Centers for Disease Control and Prevention

Weekly / Vol. 59 / No. 31

Morbidity and Mortality Weekly Report

August 13, 2010

Surveillance for Foodborne Disease Outbreaks — United States, 2007

Foodborne agents cause an estimated 76 million illnesses annually in the United States (1). Outbreak surveillance provides insights into the causes of foodborne illness, types of implicated foods, and settings of foodborne infections that can be used in food safety strategies to prevent and control foodborne disease. CDC collects data on foodborne disease outbreaks submitted from all states and territories. This report summarizes epidemiologic data for the 1,097 reported outbreaks occurring during 2007 (the most recent finalized data), which resulted in 21,244 cases of foodborne illness and 18 deaths. Among the 497 foodborne outbreaks with a laboratory-confirmed single etiologic agent reported, norovirus was the most common cause, followed by Salmonella. Among the 18 reported deaths, 11 were attributed to bacterial etiologies (five Salmonella, three Listeria monocytogenes, two Escherichia coli O157:H7, and one Clostridium botulinum), two to viral etiologies (norovirus), and one to a chemical (mushroom toxin). Four deaths occurred in outbreaks with unknown etiologies. Among the 235 outbreaks attributed to a single food commodity, poultry (17%), beef (16%), and leafy vegetables (14%) were most often the cause of illness. Public health, regulatory, and agricultural professionals can use this information when creating targeted control strategies and to support efforts to promote safe food preparation practices among food employees and the public.

A foodborne disease outbreak is defined as the occurrence of two or more similar illnesses resulting from ingestion of a common food. State, local, and territorial health departments use a standard, Internet-based form to voluntarily submit reports of foodborne outbreaks to the Foodborne Disease Outbreak Surveillance System, and a toolkit for investigation and reporting of outbreaks is used to guide reporting officials.*

This report includes outbreaks occurring in 2007 and reported to CDC by May 3, 2010. Population-based rates of reported outbreaks were calculated for each state using U.S. Census estimates of the 2007 state populations.[†] Reported outbreak data include the number of illnesses, hospitalizations, and deaths associated with each outbreak; the etiologic agent, either confirmed or suspected[§]; and the implicated food vehicle. CDC classifies implicated foods into the following 17 food commodities: finfish, crustaceans, mollusks, dairy, eggs, beef, game, pork, poultry, grains-beans, oils-sugars, fruits-nuts, fungi, leafy vegetables, root vegetables, sprouts, and vegetables from a vine or stalk (2). Outbreaks in which the reported food vehicle contained ingredients from only one commodity were assigned to that commodity; those in which the reported food vehicle contained ingredients from more than one commodity, could not be grouped in one of the 17 commodities (e.g., coffee, alcohol), or contained insufficient information for commodity assignment were not attributed to any commodity.

Public health officials from 48 states, Puerto Rico, and the District of Columbia reported 1,097 foodborne disease outbreaks; multistate outbreaks involving two additional states (Montana and Nevada) were reported indirectly (Figure). The

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^{*} The reporting form is available via the National Outbreak Reporting System at http://www.cdc.gov/outbreaknet/nors; the toolkit is available at http://www.cdc.gov/outbreaknet/references_resources.

[†] US Census Bureau. Population, population change and estimated components of population change: April 1, 2000 to July 1, 2008. Available at http://www. census.gov/popest/datasets.html.

SAvailable at http://www.cdc.gov/outbreaknet/references_resources/guide_ confirming_diagnosis.html.

