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## Assessment of Epidemiology Capacity in State Health Departments — United States, 2009

Since 2001, the Council of State and Territorial Epidemiologists (CSTE) periodically has conducted a standardized national assessment of state health departments' core epidemiology capacity (1-3). During April-June 2009, CSTE sent a webbased questionnaire to the state epidemiologist in each of the 50 states and the District of Columbia. The assessment inquired into workforce capacity and technological advancements to support surveillance. Measures of capacity included total number of epidemiologists and self-assessment of the state's ability to carry out four essential services of public health (ESPH). This report summarizes the results of the assessment, which determined that in 2009, 10% fewer epidemiologists were working in state health departments than in 2006. Compared with 2006, the percentage of state health departments with substantial-to-full (>50%) epidemiology capacity decreased in three ESPH, including 1) capacities to monitor and detect health problems, 2) investigate them, and 3) evaluate the effectiveness of population-based services. The percentage of departments with substantial-to-full epidemiology capacity for bioterrorism/ emergency response decreased slightly, from 76% in 2006 to 73% in 2009. More than 30% of states reported minimal-to-no (<25%) capacity to evaluate and conduct research and for five of nine epidemiology program areas, including environmental health, injury, occupational health, oral health, and substance abuse. Working together, federal, state, and local agencies should develop a strategy to address downward trends and major gaps in epidemiology capacity.

The main objectives of the periodic CSTE Epidemiology Capacity Assessment (ECA) are to count and characterize the state-employed epidemiologist workforce and measure current core epidemiology capacity. Standardized assessments began in 2001 (1) and were conducted in 2004, 2006, and 2009 (2,3). Some of the information sought by the assessments

relate to the four most epidemiology-related ESPH.\* These include 1) monitoring health status to identify and solve community health problems; 2) diagnosing and investigating health problems and health hazards in the community; 3) evaluating effectiveness, accessibility, and quality of personal and population-based health services; and 4) conducting and evaluating research for new insights and innovative solutions to health problems. The assessments also evaluate capacity in nine program areas: infectious diseases, bioterrorism/emergency response, chronic disease, maternal and child health, environmental health, injury, occupational health, oral health, and substance abuse. In 2009, questions were added to assess implementation of selected technological advancements to support surveillance.†

After pilot testing, CSTE made the 2009 ECA questionnaire available on-line to all states from April 1 through June 30, 2009. The state epidemiologist in each state was the designated key informant, and lead epidemiologists added

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<sup>\*</sup> Additional information about the 10 essential services of public health is available at http://www.cdc.gov/od/ocphp/nphpsp/essentialphservices.htm.

<sup>&</sup>lt;sup>†</sup> The questions included, "Do your reports enter into a National Electronic Disease Surveillance System compatible database? Does your state: have fully functional automated electronic laboratory (ELR) reporting?; have a formal web-based provider disease reporting system?; routinely use automated cluster detection software on reportable disease and laboratory finding case report data to look for disease clusters?; routinely geocode all births?, deaths?, reportable disease data?"

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information for program-specific questions. The state epidemiologist also distributed a worksheet on training experience and program areas of work to each enumerated epidemiologist. As follow-up, CSTE contacted each state epidemiologist to ensure the total number of epidemiologists reported on the ECA was correct. All 50 states and the District of Columbia participated. For this survey and past CSTE assessments, an epidemiologist was defined as any person who, regardless of job title, performed functions consistent with the definition of epidemiologist§ in A Dictionary of Epidemiology (4). Part-time positions and full-time positions in which epidemiologists did only part-time epidemiology work were reported as fractions of full-time equivalents. For each of the four ESPH, the state epidemiologist was asked whether the state health department had adequate epidemiology capacity to provide the services and to estimate the extent to which their department met the activity, knowledge, or resources for the ESPH. Estimates were categorized as follows: full capacity = 100% of the activity, knowledge, or resources described within the question are met; almost full = 75%-99%; substantial = 50%-74%; partial = 25%–49%; minimal = some, but <25%; and none = 0. For each program area, the extent of epidemiology and surveillance capacity was assessed using the same scale.\*\* For each program area, the state epidemiologist also was asked to provide the ideal number of epidemiologists needed to fully meet epidemiology and surveillance capacity. Population estimates from the U.S. Census for 2008 were used as denominators.

In 2009, a total of 2,193 epidemiologists worked for the 51 jurisdictions, for a rate of 0.72 epidemiologists per 100,000 population (state median: 0.77 per 100,000; range: 0.19–4.05), a 12% decrease from the 2,498 epidemiologists enumerated in 2004 and a 10% decrease from the 2,436 reported in 2006. Among respondents, 33 (65%) reported substantial-to-full capacity to monitor health status and solve community health problems, and 32 (63%) reported the same capacity to diagnose and investigate health problems and hazards in the community. In contrast, only seven (14%) reported substantial-to-full capacity to evaluate effectiveness, accessibility, and quality of personal and population-based health services, and nine (18%) to conduct research for new insights and innovative solutions to health problems (Figure 1).

<sup>§ &</sup>quot;An investigator who studies the occurrence of disease or other healthrelated conditions or events in defined populations. The control of disease in populations is often also considered to be a task for the epidemiologist, especially in speaking of certain specialized fields such as malaria epidemiology. Epidemiologists may study disease in populations of animals and plants, as well as among human populations."

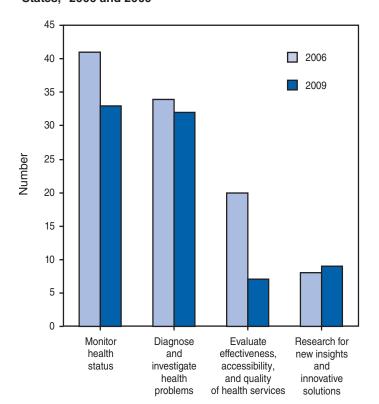
The question asked was, "Does your state health department have adequate epidemiologic capacity to provide the following four essential public health services?"

<sup>\*\*</sup> The question asked was, "What is the extent of the epidemiology and surveillance capacity in the following program areas in your state health department? If needed, please seek the guidance of other state health department staff within program specific areas when completing this question."

Except for the research ESPH, the percentage of states reporting substantial-to-full capacity decreased since 2006.

By program area, 47 states (92%) reported substantial-tofull capacity for infectious diseases, the only area with >75% of states reporting this level of capacity. For three program areas, the majority reported minimal-to-no capacity: occupational health (35, 69%), oral health (31, 61%), and substance abuse (39, 76%) (Figure 2). When compared with ECA results from the 51 jurisdictions from 2004 and 2006, four program areas showed progressive increases in substantialto-full capacity: maternal-child health (43% to 47% to 55%), environmental health (27% to 34% to 38%), injury (18% to 25% to 34%), and occupational health (10% to 14% to 18%). Bioterrorism/emergency response was the only program area with a progressive decrease in substantial-to-full capacity, declining from 41 states (80%) in 2004 to 39 states (76%) in 2006 to 37 states (73%) in 2009. Based on responses from 36 state epidemiologists about additional needs, 1,490 additional epidemiologists (a 68% increase to 1.21 epidemiologists per 100,000 population nationally) are needed to achieve ideal

FIGURE 1. Number of state health departments reporting substantial-to-full (>50%) capacity in four essential services of public health — Council of State and Territorial Epidemiologists Epidemiology Capacity Assessment, United States.\* 2006 and 2009



<sup>\*50</sup> states and the District of Columbia.

epidemiology and surveillance capacity in all program areas, assuming the 15 nonrespondents had no additional need.

The assessment of technology capacity to support surveillance showed that 46 states (90%) had a National Electronic Disease Surveillance System—compliant database, but fewer had automated electronic laboratory reporting (27, 53%) or web-based provider reporting (21, 41%), used automated cluster detection software (12, 24%), or routinely geocoded reportable disease data (15, 29%) or deaths (21, 41%).

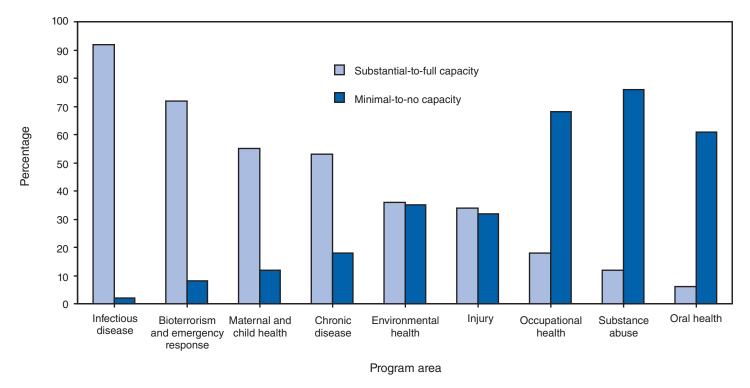
Among 2,193 enumerated epidemiologists, 1,544 (70%) completed worksheets describing their level of formal epidemiology training (Table). Of these, 885 (57%) had degrees in epidemiology, 452 (29%) had completed other formal training or academic coursework in epidemiology, and 207 (13%) had no formal training or academic coursework in epidemiology. Those with masters or higher level degrees in epidemiology increased steadily, from 49% in 2004 to 56% in 2009. The percentage with no formal training or academic coursework decreased steadily, from 29% in 2004 to 13% in 2009. State epidemiologists reported that 164 (8%) staff epidemiologists with advanced degrees retired or left their job during 2008; 17% of the current workforce anticipates leaving within 5 years.

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**Editorial Note:** Epidemiology capacity is essential for detection, control, and prevention of major public health problems. Epidemiology provides information needed to perform four of the 10 ESPH. *Healthy People 2010* objective 23-14 calls for the United States to "increase the proportion of tribal, state, and local public health agencies that provide or assure comprehensive epidemiology services to support essential public health services," so "they can quickly detect, investigate, and respond to diseases to prevent unnecessary transmission" (5). CSTE's periodic ECA is the major data source for measuring baseline and ongoing progress in this objective for state public health agencies.

The 2009 ECA revealed that the number of state-level epidemiologists has decreased since 2004, with a marked decline since 2006. The assessment also revealed a decrease in functional epidemiology capacity (even though the residual workforce appears to be increasingly well trained). Two potential explanations for the erosion in state epidemiology capacity are reduced federal terrorism preparedness and emergency response funding during the past 3–4 years and overall decline of state budgets. The 2004 assessment demonstrated that the number of epidemiologists in 39 responding states had increased by 25% from 2001 to 2004, a direct result of federal preparedness funding (2). As of 2006, such funding supported approximately 25% of state-based epidemiologists (3). However, annual

FIGURE 2. Percentage of state health departments reporting substantial-to-full (50%–100%) and minimal-to-no (<25%) capacity in epidemiology and surveillance programs, by program area — Council of State and Territorial Epidemiologists Epidemiology Capacity Assessment, United States,\* 2009



<sup>\*50</sup> states and the District of Columbia.

awards of new grants to states through this funding stream decreased from a high of \$1 billion in 2002 to approximately \$698 million in 2008 (6), and bioterrorism/emergency epidemiology and surveillance capacity has decreased concurrently since peaking in 2004. Many states have adjusted their budgets to compensate for diminished revenues in 2008, resulting in workforce reduction. Recent efforts to improve public health workforce training and competence have resulted in progress. However, workforce development remains a challenge. The smaller, if more highly trained, epidemiology workforce is unable to fully compensate for current losses in personnel. Furthermore, the 2009 assessment suggests that nearly 20%

of current public health epidemiologists anticipate retiring or changing careers in the next 5 years.

The findings of this report are subject to at least three limitations. First, the 2009 assessment only measured epidemiology capacity of state health departments. The capacity of local health departments was not measured. Second, the methods used by respondents to estimate their capacity to perform the essential services of public health, program-specific epidemiology and surveillance capacity, and the numbers needed to reach ideal capacity were subjective and likely varied by state and year. Finally, only 70% of respondents indicated training

TABLE. Number and percentage of state-level epidemiologists, by highest level of academic training in epidemiology — Council of State and Territorial Epidemiologists Epidemiology Capacity Assessment, United States,\* 2004, 2006, and 2009

|  | 20    | 004    | 20    | 006    | 20    | 009    |
|--|-------|--------|-------|--------|-------|--------|
| Highest level of epidemiology-specific training                | No.   | (%)    | No.   | (%)    | No.   | (%)    |
| Doctoral degree (e.g., PhD, DrPH)                              | 133   | (7.0)  | 193   | (8.5)  | 121   | (7.8)  |
| Master's degree (e.g, MPH, MSPH) in epidemiology               | 806   | (42.5) | 1,063 | (46.6) | 750   | (48.6) |
| Bachelor's degree (e.g., BA, BS) in epidemiology               | 47    | (2.5)  | 52    | (2.3)  | 14    | (0.9)  |
| Completed formal training program in epidemiology (e.g., EIS†) | 103   | (5.4)  | 157   | (6.9)  | 103   | (6.7)  |
| Completed some coursework in epidemiology                      | 266   | (14.0) | 445   | (19.5) | 349   | (22.6) |
| None or on-the-job training                                    | 541   | (28.5) | 370   | (16.2) | 207   | (13.4) |
| Total  | 1,897 |        | 2,280 |        | 1,544 |        |

<sup>\*</sup> Data on 74% of epidemiologists in 2004, 94% in 2006, and 70% in 2009.

<sup>†</sup> Epidemic Intelligence Service.

#### What is already known on this topic?

Data on state-level epidemiology capacity from surveys conducted by the Council of State and Territorial Epidemiologists (CSTE) since 2001 indicate that capacity overall is <50% in many areas, but that it increased substantially from 2001 to 2004 after the appropriation of federal funding for public health preparedness.

#### What is added by this report?

Data from the most recent CSTE survey indicate that overall state-level epidemiology capacity remains below 50% in many areas and has deteriorated since 2006, in part as a consequence of diminishing public health preparedness funding.

#### What are the implications for public health practice?

State, federal, and local agencies should work together to address downward trends and major gaps in capacity by determining optimal epidemiology capacity and technology requirements, and developing a strategy for achieving them.

level, compared with 74% in 2004 and 94% in 2006, and results might have differed with more complete response.

Many states still do not have the technology capacity (e.g., automated electronic laboratory-based reporting, web-based provider reporting, and cluster-detection software) to conduct state-of-the-art surveillance for acute diseases. The result is less timely and complete reporting, reduced ability to rapidly detect outbreaks, and reduced ability to expand laboratory-based surveillance to monitor gaps in percentage of the population being adequately treated for conditions that affect large numbers of persons, such as human immunodeficiency virus and diabetes. In addition, states that do not routinely geocode address data cannot make use of geographic information systems to better describe and respond to disparities in health. State, federal, and local agencies should work together to address these downward trends and major gaps in capacity. Agencies should reach a consensus on optimal levels of epidemiology capacity and technology requirements, and then develop a strategy to achieve them.

#### **Acknowledgments**

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### Imported Case of Marburg Hemorrhagic Fever — Colorado, 2008

Marburg hemorrhagic fever (MHF) is a rare, viral hemorrhagic fever (VHF); the causative agent is an RNA virus in the family Filoviridae, and growing evidence demonstrates that fruit bats are the natural reservoir of Marburg virus (MARV) (1,2). On January 9, 2008, an infectious disease physician notified the Colorado Department of Public Health and Environment (CDPHE) of a case of unexplained febrile illness requiring hospitalization in a woman who had returned from travel in Uganda. Testing of early convalescent serum demonstrated no evidence of infection with agents that cause tropical febrile illnesses, including VHF. Six months later, in July 2008, the patient requested repeat testing after she learned of the death from MHF of a Dutch tourist who had visited the same bat-roosting cave as the patient, the Python Cave in Queen Elizabeth National Park, Uganda (3). The convalescent serologic testing revealed evidence of prior infection with MARV, and MARV RNA was detected in the archived early convalescent serum. A public health investigation did not identify illness consistent with secondary MHF transmission among her contacts, and no serologic evidence of infection was detected among the six tested of her eight tour companions. The patient might have acquired MARV infection through exposure to bat secretions or excretions while visiting the Python Cave. Travelers should be aware of the risk for acquiring MHF in caves or mines inhabited by bats in endemic areas

in sub-Saharan Africa. Health-care providers should consider VHF among travelers returning from endemic areas who experience unexplained febrile illness.

#### **Case Report**

On January 1, 2008, the patient, a woman aged 44 years with no remarkable past medical history, returned to the United States from a 2-week safari in Uganda, where her activities included camping, white-water rafting, visiting local villages, and viewing wildlife. She had taken malaria prophylaxis with atovaquone-proguanil, as prescribed. On January 4, she experienced severe headache, chills, nausea, vomiting, and diarrhea (Figure). She self-treated for traveler's diarrhea with 2 doses of ciprofloxacin, and developed a diffuse rash. On January 6 and 7, she was seen as an outpatient, had laboratory testing performed, and was treated with antiemetics. A complete blood count on January 6 revealed an abnormally low white blood cell count of  $900/\mu$ L (normal range:  $4,500-10,500/\mu$ L). She returned to her primary-care physician's clinic on January 8, complaining of persistent diarrhea and abdominal pain, as well as worsening fatigue, generalized weakness, and confusion. On physical examination, she appeared pale and fatigued, and had decreased bowel sounds; the remainder of her examination was unremarkable. Laboratory results received on January 8 revealed hepatitis (aspartate aminotransaminase 9,660 U/dL [normal range: 15-41 U/L] and alanine aminotransferase 4,823 U/dL [normal range: 14-54 U/L]) and renal failure (creatinine 2.3 mg/dL [normal range: 0.7-1.2 mg/dL]). The patient was admitted to a community hospital for further management. The admission diagnosis was acute hepatitis, nausea, and vomiting of unknown etiology.

On admission, the patient was afebrile (temperature 96.2°F [35.7°C]). She was treated with intravenous fluids and was started on doxycycline for possible leptospirosis. Her hospital course was characterized by pancytopenia, coagulopathy, myositis, pancreatitis, and encephalopathy, all of which are complications that have been associated with MHF. She had no signs of gross hemorrhage other than vaginal bleeding attributed to menses. During her hospitalization, she underwent cholecystectomy for acalculous cholecystitis. Testing was negative for leptospirosis, viral hepatitis, malaria, arboviral infection, acute schistosomiasis, rickettsial infection, and VHFs (including Marburg and Ebola hemorrhagic fever) (Table). Early convalescent serum collected on January 14 (10 days after illness onset) was submitted to CDC for testing and demonstrated no evidence of MARV infection by virus isolation, antigen-detection enzyme-linked immunosorbent assay (ELISA), or anti-MARV immunoglobulin M (IgM) and IgG ELISA. The patient was discharged on January 19 and had a prolonged recovery over the following year because of persistent abdominal pain, fatigue, and "mental fog," but had no long-term sequelae such as chronic hepatitis or chronic renal disease. She received a blood transfusion for persistent anemia after she was discharged.

In July 2008, the patient requested repeat testing after she learned of the fatal case of MHF in a Dutch tourist who recently had visited the same cave she had visited in Uganda, the Python Cave. The Colorado patient had visited the cave on December 25, 2007, 10 days before onset of her initial symptoms. Serum collected on July 15 tested positive for anti-MARV IgG by ELISA, prompting additional testing of the archived day 10 serum. Traditional reverse-transcriptase polymerase chain reaction (RT-PCR) was negative, and real-time (Taqman) RT-PCR was equivocal; however, nested RT-PCR\* confirmed the presence of MARV RNA fragments in the day 10 sample.

#### **Public Health Response**

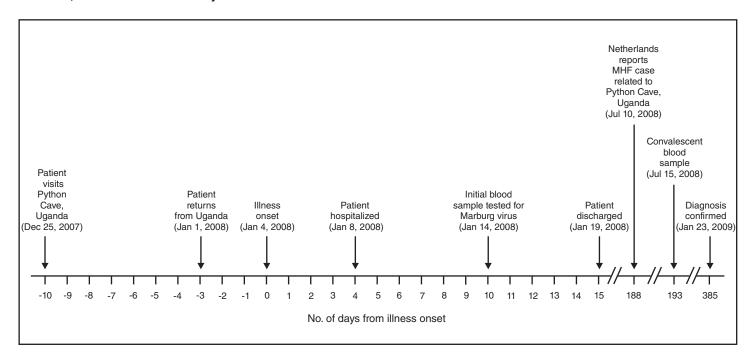
On January 22, 2009, CDC notified the World Health Organization and Uganda Ministry of Health of the imported MHF case. The Python Cave had already been closed to visitors in July 2008, during the response to the Dutch MHF case. CDPHE and CDC conducted a public health investigation during January-February 2009. Interviews were conducted with the patient and her spouse, the patient's medical records were reviewed, and a retrospective contact investigation was conducted to identify possible secondary transmission. A contact was defined as a person who had physical contact with the patient, her body fluids, or contaminated materials or was in the same room as the patient during her acute illness (January 4-19, 2008). Contacts included health-care workers (including health-care providers, housekeeping staff, and hospital laboratory staff), commercial laboratory staff, and social contacts.

To limit the effect of recall bias and to identify secondary cases of MHF, a contact-tracing protocol (4) was modified for retrospective use to identify contacts who had a high-risk exposure to the patient's body fluids (through splash, percutaneous, or nonintact skin exposure), or prolonged absenteeism of ≥7 days as indicated by review of health and payroll records. The contact investigation identified approximately 260 contacts: 220 health-care workers, approximately 30 commercial laboratory workers from five laboratories, and 10 social contacts. No high-risk exposure or severe febrile illness was identified.

