | 8 | (50) |
| Multiple race | 8 | (50) |
| Sex | | |
| Female | 10 | (63) |
| Male | 6 | (38) |
| School affiliation | | |
| Elementary school student (3rd grade) | 1 | (6) |
| Middle school student (7th and 8th grades) | 6 | (38) |
| High school student (9th, 10th, 11th grades) | 3 | (19) |
| Teacher (3rd grade) | 1 | (6) |
| Household contact of a student | 5 | (31) |
| Signs and symptoms | | |
| Cough | 16 | (100) |
| Fever¶ | 15 | (94) |
| Headache | 15 | (94) |
| Rhinorrhea | 15 | (94) |
| Pharyngitis | 12 | (75) |
| Fatigue | 11 | (69) |
| Chills | 10 | (63) |
| Myalgias | 10 | (63) |
| Diarrhea | 3 | (19) |
| Arthralgia | 3 | (19) |
| Conjunctivitis | 2 | (13) |
| Dizziness | 2 | (13) |
| Dyspnea | 1 | (6) |

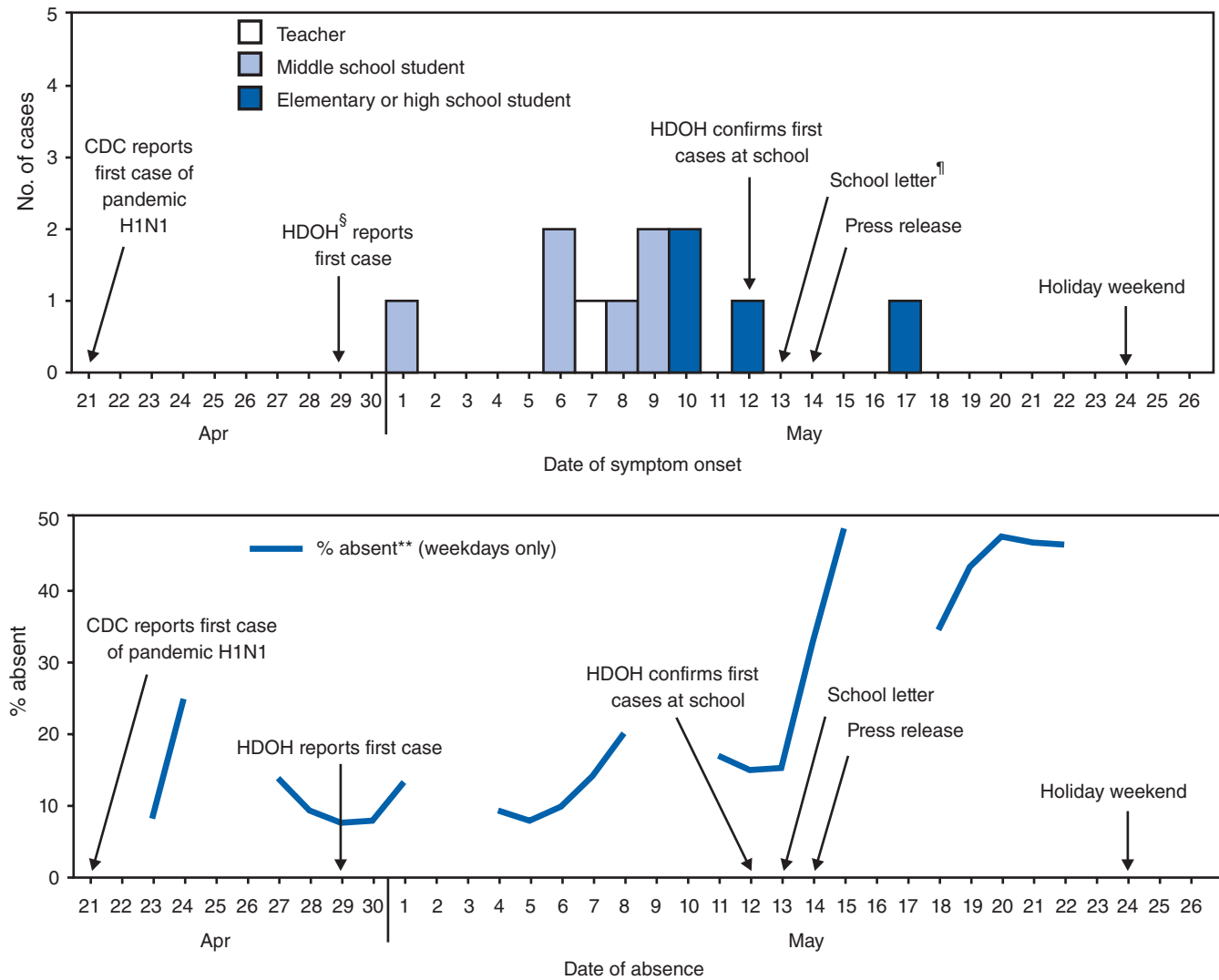
* Defined by laboratory identification of 2009 pandemic influenza A (H1N1) virus RNA by reverse transcription–polymerase chain reaction (RT-PCR) from a nasopharyngeal specimen

† Median age was 14 years (range: 8–54 years).

§ Totals for each category might not add to 100% because categories are not mutually exclusive or because of rounding.

¶ Subjective or measured (>100.0°F [>37.8°C]). Five confirmed cases had documented fever; median temperature: 102.5°F (39.2°C) (range: 101.2–104.2°F [38.4–40.1°C]). One case without documented or subjective fever was laboratory confirmed.

FIGURE. Number of confirmed cases of 2009 pandemic influenza A (H1N1)* and total percentage of students who were absent during a school-associated outbreak, by date of symptom onset† and date of absence — Hawaii, April 21–May 26, 2009



* Defined by laboratory identification of 2009 H1N1 pandemic influenza virus RNA by reverse transcription–polymerase chain reaction from a nasopharyngeal specimen.
 † Onset dates for five cases among household contacts not shown.
 § Hawaii Department of Health.
 ¶ Several parents kept healthy students home after the school letter went out on May 13, according to reports from school staff.
 ** Represents total percentage absent for the entire school (N = 353).

This increased to 35% (range: 16%–49%) during the 2 weeks after schoolwide outbreak notification. The proportion of these absences attributable to ILI was unknown because reasons for absence were not collected. HDOH had not been notified of the increased school absenteeism before the recognition of the initial two laboratory-confirmed cases.

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Editorial Note: This school outbreak provided the first evidence of community transmission of pandemic H1N1 influenza in Hawaii. The source of infection for the initial cases was never identified, and whether undetected infections occurred at the school before the initial cases were identified is unknown. Student absenteeism data suggest possible disease

activity before May 13, although this cannot be linked directly to ILI. The fact that the middle school students experienced the highest attack rate (10.2%) among all groups suggests that shared classrooms and activities among this group contributed to transmission.

In accordance with CDC guidance at the time (4), HDOH did not recommend school closure because routine school operations remained unaffected, the percentage of confirmed ill students was low, and recognized illnesses did not require hospitalization. Based on an estimated incubation period of 1–7 days for pandemic H1N1 infection (5), most cases in this outbreak resulted from exposure before HDOH initiated its investigation on May 12. No additional confirmed cases associated with this school were identified from May 19 to the scheduled summer closure on June 4, suggesting that transmission had ended. Asking students and staff to stay home if experiencing ILI symptoms possibly led to the increased absenteeism rate after May 13 and might have facilitated ending the outbreak.

The investigation of this school outbreak found pandemic H1N1 infections among residents of different communities without history of travel and provided the first clear evidence of community transmission within Hawaii. Early in a pandemic, schools with a wide geographic catchment area might serve either to accelerate spread because students (especially young school children) are a well-documented source of community influenza transmission (6) or represent markers for more widespread community transmission. Outbreaks in such widely representative schools might alert public health officials of a change in epidemiology and therefore warrant adjusting surveillance practices. In Toulouse District, France, a school outbreak of pandemic H1N1 occurred in June 2009 among students without history of travel, which led public health officials to broaden their surveillance efforts and incorporate communitywide sentinel sites (7). Because of this school outbreak, HDOH recognized local transmission would likely contribute substantially to the epidemiology of pandemic H1N1 in Hawaii and alerted the public that mainland or foreign travel were no longer the only risk factors.

The findings in this report are subject to at least three limitations. First, the investigation likely underestimated the actual case number because it relied on ILI reports from school staff to initiate case finding and interviewing; however, no cases were identified after May 26 by the school or laboratory reporting. Second, this investigation could not identify additional cases among school-associated persons who had ILI onset outside of school, did not seek medical care or receive testing, and whose illnesses were not reported to HDOH. Finally, some household

What is already known on this topic?

School-aged children have some of the highest reported rates of seasonal influenza infection, and early in the 2009 influenza pandemic A (H1N1), schools were among the first locations to experience large outbreaks.

What is added by this report?

This report describes the first school-associated outbreak in Hawaii, which was the first evidence for endemic transmission of H1N1 virus in the state.

What are the implications for public health practice?

Investigation of the outbreak helped the Hawaii Department of Health recognize the role that endemic transmission would play during the H1N1 epidemic in Hawaii. The epidemiology of the disease in schools can inform local public health officials of changing disease patterns, especially early in an epidemic.

contacts with ILI were not tested because they were identified more than 7 days after illness onset (8).

Health authorities, in close collaboration with HDOE and school staff, conveyed unified advice for school exclusion of persons experiencing ILI, which might have helped contain this outbreak. Clear, ongoing communication between education and public health authorities is especially important because guidance on school closures and other policies are updated and revised regularly. For example, since the time of this investigation, the period a person should stay out of school/work if ill has been revised to 24 hours after fever resolution without antipyretics (9). Current CDC guidance for responding to influenza in K–12 grade schools during the 2009–10 school year includes ensuring students and staff stay home when ill, separating ill persons if they become ill at school, proper hand hygiene and respiratory etiquette, and routine cleaning of common areas (10). The guidance also provides a framework for when to consider closing schools.

Acknowledgments

This report is based, in part, on contributions by Hawaii clinical commercial laboratories and the Hawaii Dept of Education.

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Announcement

National Influenza Vaccination Week – January 10–16, 2010

Each year during National Influenza Vaccination Week, the importance of influenza vaccination and the need for persons to receive vaccination throughout the entire October–May influenza season are highlighted. Influenza vaccination is the best way to prevent influenza and its severe complications.

This influenza season, with circulation of the 2009 pandemic influenza A (H1N1) virus, influenza activity early in the traditional season was much higher than normal. As of mid-November, an estimated 47 million persons in the United States had been infected with the H1N1 virus, resulting in an estimated 213,000 hospitalizations and 9,820 deaths (1). In contrast with previous influenza seasons, through November 14, approximately 87% of influenza-related deaths from the H1N1 virus had occurred among persons aged <65 years (1). Thus far this season, H1N1 viruses have predominated, but future waves of influenza activity might occur from either H1N1 or regular seasonal influenza viruses.

Influenza A (H1N1) 2009 monovalent vaccine is the best way to protect against H1N1 (2). As of December 29, 2009, approximately 116 million doses of vaccine had become available for distribution since vaccine shipping began in October. Most jurisdictions now are making vaccine available to all persons. H1N1 vaccination continues to be particularly important for pregnant women, household contacts and caregivers of infants aged <6 months, health-care and emergency medical services personnel, all persons aged 6 months–24 years, and persons aged 25–64 years with medical conditions associated with higher risk for complications from influenza. In addition, as in every influenza season, persons who want to reduce their

risk for seasonal influenza should receive the seasonal influenza vaccine (3). However, nearly all seasonal influenza vaccine has been distributed, and supplies are now limited.

Throughout the week of January 10–16, 2010, the Department of Health and Human Services, CDC, and other agencies will be highlighting the importance of influenza vaccination. On January 11, events will focus on communicating to the general public and health-care workers about the importance of influenza vaccination. January 12 events will highlight the importance of H1N1 vaccination for persons with chronic health conditions (particularly those aged 25–64 years) that put them at increased risk for serious influenza-related complications. On January 13, emphasis will be focused on pregnant women, children, and caregivers of infants aged <6 months. January 14 events will focus on young adults and college students, and January 15 events will highlight information for seniors.

Posters and other influenza educational materials are available to download for local printing and distribution at http://www.cdc.gov/flu/NIVW/daily_materials.htm. Other influenza-related tools and information for health-care professionals and patients are available at <http://www.flu.gov>.

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Announcement

National Birth Defects Prevention Month and Folic Acid Awareness Week

January is National Birth Defects Prevention Month. Birth defects affect approximately one in 33 newborns and are a leading cause of infant mortality in the United States (1,2). Lifetime care for all infants born in a single year with one or more of 17 severe birth defects has been estimated at \$6 billion (3).

This year, the focus is on diabetes and birth defects. Diabetes is often diagnosed in women during their childbearing years and can affect the health of both the mother and her unborn child. Poor control of diabetes in a woman who is pregnant increases the chances for birth defects and other problems for the baby (4). Proper health care before and during pregnancy can help prevent birth defects associated with risks, including

diabetes, and other poor outcomes, such as miscarriage or stillbirth.

January 4–10 is National Folic Acid Awareness Week. Consuming 400 μg of folic acid daily, before and during early pregnancy, will help reduce a woman's risk for pregnancy affected by a neural tube defect (5). Health-care professionals should encourage women who can become pregnant to consume folic acid daily through a vitamin supplement or enriched foods. Additional information regarding prevention of birth defects is available at <http://www.cdc.gov/ncbddd>.

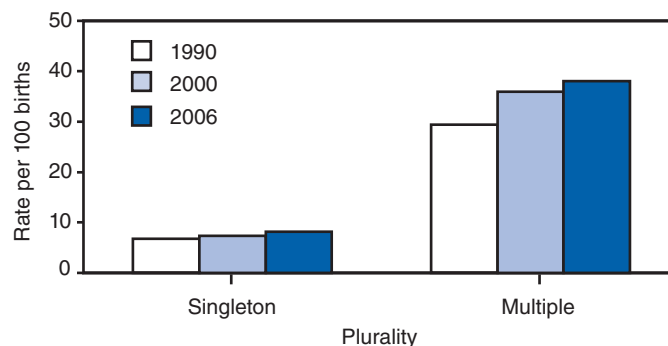
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QuickStats

FROM THE NATIONAL CENTER FOR HEALTH STATISTICS

Late Preterm Birth Rates,* by Plurality — United States, 1990, 2000, and 2006



* Births at 34–36 completed weeks' gestation per 100 total births.

During 1990–2006, most of the increase in overall preterm birth rates was attributed to late preterm births. During this period, the late preterm birth rate for singleton births increased 19%, from 6.8% to 8.1%; the late preterm birth rate for multiple births increased 30%, from 29.3% to 38.1%. In 2006, multiple births were nearly four times more likely to occur late preterm than singleton births. Although at less risk than infants born before 34 weeks' gestation, late preterm infants are at higher risk than those born at term (i.e., at 39–41 weeks' gestation) for complications at birth, long-term neurodevelopmental problems, and death in the first year of life.

SOURCES: Martin JA, Kirmeyer S, Osterman M, Sheperd RA. Born a bit too early: recent trends in late preterm births. NCHS data brief, no 24. Hyattsville, MD: US Department of Health and Human Services, National Center for Health Statistics; 2009. Available at <http://www.cdc.gov/nchs/data/databriefs/db24.pdf>. Accessed January 5, 2010.

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TABLE I. Provisional cases of infrequently reported notifiable diseases (<1,000 cases reported during the preceding year) — United States, week ending December 26, 2009 (51st week)*

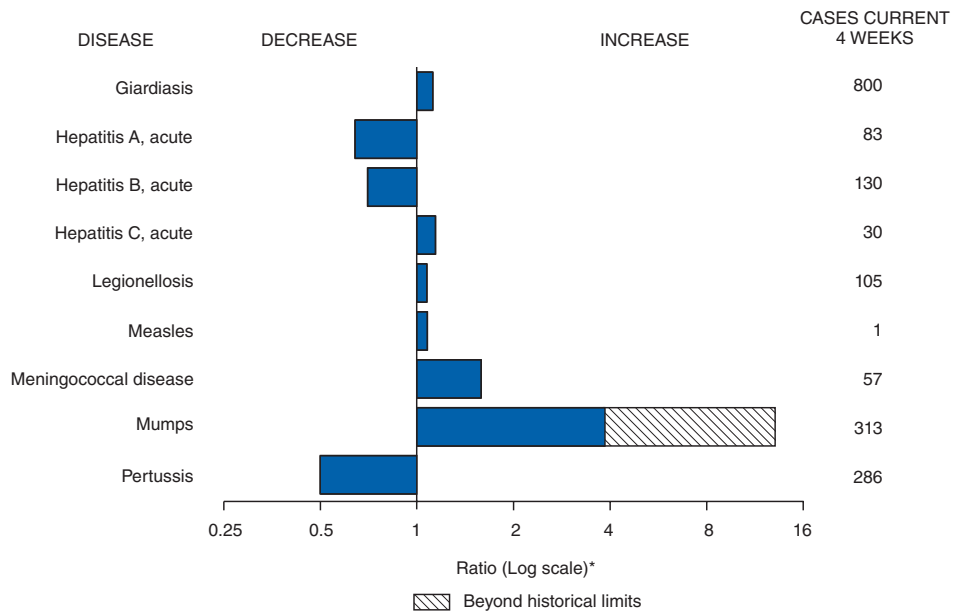
| Disease | Current week | Cum 2009 | 5-year weekly average† | Total cases reported for previous years | | | | | States reporting cases during current week (No.) |
|--|--------------|----------|------------------------|---|------|-------|------|------|--|
| | | | | 2008 | 2007 | 2006 | 2005 | 2004 | |
| Anthrax | — | — | — | — | 1 | 1 | — | — | |
| Botulism: | | | | | | | | | |
| foodborne | — | 12 | 1 | 17 | 32 | 20 | 19 | 16 | |
| infant | 1 | 56 | 2 | 109 | 85 | 97 | 85 | 87 | OH (1) |
| other (wound and unspecified) | 1 | 22 | 1 | 19 | 27 | 48 | 31 | 30 | WA (1) |
| Brucellosis | 4 | 97 | 3 | 80 | 131 | 121 | 120 | 114 | NC (1), FL (2), CA (1) |
| Chancroid | — | 23 | 1 | 25 | 23 | 33 | 17 | 30 | |
| Cholera | — | 8 | 0 | 5 | 7 | 9 | 8 | 6 | |
| Cyclosporiasis§ | 1 | 121 | 2 | 139 | 93 | 137 | 543 | 160 | NC (1) |
| Diphtheria | — | — | — | — | — | — | — | — | |
| Domestic arboviral diseases§,¶: | | | | | | | | | |
| California serogroup | — | 39 | 0 | 62 | 55 | 67 | 80 | 112 | |
| eastern equine | — | 4 | 0 | 4 | 4 | 8 | 21 | 6 | |
| Powassan | — | 1 | — | 2 | 7 | 1 | 1 | 1 | |
| St. Louis | — | 10 | — | 13 | 9 | 10 | 13 | 12 | |
| western equine | — | — | — | — | — | — | — | — | |
| Ehrlichiosis/Anaplasmosis§,**: | | | | | | | | | |
| <i>Ehrlichia chaffeensis</i> | 5 | 789 | 20 | 1,137 | 828 | 578 | 506 | 338 | OH (1), MD (1), NC (3) |
| <i>Ehrlichia ewingii</i> | — | 6 | — | 9 | — | — | — | — | |
| <i>Anaplasma phagocytophilum</i> | 5 | 683 | 32 | 1,026 | 834 | 646 | 786 | 537 | ME (1), MN (4) |
| undetermined | — | 116 | 2 | 180 | 337 | 231 | 112 | 59 | |
| <i>Haemophilus influenzae</i> †† | | | | | | | | | |
| invasive disease (age <5 yrs): | | | | | | | | | |
| serotype b | — | 25 | 1 | 30 | 22 | 29 | 9 | 19 | |
| nonserotype b | 1 | 201 | 5 | 244 | 199 | 175 | 135 | 135 | MN (1) |
| unknown serotype | 6 | 213 | 5 | 163 | 180 | 179 | 217 | 177 | OH (1), MN (1), GA (1), TN (1), ID (1), NV (1) |
| Hansen disease§ | — | 57 | 2 | 80 | 101 | 66 | 87 | 105 | |
| Hantavirus pulmonary syndrome§ | — | 12 | 1 | 18 | 32 | 40 | 26 | 24 | |
| Hemolytic uremic syndrome, postdiarrheal§ | 3 | 206 | 8 | 330 | 292 | 288 | 221 | 200 | NC (1), TN (1), CA (1) |
| Hepatitis C viral, acute | 6 | 810 | 24 | 878 | 845 | 766 | 652 | 720 | NY (1), FL (1), TN (1), OK (1), WA (1), CA (1) |
| HIV infection, pediatric (age <13 years)§§ | — | — | 2 | — | — | — | 380 | 436 | |
| Influenza-associated pediatric mortality§,¶¶ | 4 | 356 | 0 | 90 | 77 | 43 | 45 | — | MA (1), FL (2), TX (1) |
| Listeriosis | 7 | 739 | 21 | 759 | 808 | 884 | 896 | 753 | NY (1), NC (1), KY (1), OK (1), WA (1), CA (2) |
| Measles*** | — | 61 | 1 | 140 | 43 | 55 | 66 | 37 | |
| Meningococcal disease, invasive†††: | | | | | | | | | |
| A, C, Y, and W-135 | 4 | 261 | 7 | 330 | 325 | 318 | 297 | — | MN (1), NC (2), TN (1) |
| serogroup B | 4 | 140 | 5 | 188 | 167 | 193 | 156 | — | MN (1), NC (3) |
| other serogroup | — | 21 | 1 | 38 | 35 | 32 | 27 | — | |
| unknown serogroup | 11 | 450 | 17 | 616 | 550 | 651 | 765 | — | NY (1), OH (1), NC (5), CA (4) |
| Mumps | 36 | 977 | 19 | 454 | 800 | 6,584 | 314 | 258 | NY (36) |
| Novel influenza A virus infections | — | §§§ | 0 | 2 | 4 | N | N | N | |
| Plague | — | 7 | 0 | 3 | 7 | 17 | 8 | 3 | |
| Poliomyelitis, paralytic | — | — | — | — | — | — | 1 | — | |
| Polio virus infection, nonparalytic§ | — | — | — | — | — | N | N | N | |
| Psittacosis§ | — | 8 | 0 | 8 | 12 | 21 | 16 | 12 | |
| Q fever total§,¶¶¶: | 3 | 84 | 3 | 124 | 171 | 169 | 136 | 70 | |
| acute | 2 | 70 | 2 | 110 | — | — | — | — | MO (1), NC (1) |
| chronic | 1 | 14 | — | 14 | — | — | — | — | KY (1) |
| Rabies, human | — | 4 | 0 | 2 | 1 | 3 | 2 | 7 | |
| Rubella**** | — | 4 | 0 | 16 | 12 | 11 | 11 | 10 | |
| Rubella, congenital syndrome | — | 1 | — | — | — | 1 | 1 | — | |
| SARS-CoV§,†††† | — | — | — | — | — | — | — | — | |
| Smallpox§ | — | — | — | — | — | — | — | — | |
| Streptococcal toxic-shock syndrome§ | — | 124 | 4 | 157 | 132 | 125 | 129 | 132 | |
| Syphilis, congenital (age <1 yr) | — | 251 | 9 | 434 | 430 | 349 | 329 | 353 | |
| Tetanus | — | 12 | 1 | 19 | 28 | 41 | 27 | 34 | |
| Toxic-shock syndrome (staphylococcal)§ | 2 | 78 | 3 | 71 | 92 | 101 | 90 | 95 | NE (1), CA (1) |
| Trichinellosis | — | 12 | 0 | 39 | 5 | 15 | 16 | 5 | |
| Tularemia | 2 | 78 | 3 | 123 | 137 | 95 | 154 | 134 | PA (1), NC (1) |
| Typhoid fever | 1 | 317 | 8 | 449 | 434 | 353 | 324 | 322 | OH (1) |
| Vancomycin-intermediate <i>Staphylococcus aureus</i> § | — | 69 | 1 | 63 | 37 | 6 | 2 | — | |
| Vancomycin-resistant <i>Staphylococcus aureus</i> § | — | — | 0 | — | 2 | 1 | 3 | 1 | |
| Vibriosis (noncholera <i>Vibrio</i> species infections)§ | 3 | 578 | 5 | 492 | 549 | N | N | N | FL (2), AL (1) |
| Yellow fever | — | — | — | — | — | — | — | — | |

See Table I 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 December 26, 2009 (51st week)*

—: No reported cases. N: Not reportable. Cum: Cumulative year-to-date counts.
 * Incidence data for reporting year 2009 is provisional, whereas data for 2004 through 2008 are finalized.
 † Calculated by summing the incidence counts for the current week, the 2 weeks preceding the current week, and the 2 weeks following the current week, for a total of 5 preceding years. The total sum of incident cases is then divided by 25 weeks. Additional information is available at <http://www.cdc.gov/epo/dphsi/phs/files/5yearweeklyaverage.pdf>.
 ‡ 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 influenza-associated pediatric mortality, and in 2003 for SARS-CoV. Reporting exceptions are available at <http://www.cdc.gov/epo/dphsi/phs/infdis.htm>.
 ¶ Includes both neuroinvasive and nonneuroinvasive. 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 West Nile virus are available in Table II.
 ** The names of the reporting categories changed in 2008 as a result of revisions to the case definitions. Cases reported prior to 2008 were reported in the categories: Ehrlichiosis, human monocytic (analogous to *E. chaffeensis*); Ehrlichiosis, human granulocytic (analogous to *Anaplasma phagocytophilum*), and Ehrlichiosis, unspecified, or other agent (which included cases unable to be clearly placed in other categories, as well as possible cases of *E. ewingii*).
 †† Data for *H. influenzae* (all ages, all serotypes) are available in Table II.
 ‡‡ Updated monthly from reports to the Division of HIV/AIDS Prevention, National Center for HIV/AIDS, Viral Hepatitis, STD, and TB Prevention. Implementation of HIV reporting influences the number of cases reported. Updates of pediatric HIV data have been temporarily suspended until upgrading of the national HIV/AIDS surveillance data management system is completed. Data for HIV/AIDS, when available, are displayed in Table IV, which appears quarterly.
 ¶¶ Updated weekly from reports to the Influenza Division, National Center for Immunization and Respiratory Diseases. Since April 26, 2009, a total of 243 influenza-associated pediatric deaths associated with 2009 pandemic influenza A (H1N1) virus infection have been reported. Since August 30, 2009, a total of 225 influenza-associated pediatric deaths occurring during the 2009–10 influenza season have been reported. A total of 130 influenza-associated pediatric deaths occurring during the 2008–09 influenza season have been reported.
 *** No measles cases were reported for the current week.
 ††† Data for meningococcal disease (all serogroups) are available in Table II.
 §§§ CDC discontinued reporting of individual confirmed and probable cases of novel influenza A (H1N1) viruses infections on July 24, 2009. CDC will report the total number of novel influenza A (H1N1) hospitalizations and deaths weekly on the CDC H1N1 influenza website (<http://www.cdc.gov/h1n1flu>).
 ¶¶¶ In 2008, Q fever acute and chronic reporting categories were recognized as a result of revisions to the Q fever case definition. Prior to that time, case counts were not differentiated with respect to acute and chronic Q fever cases.
 **** No rubella cases were reported for the current week.
 †††† Updated weekly from reports to the Division of Viral and Rickettsial Diseases, National Center for Zoonotic, Vector-Borne, and Enteric Diseases.

