



# MMWR™

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### Primary Amebic Meningoencephalitis — Arizona, Florida, and Texas, 2007

Primary amebic meningoencephalitis (PAM) is a rare but nearly always fatal disease caused by infection with *Naegleria fowleri*, a thermophilic, free-living amoeba found in freshwater environments (1,2). Infection results from water containing *N. fowleri* entering the nose, followed by migration of the amoebae to the brain via the olfactory nerve. In 2007, six cases of PAM in the United States were reported to CDC; all six patients died. This report summarizes the investigations of the cases, which occurred in three southern tier states (Arizona, Florida, and Texas) during June–September and presents preliminary results from a review of PAM cases during 1937–2007. Because deaths from PAM often prompt heightened concern about the disease among the public, an updated and consistent approach to *N. fowleri* risk reduction messages, diagnosis and treatment, case reporting, and environmental sampling is needed.

#### Case Reports

**Arizona.** An adolescent boy aged 14 years was hospitalized September 16, 2007, with possible meningitis. His symptoms had begun September 14 with severe headache, stiff neck, and fever. *N. fowleri* was detected in cerebrospinal fluid (CSF). The youth died from PAM on September 17. He had been swimming in a northeastern Arizona lake on September 8 and was observed diving and splashing in shallow water. The water temperature on September 8 was 86.3°F (30.2°C) and the air temperature was 108.0°F (42.2°C).

**Florida.** On June 8, 2007, an adolescent boy aged 14 years was admitted to an emergency department (ED). His symptoms had begun June 6 with a sensation of ear pressure and progressed to severe headache and occasional vomiting the next day. On the day of admission, the youth was unable to walk and was found apneic and pulseless by paramedics. He died shortly after arriving at the ED. A diagno-

sis of PAM was confirmed by examination of postmortem brain tissue on September 7. The youth had access to multiple drainage ditches and canals and to an apartment swimming pool during the 2 weeks before onset of symptoms; no location was conclusively identified as the source of exposure.

On August 6, 2007, a boy aged 11 years was admitted to a hospital with possible bacterial meningitis, headache, fever, nausea, vomiting, and confusion. His symptoms had begun 4 days earlier on August 2, 2007, with headache and a faint rash. Motile amoebae, later identified as *N. fowleri*, were found in CSF samples collected August 7. The same day, the patient was treated with amphotericin B, epinephrine, mannitol, fluconazole, ceftriaxone, azithromycin, and rifampin; however, the boy died August 8. The probable source of exposure was swimming and wakeboarding at a local lake on July 28. On that date, the air temperature was 91.0°F (32.8°C); water temperature was unknown.

On September 2, 2007, a boy aged 10 years was evaluated in a local ED for headache, body aches, high fever, nausea, vomiting, and fainting. His symptoms had begun on August 31 with headache and lethargy. After admission to a hospital, his symptoms rapidly progressed to a fever of 104.0°F (40.0°C), confusion, and abdominal pain. Motile amoebae, later identified as *N. fowleri*, were found in CSF on September 3–4. Amphotericin B, rifampin, azithromycin,

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and fluconazole were administered; however, the boy died September 4. The patient's exposure history included swimming and wakeboarding at a privately owned water sports facility on August 19 and August 26. On the latter date, the water temperature of the lake was 89.0°F (31.7°C), and the air temperature was 94.0°F (34.4°C).

**Texas.** In August 2007, a boy aged 12 years was admitted to a hospital with a 6-day history of fever. His mother reported her son had become disoriented and lethargic. The boy had been attending a summer camp in Central Texas in the weeks preceding his illness and had participated in recreational water activities in a lake cove. During the week before hospitalization, he visited the camp nurse three times, reporting he was "not feeling well." After admission to the hospital, analysis of the boy's CSF indicated opaque appearance, bloody color, a white blood cell count of 1,750 cells/mm<sup>3</sup> (normal: 0–5 cells/mm<sup>3</sup>), red blood cell count of 30,750 cells/mm<sup>3</sup> (normal: 0 cells/mm<sup>3</sup>), a glucose level of 92 mg/dL (normal: 40–70 mg/dL), and a protein level of 88 mg/dL (normal: 15–45 mg/dL). The admitting differential diagnosis included meningitis (bacterial, viral, or amebic), pneumonia, and bacteremia. Amebae, later identified as *N. fowleri*, were observed in CSF. Despite treatment with amphotericin B, rifampin, and azithromycin, the boy died 5 days after admission. Average water temperature of the lake during August 2007 was 84.4°F (29.1°C).

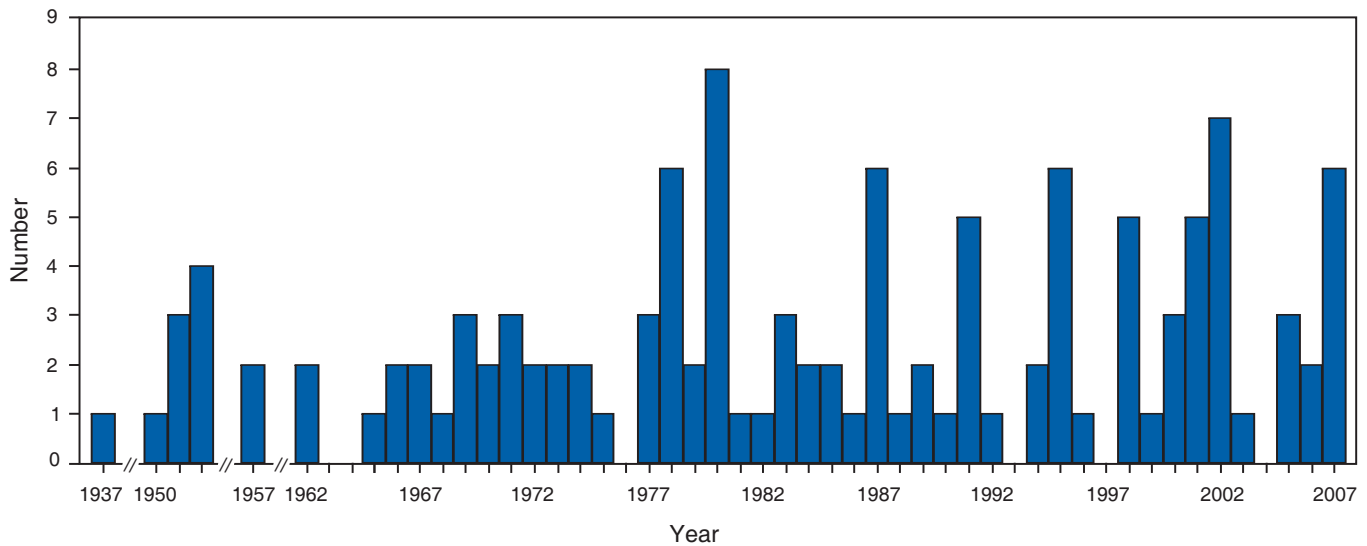
On August 31, 2007, a man aged 22 years was admitted to a hospital with symptoms of photosensitivity, altered mental status, and a severe headache that had begun suddenly 2 days before. The headache was frontal and described as a constant pressure sensation. A computer tomography scan of the head without contrast was interpreted as normal. The admission diagnosis was viral meningitis. Despite intensive treatment, the patient died September 4. *N. fowleri* was detected in postmortem brain specimens. According to acquaintances, the man had sustained a ruptured eardrum after a fall while wakeboarding in the same lake as the other Texas decedent on August 24, 7 days before admission to the hospital.

### Case Review, 1937–2007

In response to the six PAM cases reported in 2007, CDC and the Council of State and Territorial Epidemiologists (CSTE) formed the *Naegleria* Workgroup\* to review future

\*Members include state epidemiologists, clinical microbiologists, public health researchers, environmental health specialists, academic researchers, parasitologists, molecular laboratorians, and personnel from CDC and the U.S. Environmental Protection Agency.

FIGURE. Number\* of identified cases of primary amebic meningoencephalitis (PAM) — United States, 1937–2007



\* N = 121.

**SOURCES:** 1) the Waterborne Disease and Outbreak Surveillance System (collaboratively maintained by CDC, the U.S. Environmental Protection Agency, and the Council of State and Territorial Epidemiologists), which has tracked PAM cases since 1989; 2) the compressed mortality file of the National Vital Statistics System for cases reported during 1979–2007; 3) medical literature review of reported PAM cases, including those identified by retrospective examination of autopsy records; 4) searches of media reports since 1990; and 5) CDC laboratory test results. Results were verified with public health officials from the state of diagnosis, and method of diagnosis was reviewed by the CDC parasitic disease laboratory. Cases were included if laboratory-confirmed detection of *N. fowleri* organisms or nucleic acid was reported in CSF, biopsy, or tissue specimens.

actions related to *N. fowleri* and to determine whether the six cases represented an increase in the annual number of cases. The workgroup used multiple resources to conduct a review of all PAM cases reported in the United States during 1937–2007: 1) the Waterborne Disease and Outbreak Surveillance System,<sup>†</sup> which has tracked PAM cases since 1989; 2) the compressed mortality file of the National Vital Statistics System, searching on *International Classification of Diseases, Ninth Revision* (ICD-9) code 136.2 (specific infections by free-living amebae) and ICD-10 code B60.2 (naegleriasis) for the period 1979–2007; 3) medical literature review of reported PAM cases, including those identified by retrospective examination of autopsy records; 4) searches of media reports since 1990; and 5) CDC laboratory test results. Results were verified with public health officials from the state of diagnosis, and methods of diagnoses were reviewed by the CDC parasitic disease laboratory. Cases were included if laboratory-confirmed detection of *N. fowleri* organisms or nucleic acid was reported in CSF, biopsy, or tissue specimens.

Analyses of the data are still being conducted. Preliminary results indicate that a total of 121 cases (range: 0–8 cases per year) occurred in the United States during 1937–

2007 (Figure). The six cases of PAM reported in 2007 were among the six highest annual totals of cases reported during the study period; the other five highest totals were 1980 (eight cases), 2002 (seven cases), and 1978, 1986, and 1995 (six cases each). During 1937–2007, median age of the patients was 12 years (range: 8 months–66 years). Among the 119 cases for which sex of the patient was known, males accounted for 93 (78%) of the cases. Only one reported survivor met case criteria (3).

Exposure primarily occurred in untreated, warm, freshwater lakes or rivers in 15 southern tier states (Arizona, Arkansas, California, Florida, Georgia, Louisiana, Mississippi, Missouri, Nevada, New Mexico, North Carolina, Oklahoma, South Carolina, Texas, and Virginia); the state of exposure for four cases was unknown. Among the 112 cases for which month of exposure was known, 95 (85%) occurred during July–September.

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<sup>†</sup> Collaboratively maintained by CDC, the U.S. Environmental Protection Agency, and the Council of State and Territorial Epidemiologists, the Waterborne Disease and Outbreak Surveillance System tracks the occurrences and causes of disease associated with water.

**Editorial Note:** Preliminary results of the review of PAM cases in the United States during 1937–2007 by the CDC/CSTE *Naegleria* Workgroup indicates that PAM is a rare disease that primarily affects young male users of warm recreational freshwaters, during summer months, in southern tier states. Although no estimate is available for the number of persons exposed to warm recreational freshwaters, given the increase in the U.S. population and the likelihood that more persons have been exposed over time, incidence of PAM does not appear to be increasing. Nonetheless, reports of PAM fatalities often prompt heightened public concern about the disease, and state and local health departments face challenges in assessing the risk from PAM and communicating that risk to the public.

In addition to conducting the review of PAM cases, objectives of the *Naegleria* Workgroup are to 1) update PAM risk-communication messages for health-care providers and the public, 2) propose making PAM a nationally notifiable disease, 3) develop a more extensive case-reporting form, and 4) review the role of environmental testing for *N. fowleri*. Although the workgroup continues to address these issues, this report contains its current findings and recommendations.

Because PAM is a rare disease, it does not generate a high index of suspicion among health-care providers. Symptoms of *N. fowleri* infection (Box) are clinically similar to those for bacterial or viral meningitis, further lowering the index of suspicion for PAM and initiation of appropriate diag-

**BOX. General information, clinical features, diagnosis, recommended treatment, and risk reduction measures for primary amebic meningoencephalitis (PAM)**

**General information**

- *Naegleria fowleri*, the thermophilic, free-living amoeba that causes PAM, is common worldwide in warm freshwater bodies, including lakes, ponds, rivers, and hot springs; *N. fowleri* also can be found in improperly cleaned, maintained, or disinfected swimming pools.
- Sampling of warm water lakes in southern tier U.S. states indicates that *N. fowleri* is commonly present in most lakes during the summer.
- Because the location and number of amoebae in the water can vary over time, posting warning signs is unlikely to be an effective way to prevent infections, and such signs might create a misconception that bodies of water without signs are *N. fowleri*-free.
- Information regarding the risks associated with *N. fowleri* infection should be disseminated routinely through public health messages discussing general issues of water safety and risk.
- The *N. fowleri* CDC data collection survey instrument is available at <http://www.cdc.gov/ncidod/dpd/parasites/naegleria>.

**Clinical features of PAM**

- Signs and symptoms are similar to those of bacterial or viral meningitis and include headache, fever, stiff neck, anorexia, vomiting, altered mental status, seizure, and coma.
- Death typically occurs in 3–7 days.
- Autopsy findings show acute hemorrhagic necrosis of olfactory bulbs and cerebral cortex.

**Laboratory diagnosis**

- Visualization of actively moving *N. fowleri* trophozoites in a wet-mount preparation of freshly centrifuged cerebrospinal fluid (CSF) sediment (not previously refrigerated or frozen), or

- Visualization of *N. fowleri* trophozoites in a smear of centrifuged CSF sediment stained with Giemsa-Wright or modified trichrome stains, or
- Visualization of *N. fowleri* trophozoites by indirect fluorescent antibody in slide sections of either hematoxylineosin (H&E)-stained unfixed/frozen brain tissue or H&E-stained fixed brain tissue, or
- Demonstration of *N. fowleri* DNA by polymerase chain reaction from CSF or unfixed brain tissue samples.

**Recommended treatment**

- Recommended therapies include intravenous and intrathecal amphotericin B. Other drugs used include azithromycin, rifampin, and azole drugs.
- Intensive supportive care is required.

**Risk reduction measures**

- The only certain way to prevent *N. fowleri* infections is to refrain from water-related activities. However, some measures that might reduce risk by limiting the chance of contaminated water going up the nose include:
  - Avoid water-related activities in bodies of warm freshwater, hot springs, and thermally polluted water such as water around power plants.
  - Avoid water-related activities in warm fresh water during periods of high water temperature and low water volume.
  - Hold the nose shut or use nose clips during activities in warm fresh water such as lakes, rivers, or hot springs.
  - Avoid digging in or stirring up sediment during water-related activities in shallow, warm freshwater areas.



nostic testing (1,2,4). Making PAM a nationally notifiable condition might improve case detection through increased awareness, reporting, and information about cases. Such information might enable earlier detection of infections, provide insight into the human or environmental determinants of infection, and allow improved assessment of treatment effectiveness.

In the United States, *N. fowleri* is commonly found in warm freshwater environments in southern tier states (5–7). The common finding of these amoebae in the environment makes elimination from natural waters impractical. Because the location and number of amoebae in the water can vary over time, environmental sampling, testing, and posting of warning signs are unlikely to be effective in preventing infections. In addition, warning signs posted on selected lakes might create a misconception that those bodies of water not posted with warnings are free from *N. fowleri*. Recreational water users should always assume a low level of risk is associated with entering all warm freshwaters in southern tier states.

The extremely low incidence of PAM makes epidemiologic study difficult; why certain persons become infected with the amoebae while millions of others exposed to warm recreational freshwaters do not is unknown. Although attempts have been made to determine what concentration of *N. fowleri* in the environment poses an unacceptable risk, how a standard might be set to protect human health and how regulators might measure and enforce such a standard is unclear (8).

Because a low level of risk from PAM likely exists for all users of warm freshwaters during summer to early fall, public health agencies should broadly disseminate evidence-based information on PAM in their recommendations for healthy swimming (Box). The only certain way to prevent *N. fowleri* infection is to refrain from water-related activities. However, although supporting data are absent, risk for infection might be reduced by measures that minimize water entering the nose when using warm freshwater lakes or rivers in southern tier states. Additional information on *N. fowleri* infection is available at <http://www.cdc.gov/ncidod/dpd/parasites/naegleria>.

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## Detection of West Nile Virus in Blood Donations — Puerto Rico, 2007

In the United States, West Nile virus (WNV) was first detected in humans in 1999; it subsequently spread to countries of Central and South America and the Caribbean. WNV is a mosquito-borne virus that produces potentially serious clinical disease, particularly among persons aged  $\geq 50$  years. Transmission by routes other than mosquito bites, including blood transfusion, transplacental infection, organ transplant, and possibly breast milk, also have been reported.\* On July 19, 2007, the American Red Cross in Puerto Rico notified the Puerto Rico Department of Health (PRDH) of three persons whose blood donations were positive for WNV by nucleic acid-amplification test (NAT) screening. These three donors had the first confirmed human WNV infections detected in Puerto Rico. In response, PRDH and CDC conducted in-depth interviews of the blood donors. This report describes these human infections and other recent surveillance for transmission of WNV in Puerto Rico. Detection of WNV infections in human blood donors indicates that heightened clinician awareness, ongoing surveillance, and educational activities are needed to monitor and assess the public health threat posed by WNV in Puerto Rico.

Universal blood donor screening for WNV began in July 2003 at all blood collection agencies (BCAs) in the United States and Puerto Rico. Accepted donors must be healthy and afebrile at the time of donation. Numerous health conditions result in deferral or ineligibility to donate blood. NAT screening for WNV uses pooling of blood donations from multiple donors. Testing of individual samples from positive pools is then used to identify positive donors so their blood can be quarantined and removed from the blood supply.

\* Additional epidemiologic information is available at <http://www.cdc.gov/ncidod/dvbid/westnile/clinicians/epi.htm>.

Three donors positive for WNV were reported to PRDH on July 19, 2007. The next day, PRDH notified BCAs islandwide by letter that WNV-positive blood donors had been identified in Puerto Rico and emphasized the importance of appropriate blood screening in protecting the integrity of the blood supply. The first donor was a woman aged 40 years who donated blood on June 22, 2007. She reported no illness in the 2 weeks before donation. The second donor was a woman aged 33 years who donated blood on July 5, 2007. She reported a headache on the day of donation, but was not febrile and reported no other symptoms. In addition to detection of WNV nucleic acid by NAT, WNV was isolated from this patient's serum. The third WNV-infected donor was a man aged 22 years who donated blood on July 12, 2007. He reported no illness in the 2 weeks before or after donation. None of the three donors reported travel outside of Puerto Rico within 2 weeks before donation. All three lived near San Juan and had not traveled to areas where WNV transmission previously was detected in animals. All three were notified of their positive screening tests. The WNV NAT-positive blood products donated by them were quarantined and not released for transfusion.

Islandwide physician-based passive surveillance for neuroinvasive WNV disease in humans began in 2002. This system has relied on voluntary reporting, specimen collection, and submission to CDC laboratories by clinicians who suspect neuroinvasive illness consistent with possible WNV infection. No human WNV disease has been detected through this passive surveillance system.

WNV transmission among animals in Puerto Rico was reported first in 2004, when a specific antibody was detected in a free-ranging native bird (1) and three asymptomatic, unvaccinated horses (CDC, unpublished data), all in the northeastern area of the island. During 2006–2007, CDC maintained a sentinel chicken surveillance system in northeastern Puerto Rico. In June 2007, specific anti-WNV neutralizing antibodies were detected in these birds, indicating active WNV transmission (2). WNV nucleic acid was detected by polymerase chain reaction (PCR) in mosquitoes in the same area (2). As a result, PRDH and CDC began enhanced surveillance for human WNV disease in the neighboring municipios<sup>†</sup> of Ceiba (where the sentinel chicken seroconversions and WNV-positive mosquitoes were detected), Humacao, Naguabo, and Fajardo. Enhanced surveillance included asking hospitals and clinics in the four municipios to obtain blood samples from local residents with acute febrile disease, with or without

<sup>†</sup> Puerto Rico is divided into 78 municipios, governmental and geographic areas that are similar to counties.

neurologic manifestations. Specimens were submitted to CDC's Dengue Branch for WNV and dengue testing.

During July 1–December 31, 2007, enhanced surveillance generated submission of serum specimens from 1,250 persons for WNV and dengue testing. None of the specimens were positive for WNV by PCR. Reporting of human WNV disease was urged through a physician advisory letter sent to all licensed physicians in Puerto Rico by PRDH. Vector control efforts and advisories for use of repellents and protective clothing already were in effect because of high levels of dengue on the island. In September 2007, WNV infection detected by PCR in postmortem brain tissue taken from an encephalitic horse and by virus isolation from a dead bird confirmed WNV transmission in southwest Puerto Rico.

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**Editorial Note:** In the United States, WNV transmission to humans was detected first in 1999 during an outbreak of encephalitis in New York City (3) and has since been reported in all states except Alaska, Hawaii, and Maine<sup>§</sup>, likely spreading through bird migration (4). WNV was detected first among blood donors in the United States in 2002 (5). In 2001, the first human case of locally acquired WNV disease in the Americas south of the continental United States was reported in the Cayman Islands (6). Since 2001, WNV has been reported in 16 countries in Latin America and the Caribbean<sup>¶</sup> (Table).