The patient and her spouse reported spending approximately 15–20 minutes in the cave and recalled seeing bats flying

<sup>\*</sup>Nested RT-PCR is more sensitive and specific than traditional RT-PCR. A portion of the product produced from the first round of amplification is used in the second round of amplification along with a different set of primers.

FIGURE. Timeline of key events in the treatment and diagnosis of an imported case of Marburg hemorrhagic fever (MHF) — Colorado, December 2007–January 2009



overhead. Neither remembered her having contact with a bat or sustaining an injury in the cave. However, the patient reported touching guano-covered rocks while climbing into the cave and surmised that she might have covered her mouth and nose with her hands once inside because of the unpleasant smell.

CDC, with assistance from public health agencies in Illinois, Uganda, Belgium, and the United Kingdom, conducted an investigation of the eight tour companions who accompanied the patient when she visited the Python Cave. During February–July 2009, participants were interviewed using a standardized questionnaire by telephone or e-mail and were offered serologic testing by anti-MARV IgG ELISA. Questionnaires were completed for all eight tour companions. All eight reported having entered the cave (at least under the cave ceiling), and six reported climbing over a crop of boulders further inside as the patient had done; however, none reported

direct contact with bats or bat guano/urine. Serum samples were provided by six of the tour companions; none had evidence of prior MARV infection by anti-MARV IgG.

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Editorial Note: Before the case described in this report, the only human cases of VHF imported into the United States were single cases of Lassa fever (an arenaviral hemorrhagic fever) in Chicago, Illinois, in 1989 (5) and in Trenton, New Jersey, in 2004 (4). No previous cases of imported filovirus (MARV or

TABLE. Marburg virus (MARV)-specific test results for an imported case of Marburg hemorrhagic fever, by serum sample tested — Colorado, 2008–2009

|                              |                  | Serum samp                | le tested         |                  |
|------------------------------|------------------|---------------------------|-------------------|------------------|
| Test performed               | 1/14/08 (day 10) | Archived 1/14/08 (day 10) | 7/15/08 (day 193) | 2/3/09 (day 396) |
| Anti-MARV IgM* ELISA†        | Negative         | Negative                  | Negative          | Negative         |
| Anti-MARV IgG§ ELISA         | Negative         | Negative                  | Positive          | Positive         |
| MARV antigen-detection ELISA | Negative         | Negative                  | Negative          | Not done         |
| Virus isolation              | Negative         | Negative                  | Negative          | Not done         |
| Nested RT-PCR <sup>¶</sup>   | Not done         | Positive                  | Not done          | Not done         |

<sup>\*</sup> Immunoglobulin M.

<sup>†</sup> Enzyme-linked immunosorbent assay.

<sup>§</sup> Immunoglobulin G.

<sup>¶</sup> Reverse transcription–polymerase chain reaction.

#### What is already known on this topic?

Marburg hemorrhagic fever (MHF) is a rare viral hemorrhagic fever caused by Marburg virus (a filovirus in the same family as Ebola virus), which is endemic in tropical areas of Africa and likely is maintained in nature by cave-dwelling bats.

#### What is added by this report?

The case described in this report, the first imported case of a filoviral hemorrhagic fever in the United States, adds further support to the epidemiologic link between MHF and exposure to caves inhabited by bats in Africa.

#### What are the implications for public health practice?

Health-care providers should advise travelers to endemic areas of Africa to avoid entering caves inhabited by bats, should consider the diagnosis of viral hemorrhagic fever among severely ill travelers returning from endemic areas, and should rapidly report, isolate, and test patients with suspected cases.

Ebola virus) infections have been reported in the United States, making this the first imported case of a filoviral hemorrhagic fever in the United States.

The patient described in this report was first diagnosed by convalescent serology because initial testing of the day 10 sample was negative by virus isolation, antigen-detection, and IgM and IgG ELISA. After the Dutch patient was diagnosed with MHF, retesting of the archived specimen with more sensitive molecular methods was performed, including a nested RT-PCR assay that detected viral RNA. This, along with the positive convalescent serology and compatible clinical course, confirmed the diagnosis. To obtain a rapid diagnosis during the acute illness, patients with suspected VHF should have paired acute blood specimens (ideally collected during days 0-4 and days 4-9 of the acute illness) tested at a World Reference Laboratory (e.g., CDC) with biosafety level 4 capability using multiple methods as appropriate for the timing of the sample, including virus isolation, RT-PCR, and IgM and IgG ELISA. Because the incubation period for MARV is 2–21 days, daily contact tracing is recommended to contain outbreaks. This involves following all contacts of patients suspected of having MHF, and isolating and testing those that experience fever within 21 days after their last contact.

Other sporadic cases of MHF have been reported outside of Africa: two laboratory-acquired cases in Russia and two cases imported from endemic areas (3,6). These imported cases occurred in a patient hospitalized in South Africa who likely acquired the disease while camping in Zimbabwe in 1975 (6) and the second in the previously described Dutch patient hospitalized in the Netherlands who died of MHF after visiting the Python Cave in Uganda in 2008 (3). Case-fatality rates of 83%–90% have been reported for widespread outbreaks of MHF in Africa (1,7).

Virologic and serologic evidence of MARV infection has been documented among cave-dwelling bats, particularly the Egyptian fruit bat Rousettus aegyptiacus (2); this evidence has implicated bats as the likely natural reservoir for MARV. R. aegyptiacus bats have a wide range covering most of Africa, indicating that risk for zoonotic infection might exist beyond areas with previously documented cases. The precise route of MARV transmission from the putative bat reservoir to humans has not been determined and might include direct or indirect exposure to bat excretions and secretions. MHF outbreaks have resulted from exposure to caves or mines inhabited by bats (1,8) and subsequent human-to-human transmission through direct contact with infectious body fluids and contaminated materials, primarily affecting caregivers and health-care workers (8,9). Isolation of suspected patients and implementation of droplet and contact precautions are recommended to prevent person-to-person spread.†

Although the Python Cave is closed and no additional MHF cases have been reported, travelers should be aware of the risk for acquiring MHF in endemic areas in Africa and should avoid entering caves or mines inhabited by bats in these areas (10). Health-care providers should have a low threshold of suspicion for VHF among travelers returning from endemic areas, promptly implement appropriate infection control measures, and rapidly report suspected cases. Suspected cases of VHF are nationally notifiable and should be reported immediately to local and state health departments and to CDC's Special Pathogens Branch at 404-639-1115 (770-488-7100 after hours) to obtain guidance on testing, management, and response. Additional information regarding Marburg hemornhagic fever, travelers' health, and VHF infection-control guidelines\*\* are available online.

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<sup>†</sup> Based on CDC's Interim Guidance for Managing Patients with Suspected Viral Hemorrhagic Fever in U.S. Hospitals, available at http://www.cdc.gov/ncidod/dhqp/bp\_vhf\_interimguidance.html.

 $<sup>\</sup>S$  Available at http://www.cdc.gov/ncidod/dvrd/spb/mnpages/dispages/marburg.htm.

<sup>¶</sup> Available at http://wwwn.cdc.gov/travel.

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# Agranulocytosis Associated with Cocaine Use — Four States, March 2008–November 2009

In April 2008, a clinical reference laboratory in New Mexico notified the New Mexico Department of Health (NMDOH) of a cluster of unexplained agranulocytosis cases confirmed by bone marrow histopathology during the preceding 2 months. NMDOH began an investigation, which identified cocaine use as a common exposure in 11 cases of otherwise unexplained agranulocytosis during April 2008-November 2009. In the midst of the NMDOH investigation, in November 2008, public health officials in British Columbia and Alberta, Canada, reported detecting levamisole (an antihelminthic drug used mainly in veterinary medicine and a known cause of agranulocytosis [1]) from clinical specimens and drug paraphernalia of cocaine users with agranulocytosis. In January 2009, NMDOH posted a notification of its findings on CDC's Epidemic Information Exchange (Epi-X) and notified poison control centers. In a separate investigation during April-November 2009, public health officials in Seattle, Washington, identified 10 cases of agranulocytosis among persons with a history of cocaine use. Of the 21 cases, levamisole was detected from clinical specimens in four of the five patients tested.

According to the Drug Enforcement Administration (DEA), as of July 2009, 69% of seized cocaine lots coming into the United States contained levamisole as an added agent. This report summarizes the investigations in New Mexico and Washington, which suggested that levamisole in cocaine was the likely cause of the agranulocytosis. Health-care providers should consider these findings in the differential diagnosis of agranulocytosis, and public health officials should be aware of cases of agranulocytosis associated with cocaine use.

#### **New Mexico Investigation**

After learning of the unexplained agranulocytosis in April 2008, NMDOH investigated the cases through medical record reviews and interviews with health-care providers. Four of the six patients had been undergoing treatments that were thought to have caused agranulocytosis (i.e., cancer treatment, gabapentin, sulfasalazine, and an unidentified herbal remedy obtained outside of the country). The remaining two patients (patients 1 and 2 [Table]) had no known cause, although both patients were linked to illicit drug use (marijuana and cocaine for patient 1; heroin, and later, cocaine for patient 2). During the next 8 months, passive surveillance for additional cases resulted in seven additional cases of agranulocytosis reported to NMDOH, six from the same laboratory that sent the original alert to NMDOH, and one decedent (patient 3) from the New Mexico Office of the Medical Investigator. The seven additional cases included one Arizona resident examined in a New Mexico hospital (patient 9) and another (patient 10), whose bone marrow specimen was referred from Colorado.

To further investigate possible common exposures for patients with unexplained agranulocytosis, in June 2008 NMDOH developed a standardized questionnaire to include questions about illicit drug use and known causes of agranulocytosis. NMDOH conducted medical record reviews, physician interviews, and patient interviews for all patients with unexplained agranulocytosis reported to NMDOH. Of the 13 cases reported by January 2009, nine were deemed unexplained, and seven of these patients reported a history of cocaine use.

A review of the scientific literature revealed no reports of agranulocytosis associated with cocaine use. However, in November 2008, NMDOH investigators learned that levamisole\* had been isolated from clinical specimens and drug paraphernalia of five cocaine-using patients with agranulocytosis in British Columbia and Alberta, Canada. Although levamisole

<sup>\*</sup> Levamisole is approved by the Food and Drug Administration as an adjuvant treatment for colon cancer and previously was used as an immunomodulator for various conditions. However, levamisole no longer is commonly used for these purposes. Today, levamisole primarily is used in veterinary practice as an antihelminthic agent.

TABLE. Cases (N = 21) of agranulocytosis associated with cocaine use, by selected patient and clinical characteristics — four states, March 2008–November 2009

| Patient no. | State of residence | Approximate age (yrs) | Sex    | Race/<br>Ethnicity                      | Clinical presentation*  | Type of cocaine used/<br>Route | Recurrent<br>episodes of<br>agranulo-<br>cytosis | ANC†     | Date of first<br>reported<br>hospitalization |         | Levamisole testing§ | Patient outcome  |
|-------------|--------------------|-----------------------|--------|---|---|--------------------------------|--|----------|--|---------|---------------------|------------------|
| 1           | New Mexico         | 30s                   | Female | American<br>Indian/<br>Alaska<br>Native | Acute febrile illness with<br>nausea, vomiting, fatigue,<br>headache, and myalgias  | Crack/<br>Smoke                | 2  | 0        | 3/22/08                                      | 6       | Negative            | Full<br>recovery |
| 2           | New Mexico         | 40s                   | Male   | Hispanic                                | Acute febrile illness with<br>nausea, vomiting, pharyngitis,<br>fatigue, headache, and<br>myalgias                            | Crack/<br>Smoke                | 1  | 100      | 3/30/08                                      | 4       | Not done            | Full<br>recovery |
| 3           | New Mexico         | 50s                   | Male   | White                                   | Possible peritonsillar abscess with fever, pharyngitis, fatigue, headache, and myalgias                                       | Unknown                        | 1  | Not done | 3/24/08                                      | Unknown | Positive (blood)    | Died             |
| 4           | New Mexico         | 30s                   | Male   | White                                   | Acute febrile illness with myalgias   | Powder/<br>Snort               | 2  | 0        | 10/07/08                                     | 7       | Not done            | Full recovery    |
| 5           | New Mexico         | 40s                   | Female | Hispanic                                | Vomiting and diarrhea with headache, chills, and back pain  | Crack/<br>Smoke                | 0  | 0        | 12/27/08                                     | 11      | Not done            | Full<br>recovery |
| 6           | New Mexico         | 40s                   | Female | White                                   | Pharyngitis, dyspnea, sore gums and teeth, swollen glands   | Powder/<br>Snort               | 0  | 220      | 9/27/09                                      | 2       | Not done            | Full<br>recovery |
| 7           | New Mexico         | 20s                   | Female | Hispanic                                | Fever, mouth sores, lymphadenitis   | Crack/<br>Smoke                | 0  | 100      | 11/12/09                                     | 7       | Not done            | Full recovery    |
| 8           | New Mexico         | 20s                   | Female | White                                   | Fever, body aches   | Powder/<br>Smoke               | 0  | 240      | 11/18/09                                     | <1      | Not done            | Unknown          |
| 9           | Arizona            | 20s                   | Male   | American<br>Indian/<br>Alaska<br>Native | Pharyngitis with painful gums<br>and lesions on ears, arms,<br>legs, and trunk  | Powder/<br>Snort               | 0  | 24       | 5/2/08                                       | 5       | Not done            | Full<br>recovery |
| 10          | Colorado           | 40s                   | Female | Unknown                                 | Arm and neck mass with fever and cough.   | Powder/<br>Snort               | 1  | 430      | 4/28/08                                      | 10      | Not done            | Full recovery    |
| 11          | Colorado           | 40s                   | Male   | White                                   | Acute febrile illness with<br>nausea, vomiting, diarrhea,<br>painful gums, pharyngitis,<br>fatigue, headache, and<br>myalgias | Crack/<br>Smoke                | 0  | 19       | 2/28/09                                      | 5       | Positive<br>(urine) | Full<br>recovery |
| 12          | Washington         | 50s                   | Male   | Unknown                                 | Chest pain, shortness of breath, and cough  | Unknown                        | 0  | 20       | 2/11/09                                      | 48      | Not done            | Full<br>recovery |
| 13          | Washington         | 40s                   | Male   | American<br>Indian/<br>Alaska<br>Native | Acute febrile illness with chills, myalgias, mouth sores, diarrhea, and fatigue   | Crack/<br>Smoke                | 1  | 0        | 4/21/09                                      | 7       | Not done            | Full recovery    |
| 14          | Washington         | 30s                   | Female | Unknown                                 | Acute febrile illness with chills, nausea, vomiting, and sore throat  | Crack/<br>Smoke                | 0  | 0        | 11/19/08                                     | 7       | Not done            | Full recovery    |

See Table footnotes on next page.

had been isolated previously from cocaine, cocaine paraphernalia, and persons who used cocaine (2–4), agranulocytosis had not been associated previously with cocaine use. At the same time, the NMDOH Scientific Laboratory Division (SLD) reported that several unrelated specimens submitted for routine toxicology screening were positive for both cocaine and levamisole.

In January 2009, NMDOH SLD detected levamisole using gas chromatography/mass spectrophotometry (GC/MS) in a postmortem blood specimen from patient 3, who had a diagnosis of *Serratia marcescans* sepsis and agranulocytosis. The specimen had been collected in March 2008 and preserved as part of an investigation by the New Mexico Office of the Medical Investigator. The patient had been admitted to the hospital 5 months before death with a diagnosis of agranulocytosis and

an absolute neutrophil count (ANC) of zero. No testing of the other cocaine-exposed patients for levamisole was conducted because levamisole has a half life of approximately 5 hours and was unlikely to be detected in blood or urine beyond 48 hours after the last exposure (5). The rest of the specimens from the seven patients with a history of cocaine use had been collected more than 48 hours after the last cocaine exposure.

On January 16, 2009, NMDOH issued a press release and notified health-care providers through the New Mexico Health Alert Network about the potential for agranulocytosis resulting from inadvertent levamisole exposure during cocaine use. Health-care providers were asked to report cases of unexplained agranulocytosis. One week later, NMDOH released the same information nationally through CDC's Epi-X and poison

TABLE. (Continued) Cases (N = 21) of agranulocytosis associated with cocaine use, by selected patient and clinical characteristics — four states, March 2008–November 2009

| Patient no. | State of residence | Approximate age (yrs) | Sex    | Race/<br>Ethnicity                      | Clinical presentation*  | Type of cocaine used/<br>Route      | Recurrent<br>episodes of<br>agranulo-<br>cytosis | ANC†<br>cells/µL | Date of first reported hospitalization | Hospital<br>length<br>of stay<br>(days) | Levamisole testing§ | Patient outcome  |
|-------------|--------------------|-----------------------|--------|---|---|-------------------------------------|--|------------------|--|---|---------------------|------------------|
| 15          | Washington         | 40s                   | Male   | Black                                   | Acute febrile illness with<br>chills, malaise, sore throat,<br>fever, chills, muscle aches,<br>headache, and swollen neck   | Cocaine/<br>Snort                   | 1  | 0                | 5/31/09                                | 7                                       | Not done            | Full<br>recovery |
| 16          | Washington         | 40s                   | Female | Unknown                                 | Acute febrile illness with pharyngitis  | Crack/<br>Smoke<br>Powder/<br>Snort | 0  | 0                | 6/05/09                                | 2                                       | Not done            | Unknown          |
| 17          | Washington         | 40s                   | Female | American<br>Indian/<br>Alaska<br>Native | Acute febrile illness with sore<br>throat, chills, muscle aches,<br>headache, cough, nausea,<br>vomiting, abdominal pain,<br>painful gums, and shortness<br>of breath | Crack/<br>Smoke                     | 0  | 20               | 7/10/09                                | 8                                       | Positive<br>(urine) | Full<br>recovery |
| 18          | Washington         | 40s                   | Female | Black                                   | Acute febrile illness with chills, shortness of breath, and cough   | Crack/<br>Unknown                   | 0  | 39               | 7/03/09                                | 5                                       | Not done            | Full recovery    |
| 19          | Washington         | 40s                   | Female | American<br>Indian/<br>Alaska<br>Native | Acute febrile illness with sore<br>throat, chills, muscle aches,<br>diarrhea, painful gums,<br>abdominal pain, and shortness<br>of breath                             | Crack/<br>Smoke                     | 0  | 0                | 7/16/09                                | 3                                       | Not done            | Full<br>recovery |
| 20          | Washington         | 50s                   | Female | Black                                   | Throat pain, difficulty swallowing; swollen glands  | Crack/<br>Unknown                   | 0  | 10               | 7/23/09                                | <1                                      | Positive (urine)    | Full recovery    |
| 21          | Washington         | 40s                   | Female | Unknown                                 | Weakness and fatigue, fever, sore throat, swollen gums  | Cocaine/<br>Unknown                 | 0  | 152              | 7/28/09                                | 4                                       | Not done            | Full recovery    |

<sup>\*</sup> Clinical presentation at first reported incidence of agranulocytosis.

control centers. This action generated a report of one additional case (patient 10) in a cocaine user from Colorado, reported to NMDOH on February 28, 2009. A urine specimen from this patient was sent to NMDOH SLD, where levamisole was identified using GC/MS. Colorado law enforcement also detected levamisole using GS/MS in residue from the crack cocaine pipe that the patient submitted voluntarily. Since February 2009, three additional cases (patients 6, 7, and 8) have been detected in New Mexico. Levamisole testing was not conducted in any of these three patients because they were examined in the hospital >48 hours after last cocaine exposure. In total, 11 cases of agranulocytosis had been associated with cocaine use through the NMDOH investigation as of November 2009.

#### Washington Investigation

In April 2009, epidemiologists at Public Health – Seattle & King County (PHSKC) noted a published report from Canada describing agranulocytosis and infections in five users of cocaine contaminated with levamisole (6), and issued an alert to clinicians. Simultaneously, PHSKC received a report of three persons previously hospitalized with agranulocytosis (patients 12, 13, and 14) among persons with a history of cocaine use and initiated an investigation. A second PHSKC alert to local health-care providers and press release at the beginning of June 2009 generated five additional reports. As of November 2009,

a total of 10 cases had been investigated in conjunction with the Washington State Department of Health.

As of November 2009, a total of 21 cases of cocaine-associated agranulocytosis had been investigated by NMDOH and PHSKC. Thirteen patients were women. The mean age was 42 years (range: 24–58 years). Five patients were whites, three were blacks, five were American Indian/Alaska Natives, three were Hispanics, and five were of unknown race/ethnicity. Both powder and crack cocaine use has been reported by these patients. Seven patients had at least one documented recurrence of agranulocytosis after repeated cocaine use, and eight patients had at least one documented incidence of agranulocytosis before they were reported to the health department. Of the 21 patients, five were tested by GC/MS for the presence of levamisole, and levamisole was isolated from four of the five patients.

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<sup>†</sup> Absolute neutrophil count at clinical presentation.

<sup>§</sup> Qualitative levamisole testing; gas chromatography/mass spectrophotometry.

#### What is already known on this topic?

In a recent report from Canada, agranulocytosis was associated with cocaine contaminated with levamisole.

#### What is added by this report?

Investigators from New Mexico and Washington identified an additional 21 cocaine users with unexplained agranulocytosis likely caused by exposure to levamisole.

#### What are the implications for public health practice?

Health-care providers should consider these findings in the differential diagnosis of agranulocytosis, and public health officials should be aware of cases of agranulocytosis associated with cocaine use.