FIGURE I. Selected notifiable disease reports, United States, comparison of provisional 4-week totals December 26, 2009, with historical data



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

Notifiable Disease Data Team and 122 Cities Mortality Data Team
 Patsy A. Hall
 Deborah A. Adams Rosaline Dhara
 Willie J. Anderson Michael S. Wodajo
 Jose Aponte Pearl C. Sharp
 Lenee Blanton

TABLE II. Provisional cases of selected notifiable diseases, United States, weeks ending December 26, 2009, and December 20, 2008 (51st week)*

| Reporting area | Chlamydia† | | | | | Coccidioidomycosis | | | | | Cryptosporidiosis | | | | |
|----------------------|--------------|-------------------|--------|-----------|-----------|--------------------|-------------------|-----|----------|----------|-------------------|-------------------|-----|----------|----------|
| | Current week | Previous 52 weeks | | Cum 2009 | Cum 2008 | Current week | Previous 52 weeks | | Cum 2009 | Cum 2008 | Current week | Previous 52 weeks | | Cum 2009 | Cum 2008 |
| | | Med | Max | | | | Med | Max | | | | Med | Max | | |
| United States | 5,332 | 22,375 | 26,517 | 1,096,477 | 1,169,074 | 222 | 245 | 520 | 12,522 | 7,042 | 40 | 114 | 369 | 6,564 | 8,678 |
| New England | 428 | 760 | 1,655 | 38,977 | 36,903 | — | 0 | 1 | 1 | 1 | — | 6 | 45 | 413 | 389 |
| Connecticut | 161 | 225 | 1,306 | 11,345 | 10,988 | N | 0 | 0 | N | N | — | 0 | 38 | 38 | 41 |
| Maine§ | — | 47 | 75 | 2,359 | 2,528 | N | 0 | 0 | N | N | — | 0 | 4 | 45 | 46 |
| Massachusetts | 208 | 375 | 944 | 19,007 | 16,926 | N | 0 | 0 | N | N | — | 2 | 16 | 164 | 169 |
| New Hampshire | — | 34 | 61 | 1,577 | 2,054 | — | 0 | 1 | 1 | 1 | — | 1 | 5 | 72 | 59 |
| Rhode Island§ | 59 | 63 | 244 | 3,566 | 3,253 | — | 0 | 0 | — | — | — | 0 | 8 | 20 | 10 |
| Vermont§ | — | 22 | 63 | 1,123 | 1,154 | N | 0 | 0 | N | N | — | 1 | 9 | 74 | 64 |
| Mid. Atlantic | 1,898 | 3,015 | 6,734 | 151,954 | 144,437 | — | 0 | 0 | — | — | 5 | 13 | 37 | 772 | 728 |
| New Jersey | — | 431 | 838 | 20,556 | 21,820 | N | 0 | 0 | N | N | — | 1 | 5 | 42 | 40 |
| New York (Upstate) | 776 | 598 | 4,563 | 31,503 | 27,318 | N | 0 | 0 | N | N | 1 | 3 | 12 | 209 | 261 |
| New York City | 637 | 1,160 | 1,956 | 58,268 | 54,401 | N | 0 | 0 | N | N | — | 1 | 8 | 72 | 106 |
| Pennsylvania | 485 | 826 | 1,001 | 41,627 | 40,898 | N | 0 | 0 | N | N | 4 | 8 | 19 | 449 | 321 |
| E.N. Central | 25 | 3,373 | 4,281 | 164,561 | 189,435 | — | 1 | 4 | 35 | 42 | 2 | 27 | 54 | 1,431 | 2,125 |
| Illinois | 1 | 1,046 | 1,426 | 48,929 | 57,942 | N | 0 | 0 | N | N | — | 2 | 8 | 139 | 203 |
| Indiana | — | 404 | 695 | 20,791 | 21,282 | N | 0 | 0 | N | N | — | 4 | 17 | 185 | 186 |
| Michigan | — | 869 | 1,332 | 43,873 | 43,856 | — | 0 | 3 | 19 | 31 | — | 5 | 11 | 266 | 273 |
| Ohio | 24 | 677 | 1,068 | 33,446 | 45,572 | — | 0 | 2 | 16 | 11 | 2 | 7 | 16 | 377 | 682 |
| Wisconsin | — | 357 | 463 | 17,522 | 20,783 | N | 0 | 0 | N | N | — | 7 | 24 | 464 | 781 |
| W.N. Central | 254 | 1,324 | 1,696 | 65,329 | 66,236 | — | 0 | 1 | 10 | 3 | 11 | 18 | 61 | 1,008 | 970 |
| Iowa | — | 173 | 256 | 9,055 | 9,107 | N | 0 | 0 | N | N | 1 | 3 | 14 | 202 | 283 |
| Kansas | 1 | 178 | 561 | 9,665 | 8,906 | N | 0 | 0 | N | N | — | 1 | 6 | 61 | 83 |
| Minnesota | — | 253 | 338 | 12,222 | 14,053 | — | 0 | 0 | — | — | 10 | 4 | 34 | 346 | 223 |
| Missouri | 253 | 508 | 638 | 25,331 | 24,130 | — | 0 | 1 | 10 | 3 | — | 3 | 12 | 180 | 177 |
| Nebraska§ | — | 101 | 225 | 5,186 | 5,343 | N | 0 | 0 | N | N | — | 2 | 9 | 111 | 112 |
| North Dakota | — | 32 | 89 | 1,725 | 1,822 | N | 0 | 0 | N | N | — | 0 | 10 | 13 | 6 |
| South Dakota | — | 53 | 80 | 2,145 | 2,875 | N | 0 | 0 | N | N | — | 1 | 10 | 95 | 86 |
| S. Atlantic | 731 | 3,843 | 5,307 | 191,005 | 240,425 | — | 0 | 1 | 5 | 5 | 14 | 19 | 45 | 1,030 | 1,035 |
| Delaware | 67 | 88 | 180 | 4,596 | 3,675 | — | 0 | 1 | 1 | 2 | — | 0 | 2 | 12 | 12 |
| District of Columbia | — | 124 | 226 | 6,210 | 6,749 | — | 0 | 0 | — | — | — | 0 | 1 | 2 | 15 |
| Florida | 375 | 1,419 | 1,674 | 70,744 | 69,255 | N | 0 | 0 | N | N | 9 | 8 | 24 | 451 | 463 |
| Georgia | 4 | 681 | 1,909 | 29,531 | 40,134 | N | 0 | 0 | N | N | 2 | 5 | 23 | 318 | 258 |
| Maryland§ | 100 | 425 | 890 | 21,504 | 23,747 | — | 0 | 1 | 4 | 3 | 1 | 1 | 5 | 41 | 53 |
| North Carolina | — | 0 | 442 | — | 36,740 | N | 0 | 0 | N | N | — | 0 | 9 | 58 | 77 |
| South Carolina§ | — | 524 | 1,421 | 24,319 | 26,111 | N | 0 | 0 | N | N | — | 1 | 7 | 54 | 55 |
| Virginia§ | 167 | 598 | 926 | 30,590 | 30,793 | N | 0 | 0 | N | N | 1 | 1 | 7 | 77 | 77 |
| West Virginia | 18 | 69 | 136 | 3,511 | 3,221 | N | 0 | 0 | N | N | 1 | 0 | 2 | 17 | 25 |
| E.S. Central | 657 | 1,739 | 2,209 | 86,916 | 84,232 | — | 0 | 0 | — | — | — | 3 | 10 | 214 | 170 |
| Alabama§ | — | 459 | 629 | 22,135 | 24,221 | N | 0 | 0 | N | N | — | 1 | 5 | 59 | 73 |
| Kentucky | — | 249 | 642 | 13,166 | 11,989 | N | 0 | 0 | N | N | — | 1 | 4 | 65 | 35 |
| Mississippi | 282 | 442 | 840 | 22,146 | 20,615 | N | 0 | 0 | N | N | — | 0 | 3 | 15 | 17 |
| Tennessee§ | 375 | 579 | 809 | 29,469 | 27,407 | N | 0 | 0 | N | N | — | 1 | 5 | 75 | 45 |
| W.S. Central | 47 | 2,972 | 5,806 | 149,576 | 147,266 | — | 0 | 1 | 1 | 3 | 1 | 8 | 271 | 500 | 2,270 |
| Arkansas§ | — | 269 | 417 | 13,120 | 13,900 | N | 0 | 0 | N | N | — | 1 | 5 | 54 | 92 |
| Louisiana | — | 515 | 1,130 | 24,986 | 22,190 | — | 0 | 1 | 1 | 3 | — | 0 | 6 | 29 | 66 |
| Oklahoma | — | 172 | 2,717 | 12,901 | 12,893 | N | 0 | 0 | N | N | — | 2 | 11 | 124 | 132 |
| Texas§ | 47 | 2,007 | 2,519 | 98,569 | 98,283 | N | 0 | 0 | N | N | 1 | 5 | 258 | 293 | 1,980 |
| Mountain | 229 | 1,421 | 2,088 | 72,577 | 74,861 | 208 | 202 | 467 | 10,149 | 4,618 | 1 | 9 | 26 | 498 | 572 |
| Arizona | — | 496 | 758 | 23,951 | 24,208 | 208 | 199 | 464 | 10,047 | 4,518 | — | 0 | 3 | 33 | 89 |
| Colorado | — | 314 | 727 | 16,362 | 18,551 | N | 0 | 0 | N | N | 1 | 2 | 10 | 134 | 111 |
| Idaho§ | — | 68 | 184 | 3,501 | 4,045 | N | 0 | 0 | N | N | — | 1 | 7 | 93 | 70 |
| Montana§ | — | 56 | 87 | 2,867 | 3,018 | N | 0 | 0 | N | N | — | 1 | 4 | 55 | 44 |
| Nevada§ | 110 | 170 | 477 | 9,743 | 9,480 | — | 1 | 4 | 56 | 51 | — | 0 | 2 | 5 | 17 |
| New Mexico§ | 107 | 180 | 540 | 8,947 | 8,266 | — | 0 | 2 | 13 | 35 | — | 2 | 8 | 122 | 172 |
| Utah | 12 | 113 | 176 | 5,336 | 5,756 | — | 1 | 2 | 32 | 12 | — | 0 | 3 | 31 | 46 |
| Wyoming§ | — | 33 | 69 | 1,870 | 1,537 | — | 0 | 1 | 1 | 2 | — | 0 | 2 | 25 | 23 |
| Pacific | 1,063 | 3,464 | 4,686 | 175,582 | 185,279 | 14 | 40 | 172 | 2,321 | 2,370 | 6 | 14 | 25 | 698 | 419 |
| Alaska | — | 97 | 199 | 4,292 | 4,599 | N | 0 | 0 | N | N | — | 0 | 1 | 6 | 3 |
| California | 702 | 2,688 | 3,592 | 137,288 | 143,303 | 14 | 40 | 172 | 2,321 | 2,370 | 2 | 8 | 20 | 429 | 258 |
| Hawaii | — | 120 | 147 | 5,533 | 5,827 | N | 0 | 0 | N | N | — | 0 | 1 | 1 | 2 |
| Oregon§ | 214 | 188 | 387 | 9,545 | 10,547 | N | 0 | 0 | N | N | 1 | 3 | 9 | 173 | 63 |
| Washington | 147 | 388 | 571 | 18,924 | 21,003 | N | 0 | 0 | N | N | 3 | 1 | 8 | 89 | 93 |
| American Samoa | — | 0 | 0 | — | 73 | N | 0 | 0 | N | N | N | 0 | 0 | N | N |
| C.N.M.I. | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Guam | — | 0 | 0 | — | 124 | — | 0 | 0 | — | — | — | 0 | 0 | — | — |
| Puerto Rico | — | 135 | 332 | 6,964 | 6,815 | N | 0 | 0 | N | N | N | 0 | 0 | N | N |
| U.S. Virgin Islands | — | 8 | 17 | 369 | 586 | — | 0 | 0 | — | — | — | 0 | 0 | — | — |

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

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

* Incidence data for reporting year 2009 is provisional. Data for HIV/AIDS, AIDS, and TB, when available, are displayed in Table IV, which appears quarterly.

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

§ Contains data reported through the National Electronic Disease Surveillance System (NEDSS).

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending December 26, 2009, and December 20, 2008 (51st week)*

| Reporting area | Giardiasis | | | | | Gonorrhea | | | | | Haemophilus influenzae, invasive All ages, all serotypes† | | | | |
|----------------------|-----------------|----------------------|-----|-------------|-------------|-----------------|----------------------|-------|-------------|-------------|--|----------------------|-----|-------------|-------------|
| | Current week | Previous 52 weeks | | Cum 2009 | Cum 2008 | Current week | Previous 52 weeks | | Cum 2009 | Cum 2008 | Current week | Previous 52 weeks | | Cum 2009 | Cum 2008 |
| | | Med | Max | | | | Med | Max | | | | Med | Max | | |
| United States | 177 | 323 | 498 | 17,245 | 18,132 | 1,158 | 5,308 | 6,584 | 260,823 | 326,296 | 30 | 59 | 124 | 2,811 | 2,687 |
| New England | 6 | 30 | 64 | 1,602 | 1,617 | 67 | 97 | 301 | 4,974 | 5,088 | — | 3 | 16 | 182 | 172 |
| Connecticut | — | 6 | 15 | 269 | 321 | 38 | 48 | 275 | 2,430 | 2,487 | — | 0 | 12 | 50 | 41 |
| Maine§ | 4 | 3 | 13 | 211 | 185 | — | 2 | 9 | 135 | 96 | — | 0 | 2 | 18 | 19 |
| Massachusetts | — | 12 | 36 | 672 | 661 | 27 | 37 | 112 | 1,934 | 2,066 | — | 2 | 5 | 89 | 79 |
| New Hampshire | — | 3 | 11 | 176 | 159 | — | 2 | 6 | 110 | 100 | — | 0 | 2 | 12 | 9 |
| Rhode Island§ | — | 1 | 6 | 59 | 88 | 2 | 6 | 19 | 316 | 302 | — | 0 | 2 | 8 | 16 |
| Vermont§ | 2 | 4 | 14 | 215 | 203 | — | 1 | 5 | 49 | 37 | — | 0 | 1 | 5 | 8 |
| Mid. Atlantic | 62 | 60 | 104 | 3,130 | 3,397 | 330 | 588 | 1,138 | 30,631 | 31,882 | 4 | 12 | 25 | 592 | 517 |
| New Jersey | — | 4 | 17 | 215 | 507 | — | 91 | 124 | 4,290 | 5,156 | — | 2 | 7 | 105 | 97 |
| New York (Upstate) | 48 | 24 | 81 | 1,337 | 1,201 | 119 | 102 | 664 | 5,761 | 5,951 | 2 | 3 | 20 | 155 | 151 |
| New York City | 7 | 15 | 26 | 780 | 833 | 97 | 212 | 366 | 10,833 | 10,067 | — | 2 | 11 | 118 | 87 |
| Pennsylvania | 7 | 15 | 34 | 798 | 856 | 114 | 191 | 274 | 9,747 | 10,708 | 2 | 4 | 10 | 214 | 182 |
| E.N. Central | 15 | 44 | 72 | 2,280 | 2,680 | 4 | 1,083 | 1,394 | 51,467 | 67,547 | 3 | 12 | 28 | 556 | 450 |
| Illinois | — | 9 | 18 | 446 | 688 | — | 338 | 524 | 15,569 | 20,204 | — | 3 | 9 | 143 | 151 |
| Indiana | N | 0 | 11 | N | N | — | 138 | 223 | 6,559 | 8,434 | — | 1 | 22 | 70 | 71 |
| Michigan | — | 11 | 24 | 613 | 602 | — | 272 | 501 | 14,183 | 16,633 | — | 0 | 3 | 24 | 29 |
| Ohio | 15 | 15 | 28 | 798 | 879 | 4 | 230 | 431 | 10,708 | 16,248 | 3 | 2 | 6 | 100 | 132 |
| Wisconsin | — | 9 | 19 | 423 | 511 | — | 86 | 143 | 4,448 | 6,028 | — | 3 | 20 | 219 | 67 |
| W.N. Central | 4 | 24 | 141 | 1,697 | 1,954 | 69 | 276 | 365 | 13,902 | 16,515 | 10 | 3 | 15 | 164 | 193 |
| Iowa | 1 | 6 | 15 | 291 | 320 | — | 31 | 47 | 1,543 | 1,645 | — | 0 | 0 | — | 2 |
| Kansas | — | 1 | 11 | 96 | 159 | 1 | 43 | 83 | 2,266 | 2,211 | — | 0 | 2 | 13 | 20 |
| Minnesota | — | 0 | 124 | 539 | 665 | — | 40 | 65 | 2,030 | 2,974 | 8 | 0 | 10 | 62 | 58 |
| Missouri | 3 | 9 | 27 | 509 | 454 | 68 | 125 | 173 | 6,362 | 7,793 | 2 | 1 | 4 | 58 | 71 |
| Nebraska§ | — | 3 | 9 | 170 | 204 | — | 23 | 55 | 1,334 | 1,391 | — | 0 | 4 | 25 | 30 |
| North Dakota | — | 0 | 16 | 27 | 19 | — | 2 | 14 | 109 | 137 | — | 0 | 4 | 6 | 12 |
| South Dakota | — | 1 | 5 | 65 | 133 | — | 5 | 14 | 258 | 364 | — | 0 | 0 | — | — |
| S. Atlantic | 29 | 69 | 109 | 3,587 | 3,007 | 318 | 1,113 | 1,694 | 55,396 | 83,932 | 2 | 14 | 31 | 690 | 678 |
| Delaware | — | 0 | 3 | 27 | 42 | 26 | 18 | 37 | 950 | 1,001 | — | 0 | 1 | 4 | 8 |
| District of Columbia | — | 0 | 5 | 22 | 68 | — | 49 | 88 | 2,448 | 2,580 | — | 0 | 1 | 2 | 8 |
| Florida | 24 | 37 | 59 | 1,894 | 1,334 | 125 | 408 | 476 | 20,263 | 22,787 | 1 | 4 | 10 | 218 | 186 |
| Georgia | 1 | 10 | 67 | 805 | 679 | — | 228 | 876 | 10,094 | 15,183 | 1 | 3 | 9 | 149 | 138 |
| Maryland§ | 3 | 5 | 13 | 267 | 280 | 26 | 112 | 208 | 5,820 | 6,425 | — | 1 | 6 | 93 | 91 |
| North Carolina | N | 0 | 0 | N | N | — | 0 | 175 | — | 15,690 | — | 0 | 17 | 69 | 76 |
| South Carolina§ | — | 2 | 8 | 101 | 132 | — | 159 | 412 | 7,651 | 9,349 | — | 1 | 5 | 68 | 59 |
| Virginia§ | 1 | 8 | 31 | 417 | 401 | 139 | 147 | 276 | 7,705 | 10,181 | — | 1 | 6 | 57 | 86 |
| West Virginia | — | 1 | 5 | 54 | 71 | 2 | 9 | 20 | 465 | 736 | — | 0 | 3 | 30 | 26 |
| E.S. Central | 2 | 8 | 22 | 391 | 492 | 138 | 495 | 687 | 24,866 | 29,867 | 2 | 3 | 9 | 156 | 145 |
| Alabama§ | — | 4 | 11 | 183 | 275 | — | 136 | 184 | 6,406 | 9,518 | — | 1 | 4 | 37 | 24 |
| Kentucky | N | 0 | 0 | N | N | — | 72 | 156 | 3,795 | 4,494 | — | 0 | 5 | 19 | 8 |
| Mississippi | N | 0 | 0 | N | N | 56 | 138 | 252 | 6,831 | 7,240 | — | 0 | 1 | 5 | 14 |
| Tennessee§ | 2 | 4 | 18 | 208 | 217 | 82 | 156 | 230 | 7,834 | 8,615 | 2 | 2 | 6 | 95 | 99 |
| W.S. Central | 6 | 7 | 22 | 410 | 447 | 8 | 874 | 1,555 | 43,628 | 49,833 | 5 | 2 | 22 | 114 | 110 |
| Arkansas§ | 2 | 2 | 9 | 147 | 137 | — | 83 | 134 | 4,040 | 4,453 | — | 0 | 3 | 19 | 15 |
| Louisiana | — | 1 | 7 | 96 | 148 | — | 167 | 418 | 8,095 | 9,287 | — | 0 | 1 | 12 | 12 |
| Oklahoma | 4 | 3 | 18 | 167 | 162 | — | 61 | 612 | 4,307 | 4,705 | 5 | 1 | 20 | 78 | 73 |
| Texas§ | N | 0 | 0 | N | N | 8 | 554 | 695 | 27,186 | 31,388 | — | 0 | 1 | 5 | 10 |
| Mountain | 8 | 27 | 59 | 1,491 | 1,606 | 37 | 175 | 243 | 8,502 | 11,330 | 3 | 5 | 11 | 233 | 282 |
| Arizona | — | 4 | 7 | 190 | 139 | — | 58 | 110 | 2,942 | 3,375 | — | 1 | 8 | 78 | 103 |
| Colorado | 6 | 8 | 26 | 475 | 552 | — | 41 | 106 | 2,261 | 3,639 | 1 | 1 | 6 | 69 | 54 |
| Idaho§ | 1 | 3 | 10 | 199 | 201 | — | 2 | 8 | 95 | 181 | 1 | 0 | 1 | 5 | 12 |
| Montana§ | — | 2 | 11 | 127 | 90 | — | 1 | 5 | 76 | 119 | — | 0 | 1 | 2 | 5 |
| Nevada§ | 1 | 1 | 10 | 73 | 119 | 25 | 28 | 93 | 1,694 | 2,124 | 1 | 0 | 2 | 16 | 16 |
| New Mexico§ | — | 2 | 8 | 105 | 104 | 11 | 22 | 52 | 1,095 | 1,309 | — | 0 | 3 | 28 | 48 |
| Utah | — | 5 | 12 | 259 | 354 | 1 | 5 | 12 | 267 | 461 | — | 1 | 2 | 32 | 40 |
| Wyoming§ | — | 1 | 4 | 63 | 47 | — | 1 | 7 | 72 | 122 | — | 0 | 1 | 3 | 4 |
| Pacific | 45 | 51 | 130 | 2,657 | 2,932 | 187 | 541 | 764 | 27,457 | 30,302 | 1 | 2 | 8 | 124 | 140 |
| Alaska | — | 2 | 7 | 106 | 106 | — | 18 | 32 | 824 | 546 | — | 0 | 3 | 20 | 21 |
| California | 31 | 34 | 60 | 1,751 | 1,937 | 163 | 448 | 657 | 23,075 | 24,908 | — | 0 | 4 | 25 | 43 |
| Hawaii | — | 0 | 2 | 17 | 41 | — | 12 | 24 | 589 | 591 | — | 0 | 3 | 24 | 19 |
| Oregon§ | 4 | 7 | 18 | 394 | 448 | 10 | 20 | 44 | 955 | 1,197 | 1 | 1 | 4 | 50 | 55 |
| Washington | 10 | 7 | 74 | 389 | 400 | 14 | 39 | 71 | 2,014 | 3,060 | — | 0 | 2 | 5 | 2 |
| American Samoa | — | 0 | 0 | — | — | — | 0 | 0 | — | 3 | — | 0 | 0 | — | — |
| C.N.M.I. | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Guam | — | 0 | 0 | — | — | — | 0 | 0 | — | 73 | — | 0 | 0 | — | — |
| Puerto Rico | — | 2 | 10 | 102 | 212 | — | 4 | 24 | 224 | 272 | — | 0 | 1 | 3 | 1 |
| U.S. Virgin Islands | — | 0 | 0 | — | — | — | 2 | 7 | 93 | 118 | N | 0 | 0 | N | N |

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

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

* Incidence data for reporting year 2009 is provisional.