number of foodborne disease outbreaks (1,097) reported to CDC in 2007 was 8% lower than the annual average (1,193) reported for 2002–2006, and the number of outbreak-related illnesses (21,244 versus 25,079) was 15% lower. The number of outbreaks reported by each state or territory during 2007 varied from 0 to 149 (median: 0.30 outbreaks per 100,000 population; range: 0.03-1.90). A confirmed or suspected single etiologic agent was identified in 698 (64%) outbreaks (497 confirmed, 201 suspected), resulting in 15,477 (73%) illnesses (Table 1). Among the 363 outbreaks with an unknown etiology (5,122 illnesses), 257 outbreaks (71%) with 3,904 illnesses (76%) also had an unknown food vehicle. Outbreaks in which few persons became ill were more likely to have an unknown etiology. Among the 146 outbreaks in which no more than two persons became ill, 51% had no confirmed or suspected etiology. In contrast, no confirmed or suspected etiology was identified for 40% of 346 outbreaks involving three to seven illnesses, 30% of the 89 outbreaks involving eight or nine illnesses, and 24% of the 519 outbreaks involving 10 or more illnesses. The most common reasons reported for not identifying an etiology or food vehicle were 1) delayed reporting of illnesses to the health department, 2) too many food items were consumed by ill persons to identify a single food as the contaminated vehicle, and 3) human or food sample test results were unavailable, either because samples could not be obtained or because tests were negative for the pathogens evaluated.

Among the 497 outbreaks (12,767 illnesses) with a confirmed single etiologic agent, bacteria caused 259 (52%) outbreaks with 6,441 (50%) illnesses, viruses caused 199 (40%) outbreaks with 6,120 (48%) illnesses, chemical agents caused 34 (7%) outbreaks with 141 (1%) illnesses, and parasites caused five (1%) outbreaks with 65 (1%) illnesses. Norovirus was the most common cause of illness, accounting for 193 (39%) of the confirmed single-etiology outbreaks and 97% of those caused by viruses. Salmonella was the second most common, causing 136 (27%) confirmed single-etiology outbreaks and 53% of those attributed to bacteria. Among Salmonella serotypes identified, Enteritidis was the most common, causing 28 confirmed single-etiology outbreaks with 555 illnesses. Shiga toxin-producing E. coli (STEC) caused 40 of the confirmed single-etiology outbreaks (15% of those attributed to bacteria), of which 39 were caused by serogroup O157.

Among the 18 multistate foodborne disease outbreaks (i.e., outbreaks in which exposure to the

The *MMWR* series of publications is published by the Office of Surveillance, Epidemiology, and Laboratory Services, Centers for Disease Control and Prevention (CDC), U.S. Department of Health and Human Services, Atlanta, GA 30333. Suggested citation: Centers for Disease Control and Prevention. [Article title]. MMWR 2010;59:[inclusive page numbers].

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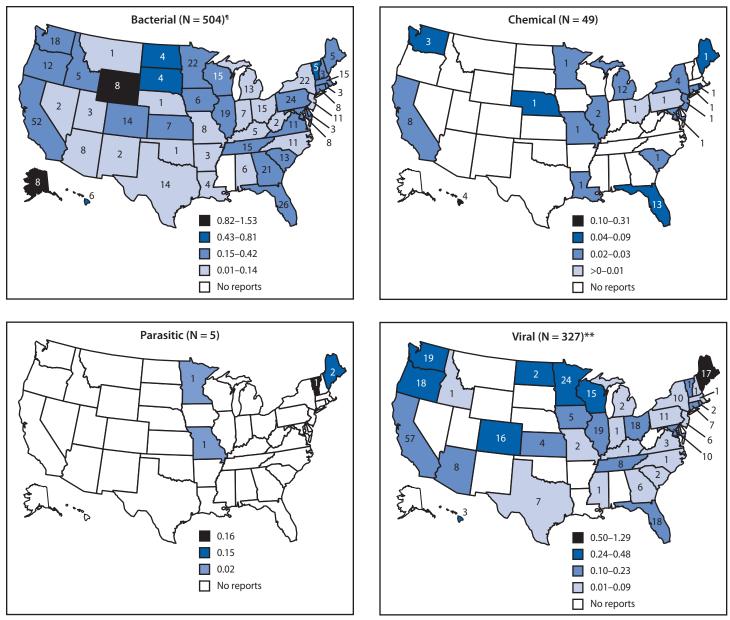


FIGURE. Rate of reported foodborne disease outbreaks per 100,000 standard population* and number of outbreaks,[†] by state and major etiology group[§] — United States, 2007

* Cutpoints for outbreak rate categories determined using Jenks Natural Breaks Optimization in ArcGIS.

[†] Number of reported outbreaks in each state.