Despite the spread of WNV to Latin America and the Caribbean, few cases of human WNV disease have been reported (7), and reports of animal deaths and illness from WNV in those regions have been rare compared with reports from North America (7). Several factors might contribute to this difference. First, the capacity of surveillance systems in Latin America and the Caribbean region to identify WNV disease might differ from those in North America. Second, dengue, caused by a related flavivirus, is endemic in most countries south of the United States, which can make the diagnosis of WNV infections more difficult. Dengue and WNF can have similar signs and symptoms, and the tests for specific antibody to dengue virus and WNV often cross-react (8). Third, previous dengue or other flavivirus infection might confer some degree of immuno-

<sup>§</sup> Map available at <http://www.cdc.gov/ncidod/dvbid/westnile/mapsactivity/surv&control07maps.htm>.

<sup>¶</sup> Latin America refers to the Spanish and Portuguese-speaking countries of Central and South America. The Caribbean refers to Spanish-, English-, French-, and Dutch-speaking islands or countries in the region of the Caribbean Sea.

**TABLE. Initial West Nile virus transmission, by country and estimated year of introduction — Latin America and the Caribbean, 2001–2004**

| Country*              | Estimated year of introduction | Time period of blood sample collection                 | Species in which transmission identified† | Positives in initial report (by PRNT§) | Clinical disease observed¶ |
|-----------------------|--------------------------------|--|---|--|----------------------------|
| Cayman Islands        | 2001                           | August 2001  | Humans                                    | 1                                      | WNND**                     |
| Jamaica               | 2001                           | January–March 2002                                     | Birds                                     | 17                                     | No                         |
| Guadeloupe            | 2001                           | July 2002–January 2003                                 | Horses, chickens                          | 7, 4                                   | No                         |
| Dominican Republic    | 2002                           | November 2002  | Birds                                     | 5                                      | No                         |
| Mexico                | 2002                           | December 2002, July–October 2002, July 2002–March 2003 | Horses, birds                             | 115, 2                                 | Yes††                      |
| Cuba                  | 2003                           | Began 2002   | Horses, humans                            | 4, 3                                   | Yes§§                      |
| El Salvador           | 2003                           | April 2003   | Horses                                    | 10                                     | Yes††                      |
| Bahamas               | 2003                           | July 2003  | Humans                                    | 1 (N/A)                                | WNND                       |
| Guatemala             | 2003                           | September 2003–March 2004                              | Horses                                    | 9                                      | No                         |
| Belize                | 2003                           | October 2003   | Horse                                     | 1 (N/A)                                | Yes                        |
| Cuba (Guantánamo Bay) | 2003                           | January–March 2004                                     | Birds                                     | 2                                      | No                         |
| Puerto Rico           | 2003                           | January–March 2004                                     | Bird, horses                              | 1, 3                                   | No                         |
| Venezuela             | 2004                           | February 2004  | Horses                                    | 34                                     | No                         |
| Colombia              | 2004                           | September–October 2004                                 | Horses                                    | 12                                     | No                         |
| Trinidad              | 2004                           | October 2004   | Birds, horses                             | 2, 8 (N/A)                             | No                         |
| Haiti                 | 2004                           | November–December 2004                                 | Humans                                    | 2                                      | WNF¶¶                      |
| Argentina             | 2004                           | January 2005–June 2006                                 | Birds                                     | 43                                     | No                         |

\* Countries in Latin America and the Caribbean in which detection of WNV has been reported.

† Includes resident species only.

§ PRNT = Plaque reduction neutralization testing; N/A = method not cited.

¶ Observed at time and location collection; no = no signs of illness were observed when the samples were collected.

\*\* West Nile neuroinvasive disease; includes West Nile encephalitis or meningitis or West Nile poliomyelitis and is characterized by headache, high fever, neck stiffness, stupor, disorientation, coma, tremors, convulsions, muscle weakness, or paralysis.

†† Samples collected during or after outbreaks of encephalitis in horses.

§§ Encephalitis in three humans.

¶¶ West Nile fever; symptoms include fever, headache, tiredness, and body aches, occasionally with a skin rash (on the trunk of the body), and swollen lymph glands.

logic cross-protection that could modulate infection with WNV.\*\* Finally, circulation of attenuated viral strains might result in less disease. However, in one study, the only isolate reported to date from the Caribbean had no genetic evidence of attenuation; in another study, only one of nine WNV isolates from Mexico had evidence of attenuation (2,9).

Identification of WNV in animals and subsequently in human blood donations in Puerto Rico suggests that human WNV disease is likely to occur in Puerto Rico. Serosurveys and studies of blood donors in North America and Europe indicate that 70%–80% of people infected with WNV are asymptomatic (10). This proportion might be higher in Latin American and Caribbean populations if other circulating flaviviruses, such as dengue, modify the clinical presentation of WNV illness. WNV should be considered in the differential diagnosis of acute febrile or neurologic illness in residents of and visitors to Puerto Rico. Accurate laboratory diagnosis of WNV infection in Puerto Rico and other areas where flaviviruses are endemic

requires careful evaluation of serologic antibody assays for cross-reactivity, or direct detection of WNV in diagnostic samples using specific nucleic acid detection tests, viral antigen detection, or viral isolation. PRDH and CDC will continue WNV surveillance activities in the 2008 WNV transmission season.

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\*\* Additional information available at [http://www.paho.org/english/dd/pin/ptoday15\\_oct03.htm](http://www.paho.org/english/dd/pin/ptoday15_oct03.htm).



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## Guiding Principles for Development of ACIP Recommendations for Vaccination During Pregnancy and Breastfeeding

The Advisory Committee on Immunization Practices (ACIP) provides advice and guidance regarding effective control of vaccine-preventable diseases, including guidance for special populations that might warrant modification of routine recommendations (1). One such special population is pregnant and breastfeeding women. Formulation of recommendations for vaccination of pregnant and breastfeeding women is challenging because the available scientific evidence needed to guide decisions is limited. To promote use of a consistent process and uniform terminology, the ACIP Workgroup on Vaccines during Pregnancy and Breastfeeding was established in 2007 to develop guiding principles for drafting of ACIP recommendations for vaccination of pregnant and breastfeeding women. Workgroup members included ACIP members, members of professional medical organizations, experts in the field, and CDC consultants.

During April 2007–March 2008, the workgroup reviewed existing policies on use of vaccines in pregnant and breastfeeding women. On the basis of this review, opinions of workgroup members, and feedback from partner organizations, the workgroup prepared the document *Guiding Principles for Development of ACIP Recommendations for Vaccination during Pregnancy and Breastfeeding*, which was approved by ACIP in March 2008. This document provides guidance to help standardize procedures for policy formulation and presentation of the rationale and recommendations for vaccination of pregnant and breastfeeding women. Topics in *Guiding Principles* include 1) guidance for structure of the background section, 2) guidance for structure and language of recommendations, 3) clarification of the definitions of precautions and contraindications in the context of pregnant and breastfeeding women, 4) suggestions for approaches to policy decision-making in the absence of adequate data, and 5) description of a consistent process to gather expert opinion.

These principles will be applied to future ACIP vaccine statements and routine updates of existing statements in which vaccination of pregnant and breastfeeding women is considered. *Guiding Principles* is available at <http://www.cdc.gov/vaccines/recs/acip/downloads/preg-principles05-01-08.pdf>.

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### Notice to Readers

#### Release of Computer-Based Case Study: “*Salmonella* in the Caribbean”

A new computer-based case study, “*Salmonella* in the Caribbean,” is now available from CDC. This self-instructional, interactive exercise is based on an outbreak investigation conducted in Trinidad and Tobago. The study teaches public health practitioners skills in outbreak investigation and allows them to apply and practice those skills. The study also focuses on the role of surveillance in identifying and characterizing public health problems, developing hypotheses about the problems, and monitoring the effectiveness of control measures.

“*Salmonella* in the Caribbean” is the fourth and final case study in the Foodborne Disease Outbreak Investigation Case Study Series. The Foodborne Disease Outbreak Investigation series was created for students familiar with basic epidemiologic and public health concepts. Each case study was developed in collaboration with the original investigators and experts from CDC, the Council of State and Territorial Epidemiologists, the U.S. Department of Agriculture, and the U.S. Food and Drug Administration.

Other case studies in the series include “Botulism in Argentina” (released 2002), “*E. coli* O157:H7 Infection in Michigan” (released 2004), and “Gastroenteritis at a University in Texas” (released 2005). The curriculum provided by these four case studies covers a wide range of outbreak investigation topics. Because these case studies are self-instructional, students can complete them at their own pace and convenience. Students can select which case study activities to undertake and focus on areas most relevant to their learning needs and goals. The computer-based case studies also can be used in the classroom as group exercises, assigned as homework, or given as tests to reinforce concepts covered in class.

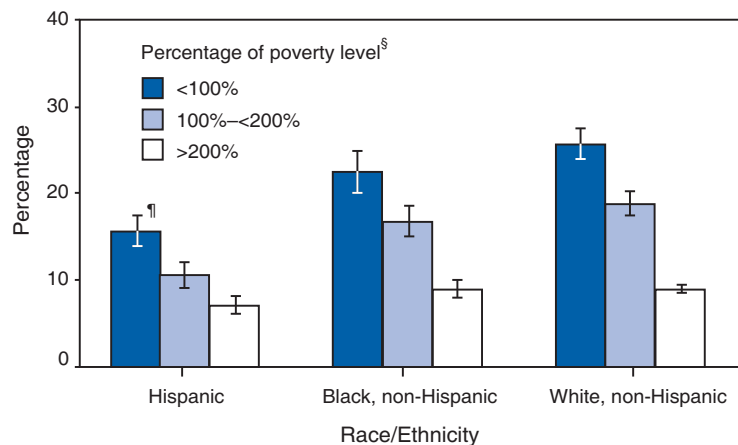
All four case studies can be downloaded at no cost from CDC’s Epidemiologic Case Studies website at <http://www.cdc.gov/epicasestudies>. They also can be purchased from the Public Health Foundation at 1-877-252-1200 or <http://bookstore.phf.org>. Additionally, students can receive continuing education credits (e.g., CEUs, CMEs, CNEs, CHES, and AAVSB-RACE) for completing selected case studies.



## QuickStats

FROM THE NATIONAL CENTER FOR HEALTH STATISTICS

### Percentage of Persons with Activity Limitation Caused by a Chronic Condition,\* by Poverty Level Status and Race/Ethnicity — National Health Interview Survey, United States, 2006†



\* Activity limitation was determined by responses to a series of questions regarding 1) limitations in a person's ability to engage in work, school, play, or other activities because of health reasons; 2) specific conditions causing the limitations; and 3) the duration of the conditions. Those conditions lasting >3 months were classified as chronic; selected conditions (e.g., arthritis, diabetes, cancer, heart conditions) were considered chronic regardless of duration.

† Estimates were based on family interviews of a sample of the civilian, noninstitutionalized U.S. population and age-adjusted to the 2000 standard population using six age groups: <18 years, 18–44 years, 45–54 years, 55–64 years, 65–74 years, and ≥75 years.

§ Poverty level is based on family size and income.

¶ 95% confidence interval.

In 2006, persons with lower family incomes were more likely to report activity limitation because of a chronic condition than persons with higher family incomes. Among persons at the lowest income level, non-Hispanic whites (25.7%) were more likely to report limitations than non-Hispanic blacks (22.5%) and Hispanics (15.7%).

**SOURCES:** National Center for Health Statistics. Health, United States, 2007 with chartbook on trends in the health of Americans. Hyattsville, MD: US Department of Health and Human Services, CDC, National Center for Health Statistics; 2007. Available at <http://www.cdc.gov/nchs/hus.htm>.

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**TABLE I. Provisional cases of infrequently reported notifiable diseases (<1,000 cases reported during the preceding year) — United States, week ending May 24, 2008 (21st Week)\***

| Disease                                      | Current week | Cum 2008 | 5-year weekly average† | Total cases reported for previous years |       |      |      |       | States reporting cases during current week (No.)       |
|--|--------------|----------|------------------------|---|-------|------|------|-------|--|
|  |              |          |                        | 2007                                    | 2006  | 2005 | 2004 | 2003  |  |
| Anthrax                                      | —            | —        | —                      | 1                                       | 1     | —    | —    | —     |  |
| Botulism:                                    |              |          |                        |   |       |      |      |       |  |
| foodborne                                    | —            | 2        | 0                      | 31                                      | 20    | 19   | 16   | 20    |  |
| infant                                       | —            | 29       | 2                      | 87                                      | 97    | 85   | 87   | 76    |  |
| other (wound & unspecified)                  | —            | 3        | 0                      | 25                                      | 48    | 31   | 30   | 33    |  |
| Brucellosis                                  | 1            | 27       | 2                      | 128                                     | 121   | 120  | 114  | 104   | FL (1)   |
| Chancroid                                    | —            | 23       | 0                      | 23                                      | 33    | 17   | 30   | 54    |  |
| Cholera                                      | —            | —        | 0                      | 7                                       | 9     | 8    | 6    | 2     |  |
| Cyclosporiasis§                              | 1            | 27       | 16                     | 93                                      | 137   | 543  | 160  | 75    | FL (1)   |
| Diphtheria                                   | —            | —        | —                      | —                                       | —     | —    | —    | 1     |  |
| Domestic arboviral diseases§¶:               |              |          |                        |   |       |      |      |       |  |
| California serogroup                         | —            | —        | 0                      | 44                                      | 67    | 80   | 112  | 108   |  |
| eastern equine                               | —            | —        | 0                      | 4                                       | 8     | 21   | 6    | 14    |  |
| Powassan                                     | —            | —        | 0                      | 1                                       | 1     | 1    | 1    | —     |  |
| St. Louis                                    | —            | —        | 0                      | 7                                       | 10    | 13   | 12   | 41    |  |
| western equine                               | —            | —        | —                      | —                                       | —     | —    | —    | —     |  |
| Ehrlichiosis/Anaplasmosis§¶¶:                |              |          |                        |   |       |      |      |       |  |
| <i>Ehrlichia chaffeensis</i>                 | 8            | 39       | 8                      | 809                                     | 578   | 506  | 338  | 321   | MD (4), TN (4)   |
| <i>Ehrlichia ewingii</i>                     | —            | —        | —                      | —                                       | —     | —    | —    | —     |  |
| <i>Anaplasma phagocytophilum</i>             | —            | 6        | 9                      | 714                                     | 646   | 786  | 537  | 362   |  |
| undetermined                                 | —            | 2        | 3                      | 136                                     | 231   | 112  | 59   | 44    |  |
| <i>Haemophilus influenzae</i> ††             |              |          |                        |   |       |      |      |       |  |
| invasive disease (age <5 yrs):               |              |          |                        |   |       |      |      |       |  |
| serotype b                                   | —            | 11       | 0                      | 22                                      | 29    | 9    | 19   | 32    |  |
| nonserotype b                                | —            | 69       | 2                      | 185                                     | 175   | 135  | 135  | 117   |  |
| unknown serotype                             | 7            | 100      | 4                      | 181                                     | 179   | 217  | 177  | 227   | NY (2), OH (1), MI (1), MO (1), FL (1), AK (1)         |
| Hansen disease§                              | 1            | 31       | 2                      | 98                                      | 66    | 87   | 105  | 95    | FL (1)   |
| Hantavirus pulmonary syndrome§               | —            | 4        | 1                      | 32                                      | 40    | 26   | 24   | 26    |  |
| Hemolytic uremic syndrome, postdiarrheal§    | —            | 36       | 4                      | 285                                     | 288   | 221  | 200  | 178   |  |
| Hepatitis C viral, acute                     | 18           | 286      | 15                     | 832                                     | 766   | 652  | 720  | 1,102 | OH (2), MN (8), MO (3), MD (1), GA (2), ID (1), NV (1) |
| HIV infection, pediatric (age <13 yrs)§§     | —            | —        | 3                      | —                                       | —     | 380  | 436  | 504   |  |
| Influenza-associated pediatric mortality§¶¶¶ | 3            | 76       | 1                      | 76                                      | 43    | 45   | —    | N     | VT (1), GA (1), TX (1)                                 |
| Listeriosis                                  | 3            | 185      | 11                     | 796                                     | 884   | 896  | 753  | 696   | OH (1), VA (2)   |
| Measles***                                   | —            | 68       | 1                      | 42                                      | 55    | 66   | 37   | 56    |  |
| Meningococcal disease, invasive†††:          |              |          |                        |   |       |      |      |       |  |
| A, C, Y, & W-135                             | 3            | 129      | 5                      | 314                                     | 318   | 297  | —    | —     | NY (1), VA (1), CO (1)                                 |
| serogroup B                                  | 1            | 72       | 3                      | 157                                     | 193   | 156  | —    | —     | ME (1)   |
| other serogroup                              | —            | 15       | 0                      | 32                                      | 32    | 27   | —    | —     |  |
| unknown serogroup                            | 7            | 286      | 14                     | 566                                     | 651   | 765  | —    | —     | NY (1), PA (1), OH (1), MO (1), NE (1), KY (1), NV (1) |
| Mumps  | 2            | 226      | 60                     | 781                                     | 6,584 | 314  | 258  | 231   | MD (1), VA (1)   |
| Novel influenza A virus infections           | —            | —        | —                      | 1                                       | N     | N    | N    | N     |  |
| Plague                                       | —            | 1        | 0                      | 7                                       | 17    | 8    | 3    | 1     |  |
| Poliomyelitis, paralytic                     | —            | —        | —                      | —                                       | —     | 1    | —    | —     |  |
| Poliovirus infection, nonparalytic§          | —            | —        | —                      | —                                       | N     | N    | N    | N     |  |
| Psittacosis§                                 | —            | 2        | 0                      | 10                                      | 21    | 16   | 12   | 12    |  |
| Q fever§,§§§ total:                          | —            | 18       | 4                      | 173                                     | 169   | 136  | 70   | 71    |  |
| acute  | —            | 15       | —                      | —                                       | —     | —    | —    | —     |  |
| chronic                                      | —            | 3        | —                      | —                                       | —     | —    | —    | —     |  |
| Rabies, human                                | —            | —        | —                      | —                                       | 3     | 2    | 7    | 2     |  |
| Rubella¶¶¶                                   | 1            | 5        | 0                      | 12                                      | 11    | 11   | 10   | 7     | FL (1)   |
| Rubella, congenital syndrome                 | —            | —        | —                      | —                                       | 1     | 1    | —    | 1     |  |
| SARS-CoV§,****                               | —            | —        | 0                      | —                                       | —     | —    | —    | 8     |  |

—: No reported cases. N: Not notifiable. Cum: Cumulative year-to-date counts.

\* Incidence data for reporting years 2007 and 2008 are provisional, whereas data for 2003, 2004, 2005, and 2006 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. Additional information is available at <http://www.cdc.gov/epo/dphsi/phs/files/5yearweeklyaverage.pdf>.

§ Not notifiable in all states. Data from states where the condition is not notifiable are excluded from this table, except in 2007 and 2008 for the domestic arboviral diseases and influenza-associated pediatric mortality, and in 2003 for SARS-CoV. Reporting exceptions are available at <http://www.cdc.gov/epo/dphsi/phs/infdis.htm>.

¶ Includes both neuroinvasive and nonneuroinvasive. Updated weekly from reports to the Division of Vector-Borne Infectious Diseases, National Center for Zoonotic, Vector-Borne, and Enteric Diseases (ArboNET Surveillance). Data for West Nile virus are available in Table II.

¶¶ The names of the reporting categories changed in 2008 as a result of revisions to the case definitions. Cases reported prior to 2008 were reported in the categories: Ehrlichiosis, human monocytic (analogous to *E. chaffeensis*); Ehrlichiosis, human granulocytic (analogous to *Anaplasma phagocytophilum*), and Ehrlichiosis, unspecified, or other agent (which included cases unable to be clearly placed in other categories, as well as possible cases of *E. ewingii*).

†† Data for *H. influenzae* (all ages, all serotypes) are available in Table II.

§§ Updated monthly from reports to the Division of HIV/AIDS Prevention, National Center for HIV/AIDS, Viral Hepatitis, STD, and TB Prevention. Implementation of HIV reporting influences the number of cases reported. Updates of pediatric HIV data have been temporarily suspended until upgrading of the national HIV/AIDS surveillance data management system is completed. Data for HIV/AIDS, when available, are displayed in Table IV, which appears quarterly.

¶¶¶ Updated weekly from reports to the Influenza Division, National Center for Immunization and Respiratory Diseases. Seventy-five cases occurring during the 2007–08 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.

§§§ 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.

¶¶¶¶ The one rubella case reported for the current week was indigenous.

\*\*\*\* Updated weekly from reports to the Division of Viral and Rickettsial Diseases, National Center for Zoonotic, Vector-Borne, and Enteric Diseases.