† Data for *H. influenzae* (age <5 yrs for serotype b, nonserotype b, and unknown serotype) are available in Table I.

§ Contains data reported through the National Electronic Disease Surveillance System (NEDSS).

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending December 26, 2009, and December 20, 2008 (51st week)*

| Reporting area | Hepatitis (viral, acute), by type† | | | | | | | | | | Legionellosis | | | | |
|----------------------|------------------------------------|-------------------|----|----------|----------|--------------|-------------------|-----|----------|----------|---------------|-------------------|-----|----------|----------|
| | A | | | | B | | | | | | | | | | |
| | Current week | Previous 52 weeks | | Cum 2009 | Cum 2008 | Current week | Previous 52 weeks | | Cum 2009 | Cum 2008 | Current week | Previous 52 weeks | | Cum 2009 | Cum 2008 |
| | Med | Max | | | | Med | Max | | | | Med | Max | | | |
| United States | 22 | 36 | 89 | 1,813 | 2,460 | 22 | 61 | 197 | 2,971 | 3,755 | 20 | 53 | 158 | 3,069 | 3,029 |
| New England | — | 2 | 5 | 92 | 127 | — | 1 | 3 | 44 | 79 | 1 | 2 | 17 | 172 | 223 |
| Connecticut | — | 0 | 2 | 18 | 26 | — | 0 | 3 | 14 | 29 | — | 1 | 5 | 53 | 46 |
| Maine§ | — | 0 | 1 | 1 | 18 | — | 0 | 2 | 15 | 14 | 1 | 0 | 3 | 10 | 11 |
| Massachusetts | — | 1 | 4 | 56 | 57 | — | 0 | 2 | 12 | 21 | — | 1 | 9 | 73 | 87 |
| New Hampshire | — | 0 | 1 | 7 | 12 | — | 0 | 1 | 3 | 8 | — | 0 | 2 | 10 | 30 |
| Rhode Island§ | — | 0 | 1 | 8 | 12 | — | 0 | 0 | — | 4 | — | 0 | 4 | 19 | 44 |
| Vermont§ | — | 0 | 1 | 2 | 2 | — | 0 | 0 | — | 3 | — | 0 | 1 | 7 | 5 |
| Mid. Atlantic | 1 | 5 | 10 | 247 | 322 | 1 | 5 | 17 | 292 | 429 | 6 | 15 | 69 | 1,092 | 1,005 |
| New Jersey | — | 1 | 5 | 55 | 82 | — | 1 | 6 | 66 | 117 | — | 2 | 13 | 155 | 145 |
| New York (Upstate) | 1 | 1 | 3 | 46 | 65 | — | 1 | 11 | 51 | 62 | 6 | 5 | 29 | 346 | 336 |
| New York City | — | 2 | 5 | 83 | 107 | — | 1 | 4 | 69 | 98 | — | 3 | 20 | 211 | 133 |
| Pennsylvania | — | 1 | 6 | 63 | 68 | 1 | 2 | 7 | 106 | 152 | — | 6 | 25 | 380 | 391 |
| E.N. Central | — | 4 | 18 | 245 | 329 | 1 | 6 | 21 | 360 | 509 | 2 | 9 | 34 | 580 | 650 |
| Illinois | — | 2 | 12 | 107 | 109 | — | 1 | 7 | 81 | 182 | — | 1 | 10 | 105 | 120 |
| Indiana | — | 0 | 4 | 15 | 19 | — | 1 | 18 | 56 | 49 | — | 1 | 4 | 44 | 56 |
| Michigan | — | 1 | 4 | 69 | 118 | — | 2 | 8 | 110 | 145 | — | 2 | 11 | 142 | 172 |
| Ohio | — | 0 | 3 | 36 | 50 | 1 | 1 | 13 | 85 | 116 | 2 | 4 | 17 | 279 | 264 |
| Wisconsin | — | 0 | 4 | 18 | 33 | — | 0 | 4 | 28 | 17 | — | 0 | 2 | 10 | 38 |
| W.N. Central | — | 2 | 16 | 109 | 238 | 1 | 3 | 16 | 167 | 88 | — | 2 | 6 | 106 | 139 |
| Iowa | — | 0 | 3 | 32 | 107 | — | 0 | 3 | 31 | 22 | — | 0 | 2 | 21 | 20 |
| Kansas | — | 0 | 1 | 7 | 15 | — | 0 | 2 | 5 | 8 | — | 0 | 1 | 3 | 2 |
| Minnesota | — | 0 | 12 | 21 | 37 | — | 0 | 11 | 26 | 14 | — | 0 | 4 | 12 | 23 |
| Missouri | — | 0 | 3 | 25 | 34 | 1 | 1 | 5 | 81 | 34 | — | 1 | 5 | 55 | 70 |
| Nebraska§ | — | 0 | 3 | 20 | 41 | — | 0 | 2 | 22 | 9 | — | 0 | 2 | 12 | 21 |
| North Dakota | — | 0 | 2 | 1 | — | — | 0 | 1 | — | 1 | — | 0 | 3 | 2 | — |
| South Dakota | — | 0 | 1 | 3 | 4 | — | 0 | 1 | 2 | — | — | 0 | 1 | 1 | 3 |
| S. Atlantic | 11 | 8 | 14 | 415 | 385 | 9 | 16 | 32 | 862 | 947 | 5 | 10 | 21 | 545 | 486 |
| Delaware | — | 0 | 1 | 4 | 7 | U | 0 | 1 | U | U | — | 0 | 5 | 18 | 13 |
| District of Columbia | U | 0 | 0 | U | U | U | 0 | 0 | U | U | — | 0 | 2 | 9 | 16 |
| Florida | 3 | 3 | 9 | 176 | 144 | 3 | 6 | 13 | 297 | 329 | 3 | 3 | 10 | 194 | 144 |
| Georgia | — | 1 | 3 | 53 | 55 | — | 3 | 9 | 132 | 185 | — | 1 | 5 | 51 | 40 |
| Maryland§ | 1 | 1 | 4 | 42 | 44 | 1 | 1 | 5 | 70 | 83 | 2 | 3 | 12 | 151 | 134 |
| North Carolina | 7 | 0 | 4 | 38 | 62 | 4 | 0 | 19 | 152 | 78 | — | 0 | 6 | 39 | 37 |
| South Carolina§ | — | 1 | 4 | 57 | 19 | — | 1 | 4 | 50 | 69 | — | 0 | 2 | 13 | 12 |
| Virginia§ | — | 1 | 3 | 40 | 49 | 1 | 1 | 10 | 91 | 120 | — | 1 | 5 | 61 | 61 |
| West Virginia | — | 0 | 2 | 5 | 5 | — | 0 | 19 | 70 | 83 | — | 0 | 2 | 9 | 29 |
| E.S. Central | 3 | 1 | 4 | 47 | 79 | 3 | 7 | 11 | 329 | 398 | — | 2 | 12 | 134 | 115 |
| Alabama§ | 1 | 0 | 2 | 11 | 12 | 1 | 1 | 7 | 83 | 108 | — | 0 | 2 | 17 | 18 |
| Kentucky | — | 0 | 2 | 12 | 30 | — | 2 | 6 | 86 | 97 | — | 1 | 3 | 51 | 56 |
| Mississippi | — | 0 | 2 | 12 | 6 | — | 1 | 2 | 32 | 48 | — | 0 | 2 | 4 | 1 |
| Tennessee§ | 2 | 0 | 2 | 12 | 31 | 2 | 2 | 5 | 128 | 145 | — | 1 | 9 | 62 | 40 |
| W.S. Central | 3 | 3 | 43 | 173 | 239 | 2 | 9 | 99 | 471 | 736 | — | 2 | 21 | 113 | 95 |
| Arkansas§ | — | 0 | 1 | 8 | 10 | — | 1 | 5 | 48 | 62 | — | 0 | 1 | 8 | 14 |
| Louisiana | — | 0 | 1 | 3 | 12 | — | 0 | 4 | 33 | 91 | — | 0 | 2 | 4 | 10 |
| Oklahoma | — | 0 | 6 | 6 | 7 | 2 | 2 | 17 | 103 | 109 | — | 0 | 2 | 6 | 10 |
| Texas§ | 3 | 3 | 37 | 156 | 210 | — | 6 | 76 | 287 | 474 | — | 2 | 19 | 95 | 61 |
| Mountain | 2 | 3 | 8 | 158 | 213 | — | 2 | 6 | 118 | 199 | 1 | 2 | 7 | 130 | 99 |
| Arizona | — | 1 | 4 | 71 | 114 | — | 1 | 3 | 42 | 79 | 1 | 1 | 4 | 50 | 25 |
| Colorado | 2 | 1 | 5 | 51 | 36 | — | 0 | 2 | 20 | 33 | — | 0 | 2 | 19 | 14 |
| Idaho§ | — | 0 | 1 | 4 | 17 | — | 0 | 2 | 11 | 10 | — | 0 | 2 | 7 | 3 |
| Montana§ | — | 0 | 1 | 6 | 1 | — | 0 | 0 | — | 2 | — | 0 | 2 | 7 | 4 |
| Nevada§ | — | 0 | 2 | 10 | 12 | — | 0 | 3 | 29 | 43 | — | 0 | 1 | 11 | 13 |
| New Mexico§ | — | 0 | 1 | 7 | 17 | — | 0 | 2 | 6 | 12 | — | 0 | 2 | 8 | 11 |
| Utah | — | 0 | 2 | 7 | 13 | — | 0 | 1 | 6 | 14 | — | 0 | 4 | 24 | 29 |
| Wyoming§ | — | 0 | 1 | 2 | 3 | — | 0 | 2 | 4 | 6 | — | 0 | 2 | 4 | — |
| Pacific | 2 | 6 | 17 | 327 | 528 | 5 | 6 | 36 | 328 | 370 | 5 | 3 | 12 | 197 | 217 |
| Alaska | — | 0 | 1 | 3 | 5 | — | 0 | 1 | 4 | 10 | — | 0 | 1 | 1 | 3 |
| California | 2 | 5 | 16 | 259 | 433 | 4 | 4 | 28 | 236 | 267 | 4 | 3 | 10 | 155 | 172 |
| Hawaii | — | 0 | 2 | 6 | 19 | — | 0 | 1 | 5 | 7 | — | 0 | 1 | 1 | 8 |
| Oregon§ | — | 0 | 2 | 19 | 25 | — | 1 | 4 | 41 | 41 | — | 0 | 2 | 15 | 18 |
| Washington | — | 1 | 4 | 40 | 46 | 1 | 1 | 8 | 42 | 45 | 1 | 0 | 4 | 25 | 16 |
| American Samoa | — | 0 | 0 | — | — | — | 0 | 0 | — | — | N | 0 | 0 | N | N |
| C.N.M.I. | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Guam | — | 0 | 0 | — | — | — | 0 | 0 | — | — | — | 0 | 0 | — | — |
| Puerto Rico | — | 0 | 2 | 18 | 24 | — | 0 | 5 | 22 | 49 | — | 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. Cum: Cumulative year-to-date counts. Med: Median. Max: Maximum.

* Incidence data for reporting year 2009 is provisional.

† Data for acute hepatitis C, viral are available in Table I.

§ Contains data reported through the National Electronic Disease Surveillance System (NEDSS).

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending December 26, 2009, and December 20, 2008 (51st week)*

| Reporting area | Lyme disease | | | | | Malaria | | | | | Meningococcal disease, invasive† All groups | | | | |
|----------------------|--------------|-------------------|-------|----------|----------|--------------|-------------------|-----|----------|----------|--|-------------------|-----|----------|----------|
| | Current week | Previous 52 weeks | | Cum 2009 | Cum 2008 | Current week | Previous 52 weeks | | Cum 2009 | Cum 2008 | Current week | Previous 52 weeks | | Cum 2009 | Cum 2008 |
| | | Med | Max | | | | Med | Max | | | | Med | Max | | |
| United States | 174 | 302 | 1,918 | 29,054 | 33,091 | 6 | 22 | 46 | 1,144 | 1,192 | 19 | 17 | 48 | 872 | 1,107 |
| New England | 15 | 55 | 464 | 5,872 | 11,447 | — | 1 | 5 | 49 | 55 | — | 0 | 4 | 33 | 35 |
| Connecticut | — | 0 | 12 | — | 3,873 | — | 0 | 4 | 6 | 10 | — | 0 | 2 | 5 | 1 |
| Maine§ | 13 | 8 | 76 | 889 | 891 | — | 0 | 1 | 2 | 1 | — | 0 | 1 | 4 | 6 |
| Massachusetts | — | 18 | 306 | 3,229 | 4,564 | — | 0 | 3 | 30 | 33 | — | 0 | 3 | 16 | 23 |
| New Hampshire | — | 14 | 89 | 1,156 | 1,590 | — | 0 | 1 | 3 | 4 | — | 0 | 1 | 3 | 4 |
| Rhode Island§ | — | 1 | 78 | 212 | 130 | — | 0 | 1 | 5 | 2 | — | 0 | 1 | 4 | 1 |
| Vermont§ | 2 | 4 | 40 | 386 | 399 | — | 0 | 1 | 3 | 5 | — | 0 | 1 | 1 | — |
| Mid. Atlantic | 143 | 172 | 1,401 | 16,468 | 13,653 | 1 | 6 | 13 | 295 | 318 | 1 | 2 | 6 | 95 | 124 |
| New Jersey | — | 37 | 376 | 4,050 | 3,450 | — | 0 | 1 | 1 | 65 | — | 0 | 2 | 8 | 16 |
| New York (Upstate) | 69 | 51 | 1,368 | 4,130 | 5,618 | 1 | 1 | 10 | 50 | 32 | 1 | 0 | 2 | 26 | 32 |
| New York City | — | 2 | 24 | 262 | 797 | — | 4 | 11 | 191 | 181 | — | 0 | 2 | 16 | 26 |
| Pennsylvania | 74 | 81 | 631 | 8,026 | 3,788 | — | 1 | 4 | 53 | 40 | — | 1 | 4 | 45 | 50 |
| E.N. Central | — | 17 | 215 | 2,337 | 2,310 | — | 2 | 10 | 140 | 149 | 1 | 3 | 9 | 145 | 203 |
| Illinois | — | 1 | 11 | 126 | 108 | — | 1 | 4 | 54 | 76 | — | 1 | 4 | 40 | 84 |
| Indiana | — | 1 | 6 | 61 | 41 | — | 0 | 3 | 15 | 5 | — | 0 | 3 | 32 | 26 |
| Michigan | — | 1 | 10 | 99 | 91 | — | 0 | 3 | 27 | 18 | — | 0 | 5 | 20 | 32 |
| Ohio | — | 1 | 5 | 55 | 45 | — | 1 | 6 | 37 | 29 | 1 | 1 | 3 | 43 | 40 |
| Wisconsin | — | 15 | 197 | 1,996 | 2,025 | — | 0 | 1 | 7 | 21 | — | 0 | 2 | 10 | 21 |
| W.N. Central | 5 | 5 | 336 | 301 | 1,098 | — | 1 | 8 | 68 | 71 | 2 | 1 | 9 | 77 | 95 |
| Iowa | — | 1 | 14 | 95 | 109 | — | 0 | 1 | 10 | 12 | — | 0 | 2 | 13 | 18 |
| Kansas | — | 0 | 2 | 14 | 16 | — | 0 | 1 | 4 | 9 | — | 0 | 2 | 8 | 8 |
| Minnesota | 5 | 0 | 326 | 169 | 952 | — | 0 | 8 | 32 | 28 | 2 | 0 | 4 | 15 | 25 |
| Missouri | — | 0 | 1 | 3 | 6 | — | 0 | 2 | 12 | 14 | — | 0 | 3 | 28 | 26 |
| Nebraska§ | — | 0 | 3 | 19 | 12 | — | 0 | 1 | 8 | 8 | — | 0 | 1 | 10 | 12 |
| North Dakota | — | 0 | 10 | — | — | — | 0 | 1 | 1 | — | — | 0 | 3 | 1 | 3 |
| South Dakota | — | 0 | 1 | 1 | 3 | — | 0 | 1 | 1 | — | — | 0 | 1 | 2 | 3 |
| S. Atlantic | 9 | 61 | 236 | 3,746 | 4,235 | 2 | 6 | 17 | 333 | 296 | 10 | 2 | 9 | 158 | 153 |
| Delaware | — | 12 | 65 | 949 | 769 | — | 0 | 1 | 5 | 3 | — | 0 | 1 | 4 | 2 |
| District of Columbia | — | 0 | 5 | 20 | 73 | — | 0 | 2 | 8 | 7 | — | 0 | 0 | — | — |
| Florida | 5 | 2 | 11 | 119 | 86 | 1 | 1 | 7 | 90 | 62 | — | 1 | 4 | 51 | 50 |
| Georgia | — | 1 | 6 | 53 | 35 | — | 1 | 5 | 69 | 57 | — | 0 | 2 | 29 | 18 |
| Maryland§ | 3 | 26 | 125 | 1,764 | 2,191 | 1 | 1 | 13 | 78 | 80 | — | 0 | 1 | 11 | 19 |
| North Carolina | — | 0 | 14 | 63 | 47 | — | 0 | 5 | 21 | 30 | 10 | 0 | 5 | 31 | 14 |
| South Carolina§ | — | 0 | 3 | 35 | 28 | — | 0 | 1 | 4 | 9 | — | 0 | 1 | 11 | 22 |
| Virginia§ | 1 | 10 | 61 | 573 | 872 | — | 1 | 5 | 56 | 46 | — | 0 | 2 | 15 | 23 |
| West Virginia | — | 0 | 33 | 170 | 134 | — | 0 | 1 | 2 | 2 | — | 0 | 2 | 6 | 5 |
| E.S. Central | — | 1 | 2 | 36 | 46 | — | 0 | 3 | 29 | 25 | 1 | 0 | 4 | 35 | 54 |
| Alabama§ | — | 0 | 1 | 3 | 9 | — | 0 | 3 | 9 | 5 | — | 0 | 1 | 10 | 10 |
| Kentucky | — | 0 | 1 | 1 | 5 | — | 0 | 2 | 10 | 6 | — | 0 | 1 | 7 | 10 |
| Mississippi | — | 0 | 0 | — | 1 | — | 0 | 1 | 1 | 1 | — | 0 | 1 | 3 | 12 |
| Tennessee§ | — | 0 | 2 | 32 | 31 | — | 0 | 3 | 9 | 13 | 1 | 0 | 2 | 15 | 22 |
| W.S. Central | — | 1 | 21 | 48 | 124 | — | 1 | 10 | 52 | 82 | — | 1 | 12 | 79 | 118 |
| Arkansas§ | — | 0 | 0 | — | — | — | 0 | 1 | 4 | 1 | — | 0 | 2 | 9 | 15 |
| Louisiana | — | 0 | 0 | — | 3 | — | 0 | 1 | 3 | 4 | — | 0 | 3 | 11 | 24 |
| Oklahoma | — | 0 | 2 | — | — | — | 0 | 1 | 1 | 4 | — | 0 | 2 | 14 | 18 |
| Texas§ | — | 1 | 21 | 48 | 121 | — | 1 | 9 | 44 | 73 | — | 1 | 9 | 45 | 61 |
| Mountain | — | 1 | 13 | 47 | 52 | — | 0 | 6 | 29 | 36 | — | 1 | 4 | 61 | 58 |
| Arizona | — | 0 | 2 | 7 | 8 | — | 0 | 2 | 9 | 15 | — | 0 | 2 | 14 | 9 |
| Colorado | — | 0 | 1 | 4 | 3 | — | 0 | 3 | 8 | 5 | — | 0 | 3 | 23 | 15 |
| Idaho§ | — | 0 | 3 | 15 | 9 | — | 0 | 1 | 3 | 3 | — | 0 | 1 | 7 | 5 |
| Montana§ | — | 0 | 13 | 3 | 4 | — | 0 | 3 | 5 | — | — | 0 | 2 | 4 | 4 |
| Nevada§ | — | 0 | 1 | 4 | 12 | — | 0 | 0 | — | 5 | — | 0 | 1 | 3 | 7 |
| New Mexico§ | — | 0 | 1 | 5 | 8 | — | 0 | 0 | — | 3 | — | 0 | 1 | 3 | 8 |
| Utah | — | 0 | 1 | 7 | 5 | — | 0 | 2 | 4 | 5 | — | 0 | 1 | 2 | 8 |
| Wyoming§ | — | 0 | 1 | 2 | 3 | — | 0 | 0 | — | — | — | 0 | 2 | 5 | 2 |
| Pacific | 2 | 4 | 13 | 199 | 126 | 3 | 3 | 9 | 149 | 160 | 4 | 3 | 14 | 189 | 267 |
| Alaska | — | 0 | 1 | 3 | 6 | — | 0 | 1 | 2 | 6 | — | 0 | 2 | 6 | 8 |
| California | 2 | 2 | 10 | 147 | 71 | 3 | 2 | 6 | 114 | 119 | 4 | 2 | 8 | 114 | 191 |
| Hawaii | N | 0 | 0 | N | N | — | 0 | 1 | 1 | 3 | — | 0 | 1 | 4 | 5 |
| Oregon§ | — | 0 | 4 | 34 | 38 | — | 0 | 2 | 11 | 4 | — | 0 | 6 | 42 | 39 |
| Washington | — | 0 | 12 | 15 | 11 | — | 0 | 3 | 21 | 28 | — | 0 | 7 | 23 | 24 |
| American Samoa | N | 0 | 0 | N | N | — | 0 | 0 | — | — | — | 0 | 0 | — | — |
| C.N.M.I. | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Guam | — | 0 | 0 | — | — | — | 0 | 0 | — | 3 | — | 0 | 0 | — | — |
| Puerto Rico | N | 0 | 0 | N | N | — | 0 | 1 | 3 | 2 | — | 0 | 0 | — | 3 |
| U.S. Virgin Islands | N | 0 | 0 | N | N | — | 0 | 0 | — | — | — | 0 | 0 | — | — |

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

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

* Incidence data for reporting year 2009 is provisional.

† 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.

§ Contains data reported through the National Electronic Disease Surveillance System (NEDSS).