[§] Analysis restricted to outbreaks attributed to a single confirmed or suspected etiology. Note that legend differs for each etiology.

[¶] Includes 17 multistate outbreaks, which are assigned as an outbreak to each state involved. An outbreak in Puerto Rico is not shown.

** Includes one multistate outbreak, which is assigned as an outbreak to each state involved.

etiologic agent or agents occurred in more than one state), 10 were attributed to *Salmonella*, six to *E. coli* O157:H7, one to *C. botulinum*, and one to norovirus. Foods associated with multistate *Salmonella* outbreaks included commercially-processed frozen pot pies (401 illnesses, three deaths), commercially-processed vegetable snacks (87 illnesses), eggs (81 illnesses), spinach/lettuce (76 illnesses), beefsteak tomatoes (65 illnesses), raw tuna (44 illnesses), ground beef (43 illnesses), cheese (20 illnesses), alfalfa sprouts (15 illnesses), and raw fresh basil (11 illnesses). Of the six multistate outbreaks of *E. coli* O157:H7 infection, the vehicle for five was ground beef (117 illnesses) and the vehicle for one was commercially-processed frozen pepperoni pizzas (27 illnesses). The vehicle for the *C. botulinum* toxin outbreak (eight illnesses)

TABLE 1. Number and percentage of reported foodborne outbreaks and outbreak-associated illnesses, by etiology* — United States, 2007,[†] and 2002–2006 mean annual totals