**TABLE I. (Continued) Provisional cases of infrequently reported notifiable diseases (<1,000 cases reported during the preceding year) — United States, week ending May 24, 2008 (21st Week)\***

| Disease  | Current week | Cum 2008 | 5-year weekly average† | Total cases reported for previous years |      |      |      |      | States reporting cases during current week (No.) |
|--|--------------|----------|------------------------|---|------|------|------|------|--|
|  |              |          |                        | 2007                                    | 2006 | 2005 | 2004 | 2003 |  |
| Smallpox§  | —            | —        | —                      | —                                       | —    | —    | —    | —    |  |
| Streptococcal toxic-shock syndrome§                      | 1            | 58       | 3                      | 130                                     | 125  | 129  | 132  | 161  | CT (1)   |
| Syphilis, congenital (age <1 yr)                         | —            | 47       | 8                      | 383                                     | 349  | 329  | 353  | 413  |  |
| Tetanus  | —            | 2        | 1                      | 26                                      | 41   | 27   | 34   | 20   |  |
| Toxic-shock syndrome (staphylococcal)§                   | 1            | 23       | 2                      | 86                                      | 101  | 90   | 95   | 133  | CO (1)   |
| Trichinellosis   | —            | 2        | 0                      | 6                                       | 15   | 16   | 5    | 6    |  |
| Tularemia  | 2            | 12       | 3                      | 128                                     | 95   | 154  | 134  | 129  | MO (1), VA (1)                                   |
| Typhoid fever  | 3            | 138      | 6                      | 418                                     | 353  | 324  | 322  | 356  | PA (1), MD (1), FL (1)                           |
| Vancomycin-intermediate <i>Staphylococcus aureus</i> §   | —            | 3        | 0                      | 28                                      | 6    | 2    | —    | N    |  |
| Vancomycin-resistant <i>Staphylococcus aureus</i> §      | —            | —        | 0                      | 2                                       | 1    | 3    | 1    | N    |  |
| Vibriosis (noncholera <i>Vibrio</i> species infections)§ | 2            | 55       | 2                      | 380                                     | N    | N    | N    | N    | FL (2)   |
| Yellow fever   | —            | —        | —                      | —                                       | —    | —    | —    | —    |  |

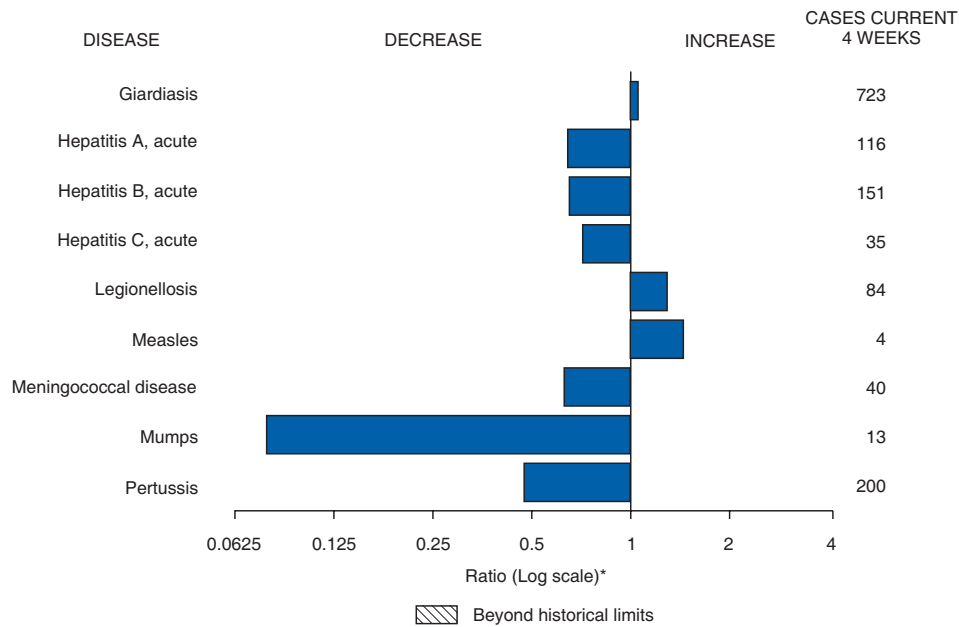
—: No reported cases. N: Not notifiable. Cum: Cumulative year-to-date counts.

\* Incidence data for reporting years 2007 and 2008 are provisional, whereas data for 2003, 2004, 2005, and 2006 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. Additional information is available at <http://www.cdc.gov/epo/dphsi/phs/files/5yearweeklyaverage.pdf>.

§ Not notifiable in all states. Data from states where the condition is not notifiable are excluded from this table, except in 2007 and 2008 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>.

**FIGURE I. Selected notifiable disease reports, United States, comparison of provisional 4-week totals May 24, 2008, with historical data**



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

**Notifiable Disease Data Team and 122 Cities Mortality Data Team**  
 Patsy A. Hall  
 Deborah A. Adams      Rosaline Dhara  
 Willie J. Anderson      Carol Worsham  
 Lenee Blanton      Pearl C. Sharp

**TABLE II. Provisional cases of selected notifiable diseases, United States, weeks ending May 24, 2008, and May 26, 2007 (21st Week)\***

| Reporting area              | Chlamydia <sup>†</sup> |                   |        |          |          | Coccidioidomycosis |                   |     |          |          | Cryptosporidiosis |                   |     |          |          |
|-----------------------------|------------------------|-------------------|--------|----------|----------|--------------------|-------------------|-----|----------|----------|-------------------|-------------------|-----|----------|----------|
|                             | Current week           | Previous 52 weeks |        | Cum 2008 | Cum 2007 | Current week       | Previous 52 weeks |     | Cum 2008 | Cum 2007 | Current week      | Previous 52 weeks |     | Cum 2008 | Cum 2007 |
|                             |                        | Med               | Max    |          |          |                    | Med               | Max |          |          |                   | Med               | Max |          |          |
| <b>United States</b>        | 9,710                  | 21,473            | 24,740 | 409,279  | 438,778  | 77                 | 128               | 341 | 2,632    | 3,033    | 36                | 88                | 974 | 1,285    | 1,180    |
| <b>New England</b>          | 492                    | 694               | 1,516  | 13,703   | 13,878   | —                  | 0                 | 1   | 1        | 1        | —                 | 5                 | 16  | 85       | 108      |
| Connecticut                 | 216                    | 214               | 1,093  | 3,788    | 3,765    | N                  | 0                 | 0   | N        | N        | —                 | 0                 | 11  | 11       | 42       |
| Maine <sup>§</sup>          | —                      | 49                | 67     | 941      | 1,045    | N                  | 0                 | 0   | N        | N        | —                 | 1                 | 6   | 7        | 10       |
| Massachusetts               | 239                    | 311               | 660    | 6,942    | 6,465    | N                  | 0                 | 0   | N        | N        | —                 | 2                 | 11  | 30       | 28       |
| New Hampshire               | 24                     | 39                | 73     | 792      | 794      | —                  | 0                 | 1   | 1        | 1        | —                 | 1                 | 5   | 17       | 15       |
| Rhode Island <sup>§</sup>   | —                      | 61                | 98     | 1,180    | 1,378    | —                  | 0                 | 0   | —        | —        | —                 | 0                 | 3   | 3        | 4        |
| Vermont <sup>§</sup>        | 13                     | 15                | 34     | 60       | 431      | N                  | 0                 | 0   | N        | N        | —                 | 1                 | 4   | 17       | 9        |
| <b>Mid. Atlantic</b>        | 2,859                  | 2,729             | 4,869  | 58,015   | 57,446   | —                  | 0                 | 0   | —        | —        | 5                 | 13                | 120 | 176      | 141      |
| New Jersey                  | 152                    | 406               | 520    | 7,268    | 8,714    | N                  | 0                 | 0   | N        | N        | —                 | 1                 | 8   | 10       | 9        |
| New York (Upstate)          | 645                    | 556               | 2,044  | 10,765   | 10,342   | N                  | 0                 | 0   | N        | N        | 1                 | 4                 | 20  | 52       | 42       |
| New York City               | 1,440                  | 951               | 3,166  | 23,338   | 20,512   | N                  | 0                 | 0   | N        | N        | —                 | 2                 | 10  | 28       | 31       |
| Pennsylvania                | 622                    | 796               | 1,029  | 16,644   | 17,878   | N                  | 0                 | 0   | N        | N        | 4                 | 6                 | 103 | 86       | 59       |
| <b>E.N. Central</b>         | 1,011                  | 3,455             | 4,370  | 66,176   | 73,032   | —                  | 1                 | 3   | 17       | 14       | 8                 | 21                | 134 | 302      | 266      |
| Illinois                    | 2                      | 1,014             | 1,711  | 16,834   | 20,512   | N                  | 0                 | 0   | N        | N        | —                 | 2                 | 13  | 26       | 33       |
| Indiana                     | —                      | 383               | 655    | 7,842    | 8,587    | N                  | 0                 | 0   | N        | N        | —                 | 2                 | 41  | 44       | 15       |
| Michigan                    | 876                    | 765               | 1,215  | 18,820   | 15,867   | —                  | 0                 | 2   | 12       | 11       | —                 | 4                 | 11  | 68       | 59       |
| Ohio                        | 60                     | 858               | 1,529  | 15,293   | 20,089   | —                  | 0                 | 1   | 5        | 3        | 5                 | 5                 | 60  | 86       | 74       |
| Wisconsin                   | 73                     | 376               | 613    | 7,387    | 7,977    | N                  | 0                 | 0   | N        | N        | 3                 | 8                 | 59  | 78       | 85       |
| <b>W.N. Central</b>         | 311                    | 1,221             | 1,694  | 24,231   | 25,376   | —                  | 0                 | 77  | —        | 3        | 3                 | 17                | 125 | 228      | 166      |
| Iowa                        | —                      | 160               | 251    | 3,312    | 3,534    | N                  | 0                 | 0   | N        | N        | —                 | 4                 | 61  | 46       | 29       |
| Kansas                      | 218                    | 158               | 529    | 3,719    | 3,281    | N                  | 0                 | 0   | N        | N        | —                 | 1                 | 16  | 19       | 24       |
| Minnesota                   | —                      | 250               | 335    | 4,811    | 5,517    | —                  | 0                 | 77  | —        | —        | —                 | 4                 | 34  | 59       | 37       |
| Missouri                    | —                      | 464               | 551    | 8,881    | 9,265    | —                  | 0                 | 1   | —        | 3        | 2                 | 2                 | 14  | 49       | 34       |
| Nebraska <sup>§</sup>       | 43                     | 92                | 162    | 1,715    | 2,083    | N                  | 0                 | 0   | N        | N        | 1                 | 3                 | 24  | 38       | 8        |
| North Dakota                | —                      | 33                | 66     | 668      | 700      | N                  | 0                 | 0   | N        | N        | —                 | 0                 | 6   | 1        | 1        |
| South Dakota                | 50                     | 53                | 81     | 1,125    | 996      | N                  | 0                 | 0   | N        | N        | —                 | 2                 | 16  | 16       | 33       |
| <b>S. Atlantic</b>          | 2,669                  | 3,930             | 7,499  | 74,439   | 85,202   | —                  | 0                 | 1   | 2        | 2        | 11                | 20                | 65  | 261      | 274      |
| Delaware                    | 42                     | 65                | 144    | 1,457    | 1,354    | —                  | 0                 | 0   | —        | —        | —                 | 0                 | 4   | 6        | 2        |
| District of Columbia        | —                      | 115               | 200    | 2,370    | 2,450    | —                  | 0                 | 1   | —        | —        | —                 | 0                 | 2   | 2        | 4        |
| Florida                     | 1,091                  | 1,290             | 1,543  | 27,501   | 20,369   | N                  | 0                 | 0   | N        | N        | 4                 | 9                 | 35  | 128      | 127      |
| Georgia                     | 2                      | 684               | 1,514  | 1,708    | 17,713   | N                  | 0                 | 0   | N        | N        | 5                 | 4                 | 14  | 79       | 59       |
| Maryland <sup>§</sup>       | 464                    | 474               | 683    | 9,153    | 7,814    | —                  | 0                 | 1   | 2        | 2        | 2                 | 0                 | 3   | 5        | 11       |
| North Carolina              | —                      | 206               | 4,656  | 8,330    | 12,646   | N                  | 0                 | 0   | N        | N        | —                 | 1                 | 18  | 9        | 25       |
| South Carolina <sup>§</sup> | 430                    | 474               | 3,345  | 10,561   | 11,297   | N                  | 0                 | 0   | N        | N        | —                 | 1                 | 15  | 12       | 20       |
| Virginia <sup>§</sup>       | 631                    | 485               | 1,061  | 12,105   | 10,282   | N                  | 0                 | 0   | N        | N        | —                 | 1                 | 6   | 14       | 23       |
| West Virginia               | 9                      | 63                | 96     | 1,254    | 1,277    | N                  | 0                 | 0   | N        | N        | —                 | 0                 | 5   | 6        | 3        |
| <b>E.S. Central</b>         | 798                    | 1,493             | 2,394  | 30,408   | 34,238   | —                  | 0                 | 0   | —        | —        | —                 | 4                 | 64  | 42       | 53       |
| Alabama <sup>§</sup>        | 14                     | 481               | 605    | 8,454    | 10,313   | N                  | 0                 | 0   | N        | N        | —                 | 1                 | 14  | 17       | 21       |
| Kentucky                    | 361                    | 211               | 304    | 4,427    | 3,118    | N                  | 0                 | 0   | N        | N        | —                 | 1                 | 40  | 7        | 15       |
| Mississippi                 | —                      | 290               | 1,048  | 6,413    | 9,237    | N                  | 0                 | 0   | N        | N        | —                 | 1                 | 11  | 3        | 9        |
| Tennessee <sup>§</sup>      | 423                    | 518               | 715    | 11,114   | 11,570   | N                  | 0                 | 0   | N        | N        | —                 | 1                 | 18  | 15       | 8        |
| <b>W.S. Central</b>         | 857                    | 2,689             | 4,425  | 56,582   | 47,945   | —                  | 0                 | 1   | 1        | —        | 1                 | 6                 | 28  | 62       | 60       |
| Arkansas <sup>§</sup>       | 274                    | 224               | 455    | 5,710    | 3,628    | N                  | 0                 | 0   | N        | N        | —                 | 0                 | 8   | 9        | 4        |
| Louisiana                   | 387                    | 375               | 851    | 6,920    | 7,794    | —                  | 0                 | 1   | 1        | —        | —                 | 0                 | 4   | 3        | 19       |
| Oklahoma                    | 196                    | 242               | 416    | 4,897    | 5,153    | N                  | 0                 | 0   | N        | N        | 1                 | 1                 | 11  | 17       | 15       |
| Texas <sup>§</sup>          | —                      | 1,795             | 3,922  | 39,055   | 31,370   | N                  | 0                 | 0   | N        | N        | —                 | 3                 | 16  | 33       | 22       |
| <b>Mountain</b>             | 419                    | 1,394             | 1,838  | 23,680   | 29,803   | 77                 | 89                | 170 | 1,823    | 1,970    | 7                 | 9                 | 567 | 106      | 82       |
| Arizona                     | 42                     | 468               | 679    | 8,089    | 9,581    | 75                 | 84                | 168 | 1,782    | 1,912    | 1                 | 1                 | 4   | 13       | 18       |
| Colorado                    | 56                     | 319               | 488    | 4,842    | 7,259    | N                  | 0                 | 0   | N        | N        | 4                 | 2                 | 26  | 28       | 22       |
| Idaho <sup>§</sup>          | 129                    | 55                | 233    | 1,446    | 1,626    | N                  | 0                 | 0   | N        | N        | —                 | 2                 | 71  | 21       | 5        |
| Montana <sup>§</sup>        | 29                     | 49                | 363    | 1,185    | 1,123    | N                  | 0                 | 0   | N        | N        | 2                 | 1                 | 7   | 13       | 4        |
| Nevada <sup>§</sup>         | 163                    | 185               | 403    | 3,887    | 3,704    | 2                  | 1                 | 7   | 26       | 20       | —                 | 0                 | 6   | 3        | 4        |
| New Mexico <sup>§</sup>     | —                      | 148               | 562    | 2,016    | 3,940    | —                  | 0                 | 3   | 12       | 15       | —                 | 2                 | 9   | 13       | 20       |
| Utah                        | —                      | 119               | 216    | 2,204    | 2,085    | —                  | 0                 | 7   | 3        | 23       | —                 | 1                 | 484 | 9        | 2        |
| Wyoming <sup>§</sup>        | —                      | 17                | 34     | 11       | 485      | —                  | 0                 | 1   | —        | —        | —                 | 0                 | 8   | 6        | 7        |
| <b>Pacific</b>              | 294                    | 3,376             | 4,677  | 62,045   | 71,858   | —                  | 34                | 217 | 788      | 1,043    | 1                 | 2                 | 20  | 23       | 30       |
| Alaska                      | 68                     | 91                | 126    | 1,677    | 1,988    | N                  | 0                 | 0   | N        | N        | —                 | 0                 | 2   | 1        | —        |
| California                  | —                      | 2,767             | 4,115  | 53,930   | 56,384   | —                  | 34                | 217 | 788      | 1,043    | —                 | 0                 | 0   | —        | —        |
| Hawaii                      | —                      | 111               | 152    | 2,106    | 2,315    | N                  | 0                 | 0   | N        | N        | —                 | 0                 | 4   | 1        | —        |
| Oregon <sup>§</sup>         | 226                    | 189               | 402    | 4,219    | 3,818    | N                  | 0                 | 0   | N        | N        | 1                 | 2                 | 16  | 21       | 30       |
| Washington                  | —                      | 299               | 659    | 113      | 7,353    | N                  | 0                 | 0   | N        | N        | —                 | 0                 | 0   | —        | —        |
| American Samoa              | —                      | 0                 | 32     | 62       | 41       | N                  | 0                 | 0   | N        | N        | N                 | 0                 | 0   | N        | N        |
| C.N.M.I.                    | —                      | —                 | —      | —        | —        | —                  | —                 | —   | —        | —        | —                 | —                 | —   | —        | —        |
| Guam                        | —                      | 5                 | 26     | 57       | 347      | —                  | 0                 | 0   | —        | —        | —                 | 0                 | 0   | —        | —        |
| Puerto Rico                 | 110                    | 111               | 612    | 2,774    | 3,260    | N                  | 0                 | 0   | N        | N        | N                 | 0                 | 0   | N        | N        |
| U.S. Virgin Islands         | —                      | 4                 | 21     | 82       | —        | —                  | 0                 | 0   | —        | —        | —                 | 0                 | 0   | —        | —        |

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

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

\* Incidence data for reporting years 2007 and 2008 are 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 May 24, 2008, and May 26, 2007 (21st Week)\*