Editorial Note: Agranulocytosis is an uncommon condition (7.2 cases per 1 million population per year, excluding patients with cancer and patients receiving cytotoxic drugs) (7) that carries a risk for opportunistic infections and can be fatal in approximately 7%-10% of cases (8). Known causes include pharmaceutical drugs, toxins, ionizing radiation, autoimmune and genetic disorders, certain infections, and neoplasms (7). This report presents 21 cases of agranulocytosis for which, aside from cocaine exposure, no other common exposure was identified. Cocaine exposure has not been associated previously with agranulocytosis and, therefore, by itself, is not a likely cause of the agranulocytosis. However, agranulocytosis as a result of exposure to cocaine containing levamisole, a known cause of agranulocytosis, was reported recently in Canada (6). DEA has reported that, as of July 2009, 69% of the cocaine seized at U.S. borders contained levamisole, although the reason why levamisole is added to cocaine remains unclear. Levamisole also has been detected in cocaine obtained by law enforcement officers in New Mexico and Washington. These pieces of evidence suggest that exposure to levamisole through cocaine use was the likely cause of agranulocytosis in all 21 cases; however, surveillance and toxicologic data regarding additional cases are needed to better define a causal relationship.

Heroin use was reported in two of the 21 cases. DEA reported detecting levamisole in a handful of heroin seizures in 2008 but more frequently (<3%) in 2009 (DEA, unpublished data, 2009). Only trace amounts of levamisole have been detected in heroin, compared with an average concentration of approximately 10% detected in cocaine (DEA, unpublished data, 2009).

For multiple reasons, the 21 cases described in this report might represent a small portion of all agranulocytosis cases associated with cocaine (and potentially levamisole) in the United States. For example, agranulocytosis is not a reportable condition to health departments, patients might not disclose cocaine use to health-care providers, and patients

who use cocaine might be less likely to seek health care (9). Agranulocytosis has been recognized as an idiosyncratic reaction to levamisole in 2.5%-13% of persons using levamisole for treatment of rheumatoid arthritis and in combined therapy for breast cancer (1). However, the proportion of cocaine users exposed to levamisole who might develop levamisole-induced agranulocytosis, is unknown.

Clinicians should be aware of the possible relationship between levamisole-associated agranulocytosis and use of cocaine, and possibly heroin, and should obtain a drug history in all potential cases routinely. Suspected cases should be reported to state or local health departments. Clinicians wishing to test patients for levamisole should have blood or urine collected promptly, because the likelihood of finding the drug decreases markedly after 48 hours.

CDC has begun national surveillance for agranulocytosis in association with suspected cocaine or heroin use, collecting information via medical abstraction form and patient interview. As of December 15, eight states had agreed to participate. The goals of surveillance are to characterize the extent of the problem, identify risk factors for exposure, and describe clinical presentation of patients with agranulocytosis associated with cocaine or heroin use. The Substance Abuse and Mental Health Services Administration is serving as a centralized source for disseminating relevant information regarding agranulocytosis associated with levamisole-contaminated cocaine. Additional information is available from Nicholas Reuter (nicholas.reuter@samhsa.hhs.gov). State and local health departments are encouraged to participate in the national surveillance effort and can report suspected cases to CDC at are8@cdc.gov.

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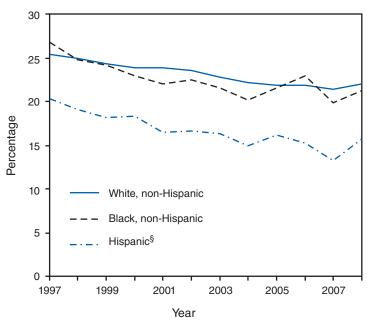
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## **QuickStats**

#### FROM THE NATIONAL CENTER FOR HEALTH STATISTICS

Percentage of Adults Aged ≥18 Years Who Are Current Smokers,\* by Race/Ethnicity — National Health Interview Survey, United States, 1997–2008<sup>†</sup>



- \* Defined as having smoked at least 100 cigarettes in their lifetime and currently smoking
- <sup>†</sup> Estimates based on household interviews of a sample of the civilian, noninstitutionalized U.S. population and derived from the National Health Interview Survey sample adult component.
- § Persons of Hispanic ethnicity might be of any race.

During 1997–2008, the percentage of non-Hispanic white adults who were current smokers decreased by 3.3 percentage points (from 25.3% to 22.0%), the percentage of non-Hispanic black adults who were current smokers decreased by 5.6 percentage points (from 26.8% to 21.2%), and the percentage of Hispanic adults who were current smokers decreased by 4.6 percentage points (from 20.4% to 15.8%). Each year, the percentage of Hispanics who were current smokers was considerably less than the percentage of non-Hispanic whites and non-Hispanic blacks who were current smokers.

SOURCE: National Health Interview Survey, 1997–2008 data. Available at http://www.cdc.gov/nchs/nhis.htm.

TABLE I. Provisional cases of infrequently reported notifiable diseases (<1,000 cases reported during the preceding year) — United States, week ending December 12, 2009 (49th week)\*

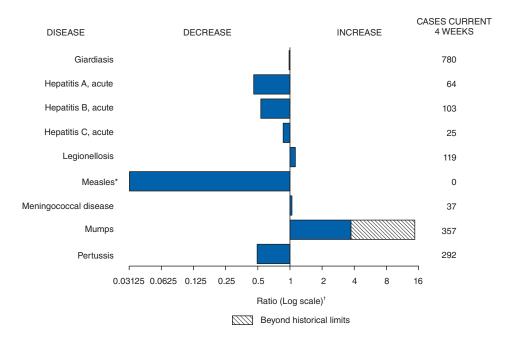
|  | Current | Cum      | 5-year<br>weekly     |            |      | ases re<br>evious |         |           | States reporting cases                          |
|--|---------|----------|----------------------|------------|------|-------------------|---------|-----------|---|
| Disease  | week    | 2009     | average <sup>†</sup> | 2008       | 2007 | 2006              | 2005    | 2004      | during current week (No.)                       |
| Anthrax  | _       | _        | _                    | _          | 1    | 1                 | _       | _         |   |
| Botulism:  |         |          |                      |            |      |                   |         |           |   |
| foodborne  | 1       | 12       | 1                    | 17         | 32   | 20                | 19      | 16        | CA (1)  |
| infant   | _       | 55       | 2                    | 109        | 85   | 97                | 85      | 87        |   |
| other (wound and unspecified)                          | _       | 21       | 1                    | 19         | 27   | 48                | 31      | 30        |   |
| Brucellosis  | 3       | 90       | 1                    | 80         | 131  | 121               | 120     | 114       | TX (2), CA (1)                                  |
| Chancroid  | 1       | 23       | 1                    | 25         | 23   | 33                | 17      | 30        | MA (1)  |
| Cholera  | _       | 8        | 0                    | 5          | 7    | 9                 | 8       | 6         |   |
| Cyclosporiasis§  | _       | 119      | 2                    | 139        | 93   | 137               | 543     | 160       |   |
| Diphtheria   | _       | _        | _                    | _          | _    | _                 | _       | _         |   |
| Domestic arboviral diseases <sup>§</sup> ,¶:           |         | 00       | 0                    | 00         |      | 07                | 00      | 440       |   |
| 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  | _       | 11       | _                    | 13         | 9    | 10                | 13      | 12        |   |
| western equine   | _       | _        | _                    | _          | _    | _                 | _       | _         |   |
| Ehrlichiosis/Anaplasmosis <sup>§</sup> ,**:            | _       | 764      | 0                    | 1 107      | 000  | E70               | EOG     | 220       | ME (1) NV (1) MD (2) TN (1)                     |
| Ehrlichia chaffeensis<br>Ehrlichia ewingii             | 5<br>—  | 764<br>6 | 8                    | 1,137<br>9 | 828  | 578               | 506     | 338       | ME (1), NY (1), MD (2), TN (1)                  |
| Anaplasma phagocytophilum                              | 6       | 647      | 13                   | 1,026      | 834  | 646               | 786     | 537       | ME (1) MN (4) TY (1)                            |
| undetermined   | 1       | 114      | 2                    | 1,026      | 337  | 231               | 112     | 537<br>59 | ME (1), MN (4), TX (1)<br>NY (1)                |
| Haemophilus influenzae,††                              | '       | 114      | 2                    | 100        | 337  | 201               | 112     | 39        | 141 (1)   |
| invasive disease (age <5 yrs):                         |         |          |                      |            |      |                   |         |           |   |
| serotype b   | _       | 25       | 1                    | 30         | 22   | 29                | 9       | 19        |   |
| nonserotype b  | 1       | 181      | 3                    | 244        | 199  | 175               | 135     | 135       | FL (1)  |
| unknown serotype                                       | 5       | 217      | 3                    | 163        | 180  | 179               | 217     | 177       | NYC (1), OH (1), NE (1), FL (1), CO (1)         |
| Hansen disease§  | _       | 57       | 1                    | 80         | 101  | 66                | 87      | 105       | 1410 (1), 011 (1), 142 (1), 12 (1), 00 (1)      |
| Hantavirus pulmonary syndrome§                         | _       | 10       | i                    | 18         | 32   | 40                | 26      | 24        |   |
| Hemolytic uremic syndrome, postdiarrheal§              | 1       | 201      | 4                    | 330        | 292  | 288               | 221     | 200       | ID (1)  |
| Hepatitis C viral, acute                               | 11      | 793      | 18                   | 878        | 845  | 766               | 652     | 720       | NY (1), MI (3), GA (1), FL (1), KY (2), OK (1), |
|  |         |          |                      |            |      |                   |         |           | TX (1), CA (1)                                  |
| HIV infection, pediatric (age <13 years)§§             | _       | _        | 3                    | _          | _    | _                 | 380     | 436       | (.),(.)   |
| Influenza-associated pediatric mortality\$,¶¶          | 9       | 343      | 0                    | 90         | 77   | 43                | 45      | _         | NC (1), FL (1), KY (1), CA (3), MA (1), OK (1), |
|  |         |          |                      |            |      |                   |         |           | TX (1)  |
| Listeriosis  | 11      | 710      | 15                   | 759        | 808  | 884               | 896     | 753       | NY (2), PA (1), OH (2), MD (1), WA (1), CA (4)  |
| Measles***   | _       | 62       | 1                    | 140        | 43   | 55                | 66      | 37        |   |
| Meningococcal disease, invasive†††:                    |         |          |                      |            |      |                   |         |           |   |
| A, C, Y, and W-135                                     | 4       | 243      | 5                    | 330        | 325  | 318               | 297     | _         | OH (1), NE (1), WA (2)                          |
| serogroup B  | 2       | 129      | 3                    | 188        | 167  | 193               | 156     | _         | TX (1), WA (1)                                  |
| other serogroup  | _       | 23       | 0                    | 38         | 35   | 32                | 27      | _         |   |
| unknown serogroup                                      | 3       | 429      | 11                   | 616        | 550  | 651               | 765     |           | OH (1), MO (1), CA (1)                          |
| Mumps  | 143     | 869      | 18                   | 454        |      | 6,584             | 314     | 258       | NY (99), NYC (38), NE (1), FL (4), TX (1)       |
| 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 <sup>§</sup> ,¶¶¶:                       | 2       | 77       | 1                    | 124        | 171  | 169               | 136     | 70        |   |
| acute  | _       | 64       | 0                    | 110        | _    | _                 | _       | _         | NV (1) TV (1)                                   |
| chronic  | 2       | 13<br>4  | 0                    | 14         | _    |                   |         |           | NY (1), TX (1)                                  |
| Rabies, human<br>Rubella****                           | _       | 4        | 0                    | 2          | 1    | 3<br>11           | 2<br>11 | 7<br>10   |   |
| Rubella<br>Rubella, congenital syndrome                | _       | 1        |                      | 16         | 12   | 1                 | 1       | 10<br>—   |   |
| SARS-CoV <sup>§</sup> ,††††                            | _       |          |                      | _          | _    | _'                | _'      | _         |   |
| Smallpox§  | _       | _        | _                    | _          |      | _                 | _       | _         |   |
| Streptococcal toxic-shock syndrome§                    | _       | 123      | 2                    | 157        | 132  | 125               | 129     | 132       |   |
| Syphilis, congenital (age <1 yr)                       | _       | 238      | 8                    | 434        | 430  | 349               | 329     | 353       |   |
| Tetanus  | _       | 11       | 1                    | 19         | 28   | 41                | 27      | 34        |   |
| Toxic-shock syndrome (staphylococcal)§                 |         | 75       | 2                    | 71         | 92   | 101               | 90      | 95        |   |
| Trichinellosis   | _       | 12       | 0                    | 39         | 5    | 15                | 16      | 5         |   |
| Tularemia  | _       | 74       | 2                    | 123        | 137  | 95                | 154     | 134       |   |
| Typhoid fever  | 1       | 315      | 4                    | 449        | 434  | 353               | 324     | 322       | WA (1)  |
| Vancomycin-intermediate <i>Staphylococcus aureus</i> § |         | 68       | 0                    | 63         | 37   | 6                 | 2       | _         | NY (1)  |
| Vancomycin-resistant Staphylococcus aureus§            |         | _        | 0                    | _          | 2    | 1                 | 3       | 1         | \./   |
| Vibriosis (noncholera Vibrio species infections)§      | 3       | 566      | 4                    | 492        | 549  | N                 | Ñ       | N         | VA (1), 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 December 12, 2009 (49th 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. ewingil*).
- †† 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 232 influenza-associated pediatric deaths associated with 2009 pandemic influenza A (H1N1) virus infection have been reported. Since August 30, 2009, a total of 212 influenza-associated pediatric deaths occurring during the 2009–10 influenza season have been reported. A total of 130 influenza-associated pediatric death 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.
- SSS 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).
- 1111 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.
- titt 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 12, 2009, with historical data



<sup>\*</sup> No measles cases were reported for the current 4-week period yielding a ratio for week 49 of zero (0).

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

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

TABLE II. Provisional cases of selected notifiable diseases, United States, weeks ending December 12, 2009, and December 6, 2008 (49th week)\*

|   |              |               | Chlamyd        | ia <sup>†</sup>        |                        |          | Coccid     | iodomy            | cosis              |                   |            | Cry        | otosporid         | iosis             |                      |
|---|--------------|---------------|----------------|------------------------|------------------------|----------|------------|-------------------|--------------------|-------------------|------------|------------|-------------------|-------------------|----------------------|
|   |              | Prev          |                |                        |                        |          | Previ      |                   |                    |                   |            |            | ious              |                   |                      |
| Departing area                                    | Current      | 52 W          |                | Cum                    | Cum                    | Current  | 52 W       |                   | Cum                | Cum               | Current    |            | week              | Cum               | Cum                  |
| Reporting area United States                      | 13,340       | Med<br>22,400 | Max<br>26,296  | <b>2009</b><br>1063832 | <b>2008</b><br>1121054 | 100      | Med<br>240 | <b>Max</b><br>471 | <b>2009</b> 11,431 | <b>2008</b> 6,432 | week<br>62 | Med<br>114 | <b>Max</b><br>369 | <b>2009</b> 6,419 | <b>2008</b><br>8,471 |
| New England                                       | 848          | 757           | 1,655          | 37,584                 | 35,193                 | _        | 0          | 1                 | 11,431             | 0,432             | —          | 6          | 45                | 407               | 381                  |
| Connecticut                                       | 253          | 225           | 1,306          | 10,830                 | 10,452                 | N        | 0          | 0                 | Ņ                  | Ň                 | _          | 0          | 38                | 38                | 41                   |
| Maine§<br>Massachusetts                           | 46<br>490    | 47<br>368     | 75<br>944      | 2,299<br>18,415        | 2,444<br>16,193        | N<br>N   | 0<br>0     | 0                 | N<br>N             | N<br>N            | _          | 0<br>2     | 4<br>16           | 43<br>164         | 45<br>165            |
| New Hampshire                                     | 3            | 34            | 61             | 1,511                  | 1,962                  | _        | 0          | 1                 | 1                  | 1                 | _          | 1          | 5                 | 68                | 58                   |
| Rhode Island <sup>§</sup><br>Vermont <sup>§</sup> | 44<br>12     | 65<br>22      | 244<br>63      | 3,437<br>1,092         | 3,046<br>1,096         | N        | 0<br>0     | 0                 | N                  | N                 | _          | 0<br>1     | 8<br>9            | 20<br>74          | 10<br>62             |
| Mid. Atlantic                                     | 2,437        | 3,015         | 6,734          | 147,364                | 139,291                |          | 0          | 0                 |                    |                   | 3          | 13         | 37                | 757               | 707                  |
| New Jersey<br>New York (Upstate)                  | 642          | 429<br>584    | 838<br>4,563   | 20,556<br>30,070       | 21,012<br>26,256       | N<br>N   | 0<br>0     | 0                 | N<br>N             | N<br>N            |            | 1<br>3     | 5<br>12           | 42<br>207         | 39<br>251            |
| New York City                                     | 1,254        | 1,149         | 1,966          | 56,708                 | 52,806                 | N        | 0          | 0                 | N                  | N                 | _          | 1          | 8                 | 72                | 104                  |
| Pennsylvania E.N. Central                         | 541<br>1,685 | 826<br>3,391  | 1,001<br>4,280 | 40,030<br>160,042      | 39,217<br>181,728      | N<br>—   | 0<br>1     | 0                 | N<br>36            | N<br>39           | 1<br>6     | 8<br>27    | 19<br>54          | 436<br>1,406      | 313<br>2,087         |
| Illinois  | 527          | 1,046         | 1,426          | 47,525                 | 55,579                 | N        | Ö          | 0                 | N                  | N                 | _          | 2          | 8                 | 138               | 201                  |
| Indiana<br>Michigan                               | 315<br>553   | 407<br>874    | 695<br>1,332   | 20,410<br>42.953       | 20,482<br>41.982       | N<br>—   | 0<br>0     | 0                 | N<br>20            | N<br>29           | _<br>1     | 4<br>5     | 17<br>11          | 185<br>260        | 181<br>266           |
| Ohio  | 52           | 742           | 1,177          | 32,240                 | 43,648                 |          | 0          | 2                 | 16                 | 10                | 3          | 7          | 16                | 366               | 669                  |
| Wisconsin<br>W.N. Central                         | 238<br>450   | 351           | 462<br>1,697   | 16,914<br>62.910       | 20,037<br>63.514       | N        | 0          | 0                 | N<br>10            | N<br>3            | 2<br>6     | 7<br>18    | 24<br>61          | 457<br>985        | 770<br>959           |
| lowa  | 450<br>96    | 1,338<br>175  | 256            | 8,855                  | 8,698                  | N        | 0          | Ö                 | N                  | N                 | _          | 3          | 14                | 194               | 278                  |
| Kansas<br>Minnesota                               | _            | 171<br>253    | 561<br>338     | 9,245<br>11,831        | 8,648<br>13,548        | <u>N</u> | 0<br>0     | 0                 | N                  | N                 |            | 1<br>4     | 6<br>34           | 61<br>334         | 83<br>221            |
| Missouri  | 291          | 510           | 638            | 24,368                 | 23,060                 | _        | Ö          | 1                 | 10                 | 3                 | 2          | 3          | 12                | 177               | 175                  |
| Nebraska <sup>§</sup><br>North Dakota             | 63           | 104<br>30     | 223<br>77      | 5,080<br>1,386         | 5,121<br>1,702         | N<br>N   | 0<br>0     | 0                 | N<br>N             | N<br>N            | _<br>1     | 2<br>0     | 9<br>10           | 111<br>13         | 111<br>6             |
| South Dakota                                      | _            | 55            | 80             | 2,145                  | 2,737                  | N        | Ö          | Ö                 | N                  | N                 | _          | 1          | 10                | 95                | 85                   |
| S. Atlantic<br>Delaware                           | 2,850<br>93  | 3,843<br>88   | 5,448<br>180   | 185,189<br>4,457       | 229,582<br>3,521       | _        | 0          | 1                 | 5<br>1             | 5<br>2            | 12         | 19<br>0    | 45<br>2           | 1,000<br>10       | 989<br>12            |
| District of Columbia                              | 65           | 126           | 226            | 6,210                  | 6,476                  | _        | Ö          | Ö                 |                    | _                 | _          | Ö          | 1                 | 2                 | 15                   |
| Florida<br>Georgia                                | 585<br>1     | 1,424<br>696  | 1,670<br>1,909 | 68,351<br>28,268       | 66,392<br>38,788       | N<br>N   | 0<br>0     | 0                 | N<br>N             | N<br>N            | 8<br>1     | 8<br>5     | 24<br>23          | 438<br>310        | 446<br>246           |
| Maryland <sup>§</sup>                             | 877          | 424           | 772            | 20,739                 | 22,354                 | _        | Ö          | 1                 | 4                  | 3                 | 1          | 1          | 5                 | 40                | 49                   |
| North Carolina<br>South Carolina <sup>§</sup>     | <u> </u>     | 0<br>537      | 998<br>1,421   | 23,838                 | 34,867<br>24,867       | N<br>N   | 0<br>0     | 0                 | N<br>N             | N<br>N            | _<br>1     | 0<br>1     | 9<br>7            | 58<br>54          | 68<br>53             |
| Virginia <sup>§</sup>                             | 672          | 602           | 926            | 29,892                 | 29,262                 | N        | 0          | 0                 | N                  | N                 | 1          | 1          | 7                 | 72                | 76                   |
| West Virginia E.S. Central                        | 39<br>1,194  | 70<br>1,751   | 136<br>2,209   | 3,434<br>84,724        | 3,055<br>80,717        | N        | 0          | 0                 | N                  | N                 | 1          | 0<br>3     | 2<br>10           | 16<br>208         | 24<br>166            |
| Alabama§  | 26           | 469           | 629            | 21,889                 | 23,221                 | N        | Ö          | Ö                 | N                  | N                 |            | 1          | 5                 | 56                | 71                   |
| Kentucky<br>Mississippi                           | 449<br>296   | 245<br>457    | 642<br>840     | 12,623<br>21,808       | 11,477<br>19,739       | N<br>N   | 0<br>0     | 0                 | N<br>N             | N<br>N            | _          | 1<br>0     | 4<br>3            | 62<br>15          | 33<br>17             |
| Tennessee§  | 423          | 577           | 809            | 28,404                 | 26,280                 | N        | Ö          | Ő                 | N                  | N                 | 1          | 1          | 5                 | 75                | 45                   |
| W.S. Central<br>Arkansas§                         | 811<br>1     | 2,988<br>269  | 5,809<br>417   | 145,214<br>12,743      | 141,261<br>13,456      | N        | 0          | 1                 | 1<br>N             | 3<br>N            | 11<br>3    | 9<br>1     | 271<br>5          | 491<br>54         | 2,217<br>90          |
| Louisiana   | 581          | 515           | 1,130          | 24,546                 | 20,972                 | _        | Ö          | 1                 | 1                  | 3                 | _          | Ö          | 6                 | 29                | 64                   |
| Oklahoma<br>Texas <sup>§</sup>                    | 229          | 172<br>2,011  | 2,717<br>2,521 | 12,674<br>95,251       | 12,403<br>94,430       | N<br>N   | 0<br>0     | 0                 | N<br>N             | N<br>N            | 2<br>6     | 2<br>5     | 11<br>258         | 123<br>285        | 130<br>1,933         |
| Mountain  | 801          | 1,424         | 2,088          | 70,639                 | 71,503                 | 54       | 187        | 368               | 9,148              | 4,250             | 5          | 8          | 26                | 489               | 564                  |
| Arizona<br>Colorado                               | 127          | 496<br>298    | 758<br>727     | 23,865<br>15,468       | 23,396<br>17,345       | 54<br>N  | 186<br>0   | 364<br>0          | 9,053<br>N         | 4,155<br>N        | _          | 1<br>2     | 3<br>10           | 33<br>132         | 87<br>109            |
| Idaho§  | 87           | 68            | 184            | 3,502                  | 3,848                  | N        | Ö          | 0                 | N                  | N                 | 4          | 1          | 7                 | 91                | 68                   |
| Montana <sup>§</sup><br>Nevada <sup>§</sup>       | 39<br>311    | 56<br>170     | 87<br>477      | 2,807<br>9,341         | 2,876<br>9,039         | N        | 0<br>1     | 0<br>4            | N<br>54            | N<br>50           | _          | 1<br>0     | 4<br>2            | 52<br>5           | 44<br>17             |
| New Mexico§                                       | 199          | 180           | 540            | 8,677                  | 7,901                  | _        | 0          | 2                 | 10                 | 32                | _          | 2          | 8                 | 122               | 171                  |
| Utah<br>Wyoming§                                  | 26<br>12     | 113<br>32     | 176<br>69      | 5,163<br>1,816         | 5,632<br>1,466         | _        | 1<br>0     | 2                 | 30<br>1            | 11<br>2           | _<br>1     | 0<br>0     | 3<br>2            | 31<br>23          | 45<br>23             |
| Pacific   | 2,264        | 3,453         | 4,682          | 170,166                | 178,265                | 46       | 40         | 172               | 2,230              | 2,131             | 18         | 13         | 25                | 676               | 401                  |
| Alaska<br>California                              | 1,808        | 92<br>2,704   | 199<br>3,592   | 3,500<br>133,415       | 4,401<br>137,847       | N<br>46  | 0<br>40    | 0<br>172          | N<br>2,230         | N<br>2,131        | <br>16     | 0<br>7     | 1<br>20           | 6<br>418          | 3<br>243             |
| Hawaii  | · —          | 118           | 147            | 5,376                  | 5,598                  | N        | 0          | 0                 | N                  | N                 | _          | 0          | 1                 | 1                 | 2                    |
| Oregon <sup>§</sup><br>Washington                 | 158<br>298   | 193<br>391    | 387<br>571     | 9,332<br>18,543        | 10,146<br>20,273       | N<br>N   | 0<br>0     | 0                 | N<br>N             | N<br>N            | 1<br>1     | 3<br>1     | 9<br>8            | 168<br>83         | 63<br>90             |
| American Samoa                                    |              | 0             | 0              | _                      | 73                     | N        | 0          | 0                 | N                  | N                 | N          | 0          | 0                 | N                 | N                    |
| C.N.M.I.<br>Guam                                  | _            | _<br>1        | _<br>1         | _                      | 123                    | _        |            |                   | _                  | _                 | _          |            |                   | _                 | _                    |
| Puerto Rico                                       | 260          | 133           | 331            | 6,826                  | 6,613                  | N        | 0          | 0                 | N                  | N                 | N          | 0          | 0                 | N                 | N                    |
| U.S. Virgin Islands                               |              |               |                |                        |                        |          |            |                   |                    |                   |            |            |                   |                   |                      |