| | | Οι | ıtbreak | S | | | | I | Inesses | | | |
|--|-----------|-----------|---------|-------|-------|--------|-----------|-----------|---------|-------|-----------|-------|
| | | 2007 | | | 2002 | -2006 | | 2007 | | | 2002-2006 | |
| | | | | | Mean | annual | | | | | Mean a | nnual |
| | Confirmed | Suspected | То | otal | to | tal | Confirmed | Suspected | Tot | al | tot | al |
| Etiology | etiology | etiology | No. | (%) | No. | (%) | etiology | etiology | No. | (%) | No. | (%) |
| Bacterial | | | | | | | | | | | | |
| Salmonella [§] | 136 | 6 | 142 | (20) | 144 | (11) | 3,465 | 50 | 3,515 | (23) | 3,475 | (12) |
| Clostridium perfringens | 31 | 14 | 45 | (6) | 34 | (4) | 1,304 | 302 | 1,606 | (10) | 2,062 | . , |
| Staphylococcus enterotoxin [¶] | 11 | 10 | 21 | (3) | 25 | (4) | 242 | 44 | 286 | (2) | 554 | (2) |
| Escherichia coli, Shiga toxin-producing (STEC)** | 40 | 2 | 42 | (6) | 28 | (2) | 593 | 10 | 603 | (4) | 375 | (1) |
| Campylobacter ^{††} | 21 | 6 | 27 | (4) | 22 | (2) | 346 | 26 | 372 | (2) | 624 | (2) |
| Bacillus cereus | 4 | 15 | 19 | (3) | 10 | (2) | 67 | 97 | 164 | (1) | 130 | (0) |
| Shigella ^{§§} | 10 | 1 | 11 | (2) | 12 | (1) | 338 | 17 | 355 | (2) | 495 | (2) |
| Vibrio parahaemolyticus | | 1 | 1 | (2) | 5 | (1) | | 5 | 5 | (2) | 114 | (0) |
| Listeria ^{¶¶} | 1 | ' | 1 | (0) | 2 | (0) | 5 | | 5 | (0) | 22 | (0) |
| | | | | • • • | | • • • | | | | • • • | | |
| Clostridium botulinum | 3 | 1 | 4 | (1) | 3 | (0) | 12 | 4 | 16 | (0) | 11 | (0) |
| Brucella spp | 1 | _ | 1 | (0) | 0 | (0) | 3 | | 3 | (0) | 1 | (0) |
| Escherichia coli, enterotoxigenic | 1 | 1 | 2 | (0) | 2 | (0) | 66 | 76 | 142 | (1) | 106 | (0) |
| Yersinia enterocolitica | _ | _ | | (0) | 2 | (0) | — | _ | | (0) | 5 | (0) |
| Other bacterial | — | 4 | 4 | (1) | 10 | (1) | — | 43 | 43 | (0) | 122 | (0) |
| Total | 259 | 61 | 320 | (46) | 299 | (41) | 6,441 | 674 | 7,115 | (46) | 8,098 | (28) |
| Chemical | | | | | | | | | | | | |
| Scombroid toxin/Histamine | 17 | 3 | 20 | (3) | 36 | (3) | 48 | 26 | 74 | (0) | 131 | (0) |
| Ciguatoxin | 14 | | 14 | (2) | 17 | (1) | 84 | _ | 84 | (0) | 51 | (0) |
| Mycotoxins | | 3 | 3 | (0) | 2 | (0) | | 10 | 10 | (0) | 17 | (0) |
| Neurotoxic shellfish poison | _ | 1 | 1 | (0) | 1 | (0) | _ | 3 | 3 | (0) | 4 | (0) |
| Puffer fish tetrodotoxin | 1 | _ | 1 | (0) | 0 | (0) | 2 | _ | 2 | (0) | 0 | (0) |
| Heavy metals | 1 | _ | 1 | (0) | 1 | (0) | 3 | | 3 | (0) | 4 | |
| Paralytic shellfish poison | 1 | | 1 | (0) | 1 | (0) | 4 | _ | 4 | (0) | 6 | (0) |
| Other natural toxins | 1 | 3 | 3 | (0) | 1 | (0) | - | 12 | 12 | (0) | 2 | • • • |
| | _ | | 5 | • • • | 8 | • • • | | | | | | • • • |
| Other chemical | | 5 | | (1) | | (1) | | 18 | 18 | (0) | 177 | (1) |
| Total | 34 | 15 | 49 | (7) | 67 | (9) | 141 | 69 | 210 | (1) | 396 | (1) |
| Parasitic | | | | | | | | | | | | |
| Cryptosporidium | 3 | | 3 | (0) | 2 | (0) | 14 | _ | 14 | (0) | 45 | (0) |
| Cyclospora | _ | _ | _ | (0) | 3 | (0) | _ | _ | _ | (0) | 194 | (1) |
| Giardia | 2 | _ | 2 | (0) | 2 | (0) | 51 | _ | 51 | (0) | 34 | (0) |
| Trichinella | _ | | — | (0) | 1 | (0) | — | — | — | (0) | 2 | (0) |
| Other parasitic | _ | _ | _ | (0) | 0 | (0) | _ | _ | _ | (0) | 4 | (0) |
| Total | 5 | _ | 5 | (1) | 9 | (1) | 65 | _ | 65 | (0) | 279 | (1) |
| Viral | | | | | | | | | | | | |
| Norovirus | 193 | 124 | 317 | (45) | 338 | (33) | 6,059 | 1,965 | 8,024 | (52) | 10,854 | (37) |
| Hepatitis A | 4 | | 4 | (1) | 7 | (1) | 28 | 1,505 | 28 | (0) | 238 | (1) |
| Rotavirus | 1 | 1 | 2 | (0) | 0 | (0) | 16 | 2 | 18 | (0) | 15 | (0) |
| | 1 | _ | 2 | | - | | | | | | | |
| Other Viral | • | | | (0) | 2 | (0) | 17 | | 17 | (0) | 133 | (0) |
| Total | 199 | 125 | 324 | (46) | 348 | (48) | 6,120 | 1,967 | 8,087 | | 11,243 | |
| Single etiology (subtotal) | 497 | 201 | 698 | (64) | 796 | (67) | 12,767 | 2,710 | 15,477 | (73) | | (3) |
| Unknown etiology*** | | — | 363 | (33) | 355 | (30) | — | _ | 5,122 | (24) | 4,052 | (14) |
| Multiple etiologies | 12 | 24 | 36 | (3) | 42 | (4) | 402 | 243 | 645 | (3) | 1,009 | (5) |
| Total | 509 | 225 | 1,097 | (100) | 1,193 | (100) | 13,169 | 2,953 | 21,244 | (100) | 25,079 | (100) |

* If all reported etiologies were laboratory-confirmed, the outbreak was considered to have a "confirmed etiology." If at least one etiology was not laboratoryconfirmed, but an etiology was reported based on clinical or epidemiologic features, the outbreak was considered to have a "suspected etiology."