| Reporting area              | Giardiasis   |                   |       |          |          | Gonorrhea    |                   |       |          |          | <i>Haemophilus influenzae</i> , invasive<br>All ages, all serotypes† |                   |     |          |          |
|-----------------------------|--------------|-------------------|-------|----------|----------|--------------|-------------------|-------|----------|----------|--|-------------------|-----|----------|----------|
|                             | Current week | Previous 52 weeks |       | Cum 2008 | Cum 2007 | Current week | Previous 52 weeks |       | Cum 2008 | Cum 2007 | Current week   | Previous 52 weeks |     | Cum 2008 | Cum 2007 |
|                             |              | Med               | Max   |          |          |              | Med               | Max   |          |          |  | Med               | Max |          |          |
| <b>United States</b>        | 146          | 293               | 1,594 | 5,314    | 5,663    | 2,453        | 6,528             | 7,983 | 114,477  | 140,181  | 46   | 44                | 161 | 1,190    | 1,097    |
| <b>New England</b>          | 1            | 23                | 55    | 407      | 431      | 109          | 103               | 227   | 1,963    | 2,173    | 8  | 3                 | 10  | 68       | 76       |
| Connecticut                 | —            | 6                 | 18    | 110      | 118      | 54           | 46                | 199   | 818      | 767      | 8  | 0                 | 9   | 14       | 19       |
| Maine <sup>§</sup>          | —            | 3                 | 10    | 41       | 51       | —            | 2                 | 7     | 33       | 43       | —  | 0                 | 4   | 5        | 6        |
| Massachusetts               | —            | 9                 | 29    | 155      | 191      | 49           | 48                | 127   | 929      | 1,082    | —  | 1                 | 6   | 35       | 40       |
| New Hampshire               | 1            | 1                 | 4     | 32       | 6        | 3            | 2                 | 6     | 51       | 62       | —  | 0                 | 2   | 5        | 8        |
| Rhode Island <sup>§</sup>   | —            | 1                 | 15    | 25       | 22       | —            | 6                 | 13    | 127      | 196      | —  | 0                 | 2   | 4        | 3        |
| Vermont <sup>§</sup>        | —            | 3                 | 9     | 44       | 43       | 3            | 1                 | 5     | 5        | 23       | —  | 0                 | 2   | 5        | —        |
| <b>Mid. Atlantic</b>        | 36           | 61                | 120   | 1,031    | 1,048    | 549          | 644               | 1,004 | 12,475   | 14,535   | 6  | 9                 | 29  | 222      | 228      |
| New Jersey                  | —            | 7                 | 15    | 130      | 135      | 11           | 114               | 175   | 2,050    | 2,478    | —  | 1                 | 7   | 32       | 37       |
| New York (Upstate)          | 24           | 23                | 100   | 383      | 348      | 102          | 134               | 518   | 2,434    | 2,340    | 4  | 2                 | 20  | 63       | 60       |
| New York City               | 2            | 16                | 29    | 260      | 341      | 265          | 181               | 526   | 3,681    | 4,356    | —  | 1                 | 6   | 39       | 45       |
| Pennsylvania                | 10           | 14                | 30    | 258      | 224      | 171          | 227               | 394   | 4,310    | 5,361    | 2  | 3                 | 9   | 88       | 86       |
| <b>E.N. Central</b>         | 23           | 44                | 90    | 777      | 927      | 310          | 1,341             | 1,735 | 23,301   | 29,125   | 5  | 6                 | 24  | 161      | 144      |
| Illinois                    | —            | 13                | 33    | 172      | 266      | —            | 393               | 589   | 5,263    | 7,277    | —  | 2                 | 7   | 42       | 54       |
| Indiana                     | N            | 0                 | 0     | N        | N        | —            | 158               | 311   | 3,186    | 3,429    | —  | 1                 | 20  | 37       | 20       |
| Michigan                    | 1            | 10                | 22    | 161      | 255      | 276          | 302               | 654   | 7,072    | 6,370    | 1  | 0                 | 3   | 8        | 12       |
| Ohio                        | 18           | 16                | 36    | 320      | 270      | 18           | 344               | 685   | 5,609    | 9,279    | 4  | 2                 | 6   | 67       | 51       |
| Wisconsin                   | 4            | 6                 | 21    | 124      | 136      | 16           | 121               | 214   | 2,171    | 2,770    | —  | 0                 | 4   | 7        | 7        |
| <b>W.N. Central</b>         | 12           | 27                | 583   | 607      | 355      | 56           | 347               | 440   | 6,081    | 8,046    | 4  | 3                 | 24  | 92       | 60       |
| Iowa                        | —            | 5                 | 23    | 95       | 78       | —            | 31                | 56    | 522      | 801      | —  | 0                 | 1   | 2        | 1        |
| Kansas                      | —            | 3                 | 11    | 54       | 46       | 43           | 44                | 130   | 911      | 930      | —  | 0                 | 2   | 8        | 6        |
| Minnesota                   | —            | 0                 | 575   | 191      | 6        | —            | 62                | 92    | 1,132    | 1,414    | —  | 0                 | 21  | 17       | 22       |
| Missouri                    | 4            | 9                 | 23    | 162      | 152      | —            | 178               | 235   | 2,859    | 4,197    | 2  | 1                 | 6   | 44       | 23       |
| Nebraska <sup>§</sup>       | 7            | 4                 | 8     | 74       | 43       | 9            | 26                | 51    | 515      | 551      | 1  | 0                 | 3   | 15       | 7        |
| North Dakota                | 1            | 0                 | 3     | 11       | 7        | —            | 2                 | 6     | 40       | 43       | 1  | 0                 | 2   | 6        | 1        |
| South Dakota                | —            | 1                 | 6     | 20       | 23       | 4            | 5                 | 10    | 102      | 110      | —  | 0                 | 0   | —        | —        |
| <b>S. Atlantic</b>          | 52           | 54                | 102   | 855      | 1,046    | 702          | 1,470             | 2,540 | 25,463   | 33,048   | 14   | 11                | 30  | 321      | 282      |
| Delaware                    | —            | 1                 | 6     | 15       | 13       | 19           | 23                | 44    | 477      | 543      | —  | 0                 | 1   | 3        | 5        |
| District of Columbia        | —            | 1                 | 5     | 18       | 43       | —            | 46                | 99    | 897      | 946      | —  | 0                 | 1   | 4        | 3        |
| Florida                     | 27           | 22                | 47    | 442      | 456      | 322          | 474               | 616   | 9,408    | 8,672    | 8  | 3                 | 10  | 87       | 76       |
| Georgia                     | 20           | 11                | 25    | 153      | 213      | 6            | 282               | 626   | 694      | 7,216    | 1  | 2                 | 9   | 73       | 63       |
| Maryland <sup>§</sup>       | —            | 5                 | 18    | 73       | 95       | 94           | 129               | 237   | 2,405    | 2,397    | 2  | 1                 | 5   | 52       | 49       |
| North Carolina              | N            | 0                 | 0     | N        | N        | —            | 133               | 1,825 | 3,664    | 6,426    | —  | 0                 | 9   | 30       | 33       |
| South Carolina <sup>§</sup> | 2            | 3                 | 7     | 42       | 30       | 116          | 191               | 840   | 3,799    | 4,038    | 1  | 1                 | 6   | 24       | 26       |
| Virginia <sup>§</sup>       | 3            | 8                 | 39    | 93       | 184      | 144          | 132               | 485   | 3,823    | 2,464    | 2  | 1                 | 23  | 40       | 19       |
| West Virginia               | —            | 0                 | 8     | 19       | 12       | 1            | 17                | 38    | 296      | 346      | —  | 0                 | 3   | 8        | 8        |
| <b>E.S. Central</b>         | 2            | 10                | 23    | 143      | 177      | 291          | 568               | 945   | 11,036   | 12,807   | 1  | 3                 | 8   | 63       | 60       |
| Alabama <sup>§</sup>        | 1            | 5                 | 11    | 76       | 91       | 11           | 203               | 287   | 3,430    | 4,388    | —  | 0                 | 2   | 8        | 14       |
| Kentucky                    | N            | 0                 | 0     | N        | N        | 138          | 80                | 161   | 1,699    | 1,107    | —  | 0                 | 1   | 1        | 3        |
| Mississippi                 | N            | 0                 | 0     | N        | N        | —            | 122               | 401   | 2,446    | 3,345    | —  | 0                 | 2   | 9        | 4        |
| Tennessee <sup>§</sup>      | 1            | 4                 | 16    | 67       | 86       | 142          | 174               | 261   | 3,461    | 3,967    | 1  | 2                 | 6   | 45       | 39       |
| <b>W.S. Central</b>         | 6            | 6                 | 34    | 80       | 118      | 331          | 1,029             | 1,355 | 19,232   | 19,691   | 3  | 2                 | 22  | 59       | 46       |
| Arkansas <sup>§</sup>       | 2            | 2                 | 9     | 39       | 49       | 101          | 77                | 138   | 1,793    | 1,675    | —  | 0                 | 3   | 3        | 3        |
| Louisiana                   | —            | 1                 | 14    | 11       | 34       | 164          | 186               | 384   | 3,190    | 4,566    | —  | 0                 | 2   | 3        | 5        |
| Oklahoma                    | 4            | 3                 | 29    | 30       | 35       | 66           | 93                | 171   | 1,803    | 2,031    | 3  | 1                 | 14  | 49       | 35       |
| Texas <sup>§</sup>          | N            | 0                 | 0     | N        | N        | —            | 646               | 1,102 | 12,446   | 11,419   | —  | 0                 | 3   | 4        | 3        |
| <b>Mountain</b>             | 12           | 32                | 67    | 428      | 532      | 84           | 250               | 337   | 4,119    | 5,358    | 3  | 5                 | 14  | 154      | 133      |
| Arizona                     | 1            | 3                 | 11    | 38       | 75       | 6            | 90                | 130   | 1,257    | 2,031    | 2  | 2                 | 11  | 72       | 56       |
| Colorado                    | 6            | 11                | 26    | 179      | 172      | 44           | 61                | 91    | 1,160    | 1,351    | —  | 1                 | 4   | 26       | 31       |
| Idaho <sup>§</sup>          | 1            | 3                 | 19    | 47       | 43       | 7            | 4                 | 19    | 63       | 107      | —  | 0                 | 4   | 6        | 4        |
| Montana <sup>§</sup>        | 1            | 2                 | 8     | 24       | 30       | 1            | 1                 | 48    | 39       | 41       | —  | 0                 | 1   | 1        | —        |
| Nevada <sup>§</sup>         | 3            | 3                 | 8     | 40       | 52       | 26           | 46                | 126   | 1,002    | 859      | 1  | 0                 | 1   | 9        | 6        |
| New Mexico <sup>§</sup>     | —            | 2                 | 5     | 25       | 48       | —            | 28                | 105   | 376      | 629      | —  | 1                 | 4   | 16       | 19       |
| Utah                        | —            | 7                 | 32    | 64       | 98       | —            | 13                | 39    | 222      | 315      | —  | 1                 | 6   | 24       | 15       |
| Wyoming <sup>§</sup>        | —            | 1                 | 3     | 11       | 14       | —            | 1                 | 5     | —        | 25       | —  | 0                 | 1   | —        | 2        |
| <b>Pacific</b>              | 2            | 54                | 688   | 986      | 1,029    | 21           | 662               | 810   | 10,807   | 15,398   | 2  | 2                 | 10  | 50       | 68       |
| Alaska                      | —            | 2                 | 5     | 28       | 21       | 7            | 11                | 24    | 175      | 200      | 1  | 0                 | 4   | 9        | 5        |
| California                  | —            | 41                | 91    | 685      | 816      | —            | 562               | 683   | 9,874    | 12,965   | —  | 0                 | 4   | 6        | 23       |
| Hawaii                      | —            | 1                 | 5     | 12       | 33       | —            | 11                | 23    | 206      | 292      | —  | 0                 | 1   | 7        | 3        |
| Oregon <sup>§</sup>         | 2            | 9                 | 19    | 168      | 156      | 14           | 24                | 63    | 535      | 442      | 1  | 1                 | 4   | 26       | 37       |
| Washington                  | —            | 0                 | 590   | 93       | 3        | —            | 55                | 142   | 17       | 1,499    | —  | 0                 | 6   | 2        | —        |
| American Samoa              | —            | 0                 | 0     | —        | —        | —            | 0                 | 1     | 2        | 2        | —  | 0                 | 0   | —        | —        |
| C.N.M.I.                    | —            | —                 | —     | —        | —        | —            | —                 | —     | —        | —        | —  | —                 | —   | —        | —        |
| Guam                        | —            | 0                 | 1     | —        | 1        | —            | 1                 | 9     | 19       | 50       | —  | 0                 | 1   | —        | —        |
| Puerto Rico                 | —            | 4                 | 31    | 24       | 110      | 8            | 5                 | 23    | 105      | 137      | —  | 0                 | 1   | —        | 1        |
| U.S. Virgin Islands         | —            | 0                 | 0     | —        | —        | —            | 1                 | 4     | 38       | 22       | N  | 0                 | 0   | N        | N        |

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

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

\* Incidence data for reporting years 2007 and 2008 are provisional.

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

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

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending May 24, 2008, and May 26, 2007 (21st Week)\*

| Reporting area       | Hepatitis (viral, acute), by type† |                   |     |          |          |              |                   |     |          |          | Legionellosis |                   |     |          |          |
|----------------------|------------------------------------|-------------------|-----|----------|----------|--------------|-------------------|-----|----------|----------|---------------|-------------------|-----|----------|----------|
|                      | A                                  |                   |     |          |          | B            |                   |     |          |          |               |                   |     |          |          |
|                      | Current week                       | Previous 52 weeks |     | Cum 2008 | Cum 2007 | Current week | Previous 52 weeks |     | Cum 2008 | Cum 2007 | Current week  | Previous 52 weeks |     | Cum 2008 | Cum 2007 |
|                      | Med                                | Max               |     |          |          | Med          | Max               |     |          |          | Med           | Max               |     |          |          |
| <b>United States</b> | 20                                 | 52                | 207 | 960      | 1,069    | 28           | 79                | 300 | 1,246    | 1,669    | 20            | 48                | 123 | 658      | 604      |
| <b>New England</b>   | —                                  | 2                 | 6   | 42       | 38       | —            | 1                 | 5   | 18       | 32       | 1             | 2                 | 14  | 28       | 33       |
| Connecticut          | —                                  | 0                 | 3   | 10       | 8        | —            | 0                 | 5   | 7        | 19       | 1             | 1                 | 4   | 8        | 4        |
| Maine§               | —                                  | 0                 | 1   | 2        | —        | —            | 0                 | 2   | 5        | 2        | —             | 0                 | 2   | 1        | —        |
| Massachusetts        | —                                  | 1                 | 5   | 18       | 14       | —            | 0                 | 1   | 3        | 2        | —             | 0                 | 2   | 1        | 16       |
| New Hampshire        | —                                  | 0                 | 1   | 2        | 9        | —            | 0                 | 1   | 1        | 4        | —             | 0                 | 2   | 3        | —        |
| Rhode Island§        | —                                  | 0                 | 2   | 9        | 6        | —            | 0                 | 3   | 1        | 4        | —             | 0                 | 5   | 11       | 12       |
| Vermont§             | —                                  | 0                 | 1   | 1        | 1        | —            | 0                 | 1   | 1        | 1        | —             | 0                 | 2   | 4        | 1        |
| <b>Mid. Atlantic</b> | 1                                  | 9                 | 21  | 111      | 171      | 3            | 9                 | 17  | 151      | 245      | 8             | 14                | 37  | 150      | 154      |
| New Jersey           | —                                  | 1                 | 6   | 20       | 54       | —            | 2                 | 7   | 35       | 75       | —             | 1                 | 13  | 14       | 22       |
| New York (Upstate)   | —                                  | 1                 | 6   | 28       | 30       | 1            | 2                 | 7   | 29       | 34       | 1             | 4                 | 15  | 42       | 45       |
| New York City        | —                                  | 2                 | 9   | 31       | 57       | —            | 2                 | 7   | 22       | 54       | —             | 2                 | 11  | 15       | 34       |
| Pennsylvania         | 1                                  | 2                 | 6   | 32       | 30       | 2            | 3                 | 8   | 65       | 82       | 7             | 5                 | 21  | 79       | 53       |
| <b>E.N. Central</b>  | —                                  | 6                 | 13  | 118      | 116      | 4            | 8                 | 15  | 131      | 211      | 2             | 11                | 30  | 144      | 139      |
| Illinois             | —                                  | 2                 | 6   | 31       | 52       | —            | 1                 | 5   | 25       | 66       | —             | 2                 | 12  | 18       | 31       |
| Indiana              | —                                  | 0                 | 4   | 6        | 4        | —            | 0                 | 8   | 11       | 14       | —             | 1                 | 7   | 10       | 9        |
| Michigan             | —                                  | 2                 | 7   | 55       | 26       | 2            | 2                 | 6   | 47       | 55       | —             | 3                 | 11  | 42       | 42       |
| Ohio                 | —                                  | 1                 | 3   | 16       | 26       | 2            | 2                 | 6   | 45       | 62       | 2             | 4                 | 17  | 70       | 48       |
| Wisconsin            | —                                  | 0                 | 2   | 10       | 8        | —            | 0                 | 1   | 3        | 14       | —             | 0                 | 1   | 4        | 9        |
| <b>W.N. Central</b>  | 7                                  | 4                 | 24  | 140      | 63       | 2            | 2                 | 7   | 35       | 44       | 1             | 2                 | 9   | 32       | 22       |
| Iowa                 | —                                  | 1                 | 7   | 56       | 14       | —            | 0                 | 2   | 7        | 12       | —             | 0                 | 2   | 6        | 3        |
| Kansas               | —                                  | 0                 | 3   | 10       | 2        | —            | 0                 | 2   | 4        | 4        | —             | 0                 | 1   | 1        | 1        |
| Minnesota            | 5                                  | 0                 | 23  | 15       | 33       | 2            | 0                 | 5   | 3        | 4        | —             | 0                 | 6   | 3        | 4        |
| Missouri             | 2                                  | 1                 | 3   | 22       | 5        | —            | 1                 | 4   | 18       | 16       | 1             | 1                 | 3   | 12       | 10       |
| Nebraska§            | —                                  | 1                 | 5   | 35       | 5        | —            | 0                 | 1   | 3        | 5        | —             | 0                 | 2   | 9        | 3        |
| North Dakota         | —                                  | 0                 | 0   | —        | —        | —            | 0                 | 1   | —        | —        | —             | 0                 | 0   | —        | —        |
| South Dakota         | —                                  | 0                 | 1   | 2        | 4        | —            | 0                 | 2   | —        | 3        | —             | 0                 | 1   | 1        | 1        |
| <b>S. Atlantic</b>   | 6                                  | 9                 | 22  | 131      | 189      | 9            | 17                | 58  | 337      | 423      | 4             | 8                 | 28  | 130      | 134      |
| Delaware             | —                                  | 0                 | 1   | 2        | 2        | —            | 0                 | 3   | 5        | 6        | —             | 0                 | 2   | 2        | 1        |
| District of Columbia | —                                  | 0                 | 0   | —        | 13       | —            | 0                 | 0   | —        | 1        | —             | 0                 | 2   | 3        | 5        |
| Florida              | 3                                  | 2                 | 8   | 64       | 56       | 5            | 6                 | 12  | 142      | 139      | 2             | 3                 | 10  | 59       | 56       |
| Georgia              | 3                                  | 1                 | 5   | 17       | 32       | 1            | 2                 | 8   | 41       | 54       | —             | 1                 | 3   | 10       | 17       |
| Maryland§            | —                                  | 1                 | 4   | 16       | 33       | —            | 2                 | 6   | 28       | 46       | 2             | 2                 | 5   | 26       | 25       |
| North Carolina       | —                                  | 0                 | 9   | 9        | 7        | —            | 0                 | 17  | 42       | 56       | —             | 0                 | 7   | 8        | 13       |
| South Carolina§      | —                                  | 0                 | 4   | 6        | 4        | —            | 1                 | 6   | 24       | 31       | —             | 0                 | 2   | 2        | 5        |
| Virginia§            | —                                  | 1                 | 5   | 15       | 40       | 3            | 2                 | 16  | 41       | 70       | —             | 1                 | 6   | 17       | 9        |
| West Virginia        | —                                  | 0                 | 2   | 2        | 2        | —            | 0                 | 30  | 14       | 20       | —             | 0                 | 3   | 3        | 3        |
| <b>E.S. Central</b>  | 3                                  | 2                 | 5   | 21       | 36       | 1            | 8                 | 15  | 129      | 124      | 1             | 2                 | 5   | 30       | 34       |
| Alabama§             | —                                  | 0                 | 4   | 3        | 8        | —            | 2                 | 6   | 37       | 46       | —             | 0                 | 1   | 4        | 4        |
| Kentucky             | 2                                  | 0                 | 2   | 10       | 5        | —            | 2                 | 7   | 37       | 15       | —             | 1                 | 3   | 15       | 13       |
| Mississippi          | —                                  | 0                 | 1   | —        | 6        | —            | 0                 | 3   | 12       | 10       | —             | 0                 | 0   | —        | —        |
| Tennessee§           | 1                                  | 1                 | 3   | 8        | 17       | 1            | 3                 | 8   | 43       | 53       | 1             | 1                 | 3   | 11       | 17       |
| <b>W.S. Central</b>  | —                                  | 5                 | 46  | 65       | 86       | 7            | 17                | 121 | 253      | 316      | —             | 2                 | 16  | 18       | 28       |
| Arkansas§            | —                                  | 0                 | 1   | 2        | 5        | —            | 1                 | 3   | 14       | 30       | —             | 0                 | 3   | 2        | 2        |
| Louisiana            | —                                  | 0                 | 3   | 4        | 17       | —            | 1                 | 6   | 14       | 37       | —             | 0                 | 2   | —        | 1        |
| Oklahoma             | —                                  | 0                 | 8   | 4        | 3        | 3            | 2                 | 38  | 32       | 13       | —             | 0                 | 2   | 1        | —        |
| Texas§               | —                                  | 4                 | 45  | 55       | 61       | 4            | 12                | 97  | 193      | 236      | —             | 2                 | 14  | 15       | 25       |
| <b>Mountain</b>      | 3                                  | 4                 | 10  | 85       | 111      | 2            | 3                 | 7   | 58       | 97       | 3             | 2                 | 6   | 33       | 27       |
| Arizona              | 1                                  | 2                 | 7   | 33       | 83       | —            | 1                 | 4   | 13       | 45       | 2             | 1                 | 5   | 11       | 6        |
| Colorado             | 1                                  | 0                 | 3   | 18       | 13       | 2            | 0                 | 3   | 10       | 16       | —             | 0                 | 2   | 3        | 6        |
| Idaho§               | —                                  | 0                 | 3   | 13       | 2        | —            | 0                 | 2   | 4        | 4        | —             | 0                 | 1   | 1        | 2        |
| Montana§             | —                                  | 0                 | 2   | —        | 2        | —            | 0                 | 1   | —        | —        | —             | 0                 | 1   | 2        | 1        |
| Nevada§              | 1                                  | 0                 | 1   | 3        | 7        | —            | 1                 | 3   | 17       | 24       | 1             | 0                 | 2   | 6        | 3        |
| New Mexico§          | —                                  | 0                 | 3   | 14       | 1        | —            | 0                 | 2   | 6        | 5        | —             | 0                 | 1   | 3        | 2        |
| Utah                 | —                                  | 0                 | 2   | 2        | 2        | —            | 0                 | 2   | 7        | 3        | —             | 0                 | 3   | 7        | 4        |
| Wyoming§             | —                                  | 0                 | 1   | 2        | 1        | —            | 0                 | 1   | 1        | —        | —             | 0                 | 0   | —        | 3        |
| <b>Pacific</b>       | —                                  | 12                | 103 | 247      | 259      | —            | 8                 | 84  | 134      | 177      | —             | 3                 | 38  | 93       | 33       |
| Alaska               | —                                  | 0                 | 1   | 2        | 2        | —            | 0                 | 2   | 6        | 3        | —             | 0                 | 1   | 1        | —        |
| California           | —                                  | 11                | 42  | 203      | 243      | —            | 6                 | 19  | 94       | 145      | —             | 3                 | 14  | 76       | 29       |
| Hawaii               | —                                  | 0                 | 2   | 3        | 3        | —            | 0                 | 2   | 3        | 5        | —             | 0                 | 1   | 4        | 1        |
| Oregon§              | —                                  | 1                 | 3   | 16       | 11       | —            | 1                 | 3   | 15       | 23       | —             | 0                 | 2   | 6        | 2        |
| Washington           | —                                  | 0                 | 59  | 23       | —        | —            | 0                 | 64  | 16       | 1        | —             | 0                 | 23  | 6        | 1        |
| American Samoa       | —                                  | 0                 | 0   | —        | —        | —            | 0                 | 0   | —        | 14       | N             | 0                 | 0   | N        | N        |
| C.N.M.I.             | —                                  | —                 | —   | —        | —        | —            | —                 | —   | —        | —        | —             | —                 | —   | —        | —        |
| Guam                 | —                                  | 0                 | 0   | —        | —        | —            | 0                 | 1   | —        | 2        | —             | 0                 | 0   | —        | —        |
| Puerto Rico          | —                                  | 0                 | 4   | 6        | 35       | —            | 1                 | 5   | 15       | 27       | —             | 0                 | 1   | —        | 3        |
| U.S. Virgin Islands  | —                                  | 0                 | 0   | —        | —        | —            | 0                 | 0   | —        | —        | —             | 0                 | 0   | —        | —        |