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending December 26, 2009, and December 20, 2008 (51st week)*

| Reporting area | Pertussis | | | | | Rabies, animal | | | | | Rocky Mountain spotted fever | | | | |
|----------------------|--------------|-------------------|-------|----------|----------|----------------|-------------------|-----|----------|----------|------------------------------|-------------------|-----|----------|----------|
| | Current week | Previous 52 weeks | | Cum 2009 | Cum 2008 | Current week | Previous 52 weeks | | Cum 2009 | Cum 2008 | Current week | Previous 52 weeks | | Cum 2009 | Cum 2008 |
| | | Med | Max | | | | Med | Max | | | | Med | Max | | |
| United States | 43 | 270 | 1,697 | 13,204 | 11,170 | 5 | 64 | 140 | 3,525 | 4,083 | 4 | 23 | 179 | 1,379 | 2,332 |
| New England | — | 12 | 27 | 570 | 1,007 | 4 | 6 | 24 | 352 | 421 | — | 0 | 2 | 11 | 7 |
| Connecticut | — | 1 | 4 | 48 | 53 | — | 2 | 22 | 149 | 199 | — | 0 | 0 | — | — |
| Maine† | — | 1 | 10 | 78 | 47 | 3 | 1 | 4 | 55 | 61 | — | 0 | 2 | 5 | 1 |
| Massachusetts | — | 7 | 19 | 327 | 769 | — | 0 | 0 | — | — | — | 0 | 1 | 5 | 2 |
| New Hampshire | — | 1 | 7 | 75 | 42 | 1 | 0 | 3 | 33 | 56 | — | 0 | 0 | — | 1 |
| Rhode Island† | — | 0 | 7 | 31 | 84 | — | 1 | 7 | 51 | 33 | — | 0 | 0 | — | 3 |
| Vermont† | — | 0 | 1 | 11 | 12 | — | 1 | 5 | 64 | 72 | — | 0 | 1 | 1 | — |
| Mid. Atlantic | 9 | 21 | 64 | 1,087 | 1,203 | — | 11 | 23 | 569 | 916 | — | 1 | 29 | 67 | 124 |
| New Jersey | — | 3 | 12 | 151 | 225 | — | 0 | 0 | — | — | — | 0 | 1 | — | 84 |
| New York (Upstate) | 3 | 4 | 41 | 250 | 415 | — | 7 | 22 | 429 | 492 | — | 0 | 29 | 11 | 14 |
| New York City | — | 1 | 21 | 92 | 93 | — | 0 | 3 | 22 | 19 | — | 0 | 4 | 33 | 11 |
| Pennsylvania | 6 | 12 | 29 | 594 | 470 | — | 0 | 16 | 118 | 405 | — | 0 | 2 | 23 | 15 |
| E.N. Central | 13 | 55 | 238 | 2,906 | 1,970 | — | 2 | 19 | 219 | 255 | — | 1 | 7 | 88 | 149 |
| Illinois | — | 12 | 33 | 570 | 588 | — | 1 | 9 | 87 | 103 | — | 0 | 6 | 50 | 110 |
| Indiana | — | 6 | 158 | 317 | 112 | — | 0 | 6 | 21 | 10 | — | 0 | 3 | 13 | 6 |
| Michigan | — | 13 | 40 | 822 | 303 | — | 1 | 6 | 65 | 78 | — | 0 | 2 | 5 | 3 |
| Ohio | 13 | 18 | 57 | 1,065 | 781 | — | 0 | 5 | 46 | 64 | — | 0 | 4 | 18 | 30 |
| Wisconsin | — | 3 | 12 | 132 | 186 | N | 0 | 0 | N | N | — | 0 | 1 | 2 | — |
| W.N. Central | 2 | 30 | 872 | 1,661 | 1,420 | — | 7 | 18 | 325 | 305 | — | 3 | 27 | 340 | 436 |
| Iowa | — | 3 | 10 | 189 | 242 | — | 0 | 3 | 24 | 29 | — | 0 | 1 | 4 | 8 |
| Kansas | — | 3 | 9 | 146 | 93 | — | 1 | 6 | 60 | 65 | — | 0 | 1 | 2 | — |
| Minnesota | — | 0 | 808 | 165 | 226 | — | 0 | 11 | 61 | 64 | — | 0 | 2 | 4 | — |
| Missouri | 1 | 18 | 47 | 960 | 527 | — | 1 | 5 | 65 | 64 | — | 3 | 26 | 318 | 405 |
| Nebraska† | 1 | 3 | 11 | 142 | 264 | — | 1 | 6 | 77 | 34 | — | 0 | 2 | 12 | 20 |
| North Dakota | — | 0 | 24 | 29 | 1 | — | 0 | 9 | 11 | 25 | — | 0 | 1 | — | — |
| South Dakota | — | 0 | 6 | 30 | 67 | — | 0 | 4 | 27 | 24 | — | 0 | 0 | — | 3 |
| S. Atlantic | 9 | 29 | 71 | 1,538 | 998 | — | 26 | 111 | 1,594 | 1,606 | 1 | 8 | 27 | 453 | 935 |
| Delaware | — | 0 | 2 | 13 | 18 | — | 0 | 0 | — | — | — | 0 | 3 | 18 | 32 |
| District of Columbia | — | 0 | 1 | 3 | 7 | — | 0 | 0 | — | — | — | 0 | 0 | — | 6 |
| Florida | 5 | 8 | 29 | 498 | 302 | — | 0 | 95 | 154 | 138 | 1 | 0 | 2 | 11 | 16 |
| Georgia | 1 | 3 | 11 | 193 | 108 | — | 0 | 72 | 409 | 379 | — | 0 | 7 | 48 | 78 |
| Maryland† | — | 2 | 8 | 131 | 161 | — | 7 | 15 | 379 | 415 | — | 0 | 3 | 37 | 91 |
| North Carolina | — | 0 | 65 | 223 | 79 | N | 4 | 4 | N | N | — | 4 | 25 | 264 | 499 |
| South Carolina† | 3 | 4 | 18 | 247 | 138 | — | 0 | 0 | — | — | — | 0 | 5 | 18 | 56 |
| Virginia† | — | 3 | 24 | 198 | 174 | — | 10 | 26 | 536 | 597 | — | 1 | 8 | 53 | 147 |
| West Virginia | — | 0 | 5 | 32 | 11 | — | 3 | 6 | 116 | 77 | — | 0 | 1 | 4 | 10 |
| E.S. Central | 1 | 14 | 30 | 755 | 447 | — | 1 | 6 | 83 | 179 | — | 3 | 16 | 254 | 334 |
| Alabama† | 1 | 4 | 19 | 284 | 65 | — | 0 | 0 | — | — | — | 1 | 7 | 63 | 92 |
| Kentucky | — | 4 | 15 | 219 | 169 | — | 1 | 4 | 45 | 45 | — | 0 | 1 | 1 | 1 |
| Mississippi | — | 1 | 4 | 65 | 100 | — | 0 | 1 | 4 | 7 | — | 0 | 1 | 7 | 11 |
| Tennessee† | — | 3 | 9 | 187 | 113 | — | 0 | 4 | 34 | 127 | — | 3 | 14 | 183 | 230 |
| W.S. Central | 1 | 60 | 389 | 2,758 | 1,896 | — | 0 | 13 | 70 | 89 | 3 | 1 | 161 | 143 | 298 |
| Arkansas† | — | 5 | 38 | 265 | 158 | — | 0 | 10 | 36 | 45 | 3 | 0 | 61 | 64 | 68 |
| Louisiana | — | 1 | 8 | 90 | 89 | — | 0 | 0 | — | — | — | 0 | 1 | 2 | 6 |
| Oklahoma | 1 | 0 | 45 | 77 | 55 | — | 0 | 13 | 33 | 42 | — | 0 | 98 | 53 | 170 |
| Texas† | — | 51 | 304 | 2,326 | 1,594 | — | 0 | 1 | 1 | 2 | — | 0 | 6 | 24 | 54 |
| Mountain | 3 | 18 | 32 | 882 | 850 | — | 1 | 6 | 82 | 107 | — | 0 | 3 | 22 | 46 |
| Arizona | — | 4 | 12 | 220 | 216 | N | 0 | 0 | N | N | — | 0 | 1 | 7 | 17 |
| Colorado | 2 | 5 | 13 | 243 | 148 | — | 0 | 0 | — | — | — | 0 | 1 | 1 | 1 |
| Idaho† | 1 | 1 | 18 | 90 | 36 | — | 0 | 0 | — | 11 | — | 0 | 1 | 1 | 1 |
| Montana† | — | 0 | 6 | 55 | 84 | — | 0 | 4 | 25 | 13 | — | 0 | 2 | 8 | 3 |
| Nevada† | — | 0 | 3 | 9 | 28 | — | 0 | 1 | 1 | 12 | — | 0 | 0 | — | 3 |
| New Mexico† | — | 1 | 6 | 64 | 92 | — | 0 | 2 | 24 | 29 | — | 0 | 1 | 1 | 4 |
| Utah | — | 3 | 16 | 181 | 229 | — | 0 | 2 | 11 | 14 | — | 0 | 1 | 1 | 7 |
| Wyoming† | — | 0 | 5 | 20 | 17 | — | 0 | 4 | 21 | 28 | — | 0 | 1 | 3 | 10 |
| Pacific | 5 | 22 | 67 | 1,047 | 1,379 | 1 | 4 | 12 | 231 | 205 | — | 0 | 1 | 1 | 3 |
| Alaska | — | 1 | 6 | 48 | 270 | — | 0 | 2 | 12 | 15 | N | 0 | 0 | N | N |
| California | 1 | 10 | 22 | 463 | 519 | 1 | 4 | 12 | 204 | 177 | — | 0 | 1 | 1 | — |
| Hawaii | — | 0 | 3 | 26 | 19 | — | 0 | 0 | — | — | N | 0 | 0 | N | N |
| Oregon† | — | 3 | 15 | 245 | 177 | — | 0 | 3 | 15 | 13 | — | 0 | 0 | — | 3 |
| Washington | 4 | 5 | 58 | 265 | 394 | — | 0 | 0 | — | — | — | 0 | 0 | — | — |
| American Samoa | — | 0 | 0 | — | — | N | 0 | 0 | N | N | N | 0 | 0 | N | N |
| C.N.M.I. | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Guam | — | 0 | 0 | — | — | — | 0 | 0 | — | — | N | 0 | 0 | N | N |
| Puerto Rico | — | 0 | 1 | 1 | — | — | 1 | 3 | 38 | 58 | N | 0 | 0 | N | N |
| U.S. Virgin Islands | — | 0 | 0 | — | — | N | 0 | 0 | N | N | N | 0 | 0 | N | N |

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

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

* Incidence data for reporting year 2009 is provisional.

† Contains data reported through the National Electronic Disease Surveillance System (NEDSS).

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending December 26, 2009, and December 20, 2008 (51st week)*

| Reporting area | Streptococcal diseases, invasive, group A | | | | | <i>Streptococcus pneumoniae</i> , invasive disease, nondrug resistant† Age <5 years | | | | |
|----------------------|---|-------------------|-----|----------|----------|--|-------------------|-----|----------|----------|
| | Current week | Previous 52 weeks | | Cum 2009 | Cum 2008 | Current week | Previous 52 weeks | | Cum 2009 | Cum 2008 |
| | | Med | Max | | | | Med | Max | | |
| United States | 26 | 97 | 239 | 4,756 | 5,294 | 28 | 33 | 122 | 1,717 | 1,823 |
| New England | — | 5 | 28 | 274 | 364 | — | 1 | 11 | 68 | 96 |
| Connecticut | — | 0 | 21 | 72 | 97 | — | 0 | 11 | 11 | 11 |
| Maine§ | — | 0 | 2 | 18 | 27 | — | 0 | 1 | 6 | 2 |
| Massachusetts | — | 2 | 10 | 120 | 171 | — | 0 | 4 | 35 | 62 |
| New Hampshire | — | 0 | 4 | 35 | 29 | — | 0 | 2 | 11 | 11 |
| Rhode Island§ | — | 0 | 2 | 11 | 27 | — | 0 | 1 | 1 | 10 |
| Vermont§ | — | 0 | 3 | 18 | 13 | — | 0 | 1 | 4 | — |
| Mid. Atlantic | 9 | 16 | 43 | 946 | 1,045 | 5 | 4 | 33 | 235 | 229 |
| New Jersey | — | 2 | 7 | 124 | 188 | — | 0 | 4 | 38 | 70 |
| New York (Upstate) | 8 | 7 | 25 | 318 | 322 | 5 | 2 | 17 | 124 | 99 |
| New York City | — | 4 | 12 | 179 | 198 | — | 0 | 31 | 73 | 60 |
| Pennsylvania | 1 | 6 | 18 | 325 | 337 | N | 0 | 2 | N | N |
| E.N. Central | 2 | 15 | 42 | 851 | 959 | — | 6 | 18 | 276 | 327 |
| Illinois | — | 4 | 13 | 243 | 260 | — | 1 | 4 | 48 | 94 |
| Indiana | — | 2 | 23 | 128 | 127 | — | 0 | 13 | 37 | 31 |
| Michigan | — | 3 | 11 | 144 | 177 | — | 1 | 4 | 69 | 85 |
| Ohio | 2 | 3 | 13 | 207 | 254 | — | 1 | 6 | 77 | 62 |
| Wisconsin | — | 1 | 11 | 129 | 141 | — | 1 | 3 | 45 | 55 |
| W.N. Central | — | 6 | 37 | 373 | 372 | 7 | 2 | 12 | 153 | 109 |
| Iowa | — | 0 | 0 | — | — | — | 0 | 0 | — | — |
| Kansas | — | 0 | 5 | 37 | 37 | N | 0 | 1 | N | N |
| Minnesota | — | 0 | 34 | 171 | 172 | 7 | 0 | 10 | 88 | 43 |
| Missouri | — | 2 | 8 | 85 | 89 | — | 0 | 4 | 37 | 37 |
| Nebraska§ | — | 1 | 3 | 42 | 41 | — | 0 | 2 | 16 | 9 |
| North Dakota | — | 0 | 4 | 17 | 10 | — | 0 | 3 | 5 | 9 |
| South Dakota | — | 0 | 3 | 21 | 23 | — | 0 | 2 | 7 | 11 |
| S. Atlantic | 8 | 21 | 49 | 1,095 | 1,119 | 7 | 6 | 18 | 330 | 360 |
| Delaware | — | 0 | 1 | 11 | 10 | — | 0 | 0 | — | — |
| District of Columbia | — | 0 | 3 | 13 | 14 | N | 0 | 0 | N | N |
| Florida | 5 | 5 | 12 | 275 | 262 | 1 | 1 | 6 | 73 | 69 |
| Georgia | 2 | 5 | 13 | 253 | 256 | 2 | 2 | 6 | 94 | 101 |
| Maryland§ | 1 | 3 | 12 | 188 | 186 | 3 | 1 | 7 | 81 | 58 |
| North Carolina | — | 1 | 12 | 91 | 136 | N | 0 | 0 | N | N |
| South Carolina§ | — | 1 | 5 | 71 | 74 | 1 | 1 | 4 | 46 | 71 |
| Virginia§ | — | 3 | 9 | 155 | 141 | — | 0 | 4 | 23 | 48 |
| West Virginia | — | 0 | 4 | 38 | 40 | — | 0 | 3 | 13 | 13 |
| E.S. Central | — | 3 | 10 | 190 | 189 | — | 2 | 7 | 101 | 93 |
| Alabama§ | N | 0 | 0 | N | N | N | 0 | 0 | N | N |
| Kentucky | — | 1 | 3 | 39 | 44 | N | 0 | 0 | N | N |
| Mississippi | N | 0 | 0 | N | N | — | 0 | 2 | 20 | 10 |
| Tennessee§ | — | 3 | 9 | 151 | 145 | — | 1 | 6 | 81 | 83 |
| W.S. Central | 4 | 8 | 79 | 425 | 500 | 3 | 5 | 46 | 283 | 296 |
| Arkansas§ | — | 0 | 3 | 20 | 11 | — | 0 | 4 | 26 | 15 |
| Louisiana | — | 0 | 3 | 11 | 18 | — | 0 | 3 | 13 | 14 |
| Oklahoma | — | 2 | 20 | 127 | 117 | 3 | 1 | 7 | 58 | 68 |
| Texas§ | 4 | 5 | 59 | 267 | 354 | — | 3 | 34 | 186 | 199 |
| Mountain | 3 | 10 | 22 | 444 | 571 | 6 | 4 | 16 | 240 | 265 |
| Arizona | 1 | 3 | 7 | 155 | 195 | 2 | 2 | 10 | 118 | 115 |
| Colorado | 2 | 2 | 7 | 125 | 139 | 4 | 0 | 4 | 53 | 61 |
| Idaho§ | — | 0 | 2 | 10 | 16 | — | 0 | 2 | 9 | 6 |
| Montana§ | N | 0 | 0 | N | N | N | 0 | 0 | N | N |
| Nevada§ | — | 0 | 1 | 5 | 13 | — | 0 | 0 | — | 6 |
| New Mexico§ | — | 1 | 6 | 80 | 140 | — | 0 | 4 | 24 | 39 |
| Utah | — | 1 | 6 | 68 | 59 | — | 0 | 5 | 36 | 36 |
| Wyoming§ | — | 0 | 1 | 1 | 9 | — | 0 | 0 | — | 2 |
| Pacific | — | 3 | 9 | 158 | 175 | — | 0 | 4 | 31 | 48 |
| Alaska | — | 1 | 4 | 37 | 40 | — | 0 | 3 | 23 | 29 |
| California | N | 0 | 0 | N | N | N | 0 | 0 | N | N |
| Hawaii | — | 2 | 8 | 121 | 135 | — | 0 | 2 | 8 | 19 |
| Oregon§ | N | 0 | 0 | N | N | N | 0 | 0 | N | N |
| Washington | N | 0 | 0 | N | N | N | 0 | 0 | N | N |
| American Samoa | — | 0 | 0 | — | 30 | N | 0 | 0 | N | N |
| C.N.M.I. | — | — | — | — | — | — | — | — | — | — |
| Guam | — | 0 | 0 | — | — | — | 0 | 0 | — | — |
| Puerto Rico | N | 0 | 0 | N | N | N | 0 | 0 | N | N |
| U.S. Virgin Islands | — | 0 | 0 | — | — | N | 0 | 0 | N | N |

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

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

* Incidence data for reporting year 2009 is provisional.

† Includes cases of invasive pneumococcal disease, in children aged <5 years, caused by *S. pneumoniae*, which is susceptible or for which susceptibility testing is not available (NNDSS event code 11717).

§ Contains data reported through the National Electronic Disease Surveillance System (NEDSS).

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending December 26, 2009, and December 20, 2008 (51st week)*

| Reporting area | <i>Streptococcus pneumoniae</i> , invasive disease, drug resistant† | | | | | | | | | | Syphilis, primary and secondary | | | | |
|----------------------|---|-------------------|-----|----------|---------------|--------------|-------------------|----|----------|----------|---------------------------------|-------------------|-----|----------|----------|
| | All ages | | | | Aged <5 years | | | | | | | | | | |
| | Current week | Previous 52 weeks | | Cum 2009 | Cum 2008 | Current week | Previous 52 weeks | | Cum 2009 | Cum 2008 | Current week | Previous 52 weeks | | Cum 2009 | Cum 2008 |
| | Med | Max | | | | Med | Max | | | | Med | Max | | | |
| United States | 34 | 52 | 276 | 2,723 | 3,104 | 8 | 8 | 20 | 446 | 507 | 47 | 268 | 452 | 12,877 | 12,915 |
| New England | 1 | 1 | 50 | 106 | 118 | — | 0 | 11 | 14 | 17 | 3 | 6 | 15 | 312 | 302 |
| Connecticut | — | 0 | 50 | 50 | 55 | — | 0 | 11 | 11 | 5 | — | 1 | 5 | 55 | 31 |
| Maine§ | 1 | 0 | 2 | 20 | 18 | — | 0 | 1 | 1 | 2 | — | 0 | 1 | 4 | 10 |
| Massachusetts | — | 0 | 1 | 3 | — | — | 0 | 1 | 2 | — | — | 4 | 10 | 223 | 213 |
| New Hampshire | — | 0 | 3 | 5 | — | — | 0 | 0 | — | — | — | 0 | 2 | 14 | 19 |
| Rhode Island§ | — | 0 | 4 | 15 | 30 | — | 0 | 0 | — | 8 | 3 | 0 | 5 | 16 | 18 |
| Vermont§ | — | 0 | 2 | 13 | 15 | — | 0 | 0 | — | 2 | — | 0 | 0 | — | 11 |
| Mid. Atlantic | 2 | 2 | 14 | 171 | 299 | 1 | 0 | 3 | 26 | 30 | 25 | 34 | 50 | 1,731 | 1,666 |
| New Jersey | — | 0 | 0 | — | — | — | 0 | 0 | — | — | — | 3 | 13 | 203 | 218 |
| New York (Upstate) | 1 | 1 | 10 | 78 | 68 | 1 | 0 | 2 | 15 | 9 | 1 | 2 | 8 | 117 | 138 |
| New York City | — | 0 | 4 | 8 | 123 | — | 0 | 2 | — | 4 | 18 | 22 | 39 | 1,074 | 1,041 |
| Pennsylvania | 1 | 1 | 8 | 85 | 108 | — | 0 | 2 | 11 | 17 | 6 | 7 | 13 | 337 | 269 |
| E.N. Central | 8 | 11 | 41 | 600 | 617 | 2 | 2 | 7 | 90 | 78 | — | 23 | 40 | 1,187 | 1,280 |
| Illinois | N | 0 | 0 | N | N | N | 0 | 0 | N | N | — | 10 | 29 | 535 | 530 |
| Indiana | — | 3 | 32 | 186 | 210 | — | 0 | 6 | 27 | 23 | — | 2 | 10 | 144 | 136 |
| Michigan | — | 0 | 2 | 24 | 23 | — | 0 | 1 | 3 | 2 | — | 4 | 13 | 229 | 209 |
| Ohio | 8 | 7 | 18 | 390 | 384 | 2 | 1 | 4 | 60 | 53 | — | 5 | 12 | 243 | 341 |
| Wisconsin | — | 0 | 0 | — | — | — | 0 | 0 | — | — | — | 0 | 3 | 36 | 64 |
| W.N. Central | 2 | 2 | 161 | 118 | 204 | — | 0 | 3 | 21 | 40 | — | 6 | 12 | 302 | 395 |
| Iowa | — | 0 | 0 | — | — | — | 0 | 0 | — | — | — | 0 | 2 | 19 | 16 |
| Kansas | — | 0 | 5 | 38 | 77 | — | 0 | 2 | 13 | 6 | — | 0 | 3 | 29 | 29 |
| Minnesota | — | 0 | 156 | — | 28 | — | 0 | 3 | — | 28 | — | 1 | 4 | 69 | 113 |
| Missouri | 2 | 1 | 5 | 66 | 88 | — | 0 | 1 | 6 | 3 | — | 3 | 8 | 163 | 221 |
| Nebraska§ | — | 0 | 1 | 2 | — | — | 0 | 0 | — | — | — | 0 | 3 | 17 | 15 |
| North Dakota | — | 0 | 3 | 10 | 2 | — | 0 | 0 | — | — | — | 0 | 1 | 4 | — |
| South Dakota | — | 0 | 2 | 2 | 9 | — | 0 | 2 | 2 | 3 | — | 0 | 1 | 1 | 1 |
| S. Atlantic | 18 | 25 | 53 | 1,279 | 1,325 | 5 | 4 | 12 | 218 | 248 | 10 | 62 | 262 | 3,134 | 2,885 |
| Delaware | — | 0 | 2 | 18 | 3 | — | 0 | 2 | 3 | — | — | 0 | 3 | 27 | 15 |
| District of Columbia | N | 0 | 0 | N | N | N | 0 | 0 | N | N | — | 3 | 8 | 163 | 145 |
| Florida | 10 | 14 | 36 | 743 | 758 | 4 | 2 | 9 | 131 | 156 | 4 | 19 | 32 | 964 | 1,021 |
| Georgia | 4 | 8 | 25 | 409 | 446 | 1 | 1 | 5 | 76 | 78 | — | 14 | 227 | 750 | 687 |
| Maryland§ | — | 0 | 1 | 4 | 7 | — | 0 | 0 | — | 1 | 2 | 6 | 16 | 282 | 358 |
| North Carolina | N | 0 | 0 | N | N | N | 0 | 0 | N | N | 4 | 9 | 31 | 545 | 285 |
| South Carolina§ | — | 0 | 0 | — | — | — | 0 | 0 | — | — | — | 2 | 6 | 113 | 96 |
| Virginia§ | N | 0 | 0 | N | N | N | 0 | 0 | N | N | — | 5 | 15 | 286 | 265 |
| West Virginia | 4 | 1 | 13 | 105 | 111 | — | 0 | 2 | 8 | 13 | — | 0 | 2 | 4 | 13 |
| E.S. Central | 2 | 4 | 25 | 257 | 314 | — | 0 | 3 | 35 | 59 | 6 | 22 | 36 | 1,088 | 1,090 |
| Alabama§ | N | 0 | 0 | N | N | N | 0 | 0 | N | N | — | 8 | 18 | 398 | 437 |
| Kentucky | 1 | 2 | 5 | 77 | 75 | — | 0 | 2 | 9 | 11 | — | 1 | 13 | 80 | 82 |
| Mississippi | — | 0 | 3 | 4 | 41 | — | 0 | 1 | 3 | 14 | 3 | 4 | 16 | 214 | 166 |
| Tennessee§ | 1 | 2 | 23 | 176 | 198 | — | 0 | 3 | 23 | 34 | 3 | 8 | 15 | 396 | 405 |
| W.S. Central | 1 | 1 | 6 | 87 | 100 | — | 0 | 3 | 16 | 16 | — | 53 | 79 | 2,526 | 2,320 |
| Arkansas§ | 1 | 1 | 5 | 55 | 21 | — | 0 | 3 | 11 | 5 | — | 5 | 35 | 250 | 169 |
| Louisiana | — | 0 | 5 | 32 | 79 | — | 0 | 1 | 5 | 11 | — | 12 | 41 | 602 | 690 |
| Oklahoma | N | 0 | 0 | N | N | N | 0 | 0 | N | N | — | 1 | 5 | 70 | 85 |
| Texas§ | — | 0 | 0 | — | — | — | 0 | 0 | — | — | — | 31 | 48 | 1,604 | 1,376 |
| Mountain | — | 2 | 7 | 102 | 125 | — | 0 | 2 | 24 | 17 | — | 8 | 18 | 426 | 588 |
| Arizona | — | 0 | 0 | — | — | — | 0 | 0 | — | — | — | 3 | 9 | 170 | 309 |
| Colorado | — | 0 | 0 | — | — | — | 0 | 0 | — | — | — | 1 | 4 | 83 | 126 |
| Idaho§ | N | 0 | 1 | N | N | N | 0 | 1 | N | N | — | 0 | 1 | 3 | 7 |
| Montana§ | — | 0 | 0 | — | 1 | — | 0 | 0 | — | — | — | 0 | 7 | 1 | — |
| Nevada§ | — | 0 | 4 | 34 | 54 | — | 0 | 2 | 6 | 6 | — | 1 | 10 | 92 | 76 |
| New Mexico§ | — | 0 | 1 | 1 | — | — | 0 | 0 | — | — | — | 1 | 5 | 58 | 42 |
| Utah | — | 1 | 5 | 55 | 67 | — | 0 | 2 | 16 | 11 | — | 0 | 2 | 16 | 25 |
| Wyoming§ | — | 0 | 2 | 12 | 3 | — | 0 | 1 | 2 | — | — | 0 | 1 | 3 | 3 |
| Pacific | — | 0 | 1 | 3 | 2 | — | 0 | 1 | 2 | 2 | 3 | 43 | 68 | 2,171 | 2,389 |
| Alaska | — | 0 | 0 | — | — | — | 0 | 0 | — | — | — | 0 | 0 | — | 1 |
| California | N | 0 | 0 | N | N | N | 0 | 0 | N | N | 1 | 39 | 61 | 1,977 | 2,156 |
| Hawaii | — | 0 | 1 | 3 | 2 | — | 0 | 1 | 2 | 2 | — | 0 | 3 | 27 | 29 |
| Oregon§ | N | 0 | 0 | N | N | N | 0 | 0 | N | N | — | 1 | 5 | 44 | 23 |
| Washington | N | 0 | 0 | N | N | N | 0 | 0 | N | N | 2 | 2 | 7 | 123 | 180 |
| American Samoa | N | 0 | 0 | N | N | N | 0 | 0 | N | N | — | 0 | 0 | — | — |
| C.N.M.I. | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Guam | — | 0 | 0 | — | — | — | 0 | 0 | — | — | — | 0 | 0 | — | — |
| Puerto Rico | — | 0 | 0 | — | — | — | 0 | 0 | — | — | — | 3 | 17 | 215 | 159 |
| 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. Cum: Cumulative year-to-date counts. Med: Median. Max: Maximum.

* Incidence data for reporting year 2009 is provisional.

† Includes cases of invasive pneumococcal disease caused by drug-resistant *S. pneumoniae* (DRSP) (NNDSS event code 11720).