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 12, 2009, and December 6, 2008 (49th week)\*

|   |              |          | Giardias       | is           |              |                 |            | Gonorrhe       | a               |                 | нає             |              | s <i>infl</i> uenz<br>s, all sero |             | ive         |
|---|--------------|----------|----------------|--------------|--------------|-----------------|------------|----------------|-----------------|-----------------|-----------------|--------------|-----------------------------------|-------------|-------------|
|   |              |          | rious<br>reeks |              |              |                 |            | vious<br>veeks |                 |                 |                 | Prev<br>52 w | ious                              |             |             |
| Reporting area                              | Current week | Med      | Max            | Cum<br>2009  | Cum<br>2008  | Current<br>week | Med        | Max            | Cum<br>2009     | Cum<br>2008     | Current<br>week | Med          | Max                               | Cum<br>2009 | Cum<br>2008 |
| United States                               | 186          | 326      | 498            | 16,686       | 17,494       | 3,214           | 5,388      | 6,512          | 253,065         | 313,369         | 37              | 59           | 124                               | 2,716       | 2,572       |
| New England                                 | 10           | 30       | 64             | 1,584        | 1,581        | 163             | 96         | 301            | 4,788           | 4,901           | _               | 3            | 16                                | 180         | 166         |
| Connecticut<br>Maine§                       | 10           | 6<br>3   | 15<br>13       | 269<br>204   | 315<br>181   | 107<br>2        | 47<br>2    | 275<br>9       | 2,321<br>131    | 2,380<br>91     | _               | 0            | 12<br>2                           | 49<br>18    | 40<br>18    |
| Massachusetts                               | _            | 12       | 36             | 672          | 645          | 46              | 36         | 112            | 1,872           | 1,999           | _               | 2            | 5                                 | 89          | 76          |
| New Hampshire<br>Rhode Island <sup>§</sup>  | _            | 3<br>1   | 11<br>6        | 173<br>59    | 156<br>87    | 1<br>5          | 2<br>6     | 6<br>19        | 106<br>311      | 98<br>300       | _               | 0            | 2<br>2                            | 11<br>8     | 9<br>15     |
| Vermont§                                    | _            | 4        | 14             | 207          | 197          | 2               | 1          | 5              | 47              | 33              | _               | Ō            | 1                                 | 5           | 8           |
| Mid. Atlantic<br>New Jersey                 | 35           | 61<br>5  | 104<br>17      | 3,008<br>215 | 3,273<br>488 | 522             | 587<br>92  | 1,138<br>124   | 29,752<br>4,290 | 30,795<br>4,957 | 9               | 12<br>2      | 25<br>7                           | 578<br>105  | 492<br>92   |
| New York (Upstate)                          | 31           | 24       | 81             | 1,272        | 1,159        | 101             | 108        | 664            | 5,550           | 5,722           | 5               | 3            | 20                                | 152         | 144         |
| New York City<br>Pennsylvania               | 1<br>3       | 16<br>15 | 25<br>34       | 752<br>769   | 794<br>832   | 224<br>197      | 211<br>190 | 366<br>263     | 10,571<br>9,341 | 9,824<br>10,292 | 1<br>3          | 2<br>4       | 11<br>10                          | 114<br>207  | 84<br>172   |
| E.N. Central                                | 14           | 44       | 72             | 2,227        | 2,599        | 496             | 1,078      | 1,436          | 50,082          | 64,749          | 4               | 12           | 28                                | 547         | 426         |
| Illinois                                    | _            | 9        | 18             | 430          | 671          | 170             | 343        | 524            | 15,154          | 19,350          | _               | 3            | 9                                 | 139         | 143         |
| Indiana<br>Michigan                         | N<br>4       | 0<br>12  | 11<br>24       | N<br>606     | N<br>585     | 88<br>147       | 139<br>281 | 223<br>501     | 6,436<br>13,904 | 8,145<br>15,879 | _               | 1<br>0       | 22<br>3                           | 70<br>24    | 66<br>27    |
| Ohio  | 7            | 16       | 28             | 771          | 848          | 23              | 251        | 431            | 10,302          | 15,540          | 4               | 2            | 6                                 | 95          | 126         |
| Wisconsin                                   | 3            | 9        | 19             | 420          | 495          | 68              | 85         | 143            | 4,286           | 5,835           | _               | 3            | 20                                | 219         | 64          |
| W.N. Central<br>lowa                        | 7<br>1       | 24<br>6  | 141<br>15      | 1,659<br>283 | 1,918<br>307 | 105<br>13       | 275<br>31  | 365<br>47      | 13,426<br>1,496 | 15,857<br>1,565 | 1               | 3<br>0       | 15<br>0                           | 154         | 188<br>2    |
| Kansas                                      | _            | 2        | 11             | 96           | 154          | 2               | 43         | 83             | 2,191           | 2,144           | _               | 0            | 2                                 | 13          | 20          |
| Minnesota<br>Missouri                       | 4            | 0<br>9   | 124<br>27      | 539<br>484   | 665<br>444   | —<br>80         | 41<br>126  | 65<br>173      | 1,961<br>6,127  | 2,873<br>7,475  | _               | 0<br>1       | 10<br>4                           | 54<br>56    | 57<br>68    |
| Nebraska <sup>§</sup>                       | 2            | 3        | 9              | 165          | 198          | 10              | 24         | 55             | 1,306           | 1,336           | 1               | 0            | 4                                 | 25          | 29          |
| North Dakota<br>South Dakota                | _            | 0<br>1   | 16<br>5        | 27<br>65     | 19<br>131    | _               | 1<br>5     | 14<br>20       | 87<br>258       | 131<br>333      | _               | 0<br>0       | 4<br>0                            | 6           | 12          |
| S. Atlantic                                 | 41           | 69       | 109            | 3,448        | 2,859        | 874             | 1,128      | 1,919          | 53,479          | 80,237          | 15              | 13           | 31                                | 668         | 649         |
| Delaware<br>District of Columbia            | _            | 0        | 3<br>5         | 25<br>22     | 41<br>64     | 17<br>29        | 18<br>50   | 37<br>88       | 908             | 972<br>2.450    | _               | 0            | 1<br>1                            | 4<br>2      | 7<br>8      |
| Florida                                     | 34           | 38       | 59             | 1,834        | 1,257        | 206             | 409        | 476            | 19,587          | 21,897          | 7               | 4            | 10                                | 215         | 177         |
| Georgia<br>Maryland§                        |              | 10<br>5  | 67<br>13       | 750<br>261   | 650<br>267   | 203             | 227<br>114 | 876<br>197     | 9,571<br>5,632  | 14,648<br>6,070 | <u> </u>        | 3<br>1       | 9<br>6                            | 142<br>88   | 129<br>90   |
| North Carolina                              | N            | 0        | 0              | N            | N            | _               | 0          | 428            | ´ —             | 14,879          | _               | Ö            | 17                                | 65          | 73          |
| South Carolina§<br>Virginia§                | 1<br>3       | 2<br>8   | 8<br>31        | 99<br>405    | 128<br>382   | 145<br>268      | 162<br>147 | 412<br>308     | 7,504<br>7,378  | 8,930<br>9,690  | 1               | 1            | 5<br>6                            | 67<br>56    | 56<br>83    |
| West Virginia                               | _            | 1        | 5              | 52           | 70           | 6               | 9          | 20             | 451             | 701             | 1               | ó            | 3                                 | 29          | 26          |
| E.S. Central                                | 3            | 7        | 22             | 364          | 474          | 349             | 506        | 687            | 24,327          | 28,778          | 2               | 3            | 9                                 | 146         | 138         |
| Alabama <sup>§</sup><br>Kentucky            | N            | 3<br>0   | 11<br>0        | 167<br>N     | 269<br>N     | 15<br>140       | 137<br>67  | 183<br>156     | 6,341<br>3,657  | 9,166<br>4,338  | _               | 0            | 4<br>5                            | 34<br>19    | 24<br>8     |
| Mississippi                                 | N            | 0        | 0              | N            | N            | 79              | 142        | 252            | 6,756           | 6,941           | _               | 0            | 1                                 | 5           | 13          |
| Tennessee§                                  | 3<br>7       | 4<br>7   | 18             | 197          | 205          | 115             | 156        | 230            | 7,573           | 8,333           | 2               | 2            | 6                                 | 88          | 93          |
| W.S. Central<br>Arkansas <sup>§</sup>       | 4            | 2        | 22<br>9        | 398<br>143   | 427<br>135   | 251<br>—        | 881<br>82  | 1,556<br>134   | 42,467<br>3,935 | 47,879<br>4,327 | 3<br>1          | 2            | 22<br>3                           | 109<br>19   | 105<br>14   |
| Louisiana<br>Oklahoma                       |              | 2        | 8<br>18        | 96<br>159    | 139<br>153   | 181<br>70       | 167<br>62  | 418<br>612     | 7,967<br>4,241  | 8,844<br>4,520  | _<br>1          | 0<br>1       | 1<br>20                           | 12<br>73    | 10<br>71    |
| Texas§                                      | N            | 0        | 0              | N            | N            | _               | 558        | 695            | 26,324          | 30,188          | i               | Ó            | 1                                 | 5           | 10          |
| Mountain                                    | 11           | 27       | 59             | 1,444        | 1,550        | 130             | 175        | 233            | 8,259           | 10,946          | 3               | 4            | 11                                | 219         | 275         |
| Arizona<br>Colorado                         | <br>8        | 3<br>8   | 7<br>26        | 185<br>458   | 132<br>540   | 31              | 58<br>43   | 110<br>106     | 2,920<br>2,134  | 3,257<br>3,521  | 1<br>2          | 2<br>1       | 7<br>6                            | 73<br>65    | 101<br>53   |
| Idaho§                                      | 2            | 3        | 10             | 197          | 192          | 4               | 2          | 8              | 95              | 174             | _               | 0            | 1                                 | 4           | 12          |
| Montana <sup>§</sup><br>Nevada <sup>§</sup> | _<br>1       | 2<br>1   | 11<br>10       | 123<br>69    | 86<br>115    | —<br>75         | 1<br>28    | 5<br>93        | 73<br>1,642     | 115<br>2,034    | _               | 0<br>0       | 1<br>2                            | 2<br>15     | 4<br>16     |
| New Mexico§                                 |              | 2        | 8              | 104          | 102          | 17              | 23         | 52             | 1,064           | 1,270           | _               | 0            | 3                                 | 27          | 47          |
| Utah<br>Wyoming <sup>§</sup>                | _            | 5<br>1   | 12<br>4        | 251<br>57    | 337<br>46    | 2<br>1          | 5<br>1     | 12<br>7        | 262<br>69       | 456<br>119      | _               | 1<br>0       | 2<br>1                            | 30<br>3     | 38<br>4     |
| Pacific                                     | 58           | 51       | 130            | 2,554        | 2,813        | 324             | 543        | 764            | 26,485          | 29,227          | _               | 2            | 8                                 | 115         | 133         |
| Alaska                                      | _            | 2        | 7              | 102          | 100          | _               | 15         | 24             | 610             | 517             | _               | 0            | 3                                 | 20          | 19          |
| California<br>Hawaii                        | 40<br>—      | 34<br>0  | 60<br>2        | 1,682<br>17  | 1,861<br>41  | 263             | 451<br>12  | 657<br>24      | 22,385<br>576   | 24,001<br>574   | _               | 0<br>0       | 4<br>3                            | 25<br>24    | 42<br>18    |
| Oregon§                                     | 4            | 7        | 18             | 379          | 439          | 26              | 20         | 44             | 945             | 1,161           | _               | 1            | 3                                 | 43          | 52          |
| Washington                                  | 14           | 7        | 74             | 374          | 372          | 35              | 39         | 71             | 1,969           | 2,974           | _               | 0            | 2                                 | 3           | 2           |
| American Samoa<br>C.N.M.I.                  | _            |          |                | _            | _            | _               | _0         |                | _               | 3               | _               | _            | 0                                 | _           | _           |
| Guam<br>Puerto Rico                         | _            | 0<br>2   | 0              | 102          | 206          | <br>8           | 0          | 0<br>24        | <br>219         | 73<br>264       | _               | 0            | 0                                 | _<br>3      | _<br>1      |
| r uello mico                                | _            | 2        | 10             | 102          | 200          | Ö               | 3          | 24             | 219             | ∠04             | _               | 0            | 1                                 | 3           | I           |

C.N.M.I.: Commonwealth of Northern Mariana Islands.
U: Unavailable. —: No reported cases. N: Not reportable. Cum: Cumulative year-to-date counts. Med: Me
\* 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). Cum: Cumulative year-to-date counts. Med: Median. Max: Maximum.

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending December 12, 2009, and December 6, 2008 (49th week)\*