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

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

\* Incidence data for reporting years 2007 and 2008 are 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 May 24, 2008, and May 26, 2007 (21st Week)\*

| Reporting area       | Lyme disease |                   |       |          |          | Malaria      |                   |     |          |          | Meningococcal disease, invasive†<br>All serogroups |                   |     |          |          |
|----------------------|--------------|-------------------|-------|----------|----------|--------------|-------------------|-----|----------|----------|--|-------------------|-----|----------|----------|
|                      | Current week | Previous 52 weeks |       | Cum 2008 | Cum 2007 | Current week | Previous 52 weeks |     | Cum 2008 | Cum 2007 | Current week                                       | Previous 52 weeks |     | Cum 2008 | Cum 2007 |
|                      |              | Med               | Max   |          |          |              | Med               | Max |          |          |  | Med               | Max |          |          |
| <b>United States</b> | 77           | 320               | 1,329 | 2,120    | 3,541    | 6            | 24                | 156 | 271      | 391      | 11   | 17                | 71  | 502      | 509      |
| <b>New England</b>   | 3            | 44                | 301   | 122      | 348      | —            | 1                 | 34  | 3        | 18       | 1  | 1                 | 3   | 16       | 24       |
| Connecticut          | —            | 11                | 214   | —        | 78       | —            | 0                 | 26  | —        | —        | —  | 0                 | 1   | 1        | 4        |
| Maine§               | —            | 6                 | 61    | 33       | 25       | —            | 0                 | 2   | —        | 3        | 1  | 0                 | 1   | 3        | 4        |
| Massachusetts        | —            | 0                 | 31    | 25       | 109      | —            | 0                 | 3   | 2        | 14       | —  | 0                 | 3   | 12       | 12       |
| New Hampshire        | 2            | 7                 | 88    | 54       | 122      | —            | 0                 | 4   | 1        | 1        | —  | 0                 | 0   | —        | 1        |
| Rhode Island§        | —            | 0                 | 77    | —        | —        | —            | 0                 | 8   | —        | —        | —  | 0                 | 1   | —        | 1        |
| Vermont§             | 1            | 1                 | 13    | 10       | 14       | —            | 0                 | 2   | —        | —        | —  | 0                 | 1   | —        | 2        |
| <b>Mid. Atlantic</b> | 50           | 174               | 692   | 1,170    | 1,732    | 1            | 7                 | 18  | 59       | 110      | 3  | 2                 | 6   | 55       | 60       |
| New Jersey           | —            | 35                | 220   | 238      | 660      | —            | 0                 | 7   | —        | 25       | —  | 0                 | 1   | 1        | 8        |
| New York (Upstate)   | 25           | 54                | 224   | 236      | 291      | 1            | 1                 | 8   | 10       | 18       | 2  | 0                 | 3   | 18       | 15       |
| New York City        | —            | 4                 | 27    | 4        | 67       | —            | 4                 | 9   | 38       | 58       | —  | 0                 | 3   | 9        | 17       |
| Pennsylvania         | 25           | 52                | 326   | 692      | 714      | —            | 1                 | 4   | 11       | 9        | 1  | 1                 | 5   | 27       | 20       |
| <b>E.N. Central</b>  | —            | 5                 | 169   | 28       | 250      | —            | 2                 | 7   | 43       | 55       | 1  | 3                 | 9   | 85       | 80       |
| Illinois             | —            | 0                 | 16    | 2        | 17       | —            | 1                 | 6   | 20       | 28       | —  | 1                 | 3   | 26       | 29       |
| Indiana              | —            | 0                 | 7     | 1        | 4        | —            | 0                 | 2   | 1        | 2        | —  | 0                 | 4   | 13       | 13       |
| Michigan             | —            | 0                 | 5     | 7        | 8        | —            | 0                 | 2   | 6        | 7        | —  | 0                 | 2   | 13       | 12       |
| Ohio                 | —            | 0                 | 4     | 5        | 4        | —            | 0                 | 3   | 13       | 11       | 1  | 1                 | 4   | 24       | 18       |
| Wisconsin            | —            | 4                 | 149   | 13       | 217      | —            | 0                 | 1   | 3        | 7        | —  | 0                 | 2   | 9        | 8        |
| <b>W.N. Central</b>  | 4            | 3                 | 731   | 70       | 81       | —            | 0                 | 8   | 21       | 19       | 2  | 2                 | 8   | 52       | 31       |
| Iowa                 | —            | 1                 | 11    | 6        | 32       | —            | 0                 | 1   | 2        | 2        | —  | 0                 | 3   | 11       | 7        |
| Kansas               | —            | 0                 | 1     | 2        | 6        | —            | 0                 | 1   | 3        | 1        | —  | 0                 | 1   | 1        | 2        |
| Minnesota            | 3            | 0                 | 731   | 54       | 41       | —            | 0                 | 8   | 6        | 11       | —  | 0                 | 7   | 15       | 9        |
| Missouri             | 1            | 0                 | 4     | 6        | 1        | —            | 0                 | 4   | 6        | 2        | 1  | 0                 | 3   | 14       | 8        |
| Nebraska§            | —            | 0                 | 1     | 1        | 1        | —            | 0                 | 2   | 4        | 2        | 1  | 0                 | 2   | 9        | 2        |
| North Dakota         | —            | 0                 | 2     | —        | —        | —            | 0                 | 1   | —        | —        | —  | 0                 | 1   | 1        | 2        |
| South Dakota         | —            | 0                 | 1     | 1        | —        | —            | 0                 | 0   | —        | 1        | —  | 0                 | 1   | 1        | 1        |
| <b>S. Atlantic</b>   | 15           | 60                | 221   | 628      | 1,056    | 5            | 5                 | 15  | 70       | 78       | 1  | 3                 | 7   | 67       | 72       |
| Delaware             | 12           | 12                | 34    | 205      | 214      | —            | 0                 | 1   | 1        | 2        | —  | 0                 | 1   | —        | —        |
| District of Columbia | —            | 2                 | 9     | 30       | 37       | —            | 0                 | 1   | —        | 3        | —  | 0                 | 0   | —        | —        |
| Florida              | 1            | 0                 | 4     | 9        | 2        | 3            | 1                 | 7   | 24       | 17       | —  | 1                 | 5   | 25       | 26       |
| Georgia              | —            | 0                 | 3     | 1        | 1        | 2            | 1                 | 3   | 13       | 9        | —  | 0                 | 3   | 8        | 8        |
| Maryland§            | —            | 30                | 135   | 290      | 633      | —            | 1                 | 5   | 23       | 21       | —  | 0                 | 2   | 5        | 15       |
| North Carolina       | —            | 0                 | 8     | 2        | 6        | —            | 0                 | 4   | 2        | 7        | —  | 0                 | 4   | 3        | 6        |
| South Carolina§      | —            | 0                 | 4     | 3        | 6        | —            | 0                 | 1   | 2        | 3        | —  | 0                 | 3   | 10       | 7        |
| Virginia§            | 2            | 16                | 68    | 85       | 153      | —            | 1                 | 7   | 5        | 15       | 1  | 0                 | 3   | 14       | 10       |
| West Virginia        | —            | 0                 | 9     | 3        | 4        | —            | 0                 | 1   | —        | 1        | —  | 0                 | 1   | 2        | —        |
| <b>E.S. Central</b>  | 4            | 0                 | 5     | 7        | 15       | —            | 0                 | 3   | 6        | 13       | 1  | 1                 | 4   | 28       | 30       |
| Alabama§             | —            | 0                 | 3     | 2        | 6        | —            | 0                 | 1   | 3        | 2        | —  | 0                 | 1   | 1        | 7        |
| Kentucky             | —            | 0                 | 2     | 1        | —        | —            | 0                 | 1   | 2        | 3        | 1  | 0                 | 2   | 7        | 5        |
| Mississippi          | —            | 0                 | 1     | —        | —        | —            | 0                 | 1   | —        | 1        | —  | 0                 | 2   | 9        | 7        |
| Tennessee§           | 4            | 0                 | 4     | 4        | 9        | —            | 0                 | 2   | 1        | 7        | —  | 0                 | 2   | 11       | 11       |
| <b>W.S. Central</b>  | —            | 1                 | 9     | 9        | 26       | —            | 1                 | 59  | 12       | 29       | —  | 2                 | 12  | 44       | 57       |
| Arkansas§            | —            | 0                 | 1     | —        | —        | —            | 0                 | 1   | —        | —        | —  | 0                 | 1   | 4        | 7        |
| Louisiana            | —            | 0                 | 0     | —        | 2        | —            | 0                 | 1   | —        | 12       | —  | 0                 | 3   | 12       | 20       |
| Oklahoma             | —            | 0                 | 1     | —        | —        | —            | 0                 | 4   | 2        | 1        | —  | 0                 | 4   | 8        | 11       |
| Texas§               | —            | 1                 | 8     | 9        | 24       | —            | 1                 | 55  | 10       | 16       | —  | 1                 | 7   | 20       | 19       |
| <b>Mountain</b>      | —            | 0                 | 3     | 3        | 9        | —            | 1                 | 5   | 10       | 22       | 2  | 1                 | 4   | 28       | 39       |
| Arizona              | —            | 0                 | 1     | 2        | —        | —            | 0                 | 1   | 3        | 4        | —  | 0                 | 1   | 2        | 9        |
| Colorado             | —            | 0                 | 1     | 1        | —        | —            | 0                 | 2   | 3        | 9        | 1  | 0                 | 2   | 6        | 14       |
| Idaho§               | —            | 0                 | 2     | —        | 2        | —            | 0                 | 2   | —        | —        | —  | 0                 | 2   | 2        | 2        |
| Montana§             | —            | 0                 | 2     | —        | 1        | —            | 0                 | 1   | —        | 2        | —  | 0                 | 1   | 4        | 1        |
| Nevada§              | —            | 0                 | 2     | —        | 6        | —            | 0                 | 3   | 4        | 1        | 1  | 0                 | 2   | 6        | 3        |
| New Mexico§          | —            | 0                 | 2     | —        | —        | —            | 0                 | 1   | —        | 1        | —  | 0                 | 1   | 4        | 1        |
| Utah                 | —            | 0                 | 1     | —        | —        | —            | 0                 | 3   | —        | 5        | —  | 0                 | 2   | 2        | 7        |
| Wyoming§             | —            | 0                 | 1     | —        | —        | —            | 0                 | 0   | —        | —        | —  | 0                 | 1   | 2        | 2        |
| <b>Pacific</b>       | 1            | 2                 | 15    | 83       | 24       | —            | 3                 | 37  | 47       | 47       | —  | 4                 | 39  | 127      | 116      |
| Alaska               | —            | 0                 | 2     | —        | 2        | —            | 0                 | 1   | 1        | 2        | —  | 0                 | 2   | 2        | 1        |
| California           | —            | 2                 | 8     | 79       | 20       | —            | 2                 | 8   | 38       | 34       | —  | 3                 | 17  | 95       | 96       |
| Hawaii               | N            | 0                 | 0     | N        | N        | —            | 0                 | 1   | 1        | 2        | —  | 0                 | 2   | 1        | 4        |
| Oregon§              | 1            | 0                 | 2     | 4        | 2        | —            | 0                 | 2   | 4        | 9        | —  | 1                 | 3   | 17       | 15       |
| Washington           | —            | 0                 | 12    | —        | —        | —            | 0                 | 30  | 3        | —        | —  | 0                 | 28  | 12       | —        |
| American Samoa       | N            | 0                 | 0     | N        | N        | —            | 0                 | 0   | —        | —        | —  | 0                 | 0   | —        | —        |
| C.N.M.I.             | —            | —                 | —     | —        | —        | —            | —                 | —   | —        | —        | —  | —                 | —   | —        | —        |
| Guam                 | —            | 0                 | 0     | —        | —        | —            | 0                 | 1   | —        | —        | —  | 0                 | 0   | —        | —        |
| Puerto Rico          | N            | 0                 | 0     | N        | N        | —            | 0                 | 1   | 1        | 1        | —  | 0                 | 1   | 2        | 5        |
| U.S. Virgin Islands  | N            | 0                 | 0     | N        | N        | —            | 0                 | 0   | —        | —        | —  | 0                 | 0   | —        | —        |

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

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

\* Incidence data for reporting years 2007 and 2008 are provisional.

† Data for meningococcal disease, invasive caused by serogroups A, C, Y, & 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 May 24, 2008, and May 26, 2007 (21st Week)\*

| Reporting area       | Pertussis    |                   |       |          |          | Rabies, animal |                   |     |          |          | Rocky Mountain spotted fever |                   |     |          |          |
|----------------------|--------------|-------------------|-------|----------|----------|----------------|-------------------|-----|----------|----------|------------------------------|-------------------|-----|----------|----------|
|                      | Current week | Previous 52 weeks |       | Cum 2008 | Cum 2007 | Current week   | Previous 52 weeks |     | Cum 2008 | Cum 2007 | Current week                 | Previous 52 weeks |     | Cum 2008 | Cum 2007 |
|                      |              | Med               | Max   |          |          |                | Med               | Max |          |          |                              | Med               | Max |          |          |
| <b>United States</b> | 46           | 154               | 1,126 | 2,390    | 3,599    | 28             | 93                | 177 | 1,400    | 2,264    | 9                            | 30                | 164 | 128      | 365      |
| <b>New England</b>   | —            | 19                | 44    | 264      | 573      | 10             | 8                 | 22  | 122      | 215      | —                            | 0                 | 1   | —        | 3        |
| Connecticut          | —            | 0                 | 5     | —        | 27       | 3              | 4                 | 10  | 62       | 86       | —                            | 0                 | 0   | —        | —        |
| Maine†               | —            | 1                 | 5     | 15       | 34       | 2              | 1                 | 5   | 20       | 34       | N                            | 0                 | 0   | N        | N        |
| Massachusetts        | —            | 13                | 33    | 222      | 457      | N              | 0                 | 0   | N        | N        | —                            | 0                 | 1   | —        | 3        |
| New Hampshire        | —            | 0                 | 3     | 9        | 34       | —              | 1                 | 4   | 14       | 16       | —                            | 0                 | 1   | —        | —        |
| Rhode Island†        | —            | 1                 | 25    | 13       | 3        | N              | 0                 | 0   | N        | N        | —                            | 0                 | 0   | —        | —        |
| Vermont†             | —            | 0                 | 6     | 5        | 18       | 5              | 2                 | 13  | 26       | 79       | —                            | 0                 | 0   | —        | —        |
| <b>Mid. Atlantic</b> | 10           | 22                | 44    | 303      | 502      | 8              | 19                | 29  | 339      | 376      | —                            | 1                 | 5   | 16       | 28       |
| New Jersey           | —            | 3                 | 9     | 3        | 84       | —              | 0                 | 0   | —        | —        | —                            | 0                 | 3   | 2        | 6        |
| New York (Upstate)   | 5            | 7                 | 24    | 111      | 246      | 8              | 9                 | 20  | 145      | 160      | —                            | 0                 | 2   | 5        | —        |
| New York City        | —            | 2                 | 7     | 29       | 53       | —              | 0                 | 2   | 5        | 24       | —                            | 0                 | 2   | 5        | 14       |
| Pennsylvania         | 5            | 8                 | 23    | 160      | 119      | —              | 8                 | 18  | 189      | 192      | —                            | 0                 | 2   | 4        | 8        |
| <b>E.N. Central</b>  | 6            | 21                | 186   | 545      | 704      | 3              | 3                 | 43  | 20       | 19       | —                            | 1                 | 4   | 2        | 16       |
| Illinois             | —            | 2                 | 8     | 39       | 80       | N              | 0                 | 0   | N        | N        | —                            | 0                 | 3   | 1        | 11       |
| Indiana              | —            | 0                 | 12    | 15       | 11       | —              | 0                 | 1   | 1        | 4        | —                            | 0                 | 2   | —        | 1        |
| Michigan             | 1            | 3                 | 16    | 55       | 122      | 3              | 1                 | 32  | 13       | 9        | —                            | 0                 | 1   | —        | 2        |
| Ohio                 | 5            | 10                | 176   | 436      | 327      | —              | 1                 | 11  | 6        | 6        | —                            | 0                 | 2   | 1        | 2        |
| Wisconsin            | —            | 0                 | 14    | —        | 164      | N              | 0                 | 0   | N        | N        | —                            | 0                 | 0   | —        | —        |
| <b>W.N. Central</b>  | 1            | 11                | 136   | 192      | 281      | 4              | 4                 | 13  | 40       | 88       | 4                            | 4                 | 33  | 24       | 61       |
| Iowa                 | —            | 1                 | 8     | 27       | 74       | 3              | 0                 | 3   | 7        | 9        | —                            | 0                 | 4   | —        | 4        |
| Kansas               | —            | 2                 | 5     | 23       | 66       | —              | 0                 | 7   | —        | 50       | —                            | 0                 | 2   | —        | 6        |
| Minnesota            | —            | 0                 | 131   | 20       | 48       | —              | 0                 | 6   | 17       | 6        | —                            | 0                 | 4   | —        | —        |
| Missouri             | —            | 2                 | 18    | 97       | 35       | 1              | 0                 | 3   | 6        | 8        | 4                            | 3                 | 25  | 24       | 47       |
| Nebraska†            | 1            | 1                 | 12    | 22       | 12       | —              | 0                 | 0   | —        | —        | —                            | 0                 | 2   | —        | 3        |
| North Dakota         | —            | 0                 | 4     | —        | 4        | —              | 0                 | 5   | 8        | 6        | —                            | 0                 | 0   | —        | —        |
| South Dakota         | —            | 0                 | 2     | 3        | 42       | —              | 0                 | 2   | 2        | 9        | —                            | 0                 | 1   | —        | 1        |
| <b>S. Atlantic</b>   | 8            | 13                | 50    | 217      | 417      | 3              | 40                | 61  | 725      | 933      | 3                            | 13                | 110 | 48       | 163      |
| Delaware             | 1            | 0                 | 2     | 3        | 3        | —              | 0                 | 0   | —        | —        | —                            | 0                 | 2   | 2        | 7        |
| District of Columbia | —            | 0                 | 1     | 2        | 9        | —              | 0                 | 0   | —        | —        | —                            | 0                 | 2   | 2        | 2        |
| Florida              | 5            | 3                 | 9     | 67       | 100      | —              | 0                 | 25  | 48       | 124      | 1                            | 0                 | 3   | 3        | 3        |
| Georgia              | —            | 0                 | 3     | —        | 18       | —              | 6                 | 17  | 110      | 95       | 1                            | 0                 | 6   | 6        | 19       |
| Maryland†            | —            | 2                 | 6     | 27       | 55       | —              | 9                 | 18  | 128      | 153      | 1                            | 1                 | 6   | 12       | 16       |
| North Carolina       | —            | 0                 | 38    | 59       | 145      | —              | 9                 | 16  | 181      | 196      | —                            | 1                 | 96  | 11       | 90       |
| South Carolina†      | 2            | 1                 | 22    | 24       | 38       | —              | 0                 | 0   | —        | 46       | —                            | 0                 | 7   | 3        | 9        |
| Virginia†            | —            | 2                 | 11    | 33       | 42       | —              | 12                | 27  | 211      | 284      | —                            | 1                 | 10  | 8        | 16       |
| West Virginia        | —            | 0                 | 12    | 2        | 7        | 3              | 0                 | 11  | 47       | 35       | —                            | 0                 | 3   | 1        | 1        |
| <b>E.S. Central</b>  | 1            | 7                 | 31    | 81       | 103      | —              | 2                 | 6   | 40       | 64       | 2                            | 3                 | 16  | 20       | 78       |
| Alabama†             | —            | 1                 | 6     | 18       | 31       | —              | 0                 | 0   | —        | —        | —                            | 1                 | 10  | 7        | 20       |
| Kentucky             | 1            | 0                 | 4     | 12       | 10       | —              | 0                 | 3   | 14       | 8        | —                            | 0                 | 2   | —        | 1        |
| Mississippi          | —            | 3                 | 29    | 34       | 18       | —              | 0                 | 1   | 1        | —        | —                            | 0                 | 3   | 1        | 5        |
| Tennessee†           | —            | 1                 | 4     | 17       | 44       | —              | 2                 | 6   | 25       | 56       | 2                            | 1                 | 10  | 12       | 52       |
| <b>W.S. Central</b>  | 11           | 19                | 186   | 187      | 303      | —              | 13                | 40  | 42       | 469      | —                            | 2                 | 122 | 12       | 8        |
| Arkansas†            | —            | 1                 | 17    | 23       | 64       | —              | 1                 | 6   | 26       | 10       | —                            | 0                 | 15  | 1        | —        |
| Louisiana            | —            | 0                 | 2     | 2        | 9        | —              | 0                 | 0   | —        | —        | —                            | 0                 | 2   | 2        | 1        |
| Oklahoma             | 3            | 0                 | 26    | 7        | 1        | —              | 0                 | 32  | 16       | 20       | —                            | 0                 | 101 | 4        | —        |
| Texas†               | 8            | 15                | 170   | 155      | 229      | —              | 12                | 34  | —        | 439      | —                            | 1                 | 8   | 5        | 7        |
| <b>Mountain</b>      | 4            | 19                | 37    | 310      | 498      | —              | 2                 | 8   | 19       | 7        | —                            | 0                 | 4   | 4        | 7        |
| Arizona              | 1            | 2                 | 8     | 44       | 134      | N              | 0                 | 0   | N        | N        | —                            | 0                 | 1   | 2        | 1        |
| Colorado             | 2            | 5                 | 13    | 60       | 125      | —              | 0                 | 0   | —        | —        | —                            | 0                 | 2   | —        | —        |
| Idaho†               | 1            | 0                 | 4     | 18       | 21       | —              | 0                 | 4   | —        | —        | —                            | 0                 | 1   | —        | 1        |
| Montana†             | —            | 1                 | 11    | 56       | 28       | —              | 0                 | 3   | —        | 1        | —                            | 0                 | 1   | 1        | —        |
| Nevada†              | —            | 0                 | 7     | 13       | 15       | —              | 0                 | 2   | 1        | —        | —                            | 0                 | 0   | —        | —        |
| New Mexico†          | —            | 1                 | 7     | 21       | 24       | —              | 0                 | 3   | 14       | 1        | —                            | 0                 | 1   | 1        | 1        |
| Utah                 | —            | 5                 | 27    | 94       | 136      | —              | 0                 | 2   | —        | 2        | —                            | 0                 | 0   | —        | —        |
| Wyoming†             | —            | 0                 | 2     | 4        | 15       | —              | 0                 | 4   | 4        | 3        | —                            | 0                 | 2   | —        | 4        |
| <b>Pacific</b>       | 5            | 14                | 616   | 291      | 218      | —              | 4                 | 10  | 53       | 93       | —                            | 0                 | 1   | 2        | 1        |
| Alaska               | 4            | 1                 | 29    | 30       | 14       | —              | 0                 | 3   | 11       | 34       | N                            | 0                 | 0   | N        | N        |
| California           | —            | 8                 | 129   | 105      | 157      | —              | 3                 | 8   | 41       | 58       | —                            | 0                 | 1   | 1        | 1        |
| Hawaii               | —            | 0                 | 2     | 4        | 10       | —              | 0                 | 0   | —        | —        | N                            | 0                 | 0   | N        | N        |
| Oregon†              | 1            | 2                 | 14    | 53       | 37       | —              | 0                 | 3   | 1        | 1        | —                            | 0                 | 1   | 1        | —        |
| Washington           | —            | 0                 | 482   | 99       | —        | —              | 0                 | 0   | —        | —        | N                            | 0                 | 0   | N        | N        |
| American Samoa       | —            | 0                 | 0     | —        | —        | N              | 0                 | 0   | N        | N        | N                            | 0                 | 0   | N        | N        |
| C.N.M.I.             | —            | —                 | —     | —        | —        | —              | —                 | —   | —        | —        | —                            | —                 | —   | —        | —        |
| Guam                 | —            | 0                 | 0     | —        | —        | —              | 0                 | 0   | —        | —        | N                            | 0                 | 0   | N        | N        |
| Puerto Rico          | —            | 0                 | 0     | —        | —        | —              | 1                 | 5   | 26       | 19       | 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 notifiable. Cum: Cumulative year-to-date counts. Med: Median. Max: Maximum.