§ Contains data reported through the National Electronic Disease Surveillance System (NEDSS).

TABLE I. Provisional cases of infrequently reported notifiable diseases (<1,000 cases reported during the preceding year) — United States, week ending January 2, 2010 (52nd week)*

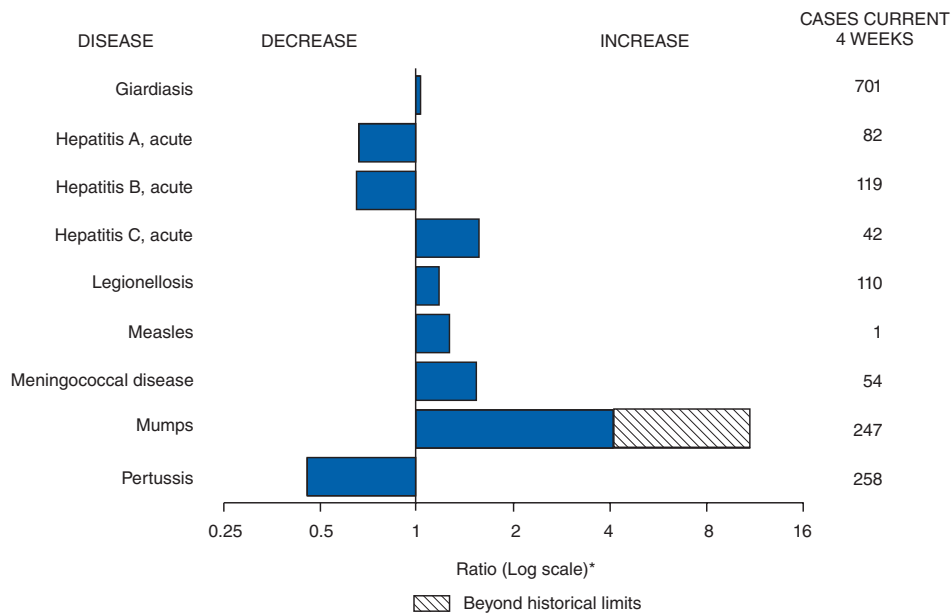
| Disease | Current week | Cum 2009 | 5-year weekly average† | Total cases reported for previous years | | | | | States reporting cases during current week (No.) |
|--|--------------|----------|------------------------|---|------|-------|------|------|---|
| | | | | 2008 | 2007 | 2006 | 2005 | 2004 | |
| Anthrax | — | — | — | — | 1 | 1 | — | — | |
| Botulism: | | | | | | | | | |
| foodborne | — | 12 | 0 | 17 | 32 | 20 | 19 | 16 | |
| infant | — | 57 | 2 | 109 | 85 | 97 | 85 | 87 | |
| other (wound and unspecified) | 1 | 23 | 1 | 19 | 27 | 48 | 31 | 30 | CA (1) |
| Brucellosis | 2 | 100 | 3 | 80 | 131 | 121 | 120 | 114 | FL (2) |
| Chancroid | 1 | 25 | 0 | 25 | 23 | 33 | 17 | 30 | SC (1) |
| Cholera | — | 8 | 0 | 5 | 7 | 9 | 8 | 6 | |
| Cyclosporiasis§ | 2 | 123 | 2 | 139 | 93 | 137 | 543 | 160 | FL (2) |
| Diphtheria | — | — | — | — | — | — | — | — | |
| Domestic arboviral diseases§,¶: | | | | | | | | | |
| California serogroup | — | 41 | 0 | 62 | 55 | 67 | 80 | 112 | |
| eastern equine | — | 4 | — | 4 | 4 | 8 | 21 | 6 | |
| Powassan | — | 1 | — | 2 | 7 | 1 | 1 | 1 | |
| St. Louis | — | 10 | — | 13 | 9 | 10 | 13 | 12 | |
| western equine | — | — | — | — | — | — | — | — | |
| Ehrlichiosis/Anaplasmosis§,**: | | | | | | | | | |
| <i>Ehrlichia chaffeensis</i> | 8 | 801 | 19 | 1,137 | 828 | 578 | 506 | 338 | NY (2), FL (1), TN (1), AR (4) |
| <i>Ehrlichia ewingii</i> | — | 6 | — | 9 | — | — | — | — | |
| <i>Anaplasma phagocytophilum</i> | 4 | 690 | 29 | 1,026 | 834 | 646 | 786 | 537 | NY (3), AL (1) |
| undetermined | — | 122 | 2 | 180 | 337 | 231 | 112 | 59 | |
| <i>Haemophilus influenzae</i> ,†† | | | | | | | | | |
| invasive disease (age <5 yrs): | | | | | | | | | |
| serotype b | — | 25 | 1 | 30 | 22 | 29 | 9 | 19 | |
| nonserotype b | 1 | 203 | 5 | 244 | 199 | 175 | 135 | 135 | FL (1) |
| unknown serotype | 4 | 218 | 4 | 163 | 180 | 179 | 217 | 177 | PA (1), GA (1), FL (1), TN (1) |
| Hansen disease§ | 1 | 59 | 2 | 80 | 101 | 66 | 87 | 105 | FL (1) |
| Hantavirus pulmonary syndrome§ | — | 12 | 1 | 18 | 32 | 40 | 26 | 24 | |
| Hemolytic uremic syndrome, postdiarrheal§ | 2 | 210 | 7 | 330 | 292 | 288 | 221 | 200 | TN (1), CA (1) |
| Hepatitis C viral, acute | 17 | 844 | 23 | 878 | 845 | 766 | 652 | 720 | MI (1), IA (1), NC (10), FL (2), TN (1), OK (1), CO (1) |
| HIV infection, pediatric (age <13 years)§§ | — | — | 2 | — | — | — | 380 | 436 | |
| Influenza-associated pediatric mortality§,¶¶ | 4 | 360 | 1 | 90 | 77 | 43 | 45 | — | OH (2), FL (1), AZ (1) |
| Listeriosis | 10 | 755 | 20 | 759 | 808 | 884 | 896 | 753 | MA (1), NY (2), DE (1), NC (1), FL (4), CA (1) |
| Measles*** | — | 61 | 1 | 140 | 43 | 55 | 66 | 37 | |
| Meningococcal disease, invasive†††: | | | | | | | | | |
| A, C, Y, and W-135 | — | 267 | 7 | 330 | 325 | 318 | 297 | — | |
| serogroup B | 1 | 143 | 5 | 188 | 167 | 193 | 156 | — | OK (1) |
| other serogroup | 1 | 22 | 1 | 38 | 35 | 32 | 27 | — | WV (1) |
| unknown serogroup | 6 | 455 | 19 | 616 | 550 | 651 | 765 | — | NY (1), OR (1), CA (4) |
| Mumps | 4 | 982 | 18 | 454 | 800 | 6,584 | 314 | 258 | NY (3), FL (1) |
| Novel influenza A virus infections | — | §§§ | — | 2 | 4 | N | N | N | |
| Plague | — | 7 | 0 | 3 | 7 | 17 | 8 | 3 | |
| Poliomyelitis, paralytic | — | — | — | — | — | — | 1 | — | |
| Polio virus infection, nonparalytic§ | — | — | — | — | — | N | N | N | |
| Psittacosis§ | 1 | 9 | 0 | 8 | 12 | 21 | 16 | 12 | FL (1) |
| Q fever total§,¶¶¶: | 7 | 95 | 3 | 124 | 171 | 169 | 136 | 70 | |
| acute | 6 | 79 | 2 | 110 | — | — | — | — | MI (1), MD (1), CO (1), CA (3) |
| chronic | 1 | 16 | — | 14 | — | — | — | — | OH (1) |
| Rabies, human | — | 4 | 0 | 2 | 1 | 3 | 2 | 7 | |
| Rubella**** | — | 4 | 0 | 16 | 12 | 11 | 11 | 10 | |
| Rubella, congenital syndrome | — | 1 | — | — | — | 1 | 1 | — | |
| SARS-CoV§,†††† | — | — | — | — | — | — | — | — | |
| Smallpox§ | — | — | — | — | — | — | — | — | |
| Streptococcal toxic-shock syndrome§ | 1 | 125 | 4 | 157 | 132 | 125 | 129 | 132 | NC (1) |
| Syphilis, congenital (age <1 yr) | — | 257 | 9 | 434 | 430 | 349 | 329 | 353 | |
| Tetanus | 1 | 14 | 1 | 19 | 28 | 41 | 27 | 34 | PA (1) |
| Toxic-shock syndrome (staphylococcal)§ | — | 76 | 2 | 71 | 92 | 101 | 90 | 95 | |
| Trichinellosis | — | 12 | 0 | 39 | 5 | 15 | 16 | 5 | |
| Tularemia | 1 | 79 | 2 | 123 | 137 | 95 | 154 | 134 | CA (1) |
| Typhoid fever | 4 | 324 | 8 | 449 | 434 | 353 | 324 | 322 | NC (2), FL (1), CA (1) |
| Vancomycin-intermediate <i>Staphylococcus aureus</i> § | — | 70 | 0 | 63 | 37 | 6 | 2 | — | |
| Vancomycin-resistant <i>Staphylococcus aureus</i> § | — | — | 0 | — | 2 | 1 | 3 | 1 | |
| Vibriosis (noncholera <i>Vibrio</i> species infections)§ | 12 | 593 | 5 | 492 | 549 | N | N | N | NC (1), FL (9), CA (2) |
| Yellow fever | — | — | — | — | — | — | — | — | |

See Table I 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 January 2, 2010 (52nd week)*

—: No reported cases. N: Not reportable. Cum: Cumulative year-to-date counts.
 * Incidence data for reporting year 2009 is provisional, whereas data for 2004 through 2008 are finalized.
 † Calculated by summing the incidence counts for the current week, the 2 weeks preceding the current week, and the 2 weeks following the current week, for a total of 5 preceding years. The total sum of incident cases is then divided by 25 weeks. Additional information is available at <http://www.cdc.gov/epo/dphsi/phs/files/5yearweeklyaverage.pdf>.
 § 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 influenza-associated pediatric mortality, and in 2003 for SARS-CoV. Reporting exceptions are available at <http://www.cdc.gov/epo/dphsi/phs/infdis.htm>.
 ¶ Includes both neuroinvasive and nonneuroinvasive. 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 West Nile virus are available in Table II.
 ** The names of the reporting categories changed in 2008 as a result of revisions to the case definitions. Cases reported prior to 2008 were reported in the categories: Ehrlichiosis, human monocytic (analogous to *E. chaffeensis*); Ehrlichiosis, human granulocytic (analogous to *Anaplasma phagocytophilum*), and Ehrlichiosis, unspecified, or other agent (which included cases unable to be clearly placed in other categories, as well as possible cases of *E. ewingii*).
 †† Data for *H. influenzae* (all ages, all serotypes) are available in Table II.
 §§ Updated monthly from reports to the Division of HIV/AIDS Prevention, National Center for HIV/AIDS, Viral Hepatitis, STD, and TB Prevention. Implementation of HIV reporting influences the number of cases reported. Updates of pediatric HIV data have been temporarily suspended until upgrading of the national HIV/AIDS surveillance data management system is completed. Data for HIV/AIDS, when available, are displayed in Table IV, which appears quarterly.
 ¶¶ Updated weekly from reports to the Influenza Division, National Center for Immunization and Respiratory Diseases. Since April 26, 2009, a total of 248 influenza-associated pediatric deaths associated with 2009 pandemic influenza A (H1N1) virus infection have been reported. Since August 30, 2009, a total of 229 influenza-associated pediatric deaths occurring during the 2009–10 influenza season have been reported. A total of 130 influenza-associated pediatric deaths occurring during the 2008–09 influenza season have been reported.
 *** No measles cases were reported for the current week.
 ††† Data for meningococcal disease (all serogroups) are available in Table II.
 §§§ CDC discontinued reporting of individual confirmed and probable cases of novel influenza A (H1N1) viruses infections on July 24, 2009. CDC will report the total number of novel influenza A (H1N1) hospitalizations and deaths weekly on the CDC H1N1 influenza website (<http://www.cdc.gov/h1n1flu>).
 ¶¶¶ In 2008, Q fever acute and chronic reporting categories were recognized as a result of revisions to the Q fever case definition. Prior to that time, case counts were not differentiated with respect to acute and chronic Q fever cases.
 **** No rubella cases were reported for the current week.
 †††† Updated weekly from reports to the Division of Viral and Rickettsial Diseases, National Center for Zoonotic, Vector-Borne, and Enteric Diseases.

FIGURE I. Selected notifiable disease reports, United States, comparison of provisional 4-week totals January 2, 2010, with historical data



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

Notifiable Disease Data Team and 122 Cities Mortality Data Team
 Patsy A. Hall
 Deborah A. Adams Rosaline Dhara
 Willie J. Anderson Michael S. Wodajo
 Jose Aponte Pearl C. Sharp
 Lenee Blanton

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending January 2, 2010, and December 27, 2008 (52nd week)*

| Reporting area | Pertussis | | | | | Rabies, animal | | | | | Rocky Mountain spotted fever | | | | |
|----------------------|--------------|-------------------|-------|----------|----------|----------------|-------------------|-----|----------|----------|------------------------------|-------------------|-----|----------|----------|
| | Current week | Previous 52 weeks | | Cum 2009 | Cum 2008 | Current week | Previous 52 weeks | | Cum 2009 | Cum 2008 | Current week | Previous 52 weeks | | Cum 2009 | Cum 2008 |
| | | Med | Max | | | | Med | Max | | | | Med | Max | | |
| United States | 53 | 265 | 1,697 | 13,506 | 11,581 | 38 | 65 | 140 | 3,581 | 4,135 | 9 | 22 | 179 | 1,393 | 2,384 |
| New England | — | 12 | 24 | 592 | 1,034 | — | 6 | 24 | 353 | 426 | — | 0 | 2 | 11 | 7 |
| Connecticut | — | 1 | 4 | 48 | 53 | — | 2 | 22 | 150 | 200 | — | 0 | 0 | — | — |
| Maine† | — | 1 | 10 | 78 | 49 | — | 1 | 4 | 55 | 63 | — | 0 | 2 | 5 | 1 |
| Massachusetts | — | 7 | 18 | 348 | 788 | — | 0 | 0 | — | — | — | 0 | 1 | 5 | 2 |
| New Hampshire | — | 1 | 7 | 76 | 46 | — | 0 | 3 | 33 | 56 | — | 0 | 0 | — | 1 |
| Rhode Island† | — | 0 | 7 | 31 | 86 | — | 1 | 7 | 51 | 34 | — | 0 | 0 | — | 3 |
| Vermont† | — | 0 | 1 | 11 | 12 | — | 1 | 5 | 64 | 73 | — | 0 | 1 | 1 | — |
| Mid. Atlantic | 4 | 21 | 44 | 1,101 | 1,267 | 4 | 11 | 23 | 576 | 933 | — | 1 | 6 | 67 | 153 |
| New Jersey | — | 3 | 11 | 158 | 237 | — | 0 | 0 | — | — | — | 0 | 1 | — | 84 |
| New York (Upstate) | 2 | 4 | 15 | 252 | 456 | 4 | 7 | 22 | 436 | 494 | — | 0 | 3 | 11 | 43 |
| New York City | — | 1 | 21 | 92 | 93 | — | 0 | 3 | 22 | 19 | — | 0 | 4 | 33 | 11 |
| Pennsylvania | 2 | 12 | 29 | 599 | 481 | — | 0 | 16 | 118 | 420 | — | 0 | 2 | 23 | 15 |
| E.N. Central | 34 | 55 | 238 | 2,990 | 2,014 | — | 2 | 19 | 223 | 255 | — | 1 | 7 | 88 | 150 |
| Illinois | — | 12 | 33 | 570 | 610 | — | 1 | 9 | 87 | 103 | — | 0 | 6 | 50 | 110 |
| Indiana | — | 6 | 158 | 338 | 112 | — | 0 | 6 | 23 | 10 | — | 0 | 3 | 13 | 6 |
| Michigan | 3 | 14 | 40 | 854 | 312 | — | 1 | 6 | 66 | 78 | — | 0 | 2 | 5 | 3 |
| Ohio | 31 | 18 | 57 | 1,096 | 788 | — | 0 | 5 | 47 | 64 | — | 0 | 4 | 18 | 31 |
| Wisconsin | — | 3 | 12 | 132 | 192 | N | 0 | 0 | N | N | — | 0 | 1 | 2 | — |
| W.N. Central | 2 | 30 | 872 | 1,678 | 1,455 | — | 7 | 18 | 325 | 306 | — | 3 | 27 | 341 | 437 |
| Iowa | — | 3 | 10 | 192 | 250 | — | 0 | 3 | 24 | 29 | — | 0 | 1 | 4 | 8 |
| Kansas | — | 3 | 9 | 146 | 99 | — | 1 | 6 | 60 | 66 | — | 0 | 1 | 2 | — |
| Minnesota | — | 0 | 808 | 165 | 226 | — | 0 | 11 | 61 | 64 | — | 0 | 2 | 4 | — |
| Missouri | 1 | 19 | 47 | 975 | 539 | — | 1 | 5 | 65 | 64 | — | 3 | 26 | 319 | 406 |
| Nebraska† | 1 | 2 | 11 | 141 | 273 | — | 1 | 6 | 77 | 34 | — | 0 | 2 | 12 | 20 |
| North Dakota | — | 0 | 24 | 29 | 1 | — | 0 | 9 | 11 | 25 | — | 0 | 1 | — | — |
| South Dakota | — | 0 | 6 | 30 | 67 | — | 0 | 4 | 27 | 24 | — | 0 | 0 | — | 3 |
| S. Atlantic | 3 | 29 | 71 | 1,551 | 1,033 | 33 | 25 | 111 | 1,630 | 1,635 | 2 | 8 | 27 | 455 | 947 |
| Delaware | — | 0 | 2 | 13 | 18 | — | 0 | 0 | — | — | — | 0 | 3 | 18 | 33 |
| District of Columbia | — | 0 | 1 | 3 | 7 | — | 0 | 0 | — | — | — | 0 | 0 | — | 6 |
| Florida | 2 | 8 | 29 | 500 | 306 | — | 0 | 95 | 156 | 138 | 1 | 0 | 2 | 12 | 18 |
| Georgia | — | 3 | 11 | 194 | 111 | 31 | 0 | 72 | 440 | 381 | — | 0 | 7 | 48 | 78 |
| Maryland† | 1 | 2 | 8 | 134 | 163 | — | 7 | 15 | 379 | 416 | — | 0 | 3 | 37 | 92 |
| North Carolina | — | 0 | 65 | 223 | 79 | N | 4 | 4 | N | N | — | 4 | 25 | 264 | 499 |
| South Carolina† | — | 4 | 18 | 252 | 140 | — | 0 | 0 | — | — | 1 | 0 | 5 | 19 | 56 |
| Virginia† | — | 3 | 13 | 198 | 198 | — | 10 | 26 | 536 | 620 | — | 1 | 5 | 53 | 155 |
| West Virginia | — | 0 | 5 | 34 | 11 | 2 | 3 | 6 | 119 | 80 | — | 0 | 1 | 4 | 10 |
| E.S. Central | 2 | 14 | 30 | 760 | 460 | 1 | 1 | 6 | 84 | 179 | — | 3 | 16 | 257 | 337 |
| Alabama† | — | 4 | 19 | 285 | 67 | — | 0 | 0 | — | — | — | 1 | 7 | 65 | 93 |
| Kentucky | — | 3 | 15 | 219 | 176 | 1 | 1 | 4 | 46 | 45 | — | 0 | 1 | 1 | 1 |
| Mississippi | — | 1 | 4 | 66 | 103 | — | 0 | 1 | 4 | 7 | — | 0 | 1 | 7 | 11 |
| Tennessee† | 2 | 3 | 9 | 190 | 114 | — | 0 | 4 | 34 | 127 | — | 3 | 14 | 184 | 232 |
| W.S. Central | — | 61 | 389 | 2,882 | 2,049 | — | 0 | 13 | 70 | 89 | 7 | 1 | 161 | 150 | 304 |
| Arkansas† | — | 5 | 38 | 278 | 159 | — | 0 | 10 | 36 | 45 | 7 | 0 | 61 | 71 | 68 |
| Louisiana | — | 1 | 8 | 90 | 93 | — | 0 | 0 | — | — | — | 0 | 1 | 2 | 6 |
| Oklahoma | — | 0 | 45 | 77 | 55 | — | 0 | 13 | 33 | 42 | — | 0 | 98 | 53 | 170 |
| Texas† | — | 50 | 304 | 2,437 | 1,742 | — | 0 | 1 | 1 | 2 | — | 0 | 3 | 24 | 60 |
| Mountain | 8 | 17 | 32 | 890 | 864 | — | 1 | 6 | 88 | 107 | — | 0 | 3 | 23 | 46 |
| Arizona | — | 4 | 12 | 224 | 218 | N | 0 | 0 | N | N | — | 0 | 1 | 8 | 17 |
| Colorado | 4 | 4 | 12 | 233 | 154 | — | 0 | 0 | — | — | — | 0 | 1 | 1 | 1 |
| Idaho† | 3 | 1 | 19 | 99 | 37 | — | 0 | 0 | — | 11 | — | 0 | 1 | 1 | 1 |
| Montana† | 1 | 0 | 6 | 57 | 84 | — | 0 | 4 | 25 | 13 | — | 0 | 2 | 8 | 3 |
| Nevada† | — | 0 | 3 | 9 | 28 | — | 0 | 1 | 1 | 12 | — | 0 | 0 | — | 3 |
| New Mexico† | — | 1 | 6 | 66 | 92 | — | 0 | 2 | 24 | 29 | — | 0 | 1 | 1 | 4 |
| Utah | — | 3 | 16 | 181 | 234 | — | 0 | 2 | 11 | 14 | — | 0 | 1 | 1 | 7 |
| Wyoming† | — | 0 | 5 | 21 | 17 | — | 0 | 4 | 27 | 28 | — | 0 | 1 | 3 | 10 |
| Pacific | — | 21 | 67 | 1,062 | 1,405 | — | 4 | 12 | 232 | 205 | — | 0 | 1 | 1 | 3 |
| Alaska | — | 1 | 4 | 49 | 276 | — | 0 | 2 | 12 | 15 | N | 0 | 0 | N | N |
| California | — | 10 | 22 | 473 | 527 | — | 4 | 12 | 205 | 177 | — | 0 | 1 | 1 | — |
| Hawaii | — | 0 | 3 | 29 | 20 | — | 0 | 0 | — | — | N | 0 | 0 | N | N |
| Oregon† | — | 3 | 15 | 246 | 180 | — | 0 | 3 | 15 | 13 | — | 0 | 0 | — | 3 |
| Washington | — | 5 | 58 | 265 | 402 | — | 0 | 0 | — | — | — | 0 | 0 | — | — |
| American Samoa | — | 0 | 0 | — | — | N | 0 | 0 | N | N | N | 0 | 0 | N | N |
| C.N.M.I. | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Guam | — | 0 | 0 | — | — | — | 0 | 0 | — | — | N | 0 | 0 | N | N |
| Puerto Rico | — | 0 | 1 | 1 | — | — | 1 | 3 | 39 | 58 | N | 0 | 0 | N | N |
| U.S. Virgin Islands | — | 0 | 0 | — | — | N | 0 | 0 | N | N | N | 0 | 0 | N | N |

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

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

* Incidence data for reporting year 2009 is provisional.

† Contains data reported through the National Electronic Disease Surveillance System (NEDSS).