|  |                 |              |          | Hepat       | itis (viral, | acute), by   | type†   |                |             |             |              |         |                |             |             |
|--|-----------------|--------------|----------|-------------|--------------|--------------|---------|----------------|-------------|-------------|--------------|---------|----------------|-------------|-------------|
|  |                 |              | Α        |             |              |              |         | В              |             |             |              | Le      | gionellosi     | s           |             |
|  |                 | Prev<br>52 w |          | _           |              |              |         | /ious<br>/eeks |             |             |              |         | /ious<br>/eeks |             |             |
| Reporting area                                 | Current<br>week | Med          | Max      | Cum<br>2009 | Cum<br>2008  | Current week | Med     | Max            | Cum<br>2009 | Cum<br>2008 | Current week | Med     | Max            | Cum<br>2009 | Cum<br>2008 |
| United States                                  | 21              | 37           | 89       | 1,759       | 2,390        | 33           | 61      | 197            | 2,862       | 3,568       | 31           | 53      | 158            | 2,985       | 2,921       |
| New England                                    | _               | 2            | 5<br>2   | 92          | 126<br>26    | _            | 1<br>0  | 4<br>3         | 44<br>14    | 72<br>25    | _            | 3       | 17             | 168         | 212         |
| Connecticut<br>Maine <sup>§</sup>              | _               | 0            | 1        | 18<br>1     | 18           | _            | Ö       | 2              | 15          | 11          | _            | 1<br>0  | 5<br>3         | 51<br>8     | 41<br>11    |
| Massachusetts<br>New Hampshire                 | _               | 1<br>0       | 4<br>1   | 56<br>7     | 57<br>11     | _            | 0       | 2<br>1         | 12<br>3     | 21<br>8     | _            | 1<br>0  | 9<br>2         | 73<br>10    | 83<br>29    |
| Rhode Island§                                  | _               | 0            | 1        | 8           | 12           | _            | 0       | 0              | _           | 4           | _            | 0       | 4              | 19          | 43          |
| Vermont <sup>§</sup> Mid. Atlantic             | _               | 0<br>5       | 1<br>10  | 2<br>243    | 2<br>306     | _<br>2       | 0<br>5  | 0<br>17        | <br>281     | 3<br>414    | —<br>6       | 0<br>15 | 1<br>69        | 7<br>1,066  | 5<br>975    |
| New Jersey                                     | _               | 1            | 5        | 55          | 75           | _            | 1       | 6              | 66          | 115         | _            | 2       | 13             | 155         | 141         |
| New York (Upstate)<br>New York City            | _               | 1<br>2       | 3<br>5   | 45<br>81    | 61<br>104    | 1            | 1       | 11<br>4        | 48<br>65    | 60<br>96    | 3            | 5<br>3  | 29<br>20       | 336<br>204  | 326<br>126  |
| Pennsylvania                                   | _               | 1            | 6        | 62          | 66           | 1            | 2       | 7              | 102         | 143         | 3            | 6       | 25             | 371         | 382         |
| E.N. Central<br>Illinois                       | 1               | 4<br>2       | 18<br>12 | 239<br>105  | 323<br>107   | 1            | 7<br>1  | 21<br>7        | 348<br>77   | 492<br>179  | 4            | 9<br>1  | 34<br>10       | 573<br>103  | 632<br>117  |
| Indiana  | _               | 0            | 4        | 15          | 19           | _            | 1       | 18             | 56          | 47          | _            | 1       | 4              | 44          | 54          |
| Michigan<br>Ohio                               | _<br>1          | 1<br>0       | 4<br>3   | 67<br>36    | 116<br>48    | 1            | 2<br>1  | 8<br>13        | 108<br>80   | 138<br>111  | 4            | 2<br>4  | 11<br>17       | 140<br>276  | 168<br>256  |
| Wisconsin                                      | _               | 0            | 4        | 16          | 33           | _            | 0       | 4              | 27          | 17          | _            | 0       | 2              | 10          | 37          |
| W.N. Central<br>lowa                           | 2               | 2            | 16<br>3  | 109<br>32   | 234<br>106   | 3            | 3<br>0  | 16<br>3        | 163<br>29   | 81<br>22    | 1            | 2       | 6<br>2         | 103<br>21   | 136<br>20   |
| Kansas   | _               | 0            | 1        | 7           | 15           | _            | 0       | 2              | 5           | 8           | _            | 0       | 1              | 3           | 2           |
| Minnesota<br>Missouri                          | 2               | 0<br>0       | 12<br>3  | 21<br>25    | 36<br>32     | 1<br>1       | 0<br>1  | 11<br>5        | 26<br>79    | 10<br>31    | _            | 0<br>1  | 4<br>5         | 12<br>52    | 23<br>68    |
| Nebraska <sup>§</sup><br>North Dakota          | _               | 0            | 3<br>2   | 20<br>1     | 41           | 1            | 0       | 2<br>1         | 22          | 9           | _<br>1       | 0       | 2<br>3         | 12<br>2     | 20          |
| South Dakota                                   | _               | 0            | 1        | 3           | 4            | _            | 0       | 1              | 2           |             |              | 0       | 1              | 1           | 3           |
| S. Atlantic                                    | 5               | 8            | 14       | 395         | 374          | 7            | 17<br>0 | 32             | 825         | 896         | 10           | 10      | 21             | 517         | 468         |
| Delaware<br>District of Columbia               | U               | 0            | 1<br>0   | 4<br>U      | 7<br>U       | U<br>U       | 0       | 1<br>0         | U<br>U      | U           | _            | 0<br>0  | 5<br>2         | 18<br>9     | 13<br>16    |
| Florida<br>Georgia                             | 3<br>1          | 4            | 9<br>3   | 170<br>52   | 138<br>54    | 5<br>1       | 6<br>3  | 11<br>9        | 280<br>130  | 312<br>172  | 6            | 3<br>1  | 10<br>5        | 187<br>49   | 136<br>39   |
| Maryland <sup>§</sup>                          | -               | 1            | 4        | 40          | 43           | _            | 1       | 5              | 67          | 80          | 3            | 2       | 12             | 135         | 129         |
| North Carolina<br>South Carolina§              | _               | 0<br>1       | 3<br>4   | 27<br>57    | 61<br>18     | _            | 0<br>1  | 19<br>4        | 148<br>50   | 76<br>64    | _            | 0<br>0  | 6<br>2         | 39<br>12    | 36<br>11    |
| Virginia <sup>§</sup><br>West Virginia         | 1               | 1<br>0       | 3<br>2   | 40<br>5     | 48<br>5      | _<br>1       | 1<br>0  | 10<br>19       | 88<br>62    | 109<br>83   | 1            | 1<br>0  | 5<br>2         | 59<br>9     | 59<br>29    |
| E.S. Central                                   | _               | 1            | 4        | 40          | 77           | 6            | 7       | 11             | 311         | 378         | 1            | 2       | 12             | 130         | 110         |
| Alabama <sup>§</sup><br>Kentucky               | _               | 0            | 2<br>1   | 10<br>10    | 12<br>30     |              | 1<br>2  | 7<br>6         | 77<br>83    | 100<br>94   | _            | 0<br>1  | 2              | 15<br>49    | 16<br>53    |
| Mississippi                                    | _               | 0            | 2        | 11          | 5            | _            | 1       | 2              | 30          | 47          | _            | 0       | 2              | 4           | 1           |
| Tennessee§                                     | _               | 0            | 2        | 9           | 30           | 4            | 2       | 6              | 121         | 137         | 1            | 1       | 9              | 62          | 40          |
| W.S. Central<br>Arkansas§                      | <u>1</u>        | 3<br>0       | 43<br>1  | 166<br>8    | 232<br>10    | 7            | 9<br>1  | 99<br>5        | 461<br>48   | 691<br>59   |              | 2<br>0  | 21<br>1        | 111<br>8    | 91<br>14    |
| Louisiana<br>Oklahoma                          | _               | 0            | 1<br>6   | 3<br>6      | 11<br>7      | _<br>1       | 0<br>2  | 4<br>17        | 33<br>99    | 87<br>107   | _            | 0       | 2<br>2         | 4<br>6      | 9<br>10     |
| Texas§   | 1               | 3            | 37       | 149         | 204          | 6            | 6       | 76             | 281         | 438         | 2            | 1       | 19             | 93          | 58          |
| Mountain<br>Arizona                            | 4<br>2          | 3<br>2       | 8<br>6   | 154<br>72   | 205<br>106   | 1            | 2<br>1  | 6<br>3         | 113<br>40   | 195<br>76   | 2            | 2<br>1  | 7<br>4         | 128<br>49   | 92<br>22    |
| Colorado                                       | 2               | 1            | 5        | 48          | 36           | _            | 0       | 2              | 20          | 33          | 1            | 0       | 2              | 19          | 14          |
| Idaho <sup>§</sup><br>Montana <sup>§</sup>     | _               | 0<br>0       | 1<br>1   | 4<br>6      | 17<br>1      | _            | 0       | 2<br>0         | 11<br>—     | 9<br>2      | _            | 0<br>0  | 2<br>2         | 7<br>7      | 3<br>4      |
| Nevada <sup>§</sup><br>New Mexico <sup>§</sup> | _               | 0            | 2<br>1   | 8<br>7      | 12<br>17     | 1            | 0       | 3<br>2         | 27<br>6     | 43<br>12    | 1            | 0       | 1<br>2         | 11<br>8     | 11<br>11    |
| Utah   | _               | 0            | 2        | 7           | 13           | _            | 0       | 1              | 5           | 14          | _            | 0       | 4              | 23          | 27          |
| Wyoming§                                       | _               | 0            | 1        | 2           | 3            | _            | 0       | 2              | 4           | 6           | _            | 0       | 2              | 4           | _           |
| Pacific<br>Alaska                              | 8               | 6<br>0       | 17<br>1  | 321         | 513<br>5     | 6            | 6<br>0  | 36<br>1        | 316<br>3    | 349<br>10   | 5<br>—       | 3       | 12<br>1        | 189         | 205         |
| California<br>Hawaii                           | 8               | 5<br>0       | 16<br>2  | 256<br>6    | 419<br>18    | 5<br>—       | 4<br>0  | 28<br>1        | 229<br>5    | 248<br>7    | 4            | 3<br>0  | 10<br>1        | 148<br>1    | 161<br>8    |
| Oregon§  | _               | 0            | 2        | 17          | 25           | _            | 1       | 4              | 40          | 40          | _            | 0       | 2              | 15          | 17          |
| Washington<br>American Samoa                   | _               | 1<br>0       | 4<br>0   | 39          | 46           | 1            | 0       | 8<br>0         | 39          | 44          | 1<br>N       | 0       | 4<br>0         | 24<br>N     | 16<br>N     |
| C.N.M.I.                                       | _               | _            | _        | _           | =            | _            | _       | _              | _           | _           | _            | _       | _              | _           | _           |
| Guam<br>Puerto Rico                            | _               | 0<br>0       | 0<br>2   | 18          | 23           | _            | 0<br>0  | 0<br>5         | <br>22      | —<br>46     | _            | 0<br>0  | 0<br>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 12, 2009, and December 6, 2008 (49th week)\*

|  |                 |          | yme disea      | se             |                |              |              | Malaria      |             |             | ivie         | /      | cal diseas<br>All groups |             | .e.         |
|--|-----------------|----------|----------------|----------------|----------------|--------------|--------------|--------------|-------------|-------------|--------------|--------|--------------------------|-------------|-------------|
|  |                 |          | vious<br>veeks |                |                |              | Prev<br>52 w | ious<br>eeks |             | _           |              |        | rious<br>reeks           |             |             |
| Reporting area                                 | Current<br>week | Med      | Max            | Cum<br>2009    | Cum<br>2008    | Current week | Med          | Max          | Cum<br>2009 | Cum<br>2008 | Current week | Med    | Max                      | Cum<br>2009 | Cum<br>2008 |
| United States                                  | 191             | 366      | 1,911          | 28,362         | 32,013         | 21           | 22           | 46           | 1,106       | 1,144       | 9            | 17     | 48                       | 824         | 1,078       |
| lew England                                    | 20              | 58       | 456            | 5,684          | 11,275         | 1            | 1            | 5            | 49          | 53          | _            | 1      | 4                        | 33          | 33          |
| Connecticut<br>Maine§                          | <br>19          | 0<br>10  | 24<br>76       | 871            | 3,826<br>836   | 1            | 0            | 4<br>1       | 6<br>2      | 10<br>1     | _            | 0      | 2<br>1                   | 5<br>4      | 1<br>6      |
| Massachusetts                                  | _               | 19       | 306            | 3,229          | 4,524          | _            | Ö            | 3            | 30          | 32          | _            | 0      | 3                        | 16          | 21          |
| New Hampshire                                  | _               | 10       | 87             | 995            | 1,574          | _            | 0            | 1            | 3           | 4           | _            | 0      | 1                        | 3           | 4           |
| Rhode Island§<br>Vermont§                      | 1               | 1<br>4   | 78<br>40       | 212<br>377     | 124<br>391     | _            | 0            | 1<br>1       | 5<br>3      | 2<br>4      | _            | 0<br>0 | 1<br>1                   | 4<br>1      | 1           |
| lid. Atlantic                                  | 123             | 173      | 1,401          | 16,138         | 12,989         | 3            | 6            | 13           | 285         | 310         | _            | 2      | 6                        | 93          | 119         |
| New Jersey<br>New York (Upstate)               | <br>37          | 37<br>53 | 376<br>1,368   | 4,050<br>4,006 | 3,395<br>5,100 | <br>3        | 0<br>1       | 1<br>10      | 1<br>49     | 64<br>30    | _            | 0      | 2<br>2                   | 8<br>25     | 16<br>30    |
| New York (Opsiale)                             | -<br>-          | 3        | 24             | 236            | 5,100<br>775   | _            | 3            | 11           | 184         | 176         | _            | 0      | 2                        | ∠5<br>16    | 25          |
| Pennsylvania                                   | 86              | 72       | 631            | 7,846          | 3,719          | _            | 1            | 4            | 51          | 40          | _            | 1      | 4                        | 44          | 48          |
| .N. Central                                    | 3               | 18       | 214            | 2,298          | 2,285          | _            | 3            | 10           | 137         | 145         | 2            | 3      | 9                        | 143         | 197         |
| Illinois<br>Indiana                            | _               | 1        | 11<br>6        | 122<br>61      | 107<br>40      | _            | 1<br>0       | 4<br>3       | 54<br>15    | 74<br>5     | _            | 1<br>0 | 4<br>3                   | 40<br>32    | 80<br>25    |
| Michigan                                       | _               | 1        | 10             | 114            | 88             | _            | 0            | 3            | 26          | 17          | _            | 0      | 5                        | 19          | 32          |
| Ohio<br>Wisconsin                              | 1<br>2          | 0<br>15  | 5<br>196       | 54<br>1,947    | 45<br>2,005    | _            | 1<br>0       | 6<br>1       | 35<br>7     | 29<br>20    | 2            | 1<br>0 | 3<br>2                   | 42<br>10    | 39<br>21    |
| V.N. Central                                   | 7               | 5        | 336            | 267            | 1,013          | 8            | 1            | 8            | 67          | 68          | 2            | 1      | 9                        | 72          | 92          |
| Iowa   | <u>'</u>        | 1        | 14             | 93             | 107            | _            | Ö            | 1            | 10          | 12          | _            | Ó      | 2                        | 11          | 18          |
| Kansas<br>Minnesota                            | <del>_</del> 7  | 0        | 2<br>326       | 14<br>140      | 16<br>869      | <br>8        | 0            | 1<br>8       | 4<br>32     | 9<br>25     | _            | 0      | 2<br>4                   | 8<br>13     | 6<br>24     |
| Missouri                                       |                 | 0        | 0              | 140<br>—       | 6              | _            | 0            | 2            | 32<br>11    | 14          | 1            | 0      | 3                        | 27          | 26          |
| Nebraska <sup>§</sup>                          | _               | 0        | 3              | 19             | 12             | _            | 0            | 1            | 8           | 8           | 1            | 0      | 1                        | 10          | 12          |
| North Dakota<br>South Dakota                   | _               | 0        | 10<br>1        | 1              | 3              | _            | 0            | 1<br>1       | 1<br>1      | _           | _            | 0<br>0 | 3<br>1                   | 1<br>2      | 3           |
| . Atlantic                                     | 31              | 60       | 235            | 3,650          | 4,114          | 6            | 6            | 17           | 326         | 279         | _            | 2      | 9                        | 141         | 151         |
| Delaware                                       | 2               | 12       | 64             | 933            | 749            | _            | 0            | 1            | 5           | 3           | _            | 0      | 1                        | 4           | 2           |
| District of Columbia Florida                   |                 | 0<br>2   | 5<br>12        | 20<br>116      | 71<br>80       | 3            | 0<br>1       | 2<br>7       | 8<br>87     | 4<br>58     | _            | 0<br>1 | 0<br>4                   | <br>50      | —<br>49     |
| Georgia  | _               | 1        | 6              | 52             | 35             | _            | i            | 5            | 66          | 56          | _            | Ö      | 2                        | 29          | 18          |
| Maryland <sup>§</sup>                          | 5               | 25<br>0  | 125            | 1,721          | 2,141<br>44    | 2            | 1<br>0       | 13<br>5      | 77          | 77          | _            | 0      | 1                        | 10          | 19          |
| North Carolina<br>South Carolina§              | 3               | 0        | 14<br>3        | 62<br>33       | 28             | _            | 0            | 1            | 21<br>4     | 27<br>9     | _            | 0      | 5<br>1                   | 19<br>11    | 13<br>22    |
| Virginia§                                      | 17              | 10       | 61             | 546            | 834            | 1            | 1            | 5            | 56          | 43          | _            | 0      | 2                        | 12          | 23          |
| West Virginia                                  | 2               | 0        | 33             | 167            | 132            | _            | 0            | 1            | 2           | 2           | _            | 0      | 2                        | 6           | 5           |
| E.S. Central<br>Alabama§                       | _               | 0        | 2<br>1         | 34<br>3        | 46<br>9        | _            | 0            | 3<br>3       | 27<br>8     | 22<br>5     | _            | 0      | 4<br>2                   | 33<br>10    | 53<br>10    |
| Kentucky                                       | _               | 0        | 1              | 1              | 5              | _            | 0            | 2            | 9           | 5           | _            | 0      | 1                        | 6           | 9           |
| Mississippi<br>Tennessee <sup>§</sup>          | _               | 0        | 0<br>2         | 30             | 1<br>31        | _            | 0            | 1<br>3       | 1<br>9      | 1<br>11     | _            | 0<br>0 | 1<br>2                   | 3<br>14     | 12<br>22    |
| V.S. Central                                   | 2               | 1        | 21             | 45             | 117            | _            | 1            | 10           | 41          | 79          | 1            | 1      | 12                       | 79          | 114         |
| Arkansas§                                      | _               | Ö        | 0              | <del>-</del>   | _              | _            | Ö            | 1            | 4           | 1           |              | Ö      | 2                        | 9           | 15          |
| Louisiana<br>Oklahoma                          | _               | 0        | 0<br>2         | _              | 3              | _            | 0<br>0       | 1<br>1       | 3<br>1      | 3<br>4      | _            | 0      | 3<br>2                   | 11<br>14    | 23<br>17    |
| Texas§   | 2               | 1        | 21             | 45             | 114            | _            | 0            | 9            | 33          | 71          | 1            | 1      | 9                        | 45          | 59          |
| lountain                                       | _               | 1        | 13             | 46             | 51             | 1            | 0            | 6            | 29          | 33          | _            | 1      | 4                        | 56          | 57          |
| Arizona  | _               | 0        | 2              | 6<br>4         | 8              | _            | 0            | 2<br>3       | 9<br>8      | 14<br>5     | _            | 0      | 2<br>2                   | 13          | 9<br>14     |
| Colorado<br>Idaho§                             | _               | 0        | 1<br>3         | 15             | 9              | 1            | 0            | 3<br>1       | 3           | 3           | _            | 0      | 1                        | 20<br>7     | 5           |
| Montana <sup>§</sup>                           | _               | 0        | 13             | 3              | 4              | _            | 0            | 3            | 5           | _           | _            | 0      | 2                        | 4           | 4           |
| Nevada <sup>§</sup><br>New Mexico <sup>§</sup> | _               | 0        | 1              | 4<br>5         | 12<br>8        | _            | 0            | 1<br>0       | _           | 4<br>3      | _            | 0      | 1<br>1                   | 2           | 7<br>8      |
| Utah   | _               | 0        | i              | 7              | 4              | _            | 0            | 2            | 4           | 4           | _            | 0      | 1                        | 2           | 8           |
| Wyoming§                                       | _               | 0        | 1              | 2              | 3              | _            | 0            | 0            | _           | _           | _            | 0      | 2                        | 5           | 2           |
| <b>acific</b><br>Alaska                        | 5               | 4<br>0   | 13<br>1        | 200<br>3       | 123<br>6       | 2            | 3<br>0       | 9<br>1       | 145<br>2    | 155<br>6    | 4            | 3<br>0 | 14<br>2                  | 174<br>6    | 262<br>8    |
| California                                     | 5               | 2        | 10             | 148            | 69             | 2            | 2            | 6            | 110         | 115         | 1            | 2      | 8                        | 108         | 188         |
| Hawaii<br>Oragan <sup>§</sup>                  | N               | 0        | 0              | N              | N              | _            | 0            | 1            | 1           | 3           | _            | 0      | 1                        | 4           | 5           |
| Oregon <sup>§</sup><br>Washington              | _               | 0        | 4<br>12        | 34<br>15       | 37<br>11       | _            | 0            | 2<br>3       | 11<br>21    | 4<br>27     | 3            | 0      | 6<br>6                   | 40<br>16    | 37<br>24    |
| merican Samoa                                  | N               | 0        | 0              | N              | N              | _            | 0            | 0            | _           | _           | _            | 0      | 0                        | _           |             |
| S.N.M.I.                                       | _               | _        | _              | _              | _              | _            | _            | _            | _           | _           | _            | _      | _                        | _           | _           |
| Guam<br>Puerto Rico                            | <br>N           | 0        | 0              | N              | N              | _            | 0            | 0<br>1       | 3           | 3<br>2      | _            | 0      | 0<br>0                   | _           | 3           |
| J.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 12, 2009, and December 6, 2008 (49th week)\*