\* Incidence data for reporting years 2007 and 2008 are 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 May 24, 2008, and May 26, 2007 (21st Week)\*

| Reporting area              | Salmonellosis |                   |       |          |          | Shiga toxin-producing <i>E. coli</i> (STEC) <sup>†</sup> |                   |     |          |          | Shigellosis  |                   |       |          |          |
|-----------------------------|---------------|-------------------|-------|----------|----------|--|-------------------|-----|----------|----------|--------------|-------------------|-------|----------|----------|
|                             | Current week  | Previous 52 weeks |       | Cum 2008 | Cum 2007 | Current week   | Previous 52 weeks |     | Cum 2008 | Cum 2007 | Current week | Previous 52 weeks |       | Cum 2008 | Cum 2007 |
|                             |               | Med               | Max   |          |          |  | Med               | Max |          |          |              | Med               | Max   |          |          |
| <b>United States</b>        | 344           | 833               | 2,662 | 10,405   | 13,124   | 31   | 74                | 244 | 1,114    | 1,014    | 196          | 365               | 1,297 | 5,744    | 5,048    |
| <b>New England</b>          | 1             | 21                | 164   | 464      | 1,000    | —  | 3                 | 13  | 49       | 131      | —            | 3                 | 17    | 58       | 124      |
| Connecticut                 | —             | 0                 | 136   | 431      | 431      | —  | 0                 | 9   | 9        | 71       | —            | 0                 | 16    | 16       | 44       |
| Maine <sup>§</sup>          | 1             | 2                 | 14    | 47       | 42       | —  | 0                 | 4   | 4        | 14       | —            | 0                 | 1     | 2        | 12       |
| Massachusetts               | —             | 15                | 58    | 220      | 420      | —  | 2                 | 10  | 24       | 34       | —            | 2                 | 8     | 33       | 59       |
| New Hampshire               | —             | 2                 | 10    | 23       | 47       | —  | 0                 | 4   | 7        | 8        | —            | 0                 | 1     | 1        | 4        |
| Rhode Island <sup>§</sup>   | —             | 1                 | 13    | 21       | 34       | —  | 0                 | 2   | 3        | 1        | —            | 0                 | 9     | 5        | 4        |
| Vermont <sup>§</sup>        | —             | 1                 | 5     | 17       | 26       | —  | 0                 | 3   | 2        | 3        | —            | 0                 | 1     | 1        | 1        |
| <b>Mid. Atlantic</b>        | 50            | 96                | 190   | 1,290    | 1,837    | 5  | 9                 | 195 | 303      | 124      | 24           | 22                | 79    | 617      | 215      |
| New Jersey                  | —             | 17                | 48    | 172      | 373      | —  | 1                 | 7   | 5        | 32       | —            | 4                 | 14    | 92       | 37       |
| New York (Upstate)          | 27            | 24                | 63    | 355      | 452      | 4  | 3                 | 191 | 268      | 40       | 22           | 5                 | 36    | 199      | 40       |
| New York City               | 4             | 24                | 52    | 354      | 441      | —  | 0                 | 5   | 10       | 13       | 2            | 7                 | 35    | 284      | 109      |
| Pennsylvania                | 19            | 31                | 69    | 409      | 571      | 1  | 2                 | 11  | 20       | 39       | —            | 2                 | 66    | 42       | 29       |
| <b>E.N. Central</b>         | 44            | 86                | 255   | 1,236    | 1,932    | 4  | 8                 | 35  | 105      | 123      | 20           | 61                | 134   | 1,083    | 490      |
| Illinois                    | —             | 26                | 188   | 279      | 683      | —  | 1                 | 13  | 10       | 19       | —            | 16                | 29    | 269      | 216      |
| Indiana                     | —             | 9                 | 34    | 120      | 169      | —  | 1                 | 12  | 9        | 11       | —            | 8                 | 83    | 316      | 23       |
| Michigan                    | 4             | 17                | 43    | 243      | 306      | —  | 2                 | 8   | 23       | 20       | —            | 1                 | 7     | 20       | 18       |
| Ohio                        | 39            | 26                | 65    | 432      | 391      | 3  | 2                 | 9   | 39       | 42       | 14           | 23                | 104   | 310      | 141      |
| Wisconsin                   | 1             | 11                | 29    | 162      | 383      | 1  | 2                 | 11  | 24       | 31       | 6            | 6                 | 20    | 168      | 92       |
| <b>W.N. Central</b>         | 19            | 50                | 95    | 782      | 917      | 5  | 12                | 38  | 136      | 133      | 7            | 24                | 64    | 355      | 872      |
| Iowa                        | —             | 8                 | 18    | 122      | 145      | 2  | 3                 | 13  | 34       | 26       | 2            | 2                 | 6     | 44       | 28       |
| Kansas                      | —             | 6                 | 18    | 80       | 143      | —  | 1                 | 4   | 9        | 14       | —            | 0                 | 3     | 7        | 13       |
| Minnesota                   | —             | 13                | 39    | 213      | 223      | —  | 2                 | 15  | 22       | 48       | —            | 4                 | 11    | 83       | 98       |
| Missouri                    | 13            | 14                | 29    | 224      | 253      | 1  | 3                 | 12  | 47       | 21       | 2            | 13                | 48    | 126      | 697      |
| Nebraska <sup>§</sup>       | 3             | 5                 | 13    | 93       | 73       | 2  | 1                 | 6   | 13       | 19       | —            | 0                 | 3     | —        | 10       |
| North Dakota                | 3             | 0                 | 9     | 16       | 11       | —  | 0                 | 1   | 2        | —        | 3            | 0                 | 5     | 26       | 6        |
| South Dakota                | —             | 2                 | 11    | 34       | 69       | —  | 1                 | 5   | 9        | 5        | —            | 2                 | 30    | 69       | 20       |
| <b>S. Atlantic</b>          | 117           | 230               | 442   | 2,723    | 3,163    | 8  | 12                | 40  | 189      | 192      | 64           | 75                | 149   | 1,195    | 1,748    |
| Delaware                    | —             | 3                 | 8     | 42       | 40       | —  | 0                 | 2   | 5        | 6        | —            | 0                 | 2     | 3        | 4        |
| District of Columbia        | —             | 1                 | 4     | 16       | 28       | —  | 0                 | 1   | 5        | —        | —            | 0                 | 3     | 5        | 9        |
| Florida                     | 67            | 87                | 181   | 1,357    | 1,295    | 6  | 2                 | 18  | 63       | 49       | 15           | 30                | 75    | 382      | 998      |
| Georgia                     | 29            | 33                | 86    | 394      | 489      | —  | 1                 | 6   | 13       | 25       | 26           | 27                | 85    | 464      | 616      |
| Maryland <sup>§</sup>       | 7             | 15                | 44    | 175      | 229      | 1  | 1                 | 5   | 31       | 31       | —            | 2                 | 7     | 21       | 32       |
| North Carolina              | —             | 20                | 228   | 264      | 447      | —  | 1                 | 24  | 18       | 25       | —            | 0                 | 12    | 35       | 25       |
| South Carolina <sup>§</sup> | 7             | 17                | 52    | 232      | 257      | —  | 0                 | 3   | 13       | 5        | 22           | 7                 | 21    | 230      | 28       |
| Virginia <sup>§</sup>       | 7             | 22                | 49    | 190      | 340      | 1  | 3                 | 9   | 33       | 50       | 1            | 4                 | 14    | 52       | 35       |
| West Virginia               | —             | 4                 | 25    | 53       | 38       | —  | 0                 | 3   | 8        | 1        | —            | 0                 | 61    | 3        | 1        |
| <b>E.S. Central</b>         | 21            | 60                | 144   | 667      | 836      | 3  | 5                 | 26  | 80       | 44       | 34           | 53                | 178   | 774      | 392      |
| Alabama <sup>§</sup>        | 5             | 16                | 50    | 194      | 244      | —  | 1                 | 19  | 26       | 10       | —            | 13                | 43    | 162      | 159      |
| Kentucky                    | 6             | 9                 | 23    | 113      | 161      | —  | 1                 | 12  | 14       | 13       | 13           | 12                | 35    | 143      | 44       |
| Mississippi                 | 1             | 13                | 57    | 146      | 179      | —  | 0                 | 1   | 2        | 2        | —            | 18                | 112   | 194      | 114      |
| Tennessee <sup>§</sup>      | 9             | 17                | 34    | 214      | 252      | 3  | 2                 | 12  | 38       | 19       | 21           | 9                 | 32    | 275      | 75       |
| <b>W.S. Central</b>         | 67            | 97                | 875   | 901      | 1,019    | 1  | 5                 | 23  | 73       | 74       | 37           | 49                | 707   | 1,035    | 551      |
| Arkansas <sup>§</sup>       | 4             | 13                | 50    | 110      | 133      | —  | 0                 | 4   | 15       | 15       | 13           | 2                 | 17    | 120      | 39       |
| Louisiana                   | —             | 14                | 44    | 58       | 220      | —  | 0                 | 0   | —        | 3        | —            | 6                 | 22    | 58       | 181      |
| Oklahoma                    | 22            | 9                 | 60    | 142      | 115      | 1  | 0                 | 13  | 6        | 11       | 3            | 3                 | 31    | 42       | 27       |
| Texas <sup>§</sup>          | 41            | 51                | 790   | 591      | 551      | —  | 4                 | 11  | 52       | 45       | 21           | 37                | 663   | 815      | 304      |
| <b>Mountain</b>             | 21            | 52                | 83    | 908      | 883      | 5  | 8                 | 42  | 119      | 114      | 10           | 18                | 40    | 235      | 275      |
| Arizona                     | 7             | 17                | 39    | 262      | 287      | —  | 1                 | 8   | 21       | 39       | 2            | 10                | 30    | 101      | 129      |
| Colorado                    | 10            | 11                | 44    | 312      | 221      | 3  | 2                 | 17  | 33       | 21       | 1            | 2                 | 6     | 30       | 41       |
| Idaho <sup>§</sup>          | 3             | 3                 | 10    | 48       | 42       | 2  | 2                 | 16  | 27       | 10       | —            | 0                 | 2     | 5        | 4        |
| Montana <sup>§</sup>        | —             | 2                 | 10    | 28       | 34       | —  | 0                 | 3   | 12       | —        | —            | 0                 | 1     | 1        | 12       |
| Nevada <sup>§</sup>         | 1             | 5                 | 12    | 79       | 88       | —  | 0                 | 3   | 5        | 10       | 7            | 2                 | 10    | 77       | 13       |
| New Mexico <sup>§</sup>     | —             | 6                 | 14    | 83       | 90       | —  | 0                 | 3   | 11       | 19       | —            | 1                 | 6     | 12       | 44       |
| Utah                        | —             | 5                 | 17    | 77       | 89       | —  | 1                 | 9   | 7        | 15       | —            | 1                 | 5     | 6        | 8        |
| Wyoming <sup>§</sup>        | —             | 1                 | 5     | 19       | 32       | —  | 0                 | 1   | 3        | —        | —            | 0                 | 2     | 3        | 24       |
| <b>Pacific</b>              | 4             | 102               | 1,045 | 1,434    | 1,537    | —  | 7                 | 166 | 60       | 79       | —            | 26                | 218   | 392      | 381      |
| Alaska                      | 2             | 1                 | 5     | 10       | 36       | —  | 0                 | 1   | 1        | —        | —            | 0                 | 1     | —        | 6        |
| California                  | —             | 83                | 286   | 1,100    | 1,306    | —  | 4                 | 34  | 36       | 54       | —            | 23                | 61    | 331      | 341      |
| Hawaii                      | —             | 5                 | 14    | 65       | 92       | —  | 0                 | 5   | 3        | 13       | —            | 0                 | 43    | 16       | 14       |
| Oregon <sup>§</sup>         | 2             | 6                 | 16    | 103      | 100      | —  | 1                 | 11  | 6        | 12       | —            | 1                 | 6     | 21       | 20       |
| Washington                  | —             | 0                 | 749   | 156      | 3        | —  | 0                 | 140 | 14       | —        | —            | 0                 | 159   | 24       | —        |
| American Samoa              | —             | 0                 | 1     | 1        | —        | —  | 0                 | 0   | —        | —        | —            | 0                 | 1     | 1        | 1        |
| C.N.M.I.                    | —             | —                 | —     | —        | —        | —  | —                 | —   | —        | —        | —            | —                 | —     | —        | —        |
| Guam                        | —             | 0                 | 5     | 5        | 5        | —  | 0                 | 0   | —        | —        | —            | 0                 | 3     | 9        | 6        |
| Puerto Rico                 | —             | 12                | 55    | 124      | 303      | —  | 0                 | 1   | 1        | —        | —            | 0                 | 2     | 3        | 15       |
| 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 notifiable. Cum: Cumulative year-to-date counts. Med: Median. Max: Maximum.

\* Incidence data for reporting years 2007 and 2008 are 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 May 24, 2008, and May 26, 2007 (21st Week)\*

| Reporting area       | Streptococcal disease, invasive, group A |                   |     |          |          | <i>Streptococcus pneumoniae</i> , invasive disease, nondrug resistant†<br>Age <5 years |                   |     |          |          |
|----------------------|--|-------------------|-----|----------|----------|--|-------------------|-----|----------|----------|
|                      | Current week                             | Previous 52 weeks |     | Cum 2008 | Cum 2007 | Current week   | Previous 52 weeks |     | Cum 2008 | Cum 2007 |
|                      |  | Med               | Max |          |          |  | Med               | Max |          |          |
| <b>United States</b> | 86                                       | 97                | 240 | 2,631    | 2,614    | 27   | 35                | 153 | 783      | 835      |
| <b>New England</b>   | 28                                       | 5                 | 24  | 182      | 212      | —  | 1                 | 6   | 39       | 62       |
| Connecticut          | 28                                       | 0                 | 22  | 59       | 49       | —  | 0                 | 5   | —        | 11       |
| Maine§               | —  | 0                 | 3   | 12       | 13       | —  | 0                 | 1   | 1        | 1        |
| Massachusetts        | —  | 2                 | 7   | 82       | 111      | —  | 1                 | 4   | 30       | 44       |
| New Hampshire        | —  | 0                 | 2   | 16       | 24       | —  | 0                 | 1   | 7        | —        |
| Rhode Island§        | —  | 0                 | 6   | 5        | 2        | —  | 0                 | 1   | —        | 4        |
| Vermont§             | —  | 0                 | 2   | 8        | 13       | —  | 0                 | 1   | 1        | 2        |
| <b>Mid. Atlantic</b> | 17                                       | 17                | 42  | 547      | 545      | 2  | 4                 | 38  | 87       | 125      |
| New Jersey           | —  | 3                 | 9   | 79       | 109      | —  | 1                 | 6   | 18       | 33       |
| New York (Upstate)   | 10                                       | 6                 | 20  | 194      | 149      | 2  | 2                 | 14  | 44       | 52       |
| New York City        | —  | 4                 | 10  | 93       | 137      | —  | 1                 | 35  | 25       | 40       |
| Pennsylvania         | 7  | 5                 | 16  | 181      | 150      | N  | 0                 | 0   | N        | N        |
| <b>E.N. Central</b>  | 13                                       | 16                | 59  | 533      | 498      | 2  | 5                 | 22  | 160      | 122      |
| Illinois             | —  | 4                 | 15  | 137      | 157      | —  | 2                 | 6   | 38       | 28       |
| Indiana              | —  | 2                 | 11  | 70       | 56       | —  | 0                 | 14  | 20       | 7        |
| Michigan             | 4  | 3                 | 8   | 84       | 120      | —  | 1                 | 5   | 38       | 45       |
| Ohio                 | 8  | 4                 | 15  | 153      | 139      | 2  | 1                 | 5   | 30       | 34       |
| Wisconsin            | 1  | 0                 | 38  | 89       | 26       | —  | 0                 | 9   | 34       | 8        |
| <b>W.N. Central</b>  | 2  | 5                 | 39  | 225      | 187      | 2  | 2                 | 15  | 67       | 49       |
| Iowa                 | —  | 0                 | 0   | —        | —        | —  | 0                 | 0   | —        | —        |
| Kansas               | —  | 0                 | 6   | 32       | 24       | —  | 0                 | 3   | 13       | 1        |
| Minnesota            | —  | 0                 | 35  | 101      | 86       | —  | 0                 | 13  | 24       | 30       |
| Missouri             | 2  | 2                 | 10  | 55       | 49       | 2  | 1                 | 2   | 20       | 13       |
| Nebraska§            | —  | 0                 | 3   | 18       | 14       | —  | 0                 | 3   | 4        | 4        |
| North Dakota         | —  | 0                 | 3   | 8        | 10       | —  | 0                 | 1   | 1        | 1        |
| South Dakota         | —  | 0                 | 2   | 11       | 4        | —  | 0                 | 1   | 5        | —        |
| <b>S. Atlantic</b>   | 10                                       | 23                | 51  | 517      | 576      | 7  | 7                 | 16  | 121      | 194      |
| Delaware             | —  | 0                 | 2   | 6        | 4        | —  | 0                 | 0   | —        | —        |
| District of Columbia | —  | 0                 | 2   | 10       | 16       | —  | 0                 | 1   | 1        | 2        |
| Florida              | 4  | 6                 | 16  | 128      | 125      | 2  | 1                 | 4   | 32       | 30       |
| Georgia              | —  | 4                 | 10  | 99       | 128      | 3  | 1                 | 9   | 6        | 87       |
| Maryland§            | 3  | 4                 | 9   | 92       | 101      | —  | 1                 | 5   | 34       | 37       |
| North Carolina       | —  | 2                 | 22  | 70       | 55       | N  | 0                 | 0   | N        | N        |
| South Carolina§      | 1  | 1                 | 6   | 32       | 56       | 1  | 1                 | 4   | 21       | 12       |
| Virginia§            | 2  | 3                 | 12  | 66       | 78       | 1  | 0                 | 6   | 23       | 24       |
| West Virginia        | —  | 0                 | 3   | 14       | 13       | —  | 0                 | 1   | 4        | 2        |
| <b>E.S. Central</b>  | 4  | 4                 | 13  | 84       | 96       | 2  | 2                 | 11  | 51       | 49       |
| Alabama§             | N  | 0                 | 0   | N        | N        | N  | 0                 | 0   | N        | N        |
| Kentucky             | —  | 1                 | 3   | 16       | 24       | N  | 0                 | 0   | N        | N        |
| Mississippi          | N  | 0                 | 0   | N        | N        | —  | 0                 | 3   | 13       | 3        |
| Tennessee§           | 4  | 3                 | 13  | 68       | 72       | 2  | 2                 | 9   | 38       | 46       |
| <b>W.S. Central</b>  | 6  | 7                 | 83  | 205      | 149      | 9  | 5                 | 61  | 127      | 116      |
| Arkansas§            | —  | 0                 | 2   | 4        | 13       | —  | 0                 | 2   | 5        | 7        |
| Louisiana            | —  | 0                 | 1   | 3        | 14       | —  | 0                 | 2   | 1        | 23       |
| Oklahoma             | 2  | 1                 | 17  | 60       | 39       | 2  | 1                 | 5   | 43       | 24       |
| Texas§               | 4  | 5                 | 65  | 138      | 83       | 7  | 3                 | 56  | 78       | 62       |
| <b>Mountain</b>      | 6  | 11                | 22  | 289      | 285      | 3  | 5                 | 12  | 124      | 110      |
| Arizona              | 3  | 4                 | 9   | 102      | 103      | 2  | 2                 | 8   | 65       | 56       |
| Colorado             | 3  | 2                 | 8   | 78       | 75       | 1  | 1                 | 4   | 37       | 26       |
| Idaho§               | —  | 0                 | 2   | 9        | 6        | —  | 0                 | 1   | 2        | 2        |
| Montana§             | N  | 0                 | 0   | N        | N        | —  | 0                 | 1   | —        | —        |
| Nevada§              | —  | 0                 | 2   | 6        | 2        | N  | 0                 | 0   | N        | N        |
| New Mexico§          | —  | 2                 | 7   | 54       | 48       | —  | 0                 | 3   | 11       | 22       |
| Utah                 | —  | 1                 | 5   | 35       | 47       | —  | 0                 | 4   | 8        | 4        |
| Wyoming§             | —  | 0                 | 2   | 5        | 4        | —  | 0                 | 1   | 1        | —        |
| <b>Pacific</b>       | —  | 3                 | 6   | 49       | 66       | —  | 0                 | 2   | 7        | 8        |
| Alaska               | —  | 0                 | 3   | 13       | 12       | N  | 0                 | 0   | N        | N        |
| California           | —  | 0                 | 0   | —        | —        | N  | 0                 | 0   | N        | N        |
| Hawaii               | —  | 2                 | 6   | 36       | 54       | —  | 0                 | 2   | 7        | 8        |
| Oregon§              | N  | 0                 | 0   | N        | N        | N  | 0                 | 0   | N        | N        |
| Washington           | N  | 0                 | 0   | N        | N        | N  | 0                 | 0   | N        | N        |
| American Samoa       | —  | 0                 | 12  | 19       | 4        | N  | 0                 | 0   | N        | N        |
| C.N.M.I.             | —  | —                 | —   | —        | —        | —  | —                 | —   | —        | —        |
| Guam                 | —  | 0                 | 0   | —        | —        | —  | 0                 | 0   | —        | —        |
| Puerto Rico          | N  | 0                 | 0   | N        | N        | N  | 0                 | 0   | N        | N        |
| U.S. Virgin Islands  | —  | 0                 | 0   | —        | —        | N  | 0                 | 0   | N        | N        |