⁺ As of May 3, 2010.

§ Salmonella serotypes accounting for more than five reported outbreaks include Enteriditis (30 outbreaks), Typhimurium (20), Newport (17), and Heidelberg (nine), and Montevideo (nine).

[¶] Staphylococcus aureus (11 confirmed outbreaks, nine suspected outbreaks) and Staphylococcus unknown (one suspected outbreak).

** STEC 0157:H7 (36 confirmed outbreaks, two suspected outbreaks), STEC 0157:NM(H-) (three confirmed outbreaks), and STEC 0111 (one confirmed outbreak).

⁺⁺ Campylobacter jejuni (14 confirmed outbreaks, three suspected outbreaks) and Campylobacter unknown (seven confirmed outbreaks, three suspected outbreaks).

^{§§} Shigella sonnei (nine confirmed outbreaks, one suspected outbreak) and Shigella unknown (one confirmed outbreak).

^{¶¶} Listeria monocytogenes (one confirmed outbreak).

*** An etiologic agent was not confirmed or suspected based on clinical, laboratory, or epidemiologic information.

was commercially canned hotdog chili sauce. The one multistate outbreak caused by norovirus was associated with raw oysters (40 illnesses).

A food vehicle was identified in 470 (43%) outbreaks associated with 9,818 illnesses, of which 235 (50%) with 4,119 (42%) illnesses were linked to a food vehicle with ingredients limited to only one of the 17 commodities (Table 2). The commodities most commonly implicated in outbreaks were finfish (41 outbreaks), poultry (40 outbreaks), and beef (33 outbreaks); the commodities associated with the most illnesses were poultry (691 illnesses), beef (667 illnesses), and leafy vegetables (590 illnesses). The pathogen-commodity pairs responsible for the most outbreak-related illnesses), *E. coli* O157:H7 in beef (298 illnesses), and *Clostridium perfringens* in poultry (281 illnesses).

Two of the three largest reported outbreaks in 2007 were caused by *Salmonella*. The vehicles were hummus (802 illnesses) and commercially-processed frozen pot pies (401 illnesses and three deaths). The second largest outbreak was caused by norovirus at a conference hotel (526 illnesses); several shared food items were the suspected vehicles. The largest outbreaks assigned to a single food commodity were caused be a chicken dish contaminated with *C. perfringens* (132 illnesses), leafy vegetable salad contaminated with norovirus (128 illnesses), chili beans contaminated with *C. perfringens* (125 illnesses), and beef contaminated with *E. coli* O157:H7 (124 illnesses).

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Editorial Note

Many factors in detection and reporting likely contribute to variation in the annual rate of outbreaks

reported by states. However, the emergence of two new norovirus strains in 2006 likely resulted in a relative increase in norovirus outbreaks in 2006 and early 2007 (3, 4). Subsequently, increased population immunity to these new strains might have contributed to the relative decrease in norovirus outbreaks in 2007. This pattern of emergence of new norovirus strains corresponding with a spike in norovirus outbreaks appears to occur worldwide approximately every 2–3 years (5). The overall decrease in reported outbreaks in 2007 largely resulted from a reduction in the proportion caused by norovirus. The number of outbreaks caused by bacterial agents in 2007 was similar to the 2002–2006 average.

Despite the decrease in 2007, norovirus was still the leading cause of reported outbreaks and outbreakrelated illnesses. Norovirus contamination can occur before the point of food preparation and service, as indicated by recent multistate and international norovirus outbreaks associated with oysters, raspberries, and delicatessen meat (6-8). The large number of norovirus foodborne outbreaks indicates a need for continued attention to preventing food contamination by food employees who come into contact with ready-to-eat foods. Norovirus outbreaks are thought to largely result from contamination of food via the unwashed or improperly washed hands of food workers shedding norovirus in their stools. Enhanced food safety training for food employees that work with ready-to eat foods, and the presence of a certified food protection manager in food service and retail establishments, as recommended by the Food and Drug Administration's (FDA) Food Code,** might help to reduce the number of outbreaks and outbreak-related illnesses resulting from contamination in food service establishments, if adopted by all states and territories. To date, 49 of 50 states and three of six U.S. territories have adopted codes patterned after versions of the FDA Food Code (9), but the specific components of individual state regulations vary.