|   |              |         | Pertussis      | <u> </u>     |             |              | Ra      | bies, anir   | nal         |             | R            | ocky Mou | ıntain spo     | tted feve   | r           |
|---|--------------|---------|----------------|--------------|-------------|--------------|---------|--------------|-------------|-------------|--------------|----------|----------------|-------------|-------------|
|   |              |         | vious<br>veeks |              |             |              |         | ious<br>eeks |             |             |              |          | rious<br>reeks |             |             |
| Reporting area                              | Current week | Med     | Max            | Cum<br>2009  | Cum<br>2008 | Current week | Med     | Max          | Cum<br>2009 | Cum<br>2008 | Current week | Med      | Max            | Cum<br>2009 | Cum<br>2008 |
| United States                               | 84           | 271     | 1,697          | 12,885       | 10,362      | 35           | 64      | 140          | 3,488       | 3,995       | 7            | 24       | 179            | 1,352       | 2,265       |
| New England                                 | _            | 12      | 27             | 558          | 970         | 15           | 6       | 24           | 341         | 402         | _            | 0        | 2              | 11          | 7           |
| Connecticut<br>Maine <sup>†</sup>           | _            | 0<br>1  | 4<br>10        | 37<br>77     | 53<br>40    | 14           | 2<br>1  | 22<br>4      | 146<br>50   | 190<br>56   | _            | 0        | 0<br>2         | <br>5       |             |
| Massachusetts                               | _            | 7       | 19             | 327          | 741         | _            | 0       | 0            | _           | _           | _            | 0        | 1              | 5           | 2           |
| New Hampshire<br>Rhode Island <sup>†</sup>  | _            | 1<br>0  | 7<br>7         | 75<br>31     | 41<br>83    | _            | 0<br>1  | 3<br>7       | 31<br>51    | 53<br>33    | _            | 0        | 0<br>0         | _           | 1           |
| Vermont†                                    | _            | 0       | 1              | 11           | 12          | _<br>1       | 1       | 5            | 63          | 70          | _            | 0        | 1              | 1           | 3           |
| Mid. Atlantic                               | 14           | 22      | 64             | 1,052        | 1,122       | 4            | 11      | 23           | 559         | 896         | 1            | 1        | 29             | 66          | 123         |
| New Jersey                                  | <u> </u>     | 3       | 12             | 151          | 210         | _            | 0<br>7  | 0<br>22      | —<br>419    | 480         | <u> </u>     | 0        | 1              | <br>11      | 83<br>14    |
| New York (Upstate)<br>New York Citv         | 4            | 4<br>1  | 41<br>21       | 233<br>92    | 402<br>85   | 4            | 0       | 3            | 22          | 480<br>19   |              | 0        | 29<br>4        | 32          | 11          |
| Pennsylvania                                | 4            | 12      | 33             | 576          | 425         | _            | Ö       | 16           | 118         | 397         | _            | Ö        | 2              | 23          | 15          |
| E.N. Central                                | 31           | 57      | 238            | 2,832        | 1,797       | _            | 2       | 19           | 216         | 253         | _            | 1        | 7              | 88          | 147         |
| Illinois<br>Indiana                         | _            | 12<br>7 | 33<br>158      | 562<br>317   | 524<br>100  | _            | 1<br>0  | 9<br>6       | 87<br>21    | 103<br>10   | _            | 0        | 6<br>3         | 49<br>13    | 109<br>6    |
| Michigan                                    | 11           | 13      | 40             | 786          | 281         | _            | 1       | 6            | 63          | 77          | _            | 0        | 2              | 6           | 3           |
| Ohio<br>Wisconsin                           | 20           | 19<br>3 | 57<br>12       | 1,035<br>132 | 715<br>177  | N            | 0       | 5<br>0       | 45<br>N     | 63<br>N     | _            | 0        | 4<br>1         | 18<br>2     | 29          |
| W.N. Central                                | 13           | 31      | 872            | 1,626        | 1,280       |              | 7       | 18           | 325         | 300         | 1            | 3        | 27             | 339         | 434         |
| lowa  | _            | 4       | 10             | 184          | 223         | _            | Ö       | 3            | 24          | 29          | _            | 0        | 2              | 5           | 8           |
| Kansas<br>Minnesota                         | _            | 3<br>0  | 9<br>808       | 146<br>165   | 82<br>226   | _            | 1<br>0  | 6<br>11      | 60<br>61    | 64<br>64    | _            | 0        | 1<br>2         | 2<br>4      | _           |
| Missouri                                    | 12           | 19      | 51             | 932          | 446         | _            | 1       | 5            | 65          | 63          | 1            | 3        | 26             | 316         | 403         |
| Nebraska†                                   | 1            | 3<br>0  | 15             | 140          | 235         | _            | 1<br>0  | 6            | 77          | 32          | _            | 0        | 2              | 12          | 20          |
| North Dakota<br>South Dakota                | _            | 0       | 24<br>6        | 29<br>30     | 1<br>67     | _            | 0       | 9<br>4       | 11<br>27    | 25<br>23    | _            | 0        | 1<br>0         | _           | 3           |
| S. Atlantic                                 | 6            | 32      | 71             | 1,507        | 917         | 10           | 26      | 111          | 1,584       | 1,577       | 5            | 9        | 40             | 447         | 880         |
| Delaware                                    | _            | 0       | 2              | 13           | 18          | _            | 0       | 0            | · _         |             | _            | 0        | 3              | 17          | 32          |
| District of Columbia Florida                | <br>5        | 0<br>9  | 1<br>29        | 3<br>495     | 7<br>282    | _            | 0       | 0<br>95      | 153         | 138         | _            | 0<br>0   | 0<br>2         | 9           | 6<br>16     |
| Georgia                                     | _            | 3       | 11             | 187          | 102         | _            | 0       | 72           | 409         | 364         | _            | 0        | 7              | 46          | 77          |
| Maryland <sup>†</sup><br>North Carolina     | 1            | 2       | 8<br>65        | 125<br>223   | 150<br>79   | 3<br>N       | 7<br>4  | 15<br>4      | 372<br>N    | 408<br>N    | <u> </u>     | 1<br>4   | 3<br>36        | 36<br>264   | 90<br>450   |
| South Carolina†                             | _            | 4       | 18             | 243          | 121         | _            | 0       | 0            | _           | _           | _            | Ö        | 5              | 18          | 56          |
| Virginia <sup>†</sup><br>West Virginia      | _            | 4<br>0  | 24<br>5        | 187<br>31    | 147<br>11   | 7            | 10<br>3 | 26<br>6      | 536<br>114  | 591<br>76   | _            | 1<br>0   | 8<br>1         | 53<br>4     | 144<br>9    |
| E.S. Central                                | 1            | 14      | 33             | 717          | 393         |              | 1       | 6            | 83          | 177         | _            | 3        | 16             | 249         | 332         |
| Alabama†                                    |              | 4       | 19             | 273          | 59          | _            | Ó       | 0            | _           | _           | _            | 1        | 7              | 59          | 91          |
| Kentucky                                    | _            | 4<br>1  | 15<br>4        | 210<br>55    | 144<br>98   | _            | 1<br>0  | 4<br>1       | 45<br>4     | 45<br>7     | _            | 0        | 1<br>1         | 1<br>7      | 1<br>10     |
| Mississippi<br>Tennessee <sup>†</sup>       | 1            | 3       | 14             | 179          | 92          | _            | 0       | 4            | 34          | 125         | _            | 3        | 14             | 182         | 230         |
| W.S. Central                                | _            | 62      | 389            | 2,755        | 1,752       | 4            | 0       | 13           | 70          | 82          | _            | 1        | 161            | 130         | 294         |
| Arkansas†                                   | _            | 5       | 38             | 265          | 151         | 3            | 0       | 10           | 36          | 44          | _            | 0        | 61             | 61          | 65          |
| Louisiana<br>Oklahoma                       | _            | 1<br>0  | 8<br>45        | 90<br>76     | 85<br>53    | _<br>1       | 0       | 0<br>13      | 33          | 36          | _            | 0        | 1<br>98        | 2<br>53     | 6<br>170    |
| Texas <sup>†</sup>                          | _            | 55      | 304            | 2,324        | 1,463       | _            | 0       | 1            | 1           | 2           | _            | 0        | 6              | 14          | 53          |
| Mountain                                    | 15           | 18      | 32             | 850          | 800         | <u></u>      | 1       | 6            | 82          | 105         | _            | 0        | 3              | 21          | 45          |
| Arizona<br>Colorado                         | 13           | 4<br>5  | 12<br>12       | 205<br>237   | 212<br>142  | N            | 0       | 0            | N           | N           | _            | 0        | 1<br>1         | 6<br>1      | 16<br>1     |
| Idaho†                                      | 1            | 1       | 15             | 86           | 31          | _            | 0       | 0            |             | 11          | _            | 0        | 1              | 1           | 1           |
| Montana <sup>†</sup><br>Nevada <sup>†</sup> | 1            | 0<br>0  | 6<br>3         | 55<br>9      | 84<br>28    | _            | 0       | 4<br>1       | 25<br>1     | 13<br>12    | _            | 0        | 2<br>0         | 8           | 3<br>3      |
| New Mexico <sup>†</sup>                     | _            | 1       | 7              | 59           | 80          | _            | 0       | 2            | 24          | 29          | _            | 0        | 1              | 1           | 4           |
| Utah<br>Wyoming <sup>†</sup>                | _            | 3<br>0  | 19<br>5        | 179<br>20    | 206<br>17   | _            | 0<br>0  | 2<br>4       | 11<br>21    | 14<br>26    | _            | 0        | 1<br>1         | 1<br>3      | 7<br>10     |
| Pacific                                     | 4            | 23      | 67             | 988          | 1,331       | 2            | 4       | 12           | 228         | 203         | _            | 0        | 1              | 1           | 3           |
| Alaska                                      | _            | 1       | 8              | 46           | 255         | _            | Ó       | 2            | 12          | 14          | N            | 0        | Ö              | Ň           | Ň           |
| California<br>Hawaii                        | _            | 9       | 22<br>3        | 417<br>26    | 500<br>17   | 2            | 4<br>0  | 12<br>0      | 201         | 176         | <br>N        | 0        | 1<br>0         | 1<br>N      | N           |
| Oregon <sup>†</sup>                         | =            | 3       | 16             | 244          | 173         | _            | 0       | 3            | 15          | 13          |              | 0        | 0              |             | 3           |
| Washington                                  | 4            | 5       | 58             | 255          | 386         | _            | 0       | 0            | _           | _           | _            | 0        | 0              | _           | _           |
| American Samoa                              | _            | 0       | 0              | _            | _           | N            | 0       | 0            | N           | N           | N            | 0        | 0              | N           | N           |
| C.N.M.I.<br>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 12, 2009, and December 6, 2008 (49th week)\*

|  |                 | s        | almonello    | sis            |                | Shi            | ga toxin-pr | roducing    | E. coli (ST | EC)†        |              |          | Shigellosis  | <u> </u>       |                |
|--|-----------------|----------|--------------|----------------|----------------|----------------|-------------|-------------|-------------|-------------|--------------|----------|--------------|----------------|----------------|
|  |                 |          | vious        |                |                |                |             | ious        |             |             |              |          | vious        |                |                |
| Reporting area                                 | Current<br>week | Med Med  | weeks<br>Max | Cum<br>2009    | Cum<br>2008    | Current week   | Med Med     | eeks<br>Max | Cum<br>2009 | Cum<br>2008 | Current week | Med      | veeks<br>Max | Cum<br>2009    | Cum<br>2008    |
| United States                                  | 651             | 877      | 2,323        | 42,492         | 45,802         | 31             | 84          | 255         | 4,163       | 4,828       | 194          | 286      | 1,268        | 13,775         | 20,005         |
| New England                                    | 3               | 32       | 426          | 1,981          | 2,141          | _              | 3           | 67          | 273         | 249         | _            | 4        | 43           | 316            | 234            |
| Connecticut<br>Maine <sup>§</sup>              |                 | 0<br>2   | 401<br>7     | 401<br>117     | 491<br>147     | _              | 0<br>0      | 67<br>3     | 67<br>19    | 47<br>23    | _            | 0<br>0   | 38<br>2      | 38<br>5        | 40<br>20       |
| Massachusetts                                  | _               | 21       | 50           | 1,045          | 1,158          | _              | 2           | 6           | 89          | 109         | _            | 3        | 27           | 226            | 152            |
| New Hampshire<br>Rhode Island <sup>§</sup>     | 1               | 3<br>2   | 42<br>11     | 238<br>122     | 146<br>107     | _              | 1<br>0      | 3<br>26     | 36<br>38    | 30<br>10    | _            | 0<br>0   | 4<br>7       | 19<br>23       | 5<br>12        |
| Vermont§                                       | _               | 1        | 5            | 58             | 92             | _              | 0           | 3           | 24          | 30          | _            | 0        | 1            | 5              | 5              |
| Mid. Atlantic<br>New Jersey                    | 43              | 87<br>14 | 196<br>46    | 4,817<br>799   | 5,546<br>1,252 | 3              | 6<br>1      | 21<br>4     | 335<br>33   | 448<br>129  | 20           | 57<br>10 | 87<br>27     | 2,549<br>516   | 2,375<br>862   |
| New York (Upstate)                             | 31              | 23       | 66           | 1,255          | 1,388          | 3              | 3           | 9           | 144         | 174         | 8            | 4        | 23           | 216            | 558            |
| New York City<br>Pennsylvania                  | 2<br>10         | 22<br>31 | 42<br>65     | 1,134<br>1,629 | 1,234<br>1,672 | _              | 1<br>2      | 5<br>8      | 56<br>102   | 52<br>93    | <br>12       | 9<br>27  | 15<br>63     | 416<br>1,401   | 707<br>248     |
| E.N. Central                                   | 30              | 91       | 152          | 4,441          | 4,928          | 7              | 15          | 32          | 762         | 836         | 17           | 48       | 121          | 2,200          | 3,953          |
| Illinois<br>Indiana                            | _               | 24<br>6  | 51<br>50     | 1,237<br>344   | 1,443<br>583   | _              | 2<br>1      | 10<br>7     | 136<br>71   | 132<br>92   | _            | 10<br>1  | 25<br>21     | 470<br>56      | 933<br>578     |
| Michigan                                       | 6               | 18       | 34           | 880            | 914            | 1              | 3           | 8           | 152         | 211         | _            | 4        | 21           | 205            | 200            |
| Ohio<br>Wisconsin                              | 24              | 28<br>12 | 52<br>29     | 1,361<br>619   | 1,253<br>735   | 4<br>2         | 3<br>5      | 11<br>18    | 128<br>275  | 186<br>215  | 16<br>1      | 22<br>7  | 67<br>26     | 1,056<br>413   | 1,699<br>543   |
| W.N. Central                                   | 31              | 45       | 109          | 2,398          | 2,667          | 3              | 11          | 37          | 684         | 781         | 46           | 21       | 63           | 1,159          | 878            |
| Iowa<br>Kansas                                 | 3               | 7<br>6   | 16<br>18     | 369<br>269     | 405<br>439     | _              | 2<br>0      | 14<br>4     | 149<br>32   | 201<br>50   | _            | 1<br>3   | 10<br>11     | 51<br>159      | 186<br>64      |
| Minnesota                                      | 8               | 12       | 51           | 564            | 675            | 1              | 2           | 19          | 219         | 186         | 2            | 2        | 8            | 80             | 290            |
| Missouri<br>Nebraska <sup>§</sup>              | 17<br>3         | 12<br>5  | 30<br>41     | 636<br>333     | 723<br>231     | 1<br>1         | 2<br>1      | 10<br>6     | 132<br>85   | 148<br>144  | 42<br>2      | 12<br>0  | 57<br>3      | 828<br>32      | 213<br>16      |
| North Dakota<br>South Dakota                   | _               | 0<br>2   | 30<br>22     | 71<br>156      | 43<br>151      | _              | 0           | 28<br>12    | 7<br>60     | 2<br>50     | _            | 0        | 9<br>1       | 5<br>4         | 33<br>76       |
| S. Atlantic                                    | 296             | 266      | 448          | 12,820         | 11,911         | 5              | 12          | 30          | 606         | 776         | 32           | 44       | 79           | 2,178          | 3,022          |
| Delaware                                       | 1               | 2        | 9            | 131            | 145            | _              | 0           | 2           | 13          | 13          | 1            | 3        | 10           | 143            | 10             |
| District of Columbia<br>Florida                | 203             | 118      | 278          | 6,345          | 4,946          |                | 4           | 7           | 164         | 137         | 1<br>8       | 9        | 24           | 445            | 21<br>777      |
| Georgia<br>Maryland <sup>§</sup>               | 22<br>16        | 39<br>15 | 98<br>29     | 2,238<br>749   | 2,208<br>827   |                | 1<br>2      | 4<br>5      | 67<br>90    | 86<br>122   | 4<br>6       | 12<br>6  | 29<br>19     | 613<br>353     | 1,077<br>116   |
| North Carolina                                 | 29              | 17       | 92           | 1,048          | 1,384          | _              | 2           | 21          | 86          | 115         | 7            | 5        | 27           | 307            | 230            |
| South Carolina§<br>Virginia§                   | 13<br>11        | 16<br>21 | 67<br>88     | 1,098<br>979   | 1,120<br>1,017 | _<br>1         | 0<br>2      | 3<br>16     | 29<br>127   | 43<br>222   | 4<br>1       | 3<br>4   | 9<br>59      | 116<br>184     | 537<br>221     |
| West Virginia                                  | 1               | 4        | 23           | 209            | 204            | _              | 0           | 5           | 29          | 32          | _            | 0        | 3            | 9              | 33             |
| E.S. Central<br>Alabama§                       | 6               | 50<br>14 | 113<br>32    | 2,750<br>724   | 3,358<br>961   | 1              | 4<br>1      | 12<br>4     | 204<br>43   | 271<br>60   | 4            | 13<br>2  | 46<br>11     | 735<br>122     | 1,858<br>401   |
| Kentucky                                       | 2               | 8        | 18           | 428            | 457            | _              | 1           | 4           | 66          | 99          | 4            | 2        | 25           | 212            | 259            |
| Mississippi<br>Tennessee <sup>§</sup>          | 4               | 14<br>14 | 45<br>33     | 839<br>759     | 1,046<br>894   | _<br>1         | 0<br>2      | 1<br>10     | 6<br>89     | 5<br>107    | _            | 1<br>7   | 4<br>23      | 47<br>354      | 295<br>903     |
| W.S. Central                                   | 81              | 98       | 1,333        | 4,577          | 6,731          | 1              | 5           | 139         | 255         | 362         | 35           | 48       | 967          | 2,378          | 4,807          |
| Arkansas <sup>§</sup><br>Louisiana             | 7               | 11<br>8  | 25<br>43     | 589<br>599     | 744<br>1,080   | 1              | 1<br>0      | 4<br>1      | 43          | 54<br>8     | 5<br>—       | 6<br>2   | 16<br>8      | 296<br>108     | 553<br>627     |
| Oklahoma                                       | 10              | 13       | 102          | 595            | 770            | _              | 0           | 82          | 30          | 51          | 12           | 5        | 61           | 280            | 165            |
| Texas <sup>§</sup><br>Mountain                 | 64<br>17        | 56<br>53 | 1,204<br>128 | 2,794<br>2,686 | 4,137<br>3,206 | 1              | 4<br>9      | 55<br>26    | 182<br>505  | 249<br>610  | 18<br>7      | 33<br>21 | 889<br>49    | 1,694<br>1,072 | 3,462<br>1,151 |
| Arizona  | 3               | 20       | 50           | 1,000          | 1,070          | _              | 1           | 4           | 69          | 63          | 2            | 16       | 42           | 785            | 586            |
| Colorado<br>Idaho <sup>§</sup>                 | 10              | 11<br>3  | 33<br>10     | 585<br>166     | 673<br>188     | 1              | 3<br>1      | 13<br>7     | 154<br>88   | 200<br>144  | 1            | 2<br>0   | 11<br>2      | 95<br>9        | 128<br>14      |
| Montana <sup>§</sup>                           |                 | 2        | 7            | 96<br>167      | 121<br>220     | _              | 0           | 7           | 34<br>14    | 35          | 4            | 0<br>1   | 5<br>7       | 13             | 8              |
| Nevada <sup>§</sup><br>New Mexico <sup>§</sup> | 1               | 3<br>5   | 11<br>29     | 167<br>315     | 509            | _              | 1           | 3<br>3      | 33          | 19<br>49    | _            | 1        | 11           | 62<br>90       | 226<br>146     |
| Utah<br>Wyoming <sup>§</sup>                   | _               | 6<br>1   | 15<br>9      | 273<br>84      | 346<br>79      | _              | 1<br>0      | 10<br>2     | 98<br>15    | 87<br>13    | _            | 0<br>0   | 3<br>1       | 16<br>2        | 36<br>7        |
| Pacific  | 144             | 126      | 537          | 6,022          | 5,314          | 10             | 9           | 31          | 539         | 495         | 33           | 24       | 66           | 1,188          | 1,727          |
| Alaska<br>California                           | <br>109         | 1<br>97  | 7<br>516     | 67<br>4,532    | 56<br>3,896    | <del>-</del> 7 | 0<br>5      | 0<br>15     | 256         | 6<br>238    | <u> </u>     | 0<br>19  | 1<br>65      | 966            | 1<br>1,492     |
| Hawaii   | —               | 5        | 59           | 293            | 247            | _              | 0           | 2           | 8           | 13          | _            | 0        | 4            | 35             | 44             |
| Oregon <sup>§</sup><br>Washington              | <br>35          | 8<br>12  | 18<br>85     | 392<br>738     | 412<br>703     | _<br>3         | 1<br>2      | 11<br>17    | 78<br>197   | 64<br>174   | 7            | 1<br>3   | 3<br>11      | 39<br>146      | 93<br>97       |
| American Samoa                                 | _               | 0        | 1            | _              | 2              | _              | 0           | 0           | _           | _           | _            | 1        | 2            | 3              | 1              |
| C.N.M.I.<br>Guam                               | _               |          |              | _              | 13             | _              |             |             | _           | _           | _            |          |              | _              | <br>15         |
| Puerto Rico                                    | _               | 7        | 40           | 376            | 733            | _              | 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 December 12, 2009, and December 6, 2008 (49th week)\*