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

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

\* Incidence data for reporting years 2007 and 2008 are 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 May 24, 2008, and May 26, 2007 (21st Week)\*

| Reporting area       | <i>Streptococcus pneumoniae</i> , invasive disease, drug resistant† |                   |     |          |          |              |                   |     |          |          | Syphilis, primary and secondary |                   |     |          |          |
|----------------------|---|-------------------|-----|----------|----------|--------------|-------------------|-----|----------|----------|---------------------------------|-------------------|-----|----------|----------|
|                      | All ages  |                   |     |          |          | Age <5 years |                   |     |          |          |                                 |                   |     |          |          |
|                      | Current week  | Previous 52 weeks |     | Cum 2008 | Cum 2007 | Current week | Previous 52 weeks |     | Cum 2008 | Cum 2007 | Current week                    | Previous 52 weeks |     | Cum 2008 | Cum 2007 |
|                      |   | Med               | Max |          |          |              | Med               | Max |          |          |                                 | Med               | Max |          |          |
| <b>United States</b> | 39  | 46                | 252 | 1,261    | 1,302    | 10           | 7                 | 38  | 204      | 213      | 72                              | 224               | 328 | 4,179    | 4,097    |
| <b>New England</b>   | —   | 1                 | 38  | 24       | 79       | —            | 0                 | 8   | 3        | 9        | 6                               | 6                 | 14  | 114      | 90       |
| Connecticut          | —   | 0                 | 34  | —        | 49       | —            | 0                 | 7   | —        | 4        | 1                               | 0                 | 6   | 8        | 11       |
| Maine§               | —   | 0                 | 2   | 10       | 7        | —            | 0                 | 1   | 1        | 1        | —                               | 0                 | 2   | 2        | 2        |
| Massachusetts        | —   | 0                 | 0   | —        | —        | —            | 0                 | 0   | —        | —        | 5                               | 4                 | 11  | 98       | 53       |
| New Hampshire        | —   | 0                 | 0   | —        | —        | —            | 0                 | 0   | —        | —        | —                               | 0                 | 3   | 4        | 10       |
| Rhode Island§        | —   | 0                 | 3   | 5        | 12       | —            | 0                 | 1   | 1        | 2        | —                               | 0                 | 3   | 2        | 12       |
| Vermont§             | —   | 0                 | 2   | 9        | 11       | —            | 0                 | 1   | 1        | 2        | —                               | 0                 | 5   | —        | 2        |
| <b>Mid. Atlantic</b> | 3   | 2                 | 7   | 75       | 79       | 1            | 0                 | 2   | 14       | 19       | 20                              | 32                | 45  | 711      | 627      |
| New Jersey           | —   | 0                 | 0   | —        | —        | —            | 0                 | 0   | —        | —        | —                               | 4                 | 10  | 86       | 76       |
| New York (Upstate)   | —   | 1                 | 4   | 23       | 25       | —            | 0                 | 1   | 4        | 8        | 3                               | 3                 | 10  | 52       | 48       |
| New York City        | —   | 0                 | 0   | —        | —        | —            | 0                 | 0   | —        | —        | 16                              | 17                | 30  | 449      | 397      |
| Pennsylvania         | 3   | 1                 | 7   | 52       | 54       | 1            | 0                 | 2   | 10       | 11       | 1                               | 5                 | 12  | 124      | 106      |
| <b>E.N. Central</b>  | 6   | 14                | 46  | 365      | 346      | 3            | 2                 | 14  | 58       | 61       | 6                               | 17                | 31  | 358      | 337      |
| Illinois             | —   | 3                 | 13  | 51       | 60       | —            | 0                 | 6   | 11       | 25       | —                               | 7                 | 19  | 62       | 169      |
| Indiana              | —   | 3                 | 28  | 112      | 72       | —            | 0                 | 11  | 13       | 8        | —                               | 1                 | 6   | 58       | 16       |
| Michigan             | —   | 0                 | 1   | 4        | —        | —            | 0                 | 1   | 1        | —        | 5                               | 2                 | 17  | 92       | 46       |
| Ohio                 | 6   | 7                 | 15  | 198      | 214      | 3            | 1                 | 4   | 33       | 28       | 1                               | 4                 | 14  | 128      | 80       |
| Wisconsin            | —   | 0                 | 0   | —        | —        | —            | 0                 | 0   | —        | —        | —                               | 1                 | 3   | 18       | 26       |
| <b>W.N. Central</b>  | 1   | 3                 | 106 | 99       | 97       | —            | 0                 | 9   | 7        | 17       | 3                               | 8                 | 15  | 148      | 112      |
| Iowa                 | —   | 0                 | 0   | —        | —        | —            | 0                 | 0   | —        | —        | —                               | 0                 | 2   | 5        | 6        |
| Kansas               | —   | 1                 | 5   | 45       | 53       | —            | 0                 | 1   | 2        | 2        | 3                               | 0                 | 5   | 15       | 8        |
| Minnesota            | —   | 0                 | 105 | —        | 1        | —            | 0                 | 9   | —        | 11       | —                               | 1                 | 4   | 34       | 26       |
| Missouri             | 1   | 1                 | 8   | 54       | 35       | —            | 0                 | 1   | 2        | —        | —                               | 5                 | 10  | 91       | 70       |
| Nebraska§            | —   | 0                 | 0   | —        | 2        | —            | 0                 | 0   | —        | —        | —                               | 0                 | 1   | 3        | 2        |
| North Dakota         | —   | 0                 | 0   | —        | —        | —            | 0                 | 0   | —        | —        | —                               | 0                 | 1   | —        | —        |
| South Dakota         | —   | 0                 | 1   | —        | 6        | —            | 0                 | 1   | 3        | 4        | —                               | 0                 | 3   | —        | —        |
| <b>S. Atlantic</b>   | 27  | 20                | 39  | 523      | 557      | 6            | 2                 | 9   | 87       | 75       | 15                              | 48                | 196 | 844      | 882      |
| Delaware             | —   | 0                 | 1   | 2        | 5        | —            | 0                 | 1   | —        | 1        | —                               | 0                 | 3   | 1        | 5        |
| District of Columbia | —   | 0                 | 0   | —        | 4        | —            | 0                 | 0   | —        | —        | —                               | 2                 | 11  | 35       | 72       |
| Florida              | 24  | 11                | 26  | 302      | 305      | 6            | 2                 | 6   | 55       | 67       | 10                              | 18                | 34  | 346      | 297      |
| Georgia              | 3   | 7                 | 18  | 173      | 209      | —            | 0                 | 6   | 27       | —        | —                               | 6                 | 174 | 42       | 121      |
| Maryland§            | —   | 0                 | 2   | 3        | 1        | —            | 0                 | 1   | 1        | —        | 4                               | 7                 | 14  | 149      | 116      |
| North Carolina       | N   | 0                 | 0   | N        | N        | N            | 0                 | 0   | N        | N        | —                               | 6                 | 18  | 130      | 140      |
| South Carolina§      | —   | 0                 | 0   | —        | —        | —            | 0                 | 0   | —        | —        | —                               | 1                 | 5   | 31       | 42       |
| Virginia§            | N   | 0                 | 0   | N        | N        | N            | 0                 | 0   | N        | N        | 1                               | 5                 | 17  | 110      | 84       |
| West Virginia        | —   | 1                 | 7   | 43       | 33       | —            | 0                 | 2   | 4        | 7        | —                               | 0                 | 1   | —        | 5        |
| <b>E.S. Central</b>  | 2   | 4                 | 12  | 138      | 75       | —            | 1                 | 4   | 25       | 16       | 12                              | 20                | 31  | 402      | 307      |
| Alabama§             | N   | 0                 | 0   | N        | N        | N            | 0                 | 0   | N        | N        | 2                               | 8                 | 17  | 168      | 119      |
| Kentucky             | 1   | 0                 | 3   | 34       | 16       | —            | 0                 | 2   | 8        | 2        | 4                               | 1                 | 7   | 39       | 30       |
| Mississippi          | —   | 0                 | 0   | —        | —        | —            | 0                 | 0   | —        | —        | —                               | 2                 | 15  | 45       | 48       |
| Tennessee§           | 1   | 3                 | 12  | 104      | 59       | —            | 1                 | 3   | 17       | 14       | 6                               | 8                 | 14  | 150      | 110      |
| <b>W.S. Central</b>  | —   | 1                 | 5   | 23       | 45       | —            | 0                 | 2   | 6        | 7        | 7                               | 41                | 60  | 785      | 638      |
| Arkansas§            | —   | 0                 | 2   | 6        | 1        | —            | 0                 | 1   | 2        | 2        | 6                               | 2                 | 10  | 50       | 46       |
| Louisiana            | —   | 1                 | 4   | 17       | 44       | —            | 0                 | 2   | 4        | 5        | 1                               | 11                | 22  | 172      | 169      |
| Oklahoma             | N   | 0                 | 0   | N        | N        | N            | 0                 | 0   | N        | N        | —                               | 1                 | 5   | 25       | 25       |
| Texas§               | —   | 0                 | 0   | —        | —        | —            | 0                 | 0   | —        | —        | —                               | 26                | 47  | 538      | 398      |
| <b>Mountain</b>      | —   | 1                 | 6   | 14       | 24       | —            | 0                 | 2   | 3        | 8        | 3                               | 8                 | 29  | 104      | 171      |
| Arizona              | —   | 0                 | 0   | —        | —        | —            | 0                 | 0   | —        | —        | —                               | 4                 | 21  | 24       | 88       |
| Colorado             | —   | 0                 | 0   | —        | —        | —            | 0                 | 0   | —        | —        | 2                               | 1                 | 7   | 41       | 20       |
| Idaho§               | N   | 0                 | 0   | N        | N        | N            | 0                 | 0   | N        | N        | —                               | 0                 | 1   | 1        | 1        |
| Montana§             | —   | 0                 | 0   | —        | —        | —            | 0                 | 0   | —        | —        | —                               | 0                 | 3   | —        | 1        |
| Nevada§              | N   | 0                 | 0   | N        | N        | N            | 0                 | 0   | N        | N        | 1                               | 2                 | 6   | 28       | 37       |
| New Mexico§          | —   | 0                 | 1   | 1        | —        | —            | 0                 | 0   | —        | 1        | —                               | 0                 | 3   | 10       | 19       |
| Utah                 | —   | 0                 | 6   | 13       | 15       | —            | 0                 | 2   | 3        | 6        | —                               | 0                 | 2   | —        | 4        |
| Wyoming§             | —   | 0                 | 2   | —        | 9        | —            | 0                 | 1   | —        | 1        | —                               | 0                 | 1   | —        | 1        |
| <b>Pacific</b>       | —   | 0                 | 0   | —        | —        | —            | 0                 | 1   | 1        | 1        | —                               | 40                | 69  | 713      | 933      |
| Alaska               | N   | 0                 | 0   | N        | N        | N            | 0                 | 0   | N        | N        | —                               | 0                 | 1   | —        | 5        |
| California           | N   | 0                 | 0   | N        | N        | N            | 0                 | 0   | N        | N        | —                               | 37                | 59  | 628      | 865      |
| Hawaii               | —   | 0                 | 0   | —        | —        | —            | 0                 | 1   | 1        | 1        | —                               | 0                 | 2   | 9        | 4        |
| Oregon§              | N   | 0                 | 0   | N        | N        | N            | 0                 | 0   | N        | N        | —                               | 0                 | 2   | 6        | 8        |
| Washington           | N   | 0                 | 0   | N        | N        | N            | 0                 | 0   | N        | N        | —                               | 3                 | 13  | 70       | 51       |
| American Samoa       | N   | 0                 | 0   | N        | N        | N            | 0                 | 0   | N        | N        | —                               | 0                 | 0   | —        | 4        |
| C.N.M.I.             | —   | —                 | —   | —        | —        | —            | —                 | —   | —        | —        | —                               | —                 | —   | —        | —        |
| Guam                 | —   | 0                 | 0   | —        | —        | —            | 0                 | 0   | —        | —        | —                               | 0                 | 0   | —        | —        |
| Puerto Rico          | —   | 0                 | 0   | —        | —        | —            | 0                 | 0   | —        | —        | 1                               | 3                 | 10  | 62       | 57       |
| 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 notifiable. Cum: Cumulative year-to-date counts. Med: Median. Max: Maximum.

\* Incidence data for reporting years 2007 and 2008 are 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 May 24, 2008, and May 26, 2007 (21st Week)\*