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending January 2, 2010, and December 27, 2008 (52nd week)*

| Reporting area | Salmonellosis | | | | | Shiga toxin-producing <i>E. coli</i> (STEC) [†] | | | | | Shigellosis | | | | |
|-----------------------------|---------------|-------------------|-------|----------|----------|--|-------------------|-----|----------|----------|--------------|-------------------|-------|----------|----------|
| | Current week | Previous 52 weeks | | Cum 2009 | Cum 2008 | Current week | Previous 52 weeks | | Cum 2009 | Cum 2008 | Current week | Previous 52 weeks | | Cum 2009 | Cum 2008 |
| | | Med | Max | | | | Med | Max | | | | Med | Max | | |
| United States | 367 | 854 | 2,323 | 44,468 | 48,717 | 22 | 85 | 255 | 4,323 | 5,054 | 144 | 285 | 1,268 | 14,581 | 21,357 |
| New England | 4 | 31 | 431 | 2,110 | 2,215 | — | 3 | 65 | 282 | 262 | — | 4 | 45 | 335 | 242 |
| Connecticut | — | 0 | 406 | 406 | 491 | — | 0 | 65 | 65 | 47 | — | 0 | 40 | 40 | 40 |
| Maine [§] | 1 | 2 | 7 | 119 | 155 | — | 0 | 3 | 19 | 26 | — | 0 | 2 | 5 | 20 |
| Massachusetts | 2 | 23 | 51 | 1,159 | 1,206 | — | 2 | 6 | 100 | 116 | — | 3 | 27 | 243 | 159 |
| New Hampshire | — | 3 | 42 | 243 | 152 | — | 1 | 3 | 36 | 33 | — | 0 | 4 | 19 | 6 |
| Rhode Island [§] | — | 2 | 11 | 122 | 114 | — | 0 | 26 | 38 | 10 | — | 0 | 7 | 23 | 12 |
| Vermont [§] | 1 | 1 | 5 | 61 | 97 | — | 0 | 3 | 24 | 30 | — | 0 | 1 | 5 | 5 |
| Mid. Atlantic | 33 | 86 | 196 | 5,001 | 5,788 | — | 6 | 21 | 342 | 470 | 17 | 57 | 87 | 2,642 | 2,530 |
| New Jersey | — | 13 | 46 | 802 | 1,285 | — | 0 | 4 | 33 | 135 | — | 9 | 27 | 516 | 909 |
| New York (Upstate) | 25 | 23 | 66 | 1,321 | 1,491 | — | 2 | 9 | 146 | 187 | 3 | 4 | 11 | 226 | 596 |
| New York City | 1 | 22 | 42 | 1,171 | 1,265 | — | 1 | 5 | 57 | 55 | 1 | 8 | 15 | 432 | 730 |
| Pennsylvania | 7 | 30 | 65 | 1,707 | 1,747 | — | 2 | 8 | 106 | 93 | 13 | 27 | 63 | 1,468 | 295 |
| E.N. Central | 11 | 91 | 152 | 4,597 | 5,142 | 2 | 15 | 34 | 785 | 866 | 12 | 49 | 96 | 2,329 | 4,244 |
| Illinois | — | 24 | 52 | 1,294 | 1,497 | — | 3 | 10 | 138 | 133 | — | 11 | 30 | 538 | 977 |
| Indiana | — | 6 | 50 | 349 | 602 | — | 1 | 8 | 79 | 93 | — | 1 | 21 | 58 | 586 |
| Michigan | 2 | 18 | 34 | 911 | 953 | 1 | 3 | 8 | 158 | 217 | 2 | 4 | 13 | 212 | 249 |
| Ohio | 9 | 27 | 52 | 1,407 | 1,338 | 1 | 3 | 11 | 133 | 201 | 10 | 19 | 57 | 1,096 | 1,870 |
| Wisconsin | — | 12 | 29 | 636 | 752 | — | 5 | 20 | 277 | 222 | — | 7 | 26 | 425 | 562 |
| W.N. Central | 12 | 44 | 109 | 2,472 | 2,769 | 4 | 11 | 37 | 706 | 800 | 43 | 23 | 73 | 1,373 | 923 |
| Iowa | 1 | 7 | 16 | 398 | 423 | — | 2 | 14 | 153 | 205 | — | 1 | 9 | 54 | 205 |
| Kansas | — | 5 | 18 | 269 | 458 | — | 0 | 4 | 32 | 51 | — | 3 | 11 | 159 | 65 |
| Minnesota | — | 12 | 51 | 572 | 697 | — | 2 | 19 | 222 | 188 | — | 1 | 8 | 81 | 303 |
| Missouri | 8 | 12 | 30 | 667 | 750 | 3 | 2 | 10 | 144 | 151 | 43 | 16 | 72 | 1,037 | 225 |
| Nebraska [§] | 1 | 5 | 41 | 337 | 240 | — | 1 | 6 | 87 | 150 | — | 0 | 3 | 33 | 16 |
| North Dakota | 2 | 0 | 30 | 73 | 49 | 1 | 0 | 28 | 8 | 2 | — | 0 | 9 | 5 | 33 |
| South Dakota | — | 2 | 22 | 156 | 152 | — | 0 | 12 | 60 | 53 | — | 0 | 1 | 4 | 76 |
| S. Atlantic | 175 | 276 | 452 | 13,488 | 12,661 | 4 | 12 | 30 | 636 | 814 | 20 | 43 | 79 | 2,268 | 3,218 |
| Delaware | — | 2 | 9 | 137 | 148 | — | 0 | 2 | 13 | 14 | — | 3 | 10 | 151 | 12 |
| District of Columbia | — | 0 | 5 | 26 | 62 | — | 0 | 1 | 1 | 6 | — | 0 | 2 | 8 | 21 |
| Florida | 148 | 131 | 278 | 6,749 | 5,232 | 3 | 4 | 7 | 177 | 144 | 9 | 8 | 24 | 462 | 796 |
| Georgia | 10 | 42 | 98 | 2,365 | 2,289 | — | 1 | 4 | 71 | 87 | 2 | 12 | 29 | 650 | 1,099 |
| Maryland [§] | 6 | 16 | 32 | 784 | 871 | — | 2 | 5 | 93 | 125 | 1 | 6 | 19 | 361 | 133 |
| North Carolina | 1 | 17 | 92 | 1,053 | 1,528 | 1 | 1 | 21 | 87 | 121 | 6 | 4 | 27 | 317 | 268 |
| South Carolina [§] | 5 | 18 | 67 | 1,153 | 1,158 | — | 0 | 3 | 30 | 45 | 1 | 2 | 9 | 121 | 545 |
| Virginia [§] | 3 | 20 | 45 | 1,004 | 1,165 | — | 2 | 7 | 133 | 240 | 1 | 3 | 12 | 188 | 310 |
| West Virginia | 2 | 4 | 23 | 217 | 208 | — | 0 | 5 | 31 | 32 | — | 0 | 3 | 10 | 34 |
| E.S. Central | 5 | 52 | 113 | 2,937 | 3,492 | — | 4 | 12 | 212 | 283 | 3 | 13 | 46 | 775 | 1,937 |
| Alabama [§] | — | 15 | 39 | 850 | 998 | — | 1 | 4 | 45 | 63 | 2 | 2 | 11 | 142 | 420 |
| Kentucky | 1 | 8 | 18 | 451 | 481 | — | 1 | 4 | 70 | 100 | — | 2 | 25 | 221 | 264 |
| Mississippi | — | 14 | 45 | 853 | 1,074 | — | 0 | 1 | 6 | 5 | — | 1 | 4 | 47 | 296 |
| Tennessee [§] | 4 | 14 | 33 | 783 | 939 | — | 1 | 10 | 91 | 115 | 1 | 6 | 16 | 365 | 957 |
| W.S. Central | 28 | 94 | 1,333 | 4,751 | 7,068 | — | 5 | 139 | 264 | 396 | 27 | 47 | 967 | 2,499 | 5,160 |
| Arkansas [§] | 8 | 10 | 25 | 607 | 775 | — | 1 | 4 | 43 | 57 | 4 | 6 | 16 | 310 | 569 |
| Louisiana | — | 6 | 43 | 599 | 1,110 | — | 0 | 0 | — | 9 | — | 1 | 8 | 108 | 639 |
| Oklahoma | 5 | 12 | 102 | 615 | 804 | — | 0 | 82 | 35 | 53 | 5 | 6 | 61 | 308 | 176 |
| Texas [§] | 15 | 56 | 1,204 | 2,930 | 4,379 | — | 3 | 55 | 186 | 277 | 18 | 33 | 889 | 1,773 | 3,776 |
| Mountain | 20 | 52 | 128 | 2,812 | 3,364 | 4 | 9 | 26 | 538 | 629 | 8 | 20 | 49 | 1,117 | 1,238 |
| Arizona | 4 | 20 | 50 | 1,051 | 1,130 | — | 1 | 4 | 71 | 67 | 6 | 15 | 42 | 808 | 634 |
| Colorado | 12 | 10 | 33 | 621 | 707 | 2 | 3 | 13 | 166 | 202 | 2 | 2 | 6 | 104 | 148 |
| Idaho [§] | 3 | 3 | 10 | 172 | 197 | 2 | 1 | 7 | 91 | 149 | — | 0 | 2 | 9 | 14 |
| Montana [§] | — | 1 | 7 | 99 | 124 | — | 0 | 7 | 35 | 38 | — | 0 | 5 | 13 | 8 |
| Nevada [§] | — | 3 | 11 | 173 | 239 | — | 0 | 3 | 16 | 19 | — | 1 | 7 | 68 | 227 |
| New Mexico [§] | — | 5 | 29 | 325 | 521 | — | 1 | 3 | 34 | 52 | — | 1 | 8 | 93 | 160 |
| Utah | 1 | 5 | 15 | 283 | 363 | — | 2 | 11 | 110 | 89 | — | 0 | 3 | 20 | 39 |
| Wyoming [§] | — | 1 | 9 | 88 | 83 | — | 0 | 2 | 15 | 13 | — | 0 | 1 | 2 | 8 |
| Pacific | 79 | 126 | 425 | 6,300 | 6,218 | 8 | 9 | 31 | 558 | 534 | 14 | 24 | 58 | 1,243 | 1,865 |
| Alaska | — | 1 | 7 | 70 | 58 | — | 0 | 0 | — | 6 | — | 0 | 1 | 2 | 1 |
| California | 79 | 95 | 326 | 4,757 | 4,708 | 8 | 4 | 15 | 269 | 267 | 14 | 19 | 45 | 1,014 | 1,620 |
| Hawaii | — | 5 | 59 | 297 | 264 | — | 0 | 2 | 9 | 13 | — | 0 | 4 | 38 | 45 |
| Oregon [§] | — | 8 | 19 | 416 | 427 | — | 1 | 11 | 80 | 67 | — | 1 | 3 | 40 | 94 |
| Washington | — | 13 | 85 | 760 | 761 | — | 3 | 17 | 200 | 181 | — | 3 | 11 | 149 | 105 |
| American Samoa | — | 0 | 0 | — | 3 | — | 0 | 0 | — | — | — | 1 | 2 | 3 | 1 |
| C.N.M.I. | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Guam | — | 0 | 0 | — | 13 | — | 0 | 0 | — | — | — | 0 | 0 | — | 15 |
| Puerto Rico | — | 6 | 40 | 382 | 807 | — | 0 | 0 | — | — | — | 0 | 2 | 10 | 31 |
| 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. Cum: Cumulative year-to-date counts. Med: Median. Max: Maximum.
 * Incidence data for reporting year 2009 is provisional.
 † Includes *E. coli* O157:H7; Shiga toxin-positive, serogroup non-O157; and Shiga toxin-positive, not serogrouped.
 § Contains data reported through the National Electronic Disease Surveillance System (NEDSS).

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending January 2, 2010, and December 27, 2008 (52nd week)*

| Reporting area | Streptococcal diseases, invasive, group A | | | | | <i>Streptococcus pneumoniae</i> , invasive disease, nondrug resistant† Age <5 years | | | | |
|----------------------|---|-------------------|-----|----------|----------|--|-------------------|-----|----------|----------|
| | Current week | Previous 52 weeks | | Cum 2009 | Cum 2008 | Current week | Previous 52 weeks | | Cum 2009 | Cum 2008 |
| | | Med | Max | | | | Med | Max | | |
| United States | 58 | 96 | 239 | 4,861 | 5,435 | 23 | 34 | 122 | 1,768 | 1,879 |
| New England | 9 | 4 | 28 | 287 | 369 | 1 | 1 | 11 | 73 | 99 |
| Connecticut | 8 | 0 | 21 | 80 | 97 | — | 0 | 11 | 11 | 11 |
| Maine§ | — | 0 | 2 | 18 | 28 | — | 0 | 1 | 6 | 3 |
| Massachusetts | — | 2 | 10 | 124 | 172 | 1 | 0 | 4 | 40 | 64 |
| New Hampshire | — | 0 | 4 | 35 | 30 | — | 0 | 2 | 11 | 11 |
| Rhode Island§ | — | 0 | 1 | 11 | 29 | — | 0 | 1 | 1 | 10 |
| Vermont§ | 1 | 0 | 3 | 19 | 13 | — | 0 | 1 | 4 | — |
| Mid. Atlantic | 6 | 15 | 43 | 953 | 1,083 | 6 | 4 | 33 | 240 | 246 |
| New Jersey | — | 2 | 7 | 124 | 190 | — | 0 | 4 | 38 | 70 |
| New York (Upstate) | 6 | 7 | 16 | 324 | 347 | 6 | 2 | 9 | 129 | 116 |
| New York City | — | 4 | 12 | 180 | 200 | — | 0 | 31 | 73 | 60 |
| Pennsylvania | — | 5 | 18 | 325 | 346 | N | 0 | 2 | N | N |
| E.N. Central | 2 | 14 | 42 | 875 | 976 | 1 | 6 | 18 | 289 | 336 |
| Illinois | — | 4 | 13 | 243 | 268 | — | 1 | 4 | 48 | 97 |
| Indiana | — | 2 | 23 | 136 | 127 | — | 1 | 13 | 45 | 31 |
| Michigan | — | 3 | 11 | 150 | 182 | — | 1 | 4 | 72 | 87 |
| Ohio | 2 | 3 | 13 | 209 | 258 | 1 | 1 | 6 | 78 | 66 |
| Wisconsin | — | 2 | 11 | 137 | 141 | — | 1 | 3 | 46 | 55 |
| W.N. Central | 4 | 6 | 37 | 377 | 378 | 1 | 2 | 12 | 154 | 114 |
| Iowa | — | 0 | 0 | — | — | — | 0 | 0 | — | — |
| Kansas | — | 0 | 5 | 37 | 38 | N | 0 | 1 | N | N |
| Minnesota | — | 0 | 34 | 171 | 172 | — | 0 | 10 | 88 | 46 |
| Missouri | 3 | 2 | 8 | 88 | 92 | — | 0 | 4 | 37 | 38 |
| Nebraska§ | — | 1 | 3 | 42 | 43 | 1 | 0 | 2 | 17 | 9 |
| North Dakota | 1 | 0 | 4 | 18 | 10 | — | 0 | 3 | 5 | 9 |
| South Dakota | — | 0 | 3 | 21 | 23 | — | 0 | 2 | 7 | 12 |
| S. Atlantic | 12 | 21 | 49 | 1,112 | 1,155 | 5 | 6 | 18 | 340 | 369 |
| Delaware | — | 0 | 1 | 11 | 10 | — | 0 | 0 | — | — |
| District of Columbia | — | 0 | 3 | 13 | 14 | N | 0 | 0 | N | N |
| Florida | 4 | 5 | 12 | 279 | 265 | 2 | 1 | 6 | 75 | 70 |
| Georgia | 2 | 5 | 13 | 256 | 269 | — | 2 | 6 | 95 | 104 |
| Maryland§ | 2 | 3 | 12 | 190 | 194 | 2 | 1 | 7 | 84 | 59 |
| North Carolina | — | 1 | 12 | 91 | 136 | N | 0 | 0 | N | N |
| South Carolina§ | 2 | 1 | 5 | 75 | 76 | — | 1 | 4 | 48 | 71 |
| Virginia§ | 2 | 3 | 9 | 158 | 150 | — | 0 | 3 | 23 | 52 |
| West Virginia | — | 0 | 4 | 39 | 41 | 1 | 0 | 3 | 15 | 13 |
| E.S. Central | — | 3 | 10 | 191 | 193 | — | 2 | 7 | 103 | 96 |
| Alabama§ | N | 0 | 0 | N | N | N | 0 | 0 | N | N |
| Kentucky | — | 1 | 3 | 39 | 45 | N | 0 | 0 | N | N |
| Mississippi | N | 0 | 0 | N | N | — | 0 | 2 | 21 | 12 |
| Tennessee§ | — | 3 | 9 | 152 | 148 | — | 1 | 6 | 82 | 84 |
| W.S. Central | 14 | 7 | 79 | 440 | 519 | 7 | 5 | 46 | 292 | 302 |
| Arkansas§ | — | 0 | 3 | 20 | 11 | 1 | 0 | 4 | 27 | 15 |
| Louisiana | — | 0 | 3 | 11 | 19 | — | 0 | 3 | 13 | 14 |
| Oklahoma | 1 | 2 | 20 | 128 | 122 | 1 | 1 | 7 | 59 | 69 |
| Texas§ | 13 | 5 | 59 | 281 | 367 | 5 | 3 | 34 | 193 | 204 |
| Mountain | 11 | 9 | 22 | 458 | 584 | 2 | 4 | 16 | 245 | 269 |
| Arizona | 4 | 3 | 7 | 162 | 199 | 1 | 2 | 10 | 121 | 117 |
| Colorado | 7 | 2 | 7 | 132 | 143 | 1 | 1 | 4 | 55 | 61 |
| Idaho§ | — | 0 | 2 | 10 | 16 | — | 0 | 2 | 9 | 6 |
| Montana§ | N | 0 | 0 | N | N | N | 0 | 0 | N | N |
| Nevada§ | — | 0 | 1 | 5 | 13 | — | 0 | 0 | — | 6 |
| New Mexico§ | — | 1 | 6 | 80 | 144 | — | 0 | 4 | 24 | 40 |
| Utah | — | 1 | 6 | 68 | 60 | — | 0 | 5 | 36 | 37 |
| Wyoming§ | — | 0 | 1 | 1 | 9 | — | 0 | 0 | — | 2 |
| Pacific | — | 3 | 9 | 168 | 178 | — | 0 | 4 | 32 | 48 |
| Alaska | — | 1 | 4 | 38 | 40 | — | 0 | 3 | 24 | 29 |
| California | N | 0 | 0 | N | N | N | 0 | 0 | N | N |
| Hawaii | — | 2 | 8 | 130 | 138 | — | 0 | 2 | 8 | 19 |
| Oregon§ | N | 0 | 0 | N | N | N | 0 | 0 | N | N |
| Washington | N | 0 | 0 | N | N | N | 0 | 0 | N | N |
| American Samoa | — | 0 | 0 | — | 30 | N | 0 | 0 | N | N |
| C.N.M.I. | — | — | — | — | — | — | — | — | — | — |
| Guam | — | 0 | 0 | — | — | — | 0 | 0 | — | — |
| Puerto Rico | N | 0 | 0 | N | N | N | 0 | 0 | N | N |
| U.S. Virgin Islands | — | 0 | 0 | — | — | N | 0 | 0 | N | N |

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

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

* Incidence data for reporting year 2009 is provisional.

† Includes cases of invasive pneumococcal disease, in children aged <5 years, caused by *S. pneumoniae*, which is susceptible or for which susceptibility testing is not available (NNDS event code 11717).

§ Contains data reported through the National Electronic Disease Surveillance System (NEDSS).

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending January 2, 2010, and December 27, 2008 (52nd week)*

| Reporting area | <i>Streptococcus pneumoniae</i> , invasive disease, drug resistant† | | | | | | | | | | Syphilis, primary and secondary | | | | |
|----------------------|---|-------------------|-----|----------|---------------|--------------|-------------------|-----|----------|----------|---------------------------------|-------------------|-----|----------|----------|
| | All ages | | | | Aged <5 years | | | | | | | | | | |
| | Current week | Previous 52 weeks | | Cum 2009 | Cum 2008 | Current week | Previous 52 weeks | | Cum 2009 | Cum 2008 | Current week | Previous 52 weeks | | Cum 2009 | Cum 2008 |
| | | Med | Max | | | | Med | Max | | | | Med | Max | | |
| United States | 61 | 52 | 276 | 2,823 | 3,173 | 11 | 9 | 20 | 464 | 513 | 64 | 263 | 452 | 12,833 | 13,048 |
| New England | 1 | 1 | 50 | 108 | 119 | — | 0 | 11 | 14 | 17 | 3 | 6 | 15 | 316 | 303 |
| Connecticut | — | 0 | 50 | 50 | 55 | — | 0 | 11 | 11 | 5 | 1 | 1 | 5 | 56 | 31 |
| Maine§ | 1 | 0 | 2 | 22 | 18 | — | 0 | 1 | 1 | 2 | — | 0 | 1 | 4 | 10 |
| Massachusetts | — | 0 | 1 | 3 | — | — | 0 | 1 | 2 | — | 2 | 4 | 10 | 226 | 213 |
| New Hampshire | — | 0 | 3 | 5 | — | — | 0 | 0 | — | — | — | 0 | 2 | 14 | 20 |
| Rhode Island§ | — | 0 | 4 | 15 | 30 | — | 0 | 0 | — | 8 | — | 0 | 5 | 16 | 18 |
| Vermont§ | — | 0 | 2 | 13 | 16 | — | 0 | 0 | — | 2 | — | 0 | 0 | — | 11 |
| Mid. Atlantic | 8 | 2 | 10 | 180 | 313 | 1 | 0 | 3 | 28 | 33 | 17 | 34 | 50 | 1,755 | 1,694 |
| New Jersey | — | 0 | 0 | — | — | — | 0 | 0 | — | — | — | 3 | 13 | 208 | 221 |
| New York (Upstate) | 8 | 1 | 6 | 87 | 78 | 1 | 0 | 2 | 17 | 10 | 1 | 2 | 8 | 118 | 146 |
| New York City | — | 0 | 1 | 8 | 127 | — | 0 | 0 | — | 6 | 13 | 22 | 39 | 1,088 | 1,056 |
| Pennsylvania | — | 1 | 8 | 85 | 108 | — | 0 | 2 | 11 | 17 | 3 | 7 | 13 | 341 | 271 |
| E.N. Central | 17 | 11 | 41 | 638 | 619 | 4 | 2 | 7 | 99 | 78 | 1 | 24 | 41 | 1,216 | 1,297 |
| Illinois | N | 0 | 0 | N | N | N | 0 | 0 | N | N | — | 10 | 29 | 535 | 539 |
| Indiana | — | 3 | 32 | 204 | 210 | — | 0 | 6 | 31 | 23 | — | 2 | 10 | 145 | 138 |
| Michigan | 1 | 0 | 2 | 26 | 23 | — | 0 | 1 | 4 | 2 | 1 | 4 | 13 | 231 | 210 |
| Ohio | 16 | 7 | 18 | 408 | 386 | 4 | 1 | 4 | 64 | 53 | — | 5 | 12 | 266 | 346 |
| Wisconsin | — | 0 | 0 | — | — | — | 0 | 0 | — | — | — | 1 | 3 | 39 | 64 |
| W.N. Central | 2 | 2 | 161 | 125 | 207 | — | 0 | 3 | 21 | 41 | — | 6 | 12 | 307 | 396 |
| Iowa | — | 0 | 0 | — | — | — | 0 | 0 | — | — | — | 0 | 2 | 22 | 16 |
| Kansas | — | 0 | 5 | 38 | 77 | — | 0 | 2 | 13 | 6 | — | 0 | 3 | 31 | 29 |
| Minnesota | — | 0 | 156 | — | 29 | — | 0 | 3 | — | 29 | — | 1 | 4 | 69 | 114 |
| Missouri | 2 | 1 | 6 | 73 | 90 | — | 0 | 1 | 6 | 3 | — | 3 | 8 | 163 | 221 |
| Nebraska§ | — | 0 | 1 | 2 | — | — | 0 | 0 | — | — | — | 0 | 3 | 17 | 15 |
| North Dakota | — | 0 | 3 | 10 | 2 | — | 0 | 0 | — | — | — | 0 | 1 | 4 | — |
| South Dakota | — | 0 | 2 | 2 | 9 | — | 0 | 2 | 2 | 3 | — | 0 | 1 | 1 | 1 |
| S. Atlantic | 30 | 25 | 53 | 1,319 | 1,358 | 4 | 4 | 12 | 223 | 250 | 28 | 62 | 262 | 3,189 | 2,900 |
| Delaware | — | 0 | 2 | 18 | 3 | — | 0 | 2 | 3 | — | — | 0 | 3 | 27 | 15 |
| District of Columbia | N | 0 | 0 | N | N | N | 0 | 0 | N | N | — | 3 | 8 | 165 | 145 |
| Florida | 24 | 13 | 36 | 767 | 780 | 3 | 2 | 9 | 134 | 157 | 4 | 19 | 32 | 983 | 1,030 |
| Georgia | 5 | 8 | 25 | 418 | 454 | 1 | 1 | 5 | 78 | 79 | — | 14 | 227 | 754 | 687 |
| Maryland§ | — | 0 | 1 | 4 | 7 | — | 0 | 0 | — | 1 | 1 | 6 | 16 | 287 | 362 |
| North Carolina | N | 0 | 0 | N | N | N | 0 | 0 | N | N | 8 | 9 | 31 | 553 | 285 |
| South Carolina§ | — | 0 | 0 | — | — | — | 0 | 0 | — | — | 2 | 2 | 6 | 117 | 97 |
| Virginia§ | N | 0 | 0 | N | N | N | 0 | 0 | N | N | 13 | 5 | 15 | 299 | 266 |
| West Virginia | 1 | 1 | 13 | 112 | 114 | — | 0 | 2 | 8 | 13 | — | 0 | 2 | 4 | 13 |
| E.S. Central | 1 | 4 | 25 | 259 | 325 | 1 | 0 | 3 | 36 | 59 | 4 | 22 | 36 | 1,101 | 1,103 |
| Alabama§ | N | 0 | 0 | N | N | N | 0 | 0 | N | N | — | 8 | 18 | 406 | 445 |
| Kentucky | — | 1 | 5 | 77 | 77 | — | 0 | 2 | 9 | 11 | — | 1 | 13 | 80 | 83 |
| Mississippi | — | 0 | 1 | 4 | 44 | — | 0 | 1 | 3 | 14 | — | 4 | 16 | 214 | 168 |
| Tennessee§ | 1 | 2 | 23 | 178 | 204 | 1 | 0 | 3 | 24 | 34 | 4 | 8 | 15 | 401 | 407 |
| W.S. Central | 2 | 1 | 6 | 89 | 104 | 1 | 0 | 3 | 17 | 16 | 2 | 48 | 79 | 2,282 | 2,345 |
| Arkansas§ | 2 | 1 | 5 | 57 | 21 | 1 | 0 | 3 | 12 | 5 | — | 0 | 35 | — | 171 |
| Louisiana | — | 0 | 5 | 32 | 83 | — | 0 | 1 | 5 | 11 | — | 12 | 41 | 605 | 695 |
| Oklahoma | N | 0 | 0 | N | N | N | 0 | 0 | N | N | 2 | 1 | 5 | 73 | 85 |
| Texas§ | — | 0 | 0 | — | — | — | 0 | 0 | — | — | — | 31 | 48 | 1,604 | 1,394 |
| Mountain | — | 2 | 7 | 102 | 126 | — | 0 | 2 | 24 | 17 | 1 | 8 | 18 | 441 | 590 |
| Arizona | — | 0 | 0 | — | — | — | 0 | 0 | — | — | 1 | 3 | 9 | 183 | 311 |
| Colorado | — | 0 | 0 | — | — | — | 0 | 0 | — | — | — | 1 | 4 | 83 | 126 |
| Idaho§ | N | 0 | 1 | N | N | N | 0 | 1 | N | N | — | 0 | 1 | 3 | 7 |
| Montana§ | — | 0 | 0 | — | 1 | — | 0 | 0 | — | — | — | 0 | 7 | 3 | — |
| Nevada§ | — | 0 | 4 | 34 | 54 | — | 0 | 2 | 6 | 6 | — | 1 | 10 | 92 | 76 |
| New Mexico§ | — | 0 | 1 | 1 | — | — | 0 | 0 | — | — | — | 1 | 5 | 58 | 42 |
| Utah | — | 1 | 5 | 55 | 68 | — | 0 | 2 | 16 | 11 | — | 0 | 2 | 16 | 25 |
| Wyoming§ | — | 0 | 2 | 12 | 3 | — | 0 | 1 | 2 | — | — | 0 | 1 | 3 | 3 |
| Pacific | — | 0 | 1 | 3 | 2 | — | 0 | 1 | 2 | 2 | 8 | 43 | 68 | 2,226 | 2,420 |
| Alaska | — | 0 | 0 | — | — | — | 0 | 0 | — | — | — | 0 | 0 | — | 1 |
| California | N | 0 | 0 | N | N | N | 0 | 0 | N | N | 6 | 39 | 61 | 2,029 | 2,184 |
| Hawaii | — | 0 | 1 | 3 | 2 | — | 0 | 1 | 2 | 2 | — | 0 | 3 | 27 | 29 |
| Oregon§ | N | 0 | 0 | N | N | N | 0 | 0 | N | N | 2 | 1 | 5 | 47 | 26 |
| Washington | N | 0 | 0 | N | N | N | 0 | 0 | N | N | — | 2 | 7 | 123 | 180 |
| American Samoa | N | 0 | 0 | N | N | N | 0 | 0 | N | N | — | 0 | 0 | — | — |
| C.N.M.I. | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Guam | — | 0 | 0 | — | — | — | 0 | 0 | — | — | — | 0 | 0 | — | — |
| Puerto Rico | — | 0 | 0 | — | — | — | 0 | 0 | — | — | 5 | 3 | 17 | 226 | 160 |
| 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. Cum: Cumulative year-to-date counts. Med: Median. Max: Maximum.