|  | 5              | Streptococcal | diseases, inv | asive, group A |              | Streptococc | us pneumonia | ae, invasive di<br>Age <5 years | sease, nondru | g resistant <sup>i</sup> |
|--|----------------|---------------|---------------|----------------|--------------|-------------|--------------|---------------------------------|---------------|--------------------------|
|  | Current        | Prev<br>52 w  |               | Cum            | Cum          | Current     | Prev<br>52 w |                                 | Cum           | Cum                      |
| Reporting area                                 | week           | Med           | Max           | 2009           | 2008         | week        | Med          | Max                             | 2009          | 2008                     |
| United States                                  | 42             | 101           | 239           | 4,643          | 5,077        | 36          | 31           | 122                             | 1,612         | 1,740                    |
| New England                                    | _              | 5             | 28            | 274            | 353          | 11          | 1            | 6                               | 68            | 92                       |
| Connecticut<br>Maine <sup>§</sup>              | _              | 0<br>0        | 21<br>2       | 72<br>18       | 95<br>26     | 11<br>—     | 0<br>0       | 4<br>1                          | 11<br>6       | 11<br>2                  |
| Massachusetts                                  | _              | 2             | 10            | 120            | 167          | _           | 0            | 4                               | 35            | 58                       |
| New Hampshire<br>Rhode Island§                 | _              | 0<br>0        | 4<br>2        | 35<br>11       | 26<br>26     | _           | 0<br>0       | 2<br>1                          | 11<br>1       | 11<br>10                 |
| Vermont§                                       | _              | 0             | 3             | 18             | 13           | =           | 0            | i                               | 4             | <del>-</del>             |
| <b>lid. Atlantic</b><br>New Jersey             | 8              | 18<br>2       | 43<br>7       | 920<br>124     | 1,009<br>181 | 6           | 4<br>0       | 33<br>4                         | 225<br>38     | 222<br>70                |
| New York (Upstate)                             | 7              | 6             | 25            | 304            | 311          | 4           | 2            | 17                              | 114           | 97                       |
| New York City                                  | _              | 4             | 12            | 175            | 191          | 2           | 0            | 31                              | 73            | 55                       |
| Pennsylvania                                   | 1              | 5             | 18            | 317            | 326          | N           | 0            | 2                               | N             | N                        |
| .N. Central<br>Illinois                        | 9              | 17<br>5       | 42<br>13      | 836<br>237     | 919<br>245   | 5<br>—      | 5<br>0       | 18<br>3                         | 246<br>23     | 317<br>93                |
| Indiana  | _              | 2             | 23            | 128            | 121          | _           | 0            | 13                              | 37            | 31                       |
| Michigan<br>Ohio                               | 3<br>6         | 3<br>3        | 11<br>13      | 142<br>202     | 169<br>248   | 2<br>3      | 1            | 4<br>6                          | 66<br>75      | 82<br>59                 |
| Wisconsin                                      | _              | 2             | 11            | 127            | 136          | _           | i            | 3                               | 45            | 52                       |
| .N. Central                                    | 1              | 6             | 37            | 371            | 359          | _           | 2            | 12                              | 143           | 104                      |
| lowa   | _              | 0             | 0             |                | _            |             | 0            | 0                               |               |                          |
| Kansas<br>Minnesota                            |                | 0<br>0        | 5<br>34       | 37<br>171      | 36<br>166    | N<br>—      | 0<br>0       | 1<br>10                         | N<br>81       | N<br>41                  |
| Missouri                                       | 1              | 2             | 8             | 83             | 86           | _           | 0            | 4                               | 36            | 35                       |
| Nebraska <sup>§</sup><br>North Dakota          | _              | 1<br>0        | 3<br>4        | 42<br>17       | 38<br>10     | _           | 0<br>0       | 2<br>3                          | 14<br>5       | 8<br>9                   |
| South Dakota                                   | _              | ő             | 3             | 21             | 23           | _           | ő            | 2                               | 7             | 11                       |
| . Atlantic                                     | 13             | 21            | 49            | 1,068          | 1,071        | 8           | 6            | 18                              | 305           | 341                      |
| Delaware<br>District of Columbia               | _              | 0<br>0        | 1<br>3        | 11             | 9<br>14      | N           | 0            | 0<br>0                          | N             | N                        |
| Florida  | <del>_</del> 7 | 5             | 12            | 13<br>264      | 254          | 3           | 1            | 6                               | 70            | 65                       |
| Georgia  | _              | 5             | 13            | 247            | 244          | 1           | 1            | 6                               | 79            | 98                       |
| Maryland <sup>§</sup><br>North Carolina        | 2<br>2         | 3<br>2        | 12<br>12      | 184<br>90      | 179<br>130   | 3<br>N      | 1<br>0       | 7<br>0                          | 76<br>N       | 58<br>N                  |
| South Carolina§                                | _              | 1             | 5             | 69             | 71           | _           | 1            | 6                               | 44            | 64                       |
| Virginia§                                      | 1              | 3<br>1        | 9             | 152            | 132          | _           | 0            | 4                               | 23            | 43                       |
| West Virginia                                  | 1              | •             | 4             | 38             | 38           | 1           | 0            | 3<br>7                          | 13            | 13                       |
| <b>.S. Central</b><br>Alabama§                 | 1<br>N         | 3<br>0        | 10<br>0       | 182<br>N       | 179<br>N     | <br>N       | 2            | 0                               | 97<br>N       | 87<br>N                  |
| Kentucky                                       | 1              | 1             | 5             | 36             | 39           | N           | 0            | 0                               | N             | N                        |
| Mississippi<br>Tennessee <sup>§</sup>          | <u>N</u>       | 0<br>3        | 0<br>9        | N<br>146       | N<br>140     | _           | 0<br>1       | 2<br>6                          | 19<br>78      | 9<br>78                  |
| /.S. Central                                   | 7              | 8             | 79            | 412            | 475          | 3           | 5            | 46                              | 274           | 275                      |
| Arkansas§                                      | í              | 0             | 3             | 19             | 11           | _           | 0            | 4                               | 26            | 14                       |
| Louisiana<br>Oklahoma                          | <u></u>        | 0<br>3        | 3<br>20       | 11<br>124      | 17<br>109    | _           | 0<br>1       | 3<br>7                          | 13<br>55      | 13<br>64                 |
| Texas <sup>§</sup>                             | 5              | 5             | 59            | 258            | 338          | 3           | 3            | 34                              | 180           | 184                      |
| lountain                                       | 3              | 10            | 22            | 423            | 544          | 3           | 4            | 16                              | 223           | 254                      |
| Arizona<br>Colorado                            | 2<br>1         | 3<br>2        | 7<br>7        | 145<br>120     | 184<br>137   | 1<br>2      | 2<br>0       | 10<br>4                         | 109<br>47     | 111<br>59                |
| ldaho <sup>§</sup>                             |                | 0             | 2             | 10             | 16           | _           | 0            | 2                               | 9             | 59<br>5                  |
| Montana <sup>§</sup>                           | N              | 0             | 0             | N              | N            | N           | 0            | 0                               | N             | Ŋ                        |
| Nevada <sup>§</sup><br>New Mexico <sup>§</sup> | _              | 0<br>1        | 1<br>7        | 5<br>79        | 13<br>132    | _           | 0<br>0       | 1<br>4                          | <br>24        | 4<br>37                  |
| Utah   | _              | 1             | 6             | 63             | 54           | _           | 0            | 5                               | 34            | 36                       |
| Wyoming <sup>§</sup>                           | _              | 0             | 1             | 1              | 8            | _           | 0            | 0                               | _             | 2                        |
| <b>acific</b><br>Alaska                        |                | 3<br>1        | 9<br>4        | 157<br>36      | 168<br>37    | _           | 0            | 4<br>3                          | 31<br>23      | 48<br>29                 |
| California                                     | N              | 0             | 0             | N              | N            | N           | 0            | 0                               | N             | N                        |
| Hawaii   |                | 2             | 8             | 121            | 131          | _           | 0            | 2                               | 8             | 19                       |
| Oregon <sup>§</sup><br>Washington              | N<br>N         | 0<br>0        | 0<br>0        | N<br>N         | N<br>N       | N<br>N      | 0<br>0       | 0<br>0                          | N<br>N        | N<br>N                   |
| merican Samoa                                  | _              | 0             | 0             | _              | 30           | N           | 0            | 0                               | N             | N                        |
| .N.M.I.  | _              | _             | _             | _              | _            | _           | _            | _                               | _             | _                        |
| uam<br>uerto Rico                              | N              | 0<br>0        | 0<br>0        | N              | N            | N           | 0<br>0       | 0<br>0                          | N             | N                        |
| J.S. Virgin Islands                            | IN             | 0             | 0             |                |              | N           | 0            | 0                               | N             | N<br>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 12, 2009, and December 6, 2008 (49th week)\*

| ,  |                 | S            | treptococ | cus pneui   | moniae, ir  | vasive dis      | ease, dru  | g resistan     | ţ†          | 1                               |              |                      |           | N.           |              |
|--|-----------------|--------------|-----------|-------------|-------------|-----------------|------------|----------------|-------------|---------------------------------|--------------|----------------------|-----------|--------------|--------------|
|  | All ages        |              |           |             |             | Αç              | jed <5 yea | rs             |             | Syphilis, primary and secondary |              |                      |           |              |              |
|  | _               | Prev<br>52 w |           | _           |             |                 |            | rious<br>reeks |             | _                               | _            | Previous<br>52 weeks |           | _            |              |
| Reporting area                             | Current<br>week | Med          | Max       | Cum<br>2009 | Cum<br>2008 | Current<br>week | Med        | Max            | Cum<br>2009 | Cum<br>2008                     | Current week | Med                  | Max       | Cum 2009     | Cum<br>2008  |
| United States                              | 101             | 50           | 276       | 2,607       | 2,932       | 19              | 8          | 20             | 419         | 487                             | 124          | 267                  | 452       | 12,465       | 12,318       |
| New England                                | 50              | 1            | 16        | 105         | 109         | 11              | 0          | 2              | 14          | 16                              | 8            | 5                    | 15        | 304          | 293          |
| Connecticut<br>Maine§                      | 50<br>—         | 0            | 15<br>2   | 50<br>19    | 55<br>17    | 11              | 0<br>0     | 2<br>1         | 11<br>1     | 5<br>2                          | 1            | 1<br>0               | 5<br>1    | 54<br>3      | 31<br>10     |
| Massachusetts                              | _               | 0            | 1         | 3           | _           | _               | 0          | 1              | 2           | _                               | 7            | 4                    | 10        | 220          | 205          |
| New Hampshire<br>Rhode Island <sup>§</sup> | _               | 0            | 3<br>6    | 5<br>15     | 23          | _               | 0          | 0<br>1         | _           | 7                               | _            | 0<br>0               | 2<br>5    | 14<br>13     | 19<br>18     |
| Vermont§                                   | _               | Ö            | 2         | 13          | 14          | _               | Ö          | Ö              | _           | 2                               | _            | Ö                    | 1         | _            | 10           |
| Mid. Atlantic<br>New Jersev                | _               | 3            | 14<br>0   | 167         | 291         | _               | 0          | 3<br>0         | 25          | 30                              | 26           | 35                   | 50        | 1,691        | 1,586        |
| New York (Upstate)                         | _               | 1            | 10        | —<br>76     | 66          | _               | 0          | 2              | 14          | 9                               | 3            | 4<br>2               | 13<br>8   | 203<br>114   | 202<br>130   |
| New York City                              | _               | 0            | 4         | 7           | 120         | _               | 0          | 2              | _           | 4                               | 18           | 22                   | 39        | 1,046        | 998          |
| Pennsylvania E.N. Central                  | —<br>11         | 1<br>11      | 8<br>41   | 84<br>582   | 105<br>577  | 3               | 0<br>2     | 2<br>7         | 11<br>87    | 17<br>76                        | 5<br>19      | 7<br>24              | 13<br>43  | 328<br>1,124 | 256<br>1,202 |
| Illinois                                   | N               | 0            | 0         | N           | N           | Ň               | 0          | 0              | N           | N                               | 10           | 10                   | 28        | 489          | 503          |
| Indiana<br>Michigan                        | _               | 3<br>0       | 32<br>2   | 186<br>24   | 189<br>21   | _               | 0          | 6              | 27<br>3     | 23<br>2                         | 2<br>7       | 2<br>4               | 10<br>18  | 137<br>226   | 126<br>188   |
| Ohio                                       | 11              | 7            | 18        | 372         | 367         | 3               | Ĭ          | 4              | 57          | 51                              | <u>'</u>     | 5                    | 12        | 236          | 323          |
| Wisconsin                                  |                 | 0            | 0         | _           | _           | _               | 0          | 0              | _           | _                               | _            | 1                    | 3         | 36           | 62           |
| W.N. Central<br>lowa                       | 1               | 2            | 161<br>0  | 113         | 200         | _               | 0<br>0     | 3<br>0         | 21<br>—     | 40                              | 3            | 6<br>0               | 12<br>2   | 292<br>19    | 387<br>16    |
| Kansas                                     | _               | 0            | 5         | 38          | 76          | _               | 0          | 2              | 13          | 6                               | _            | 0                    | 3         | 26           | 29           |
| Minnesota<br>Missouri                      | 1               | 0<br>1       | 156<br>5  | <u> </u>    | 28<br>85    | _               | 0          | 3<br>1         | 6           | 28<br>3                         | 3            | 1<br>3               | 4<br>8    | 67<br>159    | 109<br>217   |
| Nebraska§                                  | _               | 0            | 1         | 2           | _           | _               | 0          | 0              | _           | _                               | _            | 0                    | 3         | 16           | 15           |
| North Dakota<br>South Dakota               | _               | 0            | 3<br>2    | 10<br>2     | 2<br>9      | _               | 0          | 0<br>2         | _           | 3                               | _            | 0<br>0               | 1         | 4<br>1       | 1            |
| S. Atlantic                                | 33              | 24           | 53        | 1,220       | 1,239       | 5               | 3          | 12             | 204         | 235                             | 27           | 63                   | 262       | 3,019        | 2,740        |
| Delaware<br>District of Columbia           | <br>N           | 0            | 2<br>0    | 18<br>N     | 3<br>N      | <br>N           | 0          | 2<br>0         | 3<br>N      | _<br>N                          | _<br>1       | 0<br>3               | 3<br>8    | 27<br>163    | 15<br>137    |
| Florida                                    | 23              | 14           | 36        | 717         | 701         | 4               | 2          | 9              | 124         | 147                             | 3            | 19                   | 32        | 922          | 980          |
| Georgia<br>Maryland <sup>§</sup>           | 9               | 8<br>0       | 25<br>1   | 382<br>4    | 419<br>6    | 1               | 1<br>0     | 5<br>0         | 69          | 74<br>1                         | 3<br>4       | 14<br>6              | 227<br>16 | 721<br>270   | 659<br>329   |
| North Carolina                             | N               | 0            | 0         | N           | Ň           | N               | 0          | 0              | N           | Ń                               | 14           | 9                    | 31        | 521          | 268          |
| South Carolina§<br>Virginia§               | N               | 0            | 0         | N           | N           | <br>N           | 0          | 0<br>0         | N           | N                               | 2            | 2<br>6               | 6<br>15   | 109<br>282   | 89<br>251    |
| West Virginia                              | 1               | ĭ            | 13        | 99          | 110         |                 | ŏ          | 2              | 8           | 13                              | _            | ŏ                    | 2         | 4            | 12           |
| E.S. Central                               | 2               | 4            | 25        | 242         | 301         |                 | 0          | 3              | 32          | 57                              | 30           | 22                   | 36        | 1,068        | 1,048        |
| Alabama <sup>§</sup><br>Kentucky           | N<br>2          | 0<br>1       | 0<br>5    | N<br>71     | N<br>72     | <u>N</u>        | 0<br>0     | 0<br>2         | N<br>8      | N<br>11                         | 13           | 8<br>1               | 18<br>10  | 396<br>75    | 423<br>80    |
| Mississippi<br>Tennessee§                  | _               | 0<br>2       | 3<br>23   | 4<br>167    | 41<br>188   | _               | 0          | 1<br>3         | 3<br>21     | 14<br>32                        | 12<br>5      | 4<br>8               | 16<br>15  | 211<br>386   | 155<br>390   |
| W.S. Central                               | _               | 1            | 23<br>6   | 84          | 92          | _               | 0          | 3              | 16          | 32<br>15                        | _            | 53                   | 79        | 2,470        | 2,204        |
| Arkansas§                                  | 2               | į            | 5         | 52          | 17          | _               | 0          | 3              | 11          | 4                               | _            | 5                    | 35        | 243          | 162          |
| Louisiana<br>Oklahoma                      | <br>N           | 1<br>0       | 5<br>0    | 32<br>N     | 75<br>N     | <br>N           | 0          | 1<br>0         | 5<br>N      | 11<br>N                         | _            | 13<br>1              | 41<br>5   | 602<br>66    | 651<br>80    |
| Texas§                                     |                 | Ö            | Ö         |             |             |                 | Ö          | Ö              |             | _                               | _            | 31                   | 49        | 1,559        | 1,311        |
| Mountain                                   | 2               | 1<br>0       | 7<br>0    | 91          | 121         | _               | 0          | 2              | 18          | 16                              | 2            | 9<br>3               | 18<br>9   | 411<br>170   | 565          |
| Arizona<br>Colorado                        | _               | 0            | 0         | _           | _           | _               | 0          | 0<br>0         | _           | _                               | _            | 1                    | 4         | 74           | 294<br>126   |
| Idaho <sup>§</sup><br>Montana <sup>§</sup> | N               | 0            | 1<br>0    | N           | N<br>1      | N               | 0          | 1<br>0         | N           | N                               | _            | 0                    | 1<br>7    | 3<br>1       | 7            |
| Nevada <sup>§</sup>                        | 2               | 0            | 4         | 32          | 53          | _               | 0          | 2              | 6           | 6                               | 1            | 1                    | 10        | 90           | 72           |
| New Mexico <sup>§</sup><br>Utah            | _               | 0<br>1       | 1<br>5    | 1<br>47     | —<br>65     | _               | 0          | 0<br>2         | <br>10      | <br>10                          | 1            | 1<br>0               | 5<br>2    | 54<br>16     | 39<br>24     |
| Wyoming§                                   | _               | Ó            | 2         | 11          | 2           | _               | 0          | 1              | 2           | _                               | _            | 0                    | 1         | 3            | 3            |
| Pacific                                    | _               | 0            | 1         | 3           | 2           | _               | 0          | 1              | 2           | 2                               | 9            | 43                   | 68        | 2,086        | 2,293        |
| Alaska<br>California                       | N               | 0<br>0       | 0<br>0    | N           | N           | N               | 0<br>0     | 0<br>0         | N           | N                               | 3            | 0<br>40              | 0<br>61   | 1,895        | 1<br>2,067   |
| Hawaii                                     | _               | 0            | 1         | 3           | 2           | _               | Ö          | 1              | 2           | 2                               | _            | 0                    | 3         | 27           | 28           |
| Oregon <sup>§</sup><br>Washington          | N<br>N          | 0<br>0       | 0<br>0    | N<br>N      | N<br>N      | N<br>N          | 0          | 0<br>0         | N<br>N      | N<br>N                          | 5<br>1       | 0<br>2               | 4<br>7    | 44<br>120    | 23<br>174    |
| American Samoa                             | N               | 0            | 0         | N           | N           | N               | 0          | 0              | N           | N                               | _            | 0                    | 0         | _            | _            |
| C.N.M.I.<br>Guam                           | _               |              |           | _           | _           | _               |            |                | _           | _                               | _            |                      |           | _            | _            |
| Puerto Rico                                | _               | 0            | 0         | _           | =           | _               | 0          | 0              | _           | _                               | 10           | 3                    | 17        | 209          | 150          |
| 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 December 12, 2009, and December 6, 2008 (49th week)\*