| Reporting area       | Varicella (chickenpox) |                   |       |          |          | West Nile virus disease† |                   |          |                   |              |                   |          |          |   |   |
|----------------------|------------------------|-------------------|-------|----------|----------|--------------------------|-------------------|----------|-------------------|--------------|-------------------|----------|----------|---|---|
|                      | Current week           | Previous 52 weeks |       | Cum 2008 | Cum 2007 | Neuroinvasive            |                   |          | Nonneuroinvasive§ |              |                   |          |          |   |   |
|                      |                        | Med               | Max   |          |          | Current week             | Previous 52 weeks | Cum 2008 | Cum 2007          | Current week | Previous 52 weeks | Cum 2008 | Cum 2007 |   |   |
| <b>United States</b> | 491                    | 648               | 1,459 | 14,073   | 21,884   | —                        | 1                 | 141      | —                 | 7            | —                 | 2        | 299      | — | 7 |
| <b>New England</b>   | 1                      | 23                | 80    | 226      | 1,264    | —                        | 0                 | 2        | —                 | —            | —                 | 0        | 2        | — | — |
| Connecticut          | —                      | 12                | 58    | —        | 723      | —                        | 0                 | 2        | —                 | —            | —                 | 0        | 1        | — | — |
| Maine¶               | —                      | 1                 | 26    | —        | 178      | —                        | 0                 | 0        | —                 | —            | —                 | 0        | 0        | — | — |
| Massachusetts        | —                      | 0                 | 0     | —        | —        | —                        | 0                 | 2        | —                 | —            | —                 | 0        | 2        | — | — |
| New Hampshire        | —                      | 6                 | 18    | 103      | 166      | —                        | 0                 | 0        | —                 | —            | —                 | 0        | 0        | — | — |
| Rhode Island¶        | —                      | 0                 | 0     | —        | —        | —                        | 0                 | 0        | —                 | —            | —                 | 0        | 1        | — | — |
| Vermont¶             | 1                      | 6                 | 19    | 123      | 197      | —                        | 0                 | 0        | —                 | —            | —                 | 0        | 0        | — | — |
| <b>Mid. Atlantic</b> | 76                     | 57                | 145   | 1,156    | 2,648    | —                        | 0                 | 3        | —                 | —            | —                 | 0        | 3        | — | — |
| New Jersey           | N                      | 0                 | 0     | N        | N        | —                        | 0                 | 1        | —                 | —            | —                 | 0        | 0        | — | — |
| New York (Upstate)   | N                      | 0                 | 0     | N        | N        | —                        | 0                 | 1        | —                 | —            | —                 | 0        | 1        | — | — |
| New York City        | N                      | 0                 | 0     | N        | N        | —                        | 0                 | 3        | —                 | —            | —                 | 0        | 3        | — | — |
| Pennsylvania         | 76                     | 57                | 145   | 1,156    | 2,648    | —                        | 0                 | 1        | —                 | —            | —                 | 0        | 1        | — | — |
| <b>E.N. Central</b>  | 86                     | 155               | 358   | 3,259    | 5,932    | —                        | 0                 | 18       | —                 | —            | —                 | 0        | 12       | — | 1 |
| Illinois             | 11                     | 4                 | 57    | 483      | 81       | —                        | 0                 | 13       | —                 | —            | —                 | 0        | 8        | — | — |
| Indiana              | —                      | 0                 | 222   | —        | —        | —                        | 0                 | 4        | —                 | —            | —                 | 0        | 2        | — | — |
| Michigan             | 23                     | 62                | 154   | 1,341    | 2,334    | —                        | 0                 | 5        | —                 | —            | —                 | 0        | 0        | — | — |
| Ohio                 | 48                     | 58                | 129   | 1,342    | 2,860    | —                        | 0                 | 4        | —                 | —            | —                 | 0        | 3        | — | 1 |
| Wisconsin            | 4                      | 7                 | 80    | 93       | 657      | —                        | 0                 | 2        | —                 | —            | —                 | 0        | 2        | — | — |
| <b>W.N. Central</b>  | 15                     | 22                | 69    | 672      | 1,084    | —                        | 0                 | 41       | —                 | —            | —                 | 0        | 117      | — | 3 |
| Iowa                 | N                      | 0                 | 0     | N        | N        | —                        | 0                 | 4        | —                 | —            | —                 | 0        | 3        | — | 1 |
| Kansas               | —                      | 5                 | 36    | 231      | 402      | —                        | 0                 | 3        | —                 | —            | —                 | 0        | 7        | — | — |
| Minnesota            | —                      | 0                 | 0     | —        | —        | —                        | 0                 | 9        | —                 | —            | —                 | 0        | 12       | — | — |
| Missouri             | 10                     | 12                | 53    | 376      | 543      | —                        | 0                 | 9        | —                 | —            | —                 | 0        | 3        | — | — |
| Nebraska¶            | N                      | 0                 | 0     | N        | N        | —                        | 0                 | 5        | —                 | —            | —                 | 0        | 15       | — | 1 |
| North Dakota         | 5                      | 0                 | 39    | 48       | 84       | —                        | 0                 | 11       | —                 | —            | —                 | 0        | 49       | — | — |
| South Dakota         | —                      | 1                 | 5     | 17       | 55       | —                        | 0                 | 9        | —                 | —            | —                 | 0        | 32       | — | 1 |
| <b>S. Atlantic</b>   | 117                    | 98                | 157   | 2,348    | 2,738    | —                        | 0                 | 12       | —                 | —            | —                 | 0        | 6        | — | — |
| Delaware             | —                      | 1                 | 4     | 14       | 18       | —                        | 0                 | 1        | —                 | —            | —                 | 0        | 0        | — | — |
| District of Columbia | —                      | 0                 | 3     | 13       | 21       | —                        | 0                 | 0        | —                 | —            | —                 | 0        | 0        | — | — |
| Florida              | 48                     | 28                | 87    | 949      | 633      | —                        | 0                 | 1        | —                 | —            | —                 | 0        | 0        | — | — |
| Georgia              | N                      | 0                 | 0     | N        | N        | —                        | 0                 | 8        | —                 | —            | —                 | 0        | 5        | — | — |
| Maryland¶            | N                      | 0                 | 0     | N        | N        | —                        | 0                 | 2        | —                 | —            | —                 | 0        | 2        | — | — |
| North Carolina       | N                      | 0                 | 0     | N        | N        | —                        | 0                 | 1        | —                 | —            | —                 | 0        | 1        | — | — |
| South Carolina¶      | 51                     | 14                | 56    | 402      | 645      | —                        | 0                 | 2        | —                 | —            | —                 | 0        | 1        | — | — |
| Virginia¶            | 14                     | 24                | 82    | 630      | 808      | —                        | 0                 | 1        | —                 | —            | —                 | 0        | 1        | — | — |
| West Virginia        | 4                      | 15                | 66    | 340      | 613      | —                        | 0                 | 0        | —                 | —            | —                 | 0        | 0        | — | — |
| <b>E.S. Central</b>  | 3                      | 15                | 82    | 599      | 294      | —                        | 0                 | 11       | —                 | 5            | —                 | 0        | 14       | — | — |
| Alabama¶             | 3                      | 15                | 82    | 592      | 293      | —                        | 0                 | 2        | —                 | —            | —                 | 0        | 1        | — | — |
| Kentucky             | N                      | 0                 | 0     | N        | N        | —                        | 0                 | 1        | —                 | —            | —                 | 0        | 0        | — | — |
| Mississippi          | —                      | 0                 | 2     | 7        | 1        | —                        | 0                 | 7        | —                 | 4            | —                 | 0        | 12       | — | — |
| Tennessee¶           | N                      | 0                 | 0     | N        | N        | —                        | 0                 | 1        | —                 | 1            | —                 | 0        | 2        | — | — |
| <b>W.S. Central</b>  | 170                    | 172               | 855   | 4,704    | 6,294    | —                        | 0                 | 34       | —                 | 2            | —                 | 0        | 18       | — | 1 |
| Arkansas¶            | —                      | 14                | 42    | 318      | 348      | —                        | 0                 | 5        | —                 | 1            | —                 | 0        | 2        | — | — |
| Louisiana            | —                      | 1                 | 8     | 27       | 81       | —                        | 0                 | 5        | —                 | —            | —                 | 0        | 3        | — | — |
| Oklahoma             | N                      | 0                 | 0     | N        | N        | —                        | 0                 | 11       | —                 | —            | —                 | 0        | 7        | — | — |
| Texas¶               | 170                    | 159               | 825   | 4,359    | 5,865    | —                        | 0                 | 18       | —                 | 1            | —                 | 0        | 10       | — | 1 |
| <b>Mountain</b>      | 20                     | 42                | 105   | 1,091    | 1,608    | —                        | 0                 | 36       | —                 | —            | —                 | 0        | 143      | — | 2 |
| Arizona              | —                      | 0                 | 0     | —        | —        | —                        | 0                 | 8        | —                 | —            | —                 | 0        | 10       | — | — |
| Colorado             | 13                     | 19                | 43    | 514      | 618      | —                        | 0                 | 17       | —                 | —            | —                 | 0        | 65       | — | 1 |
| Idaho¶               | N                      | 0                 | 0     | N        | N        | —                        | 0                 | 3        | —                 | —            | —                 | 0        | 22       | — | — |
| Montana¶             | 7                      | 6                 | 40    | 159      | 209      | —                        | 0                 | 10       | —                 | —            | —                 | 0        | 30       | — | — |
| Nevada¶              | N                      | 0                 | 0     | N        | N        | —                        | 0                 | 1        | —                 | —            | —                 | 0        | 3        | — | 1 |
| New Mexico¶          | —                      | 4                 | 22    | 115      | 255      | —                        | 0                 | 8        | —                 | —            | —                 | 0        | 6        | — | — |
| Utah                 | —                      | 8                 | 55    | 302      | 510      | —                        | 0                 | 8        | —                 | —            | —                 | 0        | 8        | — | — |
| Wyoming¶             | —                      | 0                 | 9     | 1        | 16       | —                        | 0                 | 4        | —                 | —            | —                 | 0        | 33       | — | — |
| <b>Pacific</b>       | 3                      | 0                 | 4     | 18       | 22       | —                        | 0                 | 18       | —                 | —            | —                 | 0        | 23       | — | — |
| Alaska               | 3                      | 0                 | 4     | 18       | 22       | —                        | 0                 | 0        | —                 | —            | —                 | 0        | 0        | — | — |
| California           | —                      | 0                 | 0     | —        | —        | —                        | 0                 | 17       | —                 | —            | —                 | 0        | 21       | — | — |
| Hawaii               | —                      | 0                 | 0     | —        | —        | —                        | 0                 | 0        | —                 | —            | —                 | 0        | 0        | — | — |
| Oregon¶              | N                      | 0                 | 0     | N        | N        | —                        | 0                 | 3        | —                 | —            | —                 | 0        | 4        | — | — |
| Washington           | N                      | 0                 | 0     | N        | N        | —                        | 0                 | 0        | —                 | —            | —                 | 0        | 0        | — | — |
| American Samoa       | N                      | 0                 | 0     | N        | N        | —                        | 0                 | 0        | —                 | —            | —                 | 0        | 0        | — | — |
| C.N.M.I.             | —                      | —                 | —     | —        | —        | —                        | —                 | —        | —                 | —            | —                 | —        | —        | — | — |
| Guam                 | —                      | 2                 | 7     | 33       | 153      | —                        | 0                 | 0        | —                 | —            | —                 | 0        | 0        | — | — |
| Puerto Rico          | 3                      | 12                | 37    | 226      | 342      | —                        | 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 notifiable. Cum: Cumulative year-to-date counts. Med: Median. Max: Maximum.

\* Incidence data for reporting years 2007 and 2008 are provisional.

† Updated weekly from reports to the Division of Vector-Borne Infectious Diseases, National Center for Zoonotic, Vector-Borne, and Enteric Diseases (ArboNET Surveillance). Data for California serogroup, eastern equine, Powassan, St. Louis, and western equine diseases are available in Table I.

§ Not notifiable in all states. Data from states where the condition is not notifiable are excluded from this table, except 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 May 24, 2008 (21st Week)

| Reporting Area              | All causes, by age (years) |       |       |       |      |    |             | P&I <sup>†</sup><br>Total    | Reporting Area | All causes, by age (years) |       |       |      |     |     |  | P&I <sup>†</sup><br>Total |
|-----------------------------|----------------------------|-------|-------|-------|------|----|-------------|------------------------------|----------------|----------------------------|-------|-------|------|-----|-----|--|---------------------------|
|                             | All<br>Ages                | ≥65   | 45-64 | 25-44 | 1-24 | <1 | All<br>Ages |                              |                | ≥65                        | 45-64 | 25-44 | 1-24 | <1  |     |  |                           |
| <b>New England</b>          | 554                        | 394   | 98    | 36    | 7    | 19 | 46          | <b>S. Atlantic</b>           | 1,135          | 692                        | 279   | 89    | 36   | 37  | 84  |  |                           |
| Boston, MA                  | 132                        | 93    | 24    | 7     | 2    | 6  | 6           | Atlanta, GA                  | 113            | 61                         | 35    | 10    | 6    | 1   | 5   |  |                           |
| Bridgeport, CT              | 37                         | 28    | 5     | 3     | 1    | —  | 5           | Baltimore, MD                | 131            | 80                         | 32    | 10    | 5    | 4   | 17  |  |                           |
| Cambridge, MA               | 21                         | 18    | 3     | —     | —    | —  | 5           | Charlotte, NC                | 119            | 73                         | 36    | 6     | 3    | 1   | 18  |  |                           |
| Fall River, MA              | 22                         | 18    | 1     | 3     | —    | —  | 2           | Jacksonville, FL             | 157            | 95                         | 47    | 7     | 5    | 3   | 4   |  |                           |
| Hartford, CT                | 49                         | 33    | 8     | 5     | 1    | 2  | 2           | Miami, FL                    | 109            | 77                         | 19    | 12    | 1    | —   | 20  |  |                           |
| Lowell, MA                  | 23                         | 20    | 3     | —     | —    | —  | —           | Norfolk, VA                  | 36             | 25                         | 6     | 2     | —    | 3   | —   |  |                           |
| Lynn, MA                    | 11                         | 9     | —     | 2     | —    | —  | 1           | Richmond, VA                 | 58             | 25                         | 23    | 8     | 1    | 1   | —   |  |                           |
| New Bedford, MA             | 27                         | 22    | 4     | 1     | —    | —  | 3           | Savannah, GA                 | 67             | 42                         | 14    | 4     | 2    | 5   | 5   |  |                           |
| New Haven, CT               | 50                         | 33    | 6     | 4     | 1    | 6  | 7           | St. Petersburg, FL           | 43             | 27                         | 8     | 2     | —    | 6   | —   |  |                           |
| Providence, RI              | 53                         | 32    | 12    | 6     | 1    | 2  | 5           | Tampa, FL                    | 188            | 122                        | 39    | 14    | 7    | 6   | 11  |  |                           |
| Somerville, MA              | 1                          | 1     | —     | —     | —    | —  | —           | Washington, D.C.             | 96             | 56                         | 16    | 12    | 3    | 7   | 3   |  |                           |
| Springfield, MA             | 40                         | 28    | 7     | 2     | 1    | 2  | 5           | Wilmington, DE               | 18             | 9                          | 4     | 2     | 3    | —   | 1   |  |                           |
| Waterbury, CT               | 28                         | 23    | 3     | 2     | —    | —  | 3           | <b>E.S. Central</b>          | 850            | 549                        | 211   | 53    | 20   | 17  | 66  |  |                           |
| Worcester, MA               | 60                         | 36    | 22    | 1     | —    | 1  | 2           | Birmingham, AL               | 152            | 99                         | 39    | 8     | 3    | 3   | 13  |  |                           |
| <b>Mid. Atlantic</b>        | 2,136                      | 1,475 | 482   | 109   | 37   | 33 | 113         | Chattanooga, TN              | 99             | 67                         | 18    | 10    | 2    | 2   | 4   |  |                           |
| Albany, NY                  | 55                         | 35    | 12    | 4     | 2    | 2  | 2           | Knoxville, TN                | 101            | 67                         | 24    | 5     | 4    | 1   | 9   |  |                           |
| Allentown, PA               | 25                         | 20    | 4     | 1     | —    | —  | 1           | Lexington, KY                | 69             | 45                         | 17    | 4     | 2    | 1   | 4   |  |                           |
| Buffalo, NY                 | 65                         | 44    | 16    | 4     | 1    | —  | 1           | Memphis, TN                  | 157            | 98                         | 44    | 12    | 2    | 1   | 19  |  |                           |
| Camden, NJ                  | 26                         | 17    | 4     | 2     | —    | 3  | —           | Mobile, AL                   | 75             | 49                         | 15    | 5     | 2    | 4   | 3   |  |                           |
| Elizabeth, NJ               | 10                         | 4     | 4     | 2     | —    | —  | —           | Montgomery, AL               | 50             | 33                         | 10    | 3     | 2    | 2   | 2   |  |                           |
| Erie, PA                    | 40                         | 31    | 6     | 3     | —    | —  | 2           | Nashville, TN                | 147            | 91                         | 44    | 6     | 3    | 3   | 12  |  |                           |
| Jersey City, NJ             | 15                         | 10    | 5     | —     | —    | —  | 2           | <b>W.S. Central</b>          | 1,313          | 841                        | 306   | 86    | 42   | 38  | 71  |  |                           |
| New York City, NY           | 972                        | 648   | 245   | 49    | 17   | 13 | 52          | Austin, TX                   | 81             | 55                         | 15    | 6     | 2    | 3   | 2   |  |                           |
| Newark, NJ                  | 30                         | 19    | 7     | 2     | —    | 2  | 3           | Baton Rouge, LA              | 62             | 37                         | 8     | 10    | 7    | —   | —   |  |                           |
| Paterson, NJ                | 14                         | 9     | 3     | 1     | —    | 1  | —           | Corpus Christi, TX           | U              | U                          | U     | U     | U    | U   | U   |  |                           |
| Philadelphia, PA            | 492                        | 326   | 117   | 30    | 11   | 8  | 28          | Dallas, TX                   | 198            | 115                        | 47    | 17    | 8    | 11  | 13  |  |                           |
| Pittsburgh, PA <sup>‡</sup> | 22                         | 13    | 9     | —     | —    | —  | 1           | El Paso, TX                  | 99             | 76                         | 16    | 3     | —    | 4   | 1   |  |                           |
| Reading, PA                 | 27                         | 22    | 4     | 1     | —    | —  | 1           | Fort Worth, TX               | 107            | 63                         | 32    | 5     | 3    | 4   | 3   |  |                           |
| Rochester, NY               | 132                        | 106   | 18    | 4     | 2    | 2  | 8           | Houston, TX                  | 372            | 225                        | 95    | 27    | 14   | 11  | 24  |  |                           |
| Schenectady, NY             | 21                         | 19    | 1     | —     | —    | 1  | 3           | Little Rock, AR              | U              | U                          | U     | U     | U    | U   | U   |  |                           |
| Scranton, PA                | 30                         | 24    | 4     | 2     | —    | —  | 2           | New Orleans, LA <sup>†</sup> | U              | U                          | U     | U     | U    | U   | U   |  |                           |
| Syracuse, NY                | 104                        | 89    | 10    | 2     | 2    | 1  | 5           | San Antonio, TX              | 212            | 153                        | 43    | 8     | 6    | 2   | 18  |  |                           |
| Trenton, NJ                 | 23                         | 14    | 7     | —     | 2    | —  | —           | Shreveport, LA               | 51             | 35                         | 14    | 1     | —    | 1   | 3   |  |                           |
| Utica, NY                   | 16                         | 13    | 2     | 1     | —    | —  | —           | Tulsa, OK                    | 131            | 82                         | 36    | 9     | 2    | 2   | 7   |  |                           |
| Yonkers, NY                 | 17                         | 12    | 4     | 1     | —    | —  | 2           | <b>Mountain</b>              | 1,129          | 742                        | 252   | 81    | 34   | 19  | 65  |  |                           |
| <b>E.N. Central</b>         | 1,876                      | 1,217 | 468   | 109   | 35   | 47 | 126         | Albuquerque, NM              | 118            | 82                         | 24    | 6     | 3    | 3   | 9   |  |                           |
| Akron, OH                   | 56                         | 36    | 13    | 3     | 1    | 3  | 3           | Boise, ID                    | 63             | 48                         | 9     | 5     | 1    | —   | 5   |  |                           |
| Canton, OH                  | 44                         | 30    | 10    | 4     | —    | —  | 7           | Colorado Springs, CO         | 65             | 46                         | 10    | 6     | 2    | 1   | —   |  |                           |
| Chicago, IL                 | 343                        | 191   | 102   | 31    | 7    | 12 | 33          | Denver, CO                   | 93             | 58                         | 25    | 5     | 1    | 4   | 6   |  |                           |
| Cincinnati, OH              | 67                         | 44    | 14    | 4     | 1    | 4  | 7           | Las Vegas, NV                | 309            | 195                        | 84    | 22    | 8    | —   | 16  |  |                           |
| Cleveland, OH               | 210                        | 154   | 44    | 3     | 5    | 4  | 9           | Ogden, UT                    | 12             | 9                          | 1     | —     | 1    | 1   | —   |  |                           |
| Columbus, OH                | 229                        | 128   | 69    | 20    | 7    | 5  | 13          | Phoenix, AZ                  | 181            | 94                         | 54    | 16    | 8    | 8   | 9   |  |                           |
| Dayton, OH                  | 114                        | 86    | 22    | 3     | 1    | 2  | 7           | Pueblo, CO                   | 38             | 27                         | 4     | 3     | 4    | —   | 2   |  |                           |
| Detroit, MI                 | U                          | U     | U     | U     | U    | U  | U           | Salt Lake City, UT           | 109            | 71                         | 20    | 14    | 4    | —   | 12  |  |                           |
| Evansville, IN              | 41                         | 30    | 7     | 4     | —    | —  | —           | Tucson, AZ                   | 141            | 112                        | 21    | 4     | 2    | 2   | 6   |  |                           |
| Fort Wayne, IN              | 74                         | 50    | 18    | 2     | 3    | 1  | 1           | <b>Pacific</b>               | 1,608          | 1,108                      | 348   | 93    | 22   | 37  | 136 |  |                           |
| Gary, IN                    | 19                         | 9     | 7     | 2     | 1    | —  | —           | Berkeley, CA                 | 19             | 10                         | 5     | 3     | 1    | —   | 4   |  |                           |
| Grand Rapids, MI            | 52                         | 37    | 9     | 3     | 1    | 2  | 8           | Fresno, CA                   | U              | U                          | U     | U     | U    | U   | U   |  |                           |
| Indianapolis, IN            | 165                        | 113   | 38    | 7     | 1    | 6  | 16          | Glendale, CA                 | 36             | 28                         | 6     | —     | —    | 2   | 4   |  |                           |
| Lansing, MI                 | 59                         | 35    | 21    | 2     | 1    | —  | 2           | Honolulu, HI                 | 82             | 67                         | 10    | 3     | 1    | 1   | 8   |  |                           |
| Milwaukee, WI               | 110                        | 68    | 31    | 9     | 2    | —  | 7           | Long Beach, CA               | 50             | 33                         | 11    | 5     | 1    | —   | 3   |  |                           |
| Peoria, IL                  | 42                         | 28    | 11    | 2     | —    | 1  | 1           | Los Angeles, CA              | 244            | 154                        | 66    | 14    | 4    | 6   | 34  |  |                           |
| Rockford, IL                | 57                         | 38    | 15    | 2     | —    | 2  | 2           | Pasadena, CA                 | 20             | 13                         | 6     | 1     | —    | —   | —   |  |                           |
| South Bend, IN              | 52                         | 33    | 9     | 5     | 3    | 2  | 1           | Portland, OR                 | 118            | 78                         | 26    | 8     | 1    | 5   | 7   |  |                           |
| Toledo, OH                  | 81                         | 54    | 22    | 2     | 1    | 2  | 2           | Sacramento, CA               | 177            | 124                        | 38    | 10    | 4    | 1   | 19  |  |                           |
| Youngstown, OH              | 61                         | 53    | 6     | 1     | —    | 1  | 7           | San Diego, CA                | 152            | 102                        | 32    | 7     | 1    | 10  | 9   |  |                           |
| <b>W.N. Central</b>         | 603                        | 386   | 141   | 37    | 26   | 13 | 41          | San Francisco, CA            | 124            | 86                         | 23    | 11    | 2    | 2   | 11  |  |                           |
| Des Moines, IA              | U                          | U     | U     | U     | U    | U  | U           | San Jose, CA                 | 211            | 148                        | 44    | 13    | 2    | 4   | 21  |  |                           |
| Duluth, MN                  | 34                         | 28    | 2     | 2     | 2    | —  | 3           | Santa Cruz, CA               | 28             | 20                         | 6     | 2     | —    | —   | 2   |  |                           |
| Kansas City, KS             | 16                         | 7     | 5     | 2     | 2    | —  | 1           | Seattle, WA                  | 124            | 82                         | 35    | 3     | 1    | 3   | 7   |  |                           |
| Kansas City, MO             | 107                        | 63    | 27    | 6     | 7    | 4  | 4           | Spokane, WA                  | 73             | 56                         | 8     | 7     | 2    | —   | 4   |  |                           |
| Lincoln, NE                 | 33                         | 28    | 5     | —     | —    | —  | 4           | Tacoma, WA                   | 150            | 107                        | 32    | 6     | 2    | 3   | 3   |  |                           |
| Minneapolis, MN             | 63                         | 44    | 12    | 5     | 1    | 1  | 6           | <b>Total</b>                 | 11,204**       | 7,404                      | 2,585 | 693   | 259  | 260 | 748 |  |                           |
| Omaha, NE                   | 95                         | 58    | 24    | 9     | 3    | 1  | 10          |                              |                |                            |       |       |      |     |     |  |                           |
| St. Louis, MO               | 130                        | 71    | 37    | 8     | 8    | 6  | 4           |                              |                |                            |       |       |      |     |     |  |                           |
| St. Paul, MN                | 52                         | 34    | 13    | 2     | 2    | 1  | 3           |                              |                |                            |       |       |      |     |     |  |                           |
| Wichita, KS                 | 73                         | 53    | 16    | 3     | 1    | —  | 6           |                              |                |                            |       |       |      |     |     |  |                           |

U: Unavailable. —: No reported cases.

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

† Pneumonia and influenza.

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

§ Because of Hurricane Katrina, weekly reporting of deaths has been temporarily disrupted.

\*\* Total includes unknown ages.





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