* Incidence data for reporting year 2009 is provisional.

† Includes cases of invasive pneumococcal disease caused by drug-resistant *S. pneumoniae* (DRSP) (NNDSS event code 11720).

§ Contains data reported through the National Electronic Disease Surveillance System (NEDSS).

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending January 2, 2010, and December 27, 2008 (52nd week)*

| Reporting area | West Nile virus disease† | | | | | | | | | | | | | | |
|----------------------|--------------------------|-------------------|-------|----------|----------|---------------|-------------------|----|----------|----------|-------------------|-------------------|----|----------|----------|
| | Varicella (chickenpox) | | | | | Neuroinvasive | | | | | Nonneuroinvasive§ | | | | |
| | Current week | Previous 52 weeks | | Cum 2009 | Cum 2008 | Current week | Previous 52 weeks | | Cum 2009 | Cum 2008 | Current week | Previous 52 weeks | | Cum 2009 | Cum 2008 |
| | Med | Max | | | | Med | Max | | | | Med | Max | | | |
| United States | 40 | 296 | 1,035 | 16,944 | 29,351 | — | 0 | 44 | 361 | 689 | — | 0 | 48 | 329 | 667 |
| New England | — | 6 | 19 | 349 | 1,716 | — | 0 | 0 | — | 7 | — | 0 | 0 | — | 3 |
| Connecticut | — | 0 | 0 | — | 857 | — | 0 | 0 | — | 5 | — | 0 | 0 | — | 3 |
| Maine¶ | — | 0 | 12 | 105 | 269 | — | 0 | 0 | — | — | — | 0 | 0 | — | — |
| Massachusetts | — | 0 | 2 | 2 | — | — | 0 | 0 | — | 1 | — | 0 | 0 | — | — |
| New Hampshire | — | 3 | 10 | 195 | 271 | — | 0 | 0 | — | — | — | 0 | 0 | — | — |
| Rhode Island¶ | — | 0 | 1 | 4 | — | — | 0 | 0 | — | 1 | — | 0 | 0 | — | — |
| Vermont¶ | — | 0 | 7 | 43 | 319 | — | 0 | 0 | — | — | — | 0 | 0 | — | — |
| Mid. Atlantic | 13 | 28 | 55 | 1,537 | 2,396 | — | 0 | 2 | 7 | 50 | — | 0 | 1 | 1 | 20 |
| New Jersey | N | 0 | 0 | N | N | — | 0 | 1 | 2 | 6 | — | 0 | 0 | — | 4 |
| New York (Upstate) | N | 0 | 0 | N | N | — | 0 | 1 | 3 | 24 | — | 0 | 1 | 1 | 7 |
| New York City | — | 0 | 0 | — | — | — | 0 | 1 | 2 | 8 | — | 0 | 0 | — | 7 |
| Pennsylvania | 13 | 28 | 55 | 1,537 | 2,396 | — | 0 | 0 | — | 12 | — | 0 | 0 | — | 2 |
| E.N. Central | 18 | 117 | 232 | 6,205 | 7,730 | — | 0 | 4 | 9 | 44 | — | 0 | 3 | 4 | 20 |
| Illinois | — | 31 | 73 | 1,528 | 1,461 | — | 0 | 3 | 5 | 12 | — | 0 | 0 | — | 8 |
| Indiana | — | 7 | 30 | 392 | — | — | 0 | 1 | 2 | 3 | — | 0 | 1 | 2 | 1 |
| Michigan | 2 | 41 | 84 | 1,857 | 3,044 | — | 0 | 1 | 1 | 11 | — | 0 | 0 | — | 6 |
| Ohio | 16 | 36 | 88 | 1,916 | 2,365 | — | 0 | 0 | — | 14 | — | 0 | 2 | 2 | 1 |
| Wisconsin | — | 8 | 57 | 512 | 860 | — | 0 | 1 | 1 | 4 | — | 0 | 0 | — | 4 |
| W.N. Central | — | 12 | 114 | 863 | 1,304 | — | 0 | 5 | 26 | 51 | — | 0 | 11 | 73 | 134 |
| Iowa | N | 0 | 0 | N | N | — | 0 | 0 | — | 3 | — | 0 | 1 | 5 | 3 |
| Kansas | — | 2 | 19 | 183 | 477 | — | 0 | 1 | 4 | 14 | — | 0 | 2 | 8 | 17 |
| Minnesota | — | 0 | 0 | — | — | — | 0 | 1 | 1 | 2 | — | 0 | 1 | 3 | 8 |
| Missouri | — | 8 | 51 | 580 | 772 | — | 0 | 2 | 4 | 12 | — | 0 | 1 | 1 | 3 |
| Nebraska¶ | N | 0 | 0 | N | N | — | 0 | 2 | 11 | 7 | — | 0 | 6 | 40 | 40 |
| North Dakota | — | 0 | 108 | 83 | — | — | 0 | 0 | — | 2 | — | 0 | 1 | 1 | 35 |
| South Dakota | — | 0 | 2 | 17 | 55 | — | 0 | 3 | 6 | 11 | — | 0 | 2 | 15 | 28 |
| S. Atlantic | 9 | 31 | 109 | 1,829 | 4,817 | — | 0 | 3 | 12 | 20 | — | 0 | 1 | 3 | 20 |
| Delaware | — | 0 | 2 | 12 | 47 | — | 0 | 0 | — | — | — | 0 | 0 | — | 1 |
| District of Columbia | — | 0 | 3 | 13 | 24 | — | 0 | 0 | — | 4 | — | 0 | 0 | — | 4 |
| Florida | 8 | 15 | 61 | 1,129 | 1,705 | — | 0 | 1 | 2 | 3 | — | 0 | 1 | 1 | — |
| Georgia | N | 0 | 0 | N | N | — | 0 | 1 | 4 | 4 | — | 0 | 0 | — | 4 |
| Maryland¶ | N | 0 | 0 | N | N | — | 0 | 0 | — | 6 | — | 0 | 1 | 2 | 8 |
| North Carolina | N | 0 | 0 | N | N | — | 0 | 0 | — | 2 | — | 0 | 0 | — | 1 |
| South Carolina¶ | — | 0 | 54 | 154 | 875 | — | 0 | 2 | 3 | — | — | 0 | 0 | — | 1 |
| Virginia¶ | — | 0 | 9 | 28 | 1,489 | — | 0 | 1 | 3 | — | — | 0 | 0 | — | 1 |
| West Virginia | 1 | 9 | 32 | 493 | 677 | — | 0 | 0 | — | 1 | — | 0 | 0 | — | — |
| E.S. Central | — | 9 | 29 | 521 | 1,121 | — | 0 | 6 | 37 | 48 | — | 0 | 4 | 26 | 57 |
| Alabama¶ | — | 9 | 27 | 516 | 1,107 | — | 0 | 0 | — | 11 | — | 0 | 0 | — | 7 |
| Kentucky | N | 0 | 0 | N | N | — | 0 | 1 | 3 | 3 | — | 0 | 0 | — | — |
| Mississippi | — | 0 | 2 | 5 | 14 | — | 0 | 5 | 30 | 22 | — | 0 | 4 | 22 | 43 |
| Tennessee¶ | N | 0 | 0 | N | N | — | 0 | 2 | 4 | 12 | — | 0 | 1 | 4 | 7 |
| W.S. Central | — | 72 | 747 | 4,312 | 7,941 | — | 0 | 17 | 109 | 69 | — | 0 | 6 | 34 | 62 |
| Arkansas¶ | — | 0 | 25 | 115 | 752 | — | 0 | 1 | 6 | 7 | — | 0 | 0 | — | 2 |
| Louisiana | — | 1 | 7 | 76 | 71 | — | 0 | 2 | 10 | 18 | — | 0 | 4 | 11 | 31 |
| Oklahoma | N | 0 | 0 | N | N | — | 0 | 2 | 8 | 4 | — | 0 | 2 | 2 | 5 |
| Texas¶ | — | 71 | 721 | 4,121 | 7,118 | — | 0 | 14 | 85 | 40 | — | 0 | 4 | 21 | 24 |
| Mountain | — | 18 | 62 | 1,239 | 2,185 | — | 0 | 12 | 75 | 103 | — | 0 | 17 | 122 | 184 |
| Arizona | — | 0 | 0 | — | — | — | 0 | 4 | 12 | 62 | — | 0 | 2 | 8 | 52 |
| Colorado | — | 9 | 33 | 515 | 870 | — | 0 | 7 | 35 | 17 | — | 0 | 14 | 66 | 54 |
| Idaho¶ | N | 0 | 0 | N | N | — | 0 | 3 | 9 | 4 | — | 0 | 5 | 29 | 35 |
| Montana¶ | — | 0 | 16 | 105 | 331 | — | 0 | 1 | 2 | — | — | 0 | 1 | 4 | 5 |
| Nevada¶ | N | 0 | 0 | N | N | — | 0 | 2 | 7 | 9 | — | 0 | 1 | 5 | 7 |
| New Mexico¶ | — | 0 | 20 | 134 | 217 | — | 0 | 2 | 6 | 5 | — | 0 | 1 | 2 | 3 |
| Utah | — | 7 | 32 | 485 | 756 | — | 0 | 0 | — | 6 | — | 0 | 0 | — | 20 |
| Wyoming¶ | — | 0 | 0 | — | 11 | — | 0 | 1 | 4 | — | — | 0 | 2 | 8 | 8 |
| Pacific | — | 1 | 6 | 89 | 141 | — | 0 | 12 | 86 | 297 | — | 0 | 12 | 66 | 167 |
| Alaska | — | 1 | 5 | 54 | 76 | — | 0 | 0 | — | — | — | 0 | 0 | — | — |
| California | — | 0 | 0 | — | — | — | 0 | 8 | 60 | 292 | — | 0 | 6 | 45 | 153 |
| Hawaii | — | 0 | 4 | 35 | 65 | — | 0 | 0 | — | — | — | 0 | 0 | — | — |
| Oregon¶ | N | 0 | 0 | N | N | — | 0 | 1 | 1 | 3 | — | 0 | 4 | 10 | 13 |
| Washington | N | 0 | 0 | N | N | — | 0 | 6 | 25 | 2 | — | 0 | 3 | 11 | 1 |
| American Samoa | N | 0 | 0 | N | N | — | 0 | 0 | — | — | — | 0 | 0 | — | — |
| C.N.M.I. | — | — | — | — | — | — | 0 | — | — | — | — | — | — | — | — |
| Guam | — | 0 | 0 | — | 63 | — | 0 | 0 | — | — | — | 0 | 0 | — | — |
| Puerto Rico | 1 | 6 | 26 | 407 | 588 | — | 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. Cum: Cumulative year-to-date counts. Med: Median. Max: Maximum.
 * Incidence data for reporting year 2009 is provisional. Data for HIV/AIDS, AIDS, and TB, when available, are displayed in Table IV, which appears quarterly.
 † 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.
 § 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 influenza-associated pediatric mortality, and in 2003 for SARS-CoV. Reporting exceptions are available at <http://www.cdc.gov/epo/dphsi/phs/infdis.htm>.
 ¶ Contains data reported through the National Electronic Disease Surveillance System (NEDSS).

TABLE III. Deaths in 122 U.S. cities,* week ending January 2, 2010 (52nd week)

| Reporting area | All causes, by age (years) | | | | | | | Reporting area | All causes, by age (years) | | | | | | |
|-----------------------------|----------------------------|-------|-------|-------|------|----|-----------|--------------------------|----------------------------|--------------|--------------|------------|------------|------------|------------|
| | All Ages | ≥65 | 45-64 | 25-44 | 1-24 | <1 | P&† Total | | All Ages | ≥65 | 45-64 | 25-44 | 1-24 | <1 | P&† Total |
| New England | 554 | 409 | 103 | 22 | 11 | 9 | 56 | S. Atlantic | 977 | 627 | 236 | 76 | 23 | 15 | 55 |
| Boston, MA | 142 | 94 | 35 | 6 | 3 | 4 | 15 | Atlanta, GA | 121 | 67 | 40 | 10 | 2 | 2 | 6 |
| Bridgeport, CT | 42 | 32 | 9 | — | 1 | — | 6 | Baltimore, MD | 107 | 60 | 32 | 10 | 5 | — | 10 |
| Cambridge, MA | 15 | 12 | 2 | 1 | — | — | 2 | Charlotte, NC | 111 | 75 | 26 | 7 | 3 | — | 8 |
| Fall River, MA | 15 | 12 | 3 | — | — | — | 1 | Jacksonville, FL | 127 | 75 | 36 | 10 | 5 | 1 | 5 |
| Hartford, CT | 50 | 36 | 7 | 4 | 3 | — | 7 | Miami, FL | 47 | 30 | 6 | 7 | 2 | 2 | 5 |
| Lowell, MA | 25 | 22 | 3 | — | — | — | 2 | Norfolk, VA | 59 | 35 | 14 | 7 | — | 3 | 2 |
| Lynn, MA | 10 | 7 | 3 | — | — | — | — | Richmond, VA | 32 | 18 | 9 | 5 | — | — | 1 |
| New Bedford, MA | 24 | 18 | 3 | 1 | — | 2 | 4 | Savannah, GA | 55 | 39 | 12 | 1 | 2 | 1 | 5 |
| New Haven, CT | 39 | 31 | 6 | 1 | — | 1 | 4 | St. Petersburg, FL | 43 | 31 | 7 | 4 | — | 1 | 1 |
| Providence, RI | 70 | 50 | 13 | 4 | 3 | — | 3 | Tampa, FL | 159 | 112 | 33 | 9 | 3 | 2 | 10 |
| Somerville, MA | 3 | 2 | 1 | — | — | — | — | Washington, D.C. | 102 | 77 | 15 | 6 | 1 | 3 | 2 |
| Springfield, MA | 35 | 27 | 4 | 2 | — | 2 | 5 | Wilmington, DE | 14 | 8 | 6 | — | — | — | — |
| Waterbury, CT | 31 | 24 | 5 | 2 | — | — | 2 | E.S. Central | 810 | 542 | 191 | 43 | 19 | 15 | 78 |
| Worcester, MA | 53 | 42 | 9 | 1 | 1 | — | 5 | Birmingham, AL | 165 | 111 | 27 | 14 | 10 | 3 | 21 |
| Mid. Atlantic | 1,644 | 1,161 | 359 | 77 | 24 | 23 | 86 | Chattanooga, TN | 68 | 44 | 20 | 3 | 1 | — | 3 |
| Albany, NY | 31 | 22 | 7 | 1 | 1 | — | 4 | Knoxville, TN | 102 | 64 | 28 | 6 | 3 | 1 | 9 |
| Allentown, PA | 27 | 23 | 2 | 2 | — | — | 1 | Lexington, KY | 45 | 28 | 11 | 4 | — | 2 | 5 |
| Buffalo, NY | 96 | 75 | 15 | 2 | 1 | 3 | 12 | Memphis, TN | 142 | 97 | 34 | 7 | 1 | 3 | 15 |
| Camden, NJ | 2 | 1 | 1 | — | — | — | — | Mobile, AL | 105 | 73 | 24 | 4 | 1 | 3 | 9 |
| Elizabeth, NJ | 27 | 19 | 6 | 2 | — | — | 5 | Montgomery, AL | 33 | 21 | 11 | — | 1 | — | 4 |
| Erie, PA | 43 | 33 | 7 | — | 1 | 2 | 4 | Nashville, TN | 150 | 104 | 36 | 5 | 2 | 3 | 12 |
| Jersey City, NJ | U | U | U | U | U | U | U | W.S. Central | 1,092 | 741 | 236 | 66 | 26 | 23 | 56 |
| New York City, NY | 811 | 564 | 183 | 46 | 17 | 1 | 30 | Austin, TX | 106 | 64 | 28 | 10 | 2 | 2 | 4 |
| Newark, NJ | 45 | 29 | 10 | 4 | 1 | 1 | 1 | Baton Rouge, LA | 32 | 26 | 5 | 1 | — | — | — |
| Paterson, NJ | 11 | 9 | 1 | 1 | — | — | 1 | Corpus Christi, TX | 43 | 31 | 10 | 2 | — | — | 2 |
| Philadelphia, PA | 159 | 98 | 44 | 7 | 1 | 9 | 5 | Dallas, TX | 180 | 95 | 53 | 16 | 6 | 10 | 14 |
| Pittsburgh, PA [§] | 36 | 22 | 11 | 2 | — | 1 | 1 | El Paso, TX | 51 | 37 | 8 | 4 | 1 | 1 | 1 |
| Reading, PA | 42 | 33 | 5 | 3 | — | 1 | 2 | Fort Worth, TX | U | U | U | U | U | U | U |
| Rochester, NY | 158 | 121 | 28 | 4 | 1 | 4 | 12 | Houston, TX | 169 | 114 | 37 | 9 | 6 | 3 | 7 |
| Schenectady, NY | 26 | 18 | 7 | 1 | — | — | 3 | Little Rock, AR | 84 | 60 | 18 | 3 | 1 | 2 | 4 |
| Scranton, PA | 27 | 22 | 4 | 1 | — | — | — | New Orleans, LA | U | U | U | U | U | U | U |
| Syracuse, NY | 32 | 25 | 7 | — | — | — | 2 | San Antonio, TX | 238 | 166 | 50 | 10 | 8 | 4 | 16 |
| Trenton, NJ | 31 | 14 | 15 | 1 | — | 1 | 2 | Shreveport, LA | 39 | 23 | 10 | 5 | 1 | — | 1 |
| Utica, NY | 18 | 15 | 3 | — | — | — | 2 | Tulsa, OK | 150 | 125 | 17 | 6 | 1 | 1 | 7 |
| Yonkers, NY | 22 | 18 | 3 | — | 1 | — | 1 | Mountain | 805 | 578 | 162 | 40 | 14 | 11 | 74 |
| E.N. Central | 1,224 | 855 | 266 | 65 | 24 | 14 | 78 | Albuquerque, NM | 105 | 79 | 22 | 2 | 1 | 1 | 10 |
| Akron, OH | 50 | 37 | 10 | — | 2 | 1 | 4 | Boise, ID | 50 | 37 | 12 | 1 | — | — | 6 |
| Canton, OH | 19 | 16 | 3 | — | — | — | 1 | Colorado Springs, CO | 85 | 59 | 19 | 2 | 2 | 3 | 1 |
| Chicago, IL | U | U | U | U | U | U | U | Denver, CO | 35 | 21 | 8 | 3 | 2 | 1 | 4 |
| Cincinnati, OH | 74 | 45 | 22 | 5 | 1 | 1 | 4 | Las Vegas, NV | 219 | 153 | 48 | 13 | 5 | — | 25 |
| Cleveland, OH | 194 | 134 | 36 | 16 | 4 | 4 | 5 | Ogden, UT | 22 | 16 | 4 | 2 | — | — | 1 |
| Columbus, OH | 64 | 39 | 17 | 3 | 3 | 2 | 4 | Phoenix, AZ | U | U | U | U | U | U | U |
| Dayton, OH | 99 | 68 | 27 | 3 | 1 | — | 9 | Pueblo, CO | 50 | 35 | 10 | 5 | — | — | 5 |
| Detroit, MI | 65 | 33 | 22 | 8 | 2 | — | 1 | Salt Lake City, UT | 113 | 77 | 19 | 9 | 2 | 6 | 10 |
| Evansville, IN | 36 | 28 | 6 | 1 | 1 | — | — | Tucson, AZ | 126 | 101 | 20 | 3 | 2 | — | 12 |
| Fort Wayne, IN | U | U | U | U | U | U | U | Pacific | 1,524 | 1,091 | 305 | 87 | 23 | 18 | 152 |
| Gary, IN | 15 | 6 | 5 | 3 | 1 | — | 1 | Berkeley, CA | 8 | 6 | 1 | 1 | — | — | 1 |
| Grand Rapids, MI | 64 | 46 | 15 | 2 | — | 1 | 5 | Fresno, CA | 120 | 85 | 28 | 6 | — | 1 | 13 |
| Indianapolis, IN | 139 | 92 | 28 | 13 | 4 | 2 | 18 | Glendale, CA | 39 | 28 | 8 | 2 | 1 | — | 9 |
| Lansing, MI | 40 | 32 | 7 | 1 | — | — | — | Honolulu, HI | 58 | 45 | 10 | 1 | 1 | 1 | 5 |
| Milwaukee, WI | 73 | 56 | 12 | 3 | 1 | 1 | 5 | Long Beach, CA | 69 | 52 | 10 | 3 | 3 | 1 | 4 |
| Peoria, IL | 43 | 35 | 7 | — | 1 | — | 4 | Los Angeles, CA | 241 | 162 | 52 | 15 | 8 | 4 | 28 |
| Rockford, IL | 43 | 31 | 8 | 3 | 1 | — | 2 | Pasadena, CA | 14 | 10 | 3 | 1 | — | — | 2 |
| South Bend, IN | 36 | 32 | 4 | — | — | — | — | Portland, OR | 77 | 57 | 14 | 3 | — | 3 | 3 |
| Toledo, OH | 110 | 75 | 28 | 4 | 2 | 1 | 9 | Sacramento, CA | 179 | 130 | 31 | 15 | 1 | 2 | 19 |
| Youngstown, OH | 60 | 50 | 9 | — | — | 1 | 6 | San Diego, CA | 158 | 104 | 40 | 10 | 4 | — | 18 |
| W.N. Central | 501 | 338 | 125 | 26 | 7 | 5 | 38 | San Francisco, CA | 104 | 81 | 18 | 3 | — | 2 | 14 |
| Des Moines, IA | 43 | 27 | 12 | 4 | — | — | 4 | San Jose, CA | 147 | 107 | 25 | 9 | 2 | 4 | 15 |
| Duluth, MN | 39 | 25 | 13 | 1 | — | — | 4 | Santa Cruz, CA | 34 | 29 | 5 | — | — | — | 5 |
| Kansas City, KS | 22 | 16 | 6 | — | — | — | 2 | Seattle, WA | 109 | 78 | 22 | 8 | 1 | — | 8 |
| Kansas City, MO | 68 | 42 | 19 | 4 | 2 | 1 | 7 | Spokane, WA | 62 | 41 | 16 | 3 | 2 | — | 2 |
| Lincoln, NE | 37 | 28 | 6 | 3 | — | — | 3 | Tacoma, WA | 105 | 76 | 22 | 7 | — | — | 6 |
| Minneapolis, MN | 65 | 47 | 16 | 1 | — | 1 | 6 | Total[¶] | 9,131 | 6,342 | 1,983 | 502 | 171 | 133 | 673 |
| Omaha, NE | 54 | 35 | 16 | 2 | 1 | — | 4 | | | | | | | | |
| St. Louis, MO | 37 | 21 | 11 | 4 | 1 | — | 1 | | | | | | | | |
| St. Paul, MN | 50 | 36 | 11 | 1 | — | 2 | 5 | | | | | | | | |
| Wichita, KS | 86 | 61 | 15 | 6 | 3 | 1 | 2 | | | | | | | | |

U: Unavailable. —: No reported cases.

* Mortality data in this table are voluntarily reported from 122 cities in the United States, most of which have populations of >100,000. A death is reported by the place of its occurrence and by the week that the death certificate was filed. Fetal deaths are not included.

† Pneumonia and influenza.

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

¶ Total includes unknown ages.