|   |                        |          |              |                |                | West Nile virus disease <sup>†</sup> |         |          |             |                               |              |         |              |             |             |
|---|------------------------|----------|--------------|----------------|----------------|--------------------------------------|---------|----------|-------------|-------------------------------|--------------|---------|--------------|-------------|-------------|
|   | Varicella (chickenpox) |          |              |                |                | Neuroinvasive                        |         |          |             | Nonneuroinvasive <sup>§</sup> |              |         |              |             |             |
|   |                        |          | vious        |                |                |                                      | Prev    |          |             |                               |              |         | ious.        |             |             |
| Reporting area                                    | Current week           | Med Med  | veeks<br>Max | Cum<br>2009    | Cum<br>2008    | Current week                         | Med Med | Max      | Cum<br>2009 | Cum<br>2008                   | Current week | Med Med | veeks<br>Max | Cum<br>2009 | Cum<br>2008 |
| United States                                     | 171                    | 336      | 1,035        | 16,370         | 27,603         |                                      | 0       | 43       | 356         | 688                           | - WCCR       | 0       | 46           | 319         | 667         |
| New England                                       | 1                      | 7        | 36           | 340            | 1,621          | _                                    | 0       | 0        | _           | 7                             | _            | 0       | 0            | _           | 3           |
| Connecticut                                       | _                      | 0        | 14           | _              | 821            | _                                    | 0       | 0        | _           | 5                             | _            | 0       | 0            | _           | 3           |
| Maine <sup>¶</sup><br>Massachusetts               | 1                      | 0<br>0   | 12<br>2      | 105<br>2       | 257            | _                                    | 0<br>0  | 0        | _           | 1                             | _            | 0       | 0            | _           | _           |
| New Hampshire                                     | _                      | 3        | 10           | 186            | 248            | _                                    | 0       | 0        | _           | _                             | _            | 0       | 0            | _           | _           |
| Rhode Island <sup>¶</sup><br>Vermont <sup>¶</sup> | _                      | 0        | 1<br>16      | 4<br>43        | <br>295        | _                                    | 0       | 0        | _           | 1                             | _            | 0       | 0            | _           | _           |
| Mid. Atlantic                                     | 22                     | 32       | 57           | 1.468          | 2,243          | _                                    | 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)<br>New York City               | N                      | 0        | 0            | N              | N              | _                                    | 0       | 1        | 3<br>2      | 24<br>8                       | _            | 0<br>0  | 1<br>0       | 1           | 7<br>7      |
| Pennsylvania                                      | 22                     | 32       | 57           | 1,468          | 2,243          | _                                    | 0       | Ö        | _           | 12                            | _            | 0       | Ő            | _           | 2           |
| E.N. Central                                      | 58                     | 131      | 232<br>73    | 5,942          | 7,286          | _                                    | 0       | 4<br>3   | 8           | 44                            | _            | 0       | 3            | 4           | 20          |
| Illinois<br>Indiana                               | 4                      | 32<br>7  | 30           | 1,493<br>379   | 1,379          | _                                    | 0       | 1        | 5<br>2      | 12<br>3                       | _            | 0       | 0<br>1       | 2           | 8<br>1      |
| Michigan  | 13                     | 41       | 84           | 1,767          | 2,882          | _                                    | 0       | 0        | _           | 11                            | _            | 0       | 0            | _           | 6           |
| Ohio<br>Wisconsin                                 | 41                     | 36<br>8  | 88<br>55     | 1,850<br>453   | 2,210<br>815   | _                                    | 0       | 0<br>1   | _<br>1      | 14<br>4                       | _            | 0       | 2<br>0       | 2           | 1<br>4      |
| W.N. Central                                      | 7                      | 15       | 114          | 855            | 1,217          | _                                    | 0       | 5        | 26          | 51                            | _            | 0       | 11           | 71          | 134         |
| lowa  | N                      | 0        | 0            | N              | N              | _                                    | 0       | 0        | _           | 3                             | _            | 0       | 1            | 5           | 3           |
| Kansas<br>Minnesota                               | _                      | 2        | 19<br>0      | 183            | 451<br>—       | _                                    | 0       | 2<br>1   | 5<br>1      | 14<br>2                       | _            | 0       | 2<br>1       | 7<br>3      | 17<br>8     |
| Missouri  | 7                      | 8        | 51           | 572            | 712            | _                                    | 0       | 2        | 3           | 12                            | _            | 0       | Ö            | _           | 3           |
| Nebraska <sup>¶</sup><br>North Dakota             | <u>N</u>               | 0        | 0<br>108     | N<br>83        | N              | _                                    | 0<br>0  | 2<br>0   | 11          | 7<br>2                        | _            | 0       | 6<br>1       | 40<br>1     | 40<br>35    |
| South Dakota                                      |                        | 0        | 2            | 17             | <br>54         | _                                    | 0       | 3        | 6           | 11                            |              | 0       | 2            | 15          | 28          |
| S. Atlantic                                       | 22                     | 33       | 146          | 1,794          | 4,413          | _                                    | 0       | 3        | 12          | 20                            | _            | 0       | 1            | 3           | 20          |
| Delaware<br>District of Columbia                  | _                      | 0        | 2<br>3       | 12<br>13       | 45<br>21       | _                                    | 0       | 0        | _           | 4                             | _            | 0<br>0  | 0<br>0       | _           | 1<br>4      |
| Florida   | 15                     | 20       | 67           | 1,102          | 1,549          | _                                    | 0       | 1        | 2           | 3                             | _            | 0       | i            | 1           | _           |
| Georgia<br>Maryland¶                              | N<br>N                 | 0<br>0   | 0            | N<br>N         | N<br>N         | _                                    | 0<br>0  | 1<br>0   | 4           | 4<br>6                        | _            | 0       | 0<br>1       | _           | 4<br>8      |
| North Carolina                                    | N                      | 0        | 0            | N              | N              | _                                    | 0       | Ö        | _           | 2                             | _            | Ö       | Ö            | _           | 1           |
| South Carolina®                                   | _                      | 0        | 54           | 154            | 810            | _                                    | 0       | 2        | 3           | _                             | _            | 0       | 0            | _           | 1           |
| Virginia <sup>¶</sup><br>West Virginia            | 7                      | 0<br>9   | 119<br>32    | 28<br>485      | 1,329<br>659   | _                                    | 0<br>0  | 1<br>0   | 3           | 1                             | _            | 0       | 0<br>0       | _           | 1           |
| E.S. Central                                      | _                      | 5        | 26           | 377            | 1,095          | _                                    | 0       | 6        | 36          | 48                            | _            | 0       | 4            | 26          | 57          |
| Alabama <sup>¶</sup><br>Kentucky                  | <br>N                  | 5<br>0   | 26<br>0      | 372<br>N       | 1,081<br>N     | _                                    | 0<br>0  | 0<br>1   |             | 11<br>3                       | _            | 0<br>0  | 0<br>0       | _           | 7           |
| Mississippi                                       |                        | 0        | 2            | 5              | 14             | _                                    | 0       | 5        | 29          | 22                            | _            | 0       | 4            | 22          | 43          |
| Tennessee <sup>¶</sup>                            | N                      | 0        | 0            | N              | N              | _                                    | 0       | 2        | 4           | 12                            | _            | 0       | 1            | 4           | 7           |
| W.S. Central<br>Arkansas <sup>¶</sup>             | 51<br>—                | 81<br>0  | 747<br>30    | 4,312<br>115   | 7,530<br>716   | _                                    | 0       | 16<br>1  | 107<br>6    | 69<br>7                       | _            | 0<br>0  | 6<br>0       | 33          | 62<br>2     |
| Louisiana   | _                      | 1        | 7            | 76             | 70             | _                                    | 0       | 2        | 10          | 18                            | _            | Ö       | 4            | 10          | 31          |
| Oklahoma<br>Texas <sup>¶</sup>                    | N                      | 0        | 701          | N              | N              | _                                    | 0       | 2        | 8           | 4                             | _            | 0       | 2<br>4       | 2           | 5           |
| Mountain  | 51<br>10               | 75<br>18 | 721<br>65    | 4,121<br>1,194 | 6,744<br>2,063 | _                                    | 0       | 13<br>12 | 83<br>75    | 40<br>103                     | _            | 0<br>0  | 4<br>17      | 21<br>120   | 24<br>184   |
| Arizona   | _                      | 0        | 0            | · —            | · —            | _                                    | 0       | 4        | 12          | 62                            | _            | 0       | 2            | 6           | 52          |
| Colorado<br>Idaho <sup>¶</sup>                    | 9<br>N                 | 9        | 33<br>0      | 495<br>N       | 822<br>N       | _                                    | 0<br>0  | 7<br>3   | 35<br>9     | 17<br>4                       | _            | 0       | 14<br>5      | 66<br>29    | 54<br>35    |
| Montana <sup>¶</sup>                              | _                      | 0        | 16           | 105            | 312            | _                                    | 0       | 1        | 2           | _                             | _            | Ö       | 1            | 4           | 5           |
| Nevada¶   | N                      | 0        | 0            | N              | N              | _                                    | 0       | 2        | 7           | 9                             | _            | 0       | 1            | 5           | 7           |
| New Mexico <sup>¶</sup><br>Utah                   | 1                      | 0<br>8   | 20<br>32     | 134<br>460     | 212<br>707     | _                                    | 0<br>0  | 2        | 6           | 5<br>6                        | _            | 0<br>0  | 1<br>0       | 2           | 3<br>20     |
| Wyoming <sup>¶</sup>                              |                        | ő        | 1            | _              | 10             | _                                    | 0       | 1        | 4           | _                             | _            | 0       | 2            | 8           | 8           |
| Pacific<br>Alaska                                 | _                      | 1<br>1   | 6<br>5       | 88<br>53       | 135<br>72      | _                                    | 0       | 12<br>0  | 85          | 296                           | _            | 0       | 11<br>0      | 61          | 167         |
| California  | =                      | 0        | 0            | 53<br>—        |                | _                                    | 0       | 7        | <br>59      | 291                           | _            | 0       | 6            | 44          | 153         |
| Hawaii  |                        | 0        | 4            | 35             | 63             | _                                    | 0       | 0        | _           | _                             | _            | 0       | 0            | _           | _           |
| Oregon¶<br>Washington                             | N<br>N                 | 0        | 0            | N<br>N         | N<br>N         | _                                    | 0<br>0  | 1<br>6   | 1<br>25     | 3<br>2                        | _            | 0<br>0  | 3<br>3       | 6<br>11     | 13<br>1     |
| American Samoa                                    | N                      | 0        | 0            | N              | N              | _                                    | 0       | 0        | _           | _                             | _            | 0       | 0            |             |             |
| C.N.M.I.  | _                      | _        | 1            | _              | _              | _                                    |         |          | _           | _                             | _            |         |              | _           | _           |
| Guam<br>Puerto Rico                               | _                      | 1<br>6   | 1<br>26      | 405            | 62<br>563      | _                                    | 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.

<sup>§</sup> 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 December 12, 2009 (49th week)

|                                   | All causes, by age (years) |            |          |          |             |        |                  |                                    | All causes, by age (years) |           |                    |            |                |        |                  |
|-----------------------------------|----------------------------|------------|----------|----------|-------------|--------|------------------|------------------------------------|----------------------------|-----------|--------------------|------------|----------------|--------|------------------|
|                                   | All                        |            | 45.64    | 05.44    | 4 04        |        | P&I <sup>†</sup> | Don outlines over                  | All                        |           | 45.64              | 05.44      | 4 04           |        | P&I <sup>†</sup> |
| Reporting area                    | Ages                       | ≥65        | 45–64    | 25–44    | 1-24        | <1     | Total            | Reporting area                     | Ages                       | ≥65       | 45–64              | 25–44      | 1-24           | <1     | Total            |
| New England                       | 505                        | 326        | 136      | 35       | 2           | 6      | 43               | S. Atlantic                        | 1,421                      | 879       | 371                | 102        | 33             | 36     | 96               |
| Boston, MA<br>Bridgeport, CT      | 122<br>24                  | 63<br>19   | 39<br>3  | 16<br>2  | 1           | 3      | 9<br>2           | Atlanta, GA<br>Baltimore, MD       | 163<br>237                 | 93<br>129 | 39<br>76           | 20<br>22   | 6<br>3         | 5<br>7 | 5<br>34          |
| Cambridge, MA                     | 14                         | 19         | 4        | _        | _           | _      | 1                | Charlotte, NC                      | 122                        | 76        | 31                 | 12         | 2              | 1      | 12               |
| Fall River, MA                    | 28                         | 18         | 10       | _        |             | _      | i                | Jacksonville, FL                   | 171                        | 114       | 45                 | 4          | 5              | 3      | 9                |
| Hartford, CT                      | 47                         | 39         | 8        | _        | _           | _      | 3                | Miami, FL                          | 146                        | 101       | 27                 | 11         | 5              | 2      | 5                |
| Lowell, MA                        | 26                         | 17         | 7        | 2        | _           | _      | 3                | Norfolk, VA                        | 51                         | 33        | 15                 | 1          | 1              | 1      | 4                |
| Lynn, MA                          | 11                         | 6          | 5        | _        | _           | _      | 3                | Richmond, VA                       | 74                         | 46        | 19                 | 6          | 2              | 1      | 3                |
| New Bedford, MA                   | 19                         | 15         | 4        | _        | _           | _      | 2                | Savannah, GA                       | 58                         | 44        | 13                 | 1          | _              | _      | 3                |
| New Haven, CT                     | 22                         | 14         | 6        | 2        | _           | _      | 2                | St. Petersburg, FL                 | 65                         | 37        | 21                 | 5          | _              | 2      | 6                |
| Providence, RI                    | 64                         | 42         | 16       | 4        | 1           | 1      | 5                | Tampa, FL                          | 214                        | 132       | 51                 | 16         | 5<br>4         | 10     | 10               |
| Somerville, MA<br>Springfield, MA | 2<br>39                    | 1<br>22    | —<br>14  | 1<br>3   | _           | _      | _<br>1           | Washington, D.C.<br>Wilmington, DE | 112<br>8                   | 68<br>6   | 32<br>2            | 4          | <del>-</del> 4 | 4      | 2                |
| Waterbury, CT                     | 34                         | 22         | 9        | 3        |             | _      | 2                | E.S. Central                       | 962                        | 588       | 250                | —<br>76    | 23             | 25     | 78               |
| Worcester, MA                     | 53                         | 38         | 11       | 2        | _           | 2      | 9                | Birmingham, AL                     | 191                        | 116       | 56                 | 13         | 3              | 3      | 11               |
| Mid. Atlantic                     | 1,960                      | 1,373      | 431      | 100      | 31          | 25     | 115              | Chattanooga, TN                    | 88                         | 53        | 24                 | 9          | _              | 2      | 6                |
| Albany, NY                        | 47                         | 35         | 10       | 1        | 1           | _      | 2                | Knoxville, TN                      | 96                         | 72        | 19                 | 4          | 1              | _      | 10               |
| Allentown, PA                     | 24                         | 16         | 7        | 1        | _           | _      | 3                | Lexington, KY                      | 80                         | 44        | 23                 | 10         | 1              | 2      | 7                |
| Buffalo, NY                       | 77                         | 50         | 19       | 5        |             | 3      | 11               | Memphis, TN                        | 190                        | 99        | 49                 | 20         | 9              | 13     | 16               |
| Camden, NJ                        | U<br>15                    | U          | U<br>4   | U        | U           | U      | U                | Mobile, AL                         | 65<br>57                   | 37        | 20                 | 5          | 1              | 2      | 4                |
| Elizabeth, NJ<br>Erie, PA         | 15<br>48                   | 10<br>32   | 4<br>14  | 1<br>1   | 1           | _      | 3<br>4           | Montgomery, AL<br>Nashville, TN    | 57<br>195                  | 41<br>126 | 13<br>46           | 1<br>14    | 2<br>6         | 3      | 5<br>19          |
| Jersey City, NJ                   | 40<br>U                    | 32<br>U    | U<br>U   | Ú        | Ü           | U      | U                | W.S. Central                       | 1,346                      | 835       | 366                | 83         | 32             | 30     | 85               |
| New York City, NY                 | 1,008                      | 713        | 217      | 55       | 14          | 9      | 48               | Austin, TX                         | 87                         | 58        | 16                 | 9          | 2              | 2      | 7                |
| Newark, NJ                        | 31                         | 20         | 6        | 5        | _           | _      | 3                | Baton Rouge, LA                    | 56                         | 41        | 11                 | 4          | _              | _      | _                |
| Paterson, NJ                      | 5                          | 3          | 2        | _        | _           | _      | _                | Corpus Christi, TX                 | 87                         | 56        | 23                 | 5          | 2              | 1      | 7                |
| Philadelphia, PA                  | 398                        | 266        | 99       | 20       | 8           | 5      | 17               | Dallas, TX                         | 187                        | 100       | 62                 | 11         | 6              | 8      | 17               |
| Pittsburgh, PA§                   | 41                         | 30         | 8        | 1        | 2           | _      | 2                | El Paso, TX                        | 128                        | 78        | 39                 | 6          | 3              | 2      | 2                |
| Reading, PA                       | 50                         | 42         | 4        | _        | 2           | 2      | 2                | Fort Worth, TX                     | U                          | U         | U                  | U          | U              | U      | U                |
| Rochester, NY                     | 75                         | 54         | 11       | 3        | 2           | 5      | 7                | Houston, TX                        | 205                        | 120       | 58                 | 10         | 5              | 12     | 14               |
| Schenectady, NY<br>Scranton, PA   | 14<br>26                   | 10<br>20   | 4<br>5   | 1        | _           | _      | 2<br>2           | Little Rock, AR<br>New Orleans, LA | 100<br>U                   | 60<br>U   | 30<br>U            | 10<br>U    | <br>U          | _<br>U | 9<br>U           |
| Syracuse, NY                      | 51                         | 32         | 15       | 3        | _           | 1      | 7                | San Antonio, TX                    | 278                        | 175       | 77                 | 14         | 9              | 3      | 18               |
| Trenton, NJ                       | 25                         | 19         | 4        | 2        |             |        |                  | Shreveport, LA                     | 51                         | 34        | 14                 | 2          | _              | 1      | 6                |
| Utica, NY                         | 11                         | 11         |          | _        | _           | _      | 2                | Tulsa, OK                          | 167                        | 113       | 36                 | 12         | 5              | 1      | 5                |
| Yonkers, NY                       | 14                         | 10         | 2        | 1        | 1           | _      | _                | Mountain                           | 1,123                      | 708       | 288                | 65         | 37             | 25     | 82               |
| E.N. Central                      | 1,924                      | 1,280      | 483      | 88       | 39          | 34     | 146              | Albuquerque, NM                    | 140                        | 94        | 29                 | 8          | 6              | 3      | 14               |
| Akron, OH                         | 60                         | 44         | 14       | 1        | _           | 1      | 7                | Boise, ID                          | 59                         | 38        | 11                 | 6          | 2              | 2      | 5                |
| Canton, OH                        | 40                         | 30         | 9        | 1        | <del></del> | _      | 2                | Colorado Springs, CO               | 89                         | 58        | 24                 | 6          | 1              | _      | 1                |
| Chicago, IL                       | U                          | U          | U        | U        | U           | U      | U                | Denver, CO                         | 81                         | 56        | 18                 | 5          | 1              | 1      | 8                |
| Cincinnati, OH                    | 111                        | 63<br>209  | 32<br>72 | 9        | 4<br>5      | 3<br>4 | 14<br>18         | Las Vegas, NV                      | 279                        | 174       | 79                 | 14<br>2    | 9<br>1         | 3<br>1 | 28               |
| Cleveland, OH<br>Columbus, OH     | 301<br>205                 | 209<br>145 | 72<br>44 | 11<br>10 | 2           | 4      | 22               | Ogden, UT<br>Phoenix, AZ           | 33<br>151                  | 19<br>81  | 10<br>42           | 13         | 10             | 5      | 3<br>7           |
| Dayton, OH                        | 134                        | 85         | 37       | 6        | 2           | 4      | 15               | Pueblo, CO                         | 28                         | 21        | 6                  | _          | 1              | _      | 3                |
| Detroit, MI                       | 188                        | 99         | 69       | 13       | 4           | 3      | 9                | Salt Lake City, UT                 | 115                        | 74        | 28                 | 6          | 3              | 4      | 7                |
| Evansville, IN                    | 52                         | 36         | 14       | 1        | 1           | _      | 2                | Tucson, AZ                         | 148                        | 93        | 41                 | 5          | 3              | 6      | 6                |
| Fort Wayne, IN                    | 77                         | 53         | 20       | 3        | 1           | _      | 2                | Pacific                            | 1,847                      | 1,253     | 419                | 106        | 35             | 33     | 193              |
| Gary, IN                          | 17                         | .7         | 6        | 3        | _           | 1      | _                | Berkeley, CA                       | 14                         | 12        | 2                  | _          | _              | _      | 1                |
| Grand Rapids, MI                  | 60                         | 45         | 11       | 1        | 2           | 1      | 2                | Fresno, CA                         | 140                        | 92        | 30                 | 10         | 3              | 5      | 7                |
| Indianapolis, IN                  | 184                        | 120        | 45       | 10       | 5<br>2      | 4      | 11               | Glendale, CA                       | 31                         | 21        | 9                  | 1          | _              | _      | 8<br>9           |
| Lansing, MI<br>Milwaukee, WI      | 46<br>91                   | 32<br>56   | 10<br>29 | 2<br>1   | 2           | 3      | 4<br>9           | Honolulu, HI<br>Long Beach, CA     | 64<br>73                   | 44<br>44  | 13<br>24           | 4<br>3     | 2              | 1      | 11               |
| Peoria, IL                        | 70                         | 50<br>51   | 13       | 2        | 4           | _      | 7                | Los Angeles, CA                    | 260                        | 160       | 68                 | 20         | 7              | 5      | 34               |
| Rockford, IL                      | 69                         | 45         | 17       | 4        | 1           | 2      | 4                | Pasadena, CA                       | 27                         | 20        | 6                  | 1          |                | _      | 2                |
| South Bend, IN                    | 54                         | 33         | 17       | 3        | _           | 1      | 4                | Portland, OR                       | 140                        | 99        | 31                 | 6          | 1              | 3      | 12               |
| Toledo, OH                        | 102                        | 78         | 13       | 6        | 4           | 1      | 9                | Sacramento, CA                     | 203                        | 147       | 36                 | 13         | 1              | 6      | 26               |
| Youngstown, OH                    | 63                         | 49         | 11       | 1        | _           | 2      | 5                | San Diego, CA                      | 185                        | 128       | 38                 | 8          | 6              | 4      | 18               |
| W.N. Central                      | 650                        | 413        | 153      | 52       | 17          | 14     | 48               | San Francisco, CA                  | 143                        | 89        | 42                 | 10         | 1              | 1      | 13               |
| Des Moines, IA                    | 59                         | 49         | 6        | 2        | 2           | _      | 7                | San Jose, CA                       | 240                        | 178       | 46                 | 6          | 5              | 5      | 32               |
| Duluth, MN                        | 29                         | 19         | 3        | 6        | 1           | _      | _                | Santa Cruz, CA                     | 29                         | 20        | 7                  | 2          | _              | _      | 3                |
| Kansas City, KS                   | 40                         | 25         | 10       | 5        | _           | _      | 2                | Seattle, WA                        | 108                        | 66        | 28                 | 10         | 3              | 1      | 6                |
| Kansas City, MO<br>Lincoln, NE    | 98<br>28                   | 60         | 23<br>6  | 8        | 3           | 4<br>1 | 8<br>1           | Spokane, WA                        | 68<br>122                  | 48<br>85  | 12                 | 6<br>6     | 4              | 2      | 6<br>5           |
| Minneapolis, MN                   | 28<br>63                   | 21<br>38   | 17       | 3        | 1           | 4      | 6                | Tacoma, WA Total <sup>¶</sup>      | 11,738                     | 7,655     | 27<br><b>2,897</b> | <b>707</b> | 249            | 228    | 886              |
| Omaha, NE                         | 81                         | 52         | 20       | 4        | 4           | 1      | 6                | - Ottai                            | 11,730                     | 1,000     | 2,001              |            | 73             |        | 300              |
| St. Louis, MO                     | 105                        | 51         | 34       | 15       | 3           | i      | 2                |                                    |                            |           |                    |            |                |        |                  |
| St. Paul, MN                      | 60                         | 38         | 14       | 3        | 2           | 3      | 3                |                                    |                            |           |                    |            |                |        |                  |
|                                   | 87                         | 60         | 20       | 6        | 1           | _      | 13               |                                    |                            |           |                    |            |                |        |                  |

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.

<sup>§</sup> 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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