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Recommended Immunization Schedules for Persons Aged 0 Through 18 Years — United States, 2010

MMWRTM
QuickGuide

Weekly

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The Advisory Committee on Immunization Practices (ACIP) annually publishes an immunization schedule for persons aged 0 through 18 years that summarizes recommendations for currently licensed vaccines for children aged 18 years and younger and includes recommendations in effect as of December 15, 2009. Changes to the previous schedule (1) include the following:

- The statement concerning use of combination vaccines in the introductory paragraph has been changed to reflect the revised ACIP recommendation on this issue (2).
- The last dose in the inactivated poliovirus vaccine series is now recommended to be administered on or after the fourth birthday and at least 6 months after the previous dose. In addition, if 4 doses are administered before age 4 years, an additional (fifth) dose should be administered at age 4 through 6 years (3).
- The hepatitis A footnote has been revised to allow vaccination of children older than 23 months for whom immunity against hepatitis A is desired.
- Revaccination with meningococcal conjugate vaccine is now recommended for children who remain at increased risk for meningococcal disease after 3 years (if the first dose was administered at age 2 through 6 years), or after 5 years (if the first dose was administered at age 7 years or older) (4).
- Footnotes for human papillomavirus (HPV) vaccine have been modified to include 1) the availability of and recommendations for bivalent HPV vaccine, and 2) a permissive recommendation for administration of quadrivalent HPV vaccine to males aged 9 through 18 years to reduce the likelihood of acquiring genital warts (5).

The National Childhood Vaccine Injury Act requires that health-care providers provide parents or patients with copies of Vaccine Information Statements before administering each dose of the vaccines listed in the schedules. Additional information is available from state health departments and from CDC at <http://www.cdc.gov/vaccines/pubs/vis/default.htm>.

Detailed recommendations for using vaccines are available from ACIP statements (available at <http://www.cdc.gov/vaccines/pubs/acip-list.htm>) and the *2009 Red Book* (6). Guidance regarding the Vaccine Adverse Event Reporting System form is available at <http://www.vaers.hhs.gov> or by telephone, 800-822-7967.

References

1. CDC. Recommended immunization schedules for persons aged 0–18 years—United States 2009. *MMWR* 2009;57(51&52).
2. CDC. ACIP Provisional recommendations for the use of combination vaccines. Atlanta, GA: US Department of Health and Human Services, CDC; 2009. Available at <http://www.cdc.gov/vaccines/recs/provisional/downloads/combo-vax-aug2009-508.pdf>. Accessed November 18, 2009.
3. CDC. Updated recommendations of the Advisory Committee on Immunization Practices (ACIP) regarding routine poliovirus vaccination. *MMWR* 2009;58:829–30.
4. CDC. Updated recommendation from the Advisory Committee on Immunization Practices (ACIP) for revaccination of persons at prolonged increased risk for meningococcal disease *MMWR* 2009;58:1042–3.
5. CDC. ACIP provisional recommendations for HPV vaccine. Atlanta, GA: US Department of Health and Human Services, CDC; 2009. Available at <http://www.cdc.gov/vaccines/recs/provisional/downloads/hpv-vac-dec2009-508.pdf>. Accessed December 23, 2009.
6. American Academy of Pediatrics. Active and passive immunization. In: Pickering LK, Baker CJ, Kimberlin DW, Long SS, eds. 2009 red book: report of the Committee on Infectious Diseases. 28th ed. Elk Grove Village, IL: American Academy of Pediatrics; 2009.

The recommended immunization schedules for persons aged 0 through 18 years and the catch-up immunization schedule for 2010 have been approved by the Advisory Committee on Immunization Practices, the American Academy of Pediatrics, and the American Academy of Family Physicians.

Suggested citation: Centers for Disease Control and Prevention. Recommended immunization schedules for persons aged 0 through 18 years—United States, 2010. *MMWR* 2010;58(51&52).

FIGURE 1. Recommended immunization schedule for persons aged 0 through 6 years — United States, 2010 (for those who fall behind or start late, see the catch-up schedule [Table])

| Vaccine ▼ | Age ► | Birth | 1 month | 2 months | 4 months | 6 months | 12 months | 15 months | 18 months | 19–23 months | 2–3 years | 4–6 years |
|---|-------|-------|---------|----------|------------------|-----------------|---------------------------|-----------|---------------------------|--------------|-------------|-----------|
| Hepatitis B ¹ | HepB | HepB | HepB | | | HepB | | | | | | |
| Rotavirus ² | | | RV | RV | RV | RV ² | | | | | | |
| Diphtheria, Tetanus, Pertussis ³ | | | DTaP | DTaP | DTaP | DTaP | see footnote ³ | DTaP | | | | DTaP |
| <i>Haemophilus influenzae</i> type b ⁴ | | | Hib | Hib | Hib ⁴ | Hib | | | | | | |
| Pneumococcal ⁵ | | | PCV | PCV | PCV | PCV | | | | | PPSV | |
| Inactivated Poliovirus ⁶ | | | IPV | IPV | | IPV | | | | | | IPV |
| Influenza ⁷ | | | | | | | Influenza (Yearly) | | | | | |
| Measles, Mumps, Rubella ⁸ | | | | | | | MMR | | see footnote ⁸ | | | MMR |
| Varicella ⁹ | | | | | | | Varicella | | see footnote ⁹ | | | Varicella |
| Hepatitis A ¹⁰ | | | | | | | HepA (2 doses) | | | | HepA Series | |
| Meningococcal ¹¹ | | | | | | | | | | | | MCV |

Range of recommended ages for all children except certain high-risk groups

Range of recommended ages for certain high-risk groups

This schedule includes recommendations in effect as of December 15, 2009. Any dose not administered at the recommended age should be administered at a subsequent visit, when indicated and feasible. The use of a combination vaccine generally is preferred over separate injections of its equivalent component vaccines. Considerations should include provider assessment, patient preference, and the potential for adverse

events. Providers should consult the relevant Advisory Committee on Immunization Practices statement for detailed recommendations: <http://www.cdc.gov/vaccines/pubs/acip-list.htm>. Clinically significant adverse events that follow immunization should be reported to the Vaccine Adverse Event Reporting System (VAERS) at <http://www.vaers.hhs.gov> or by telephone, 800-822-7967.

1. Hepatitis B vaccine (HepB). (Minimum age: birth)

At birth:

- Administer monovalent HepB to all newborns before hospital discharge.
- If mother is hepatitis B surface antigen (HBsAg)-positive, administer HepB and 0.5 mL of hepatitis B immune globulin (HBIG) within 12 hours of birth.
- If mother's HBsAg status is unknown, administer HepB within 12 hours of birth. Determine mother's HBsAg status as soon as possible and, if HBsAg-positive, administer HBIG (no later than age 1 week).

After the birth dose:

- The HepB series should be completed with either monovalent HepB or a combination vaccine containing HepB. The second dose should be administered at age 1 or 2 months. Monovalent HepB vaccine should be used for doses administered before age 6 weeks. The final dose should be administered no earlier than age 24 weeks.
 - Infants born to HBsAg-positive mothers should be tested for HBsAg and antibody to HBsAg 1 to 2 months after completion of at least 3 doses of the HepB series, at age 9 through 18 months (generally at the next well-child visit).
 - Administration of 4 doses of HepB to infants is permissible when a combination vaccine containing HepB is administered after the birth dose. The fourth dose should be administered no earlier than age 24 weeks.
- #### 2. Rotavirus vaccine (RV). (Minimum age: 6 weeks)
- Administer the first dose at age 6 through 14 weeks (maximum age: 14 weeks 6 days). Vaccination should not be initiated for infants aged 15 weeks 0 days or older.
 - The maximum age for the final dose in the series is 8 months 0 days
 - If Rotarix is administered at ages 2 and 4 months, a dose at 6 months is not indicated.
- #### 3. Diphtheria and tetanus toxoids and acellular pertussis vaccine (DTaP). (Minimum age: 6 weeks)
- The fourth dose may be administered as early as age 12 months, provided at least 6 months have elapsed since the third dose.
 - Administer the final dose in the series at age 4 through 6 years.
- #### 4. *Haemophilus influenzae* type b conjugate vaccine (Hib). (Minimum age: 6 weeks)
- If PRP-OMP (PedvaxHIB or Comvax [HepB-Hib]) is administered at ages 2 and 4 months, a dose at age 6 months is not indicated.
 - TriHibit (DTaP/Hib) and Hiberix (PRP-T) should not be used for doses at ages 2, 4, or 6 months for the primary series but can be used as the final dose in children aged 12 months through 4 years.
- #### 5. Pneumococcal vaccine. (Minimum age: 6 weeks for pneumococcal conjugate vaccine [PCV]; 2 years for pneumococcal polysaccharide vaccine [PPSV])
- PCV is recommended for all children aged younger than 5 years. Administer 1 dose of PCV to all healthy children aged 24 through 59 months who are not completely vaccinated for their age.
 - Administer PPSV 2 or more months after last dose of PCV to children aged 2 years or older with certain underlying medical conditions, including a cochlear implant. See *MMWR* 1997;46(No. RR-8).

6. Inactivated poliovirus vaccine (IPV). (Minimum age: 6 weeks)

- The final dose in the series should be administered on or after the fourth birthday and at least 6 months following the previous dose.
- If 4 doses are administered prior to age 4 years a fifth dose should be administered at age 4 through 6 years. See *MMWR* 2009;58(30):829–30.

7. Influenza vaccine (seasonal). (Minimum age: 6 months for trivalent inactivated influenza vaccine [TIV]; 2 years for live, attenuated influenza vaccine [LAIV])

- Administer annually to children aged 6 months through 18 years.
- For healthy children aged 2 through 6 years (i.e., those who do not have underlying medical conditions that predispose them to influenza complications), either LAIV or TIV may be used, except LAIV should not be given to children aged 2 through 4 years who have had wheezing in the past 12 months.
- Children receiving TIV should receive 0.25 mL if aged 6 through 35 months or 0.5 mL if aged 3 years or older.
- Administer 2 doses (separated by at least 4 weeks) to children aged younger than 9 years who are receiving influenza vaccine for the first time or who were vaccinated for the first time during the previous influenza season but only received 1 dose.
- For recommendations for use of influenza A (H1N1) 2009 monovalent vaccine see *MMWR* 2009;58(No. RR-10).

8. Measles, mumps, and rubella vaccine (MMR). (Minimum age: 12 months)

- Administer the second dose routinely at age 4 through 6 years. However, the second dose may be administered before age 4, provided at least 28 days have elapsed since the first dose.

9. Varicella vaccine. (Minimum age: 12 months)

- Administer the second dose routinely at age 4 through 6 years. However, the second dose may be administered before age 4, provided at least 3 months have elapsed since the first dose.
- For children aged 12 months through 12 years the minimum interval between doses is 3 months. However, if the second dose was administered at least 28 days after the first dose, it can be accepted as valid.

10. Hepatitis A vaccine (HepA). (Minimum age: 12 months)

- Administer to all children aged 1 year (i.e., aged 12 through 23 months). Administer 2 doses at least 6 months apart.
- Children not fully vaccinated by age 2 years can be vaccinated at subsequent visits
- HepA also is recommended for older children who live in areas where vaccination programs target older children, who are at increased risk for infection, or for whom immunity against hepatitis A is desired.

11. Meningococcal vaccine. (Minimum age: 2 years for meningococcal conjugate vaccine [MCV4] and for meningococcal polysaccharide vaccine [MPSV4])

- Administer MCV4 to children aged 2 through 10 years with persistent complement component deficiency, anatomic or functional asplenia, and certain other conditions placing them at high risk.
- Administer MCV4 to children previously vaccinated with MCV4 or MPSV4 after 3 years if first dose administered at age 2 through 6 years. See *MMWR* 2009; 58:1042–3.

FIGURE 2. Recommended immunization schedule for persons aged 7 through 18 years — United States, 2010 (for those who fall behind or start late, see the schedule below and the catch-up schedule [Table])

| Vaccine ▼ | Age ► | 7–10 years | 11–12 years | 13–18 years | |
|---|-------|------------------|--------------------|-------------|--|
| Tetanus, Diphtheria, Pertussis ¹ | | | Tdap | Tdap | Range of recommended ages for all children except certain high-risk groups |
| Human Papillomavirus ² | | see footnote 2 | HPV (3 doses) | HPV series | |
| Meningococcal ³ | | MCV | MCV | MCV | |
| Influenza ⁴ | | | Influenza (Yearly) | | Range of recommended ages for catch-up immunization |
| Pneumococcal ⁵ | | PPSV | | | |
| Hepatitis A ⁶ | | HepA Series | | | Range of recommended ages for certain high-risk groups |
| Hepatitis B ⁷ | | Hep B Series | | | |
| Inactivated Poliovirus ⁸ | | IPV Series | | | |
| Measles, Mumps, Rubella ⁹ | | MMR Series | | | |
| Varicella ¹⁰ | | Varicella Series | | | |

This schedule includes recommendations in effect as of December 15, 2009. Any dose not administered at the recommended age should be administered at a subsequent visit, when indicated and feasible. The use of a combination vaccine generally is preferred over separate injections of its equivalent component vaccines. Considerations should include provider assessment, patient preference, and the potential for adverse

events. Providers should consult the relevant Advisory Committee on Immunization Practices statement for detailed recommendations: <http://www.cdc.gov/vaccines/pubs/acip-list.htm>. Clinically significant adverse events that follow immunization should be reported to the Vaccine Adverse Event Reporting System (VAERS) at <http://www.vaers.hhs.gov> or by telephone, 800-822-7967.

1. Tetanus and diphtheria toxoids and acellular pertussis vaccine (Tdap).

(Minimum age: 10 years for Boostrix and 11 years for Adacel)

- Administer at age 11 or 12 years for those who have completed the recommended childhood DTP/DTaP vaccination series and have not received a tetanus and diphtheria toxoid (Td) booster dose.
- Persons aged 13 through 18 years who have not received Tdap should receive a dose.
- A 5-year interval from the last Td dose is encouraged when Tdap is used as a booster dose; however, a shorter interval may be used if pertussis immunity is needed.

2. Human papillomavirus vaccine (HPV). (Minimum age: 9 years)

- Two HPV vaccines are licensed: a quadrivalent vaccine (HPV4) for the prevention of cervical, vaginal and vulvar cancers (in females) and genital warts (in females and males), and a bivalent vaccine (HPV2) for the prevention of cervical cancers in females.
- HPV vaccines are most effective for both males and females when given before exposure to HPV through sexual contact.
- HPV4 or HPV2 is recommended for the prevention of cervical precancers and cancers in females.
- HPV4 is recommended for the prevention of cervical, vaginal and vulvar precancers and cancers and genital warts in females.
- Administer the first dose to females at age 11 or 12 years.
- Administer the second dose 1 to 2 months after the first dose and the third dose 6 months after the first dose (at least 24 weeks after the first dose).
- Administer the series to females at age 13 through 18 years if not previously vaccinated.
- HPV4 may be administered in a 3-dose series to males aged 9 through 18 years to reduce their likelihood of acquiring genital warts.

3. Meningococcal conjugate vaccine (MCV4).

- Administer at age 11 or 12 years, or at age 13 through 18 years if not previously vaccinated.
- Administer to previously unvaccinated college freshmen living in a dormitory.
- Administer MCV4 to children aged 2 through 10 years with persistent complement component deficiency, anatomic or functional asplenia, or certain other conditions placing them at high risk.
- Administer to children previously vaccinated with MCV4 or MPSV4 who remain at increased risk after 3 years (if first dose administered at age 2 through 6 years) or after 5 years (if first dose administered at age 7 years or older). Persons whose only risk factor is living in on-campus housing are not recommended to receive an additional dose. See *MMWR* 2009;58:1042–3.

4. Influenza vaccine (seasonal).

- Administer annually to children aged 6 months through 18 years.
- For healthy nonpregnant persons aged 7 through 18 years (i.e., those who do not have underlying medical conditions that predispose them to influenza complications), either LAIV or TIV may be used.
- Administer 2 doses (separated by at least 4 weeks) to children aged younger than 9 years who are receiving influenza vaccine for the first time or who were vaccinated for the first time during the previous influenza season but only received 1 dose.
- For recommendations for use of influenza A (H1N1) 2009 monovalent vaccine. See *MMWR* 2009;58(No. RR-10)

5. Pneumococcal polysaccharide vaccine (PPSV).

- Administer to children with certain underlying medical conditions, including a cochlear implant. A single revaccination should be administered after 5 years to children with functional or anatomic asplenia or an immunocompromising condition. See *MMWR* 1997;46(No. RR-8).

6. Hepatitis A vaccine (HepA).

- Administer 2 doses at least 6 months apart.
- HepA is recommended for children aged older than 23 months who live in areas where vaccination programs target older children, who are at increased risk for infection, or for whom immunity against hepatitis A is desired.

7. Hepatitis B vaccine (HepB).

- Administer the 3-dose series to those not previously vaccinated.
- A 2-dose series (separated by at least 4 months) of adult formulation Recombivax HB is licensed for children aged 11 through 15 years.

8. Inactivated poliovirus vaccine (IPV).

- The final dose in the series should be administered on or after the fourth birthday and at least 6 months following the previous dose.
- If both OPV and IPV were administered as part of a series, a total of 4 doses should be administered, regardless of the child's current age.

9. Measles, mumps, and rubella vaccine (MMR).

- If not previously vaccinated, administer 2 doses or the second dose for those who have received only 1 dose, with at least 28 days between doses.

10. Varicella vaccine.

- For persons aged 7 through 18 years without evidence of immunity (see *MMWR* 2007;56(No. RR-4)), administer 2 doses if not previously vaccinated or the second dose if only 1 dose has been administered.
- For persons aged 7 through 12 years, the minimum interval between doses is 3 months. However, if the second dose was administered at least 28 days after the first dose, it can be accepted as valid.
- For persons aged 13 years and older, the minimum interval between doses is 28 days.

TABLE. Catch-up immunization schedule for persons aged 4 months through 18 years who start late or who are more than 1 month behind — United States, 2010

The table below provides catch-up schedules and minimum intervals between doses for children whose vaccinations have been delayed. A vaccine series does not need to be restarted, regardless of the time that has elapsed between doses. Use the section appropriate for the child's age.

| PERSONS AGED 4 MONTHS THROUGH 6 YEARS | | | | | |
|--|------------------------|---|---|---|-----------------------|
| Vaccine | Minimum Age for Dose 1 | Minimum Interval Between Doses | | | |
| | | Dose 1 to Dose 2 | Dose 2 to Dose 3 | Dose 3 to Dose 4 | Dose 4 to Dose 5 |
| Hepatitis B ¹ | Birth | 4 weeks | 8 weeks (and at least 16 weeks after first dose) | | |
| Rotavirus ² | 6 wks | 4 weeks | 4 weeks ² | | |
| Diphtheria, Tetanus, Pertussis ³ | 6 wks | 4 weeks | 4 weeks | 6 months | 6 months ³ |
| <i>Haemophilus influenzae</i> type b ⁴ | 6 wks | 4 weeks if first dose administered at younger than age 12 months 8 weeks (as final dose) if first dose administered at age 12–14 months No further doses needed if first dose administered at age 15 months or older | 4 weeks ⁴ if current age is younger than 12 months 8 weeks (as final dose) ⁴ if current age is 12 months or older and first dose administered at younger than age 12 months and second dose administered at younger than 15 months No further doses needed if previous dose administered at age 15 months or older | 8 weeks (as final dose) This dose only necessary for children aged 12 months through 59 months who received 3 doses before age 12 months | |
| Pneumococcal ⁵ | 6 wks | 4 weeks if first dose administered at younger than age 12 months 8 weeks (as final dose for healthy children) if first dose administered at age 12 months or older or current age 24 through 59 months No further doses needed for healthy children if first dose administered at age 24 months or older | 4 weeks if current age is younger than 12 months 8 weeks (as final dose for healthy children) if current age is 12 months or older No further doses needed for healthy children if previous dose administered at age 24 months or older | 8 weeks (as final dose) This dose only necessary for children aged 12 months through 59 months who received 3 doses before age 12 months or for high-risk children who received 3 doses at any age | |
| Inactivated Poliovirus ⁶ | 6 wks | 4 weeks | 4 weeks | 6 months | |
| Measles, Mumps, Rubella ⁷ | 12 mos | 4 weeks | | | |
| Varicella ⁸ | 12 mos | 3 months | | | |
| Hepatitis A ⁹ | 12 mos | 6 months | | | |
| PERSONS AGED 7 THROUGH 18 YEARS | | | | | |
| Tetanus, Diphtheria/ Tetanus, Diphtheria, Pertussis ¹⁰ | 7 yrs ¹⁰ | 4 weeks | 4 weeks if first dose administered at younger than age 12 months 6 months if first dose administered at 12 months or older | 6 months if first dose administered at younger than age 12 months | |
| Human Papillomavirus ¹¹ | 9 yrs | Routine dosing intervals are recommended ¹¹ | | | |
| Hepatitis A ⁹ | 12 mos | 6 months | | | |
| Hepatitis B ¹ | Birth | 4 weeks | 8 weeks (and at least 16 weeks after first dose) | | |
| Inactivated Poliovirus ⁶ | 6 wks | 4 weeks | 4 weeks | 6 months | |
| Measles, Mumps, Rubella ⁷ | 12 mos | 4 weeks | | | |
| Varicella ⁸ | 12 mos | 3 months if person is younger than age 13 years 4 weeks if person is aged 13 years or older | | | |

- Hepatitis B vaccine (HepB).**
 - Administer the 3-dose series to those not previously vaccinated.
 - A 2-dose series (separated by at least 4 months) of adult formulation Recombivax HB is licensed for children aged 11 through 15 years.
- Rotavirus vaccine (RV).**
 - The maximum age for the first dose is 14 weeks 6 days. Vaccination should not be initiated for infants aged 15 weeks 0 days or older.
 - The maximum age for the final dose in the series is 8 months 0 days.
 - If Rotarix was administered for the first and second doses, a third dose is not indicated.
- Diphtheria and tetanus toxoids and acellular pertussis vaccine (DTaP).**
 - The fifth dose is not necessary if the fourth dose was administered at age 4 years or older.
- Haemophilus influenzae* type b conjugate vaccine (Hib).**
 - Hib vaccine is not generally recommended for persons aged 5 years or older. No efficacy data are available on which to base a recommendation concerning use of Hib vaccine for older children and adults. However, studies suggest good immunogenicity in persons who have sickle cell disease, leukemia, or HIV infection, or who have had a splenectomy; administering 1 dose of Hib vaccine to these persons who have not previously received Hib vaccine is not contraindicated.
 - If the first 2 doses were PRP-OMP (PedvaxHIB or Comvax), and administered at age 11 months or younger, the third (and final) dose should be administered at age 12 through 15 months and at least 8 weeks after the second dose.
 - If the first dose was administered at age 7 through 11 months, administer the second dose at least 4 weeks later and a final dose at age 12 through 15 months.
- Pneumococcal vaccine.**
 - Administer 1 dose of pneumococcal conjugate vaccine (PCV) to all healthy children aged 24 through 59 months who have not received at least 1 dose of PCV on or after age 12 months.
 - For children aged 24 through 59 months with underlying medical conditions, administer 1 dose of PCV if 3 doses were received previously or administer 2 doses of PCV at least 8 weeks apart if fewer than 3 doses were received previously.
 - Administer pneumococcal polysaccharide vaccine (PPSV) to children aged 2 years or older with certain underlying medical conditions, including a cochlear implant, at least 8 weeks after the last dose of PCV. See *MMWR* 1997;46(No. RR-8).
- Inactivated poliovirus vaccine (IPV).**
 - The final dose in the series should be administered on or after the fourth birthday and at least 6 months following the previous dose.
- Measles, mumps, and rubella vaccine (MMR).**
 - Administer the second dose routinely at age 4 through 6 years. However, the second dose may be administered before age 4, provided at least 28 days have elapsed since the first dose.
 - If not previously vaccinated, administer 2 doses with at least 28 days between doses.
- Varicella vaccine.**
 - Administer the second dose routinely at age 4 through 6 years. However, the second dose may be administered before age 4, provided at least 3 months have elapsed since the first dose.
 - For persons aged 12 months through 12 years, the minimum interval between doses is 3 months. However, if the second dose was administered at least 28 days after the first dose, it can be accepted as valid.
 - For persons aged 13 years and older, the minimum interval between doses is 28 days.
- Hepatitis A vaccine (HepA).**
 - HepA is recommended for children aged older than 23 months who live in areas where vaccination programs target older children, who are at increased risk for infection, or for whom immunity against hepatitis A is desired.
- Tetanus and diphtheria toxoids vaccine (Td) and tetanus and diphtheria toxoids and acellular pertussis vaccine (Tdap).**
 - Doses of DTaP are counted as part of the Td/Tdap series
 - Tdap should be substituted for a single dose of Td in the catch-up series or as a booster for children aged 10 through 18 years; use Td for other doses.
- Human papillomavirus vaccine (HPV).**
 - Administer the series to females at age 13 through 18 years if not previously vaccinated.
 - Use recommended routine dosing intervals for series catch-up (i.e., the second and third doses should be administered at 1 to 2 and 6 months after the first dose). The minimum interval between the first and second doses is 4 weeks. The minimum interval between the second and third doses is 12 weeks, and the third dose should be administered at least 24 weeks after the first dose.

Information about reporting reactions after immunization is available online at <http://www.vaers.hhs.gov> or by telephone, 800-822-7967. Suspected cases of vaccine-preventable diseases should be reported to the state or local health department. Additional information, including precautions and contraindications for immunization, is available from the National Center for Immunization and Respiratory Diseases at <http://www.cdc.gov/vaccines> or telephone, 800-CDC-INFO (800-232-4636).