The findings in this report are subject to at least four limitations. First, only a small proportion of all foodborne illnesses reported each year are identified as associated with outbreaks. For example, in FoodNet sites during 2007, only 5.4% of *Salmonella* illnesses reported to CDC were part of a recognized outbreak (*10*). Some illnesses reported as sporadic likely are not

⁹ Additional data on foodborne disease outbreaks and illnesses for the 17 commodity categories can be found at http://www.cdc.gov/ outbreaknet/surveillance_data.html.

^{**} The 2009 Food Code and earlier versions are available at http://www. fda.gov/food/foodsafety/retailfoodprotection/foodcode/default.htm.

TABLE 2. Number of reported foodborne disease outbreaks and outbreak-associated illnesses, by etiology* and food vehicle attribution — United States, 2007.[†]

| | | | Outbreak | s (illnesses) | | | | | |
|--|-----|--------------------------------------|------------|--|-----|------------------------|--------------------------|----------|--|
| Etiology | | d to a single nodity [§] | containing | ed to food at least two nodities | | l to unknown modity | Total outbreaks (illness | | |
| Bacterial | | | | | | | | | |
| Salmonella¶ | 32 | (816) | 39 | (1,939) | 71 | (760) | 142 | (3,515) | |
| Clostridium perfringens | 21 | (652) | 18 | (535) | 6 | (419) | 45 | (1,606) | |
| Staphylococcus enterotoxin** | 7 | (186) | 7 | (59) | 7 | (41) | 21 | (286) | |
| Escherichia coli, Shiga toxin-producing (STEC) ^{††} | 18 | (341) | 3 | (30) | 21 | (232) | 42 | (603) | |
| Campylobacter ^{§§} | 15 | (252) | 1 | (48) | 11 | (72) | 27 | (372) | |
| Bacillus cereus | 4 | (51) | 9 | (75) | 6 | (38) | 19 | (164) | |
| Shigella ^{¶¶} | 3 | (132) | 0 | (0) | 8 | (223) | 11 | (355) | |
| Vibrio parahaemolyticus | 1 | (5) | 0 | (0) | 0 | (0) | 1 | (5) | |
| Listeria*** | 1 | (5) | 0 | (0) | 0 | (0) | 1 | (5) | |
| Clostridium botulinum | 1 | (4) | 2 | (10) | 1 | (2) | 4 | (16) | |
| Brucella spp | 1 | (3) | 0 | (0) | 0 | (0) | 1 | (3) | |
| Escherichia coli, enterotoxigenic | 0 | (0) | 1 | (76) | 1 | (66) | 2 | (142) | |
| Yersinia enterocolitica | 0 | (0) | 0 | (0) | 0 | (0) | 0 | (0) | |
| Other bacterial | 1 | (32) | 1 | (3) | 2 | (8) | 4 | (43) | |
| Total | 105 | (2,479) | 81 | (2,775) | 134 | (1,861) | 320 | (7,115) | |
| Chemical | | | | | | | | | |
| Scombroid toxin/Histamine | 19 | (72) | 1 | (2) | 0 | (0) | 20 | (74) | |
| Ciguatoxin | 13 | (81) | 1 | (3) | 0 | (0) | 14 | (84) | |
| Mycotoxins | 3 | (10) | 0 | (0) | 0 | (0) | 3 | (10) | |
| Neurotoxic shellfish poison | 1 | (3) | 0 | (0) | 0 | (0) | 1 | (3) | |
| Puffer fish tetrodotoxin | 0 | (0) | 1 | (2) | 0 | (0) | 1 | (2) | |
| Heavy metals | 0 | (0) | 0 | (0) | 1 | (3) | 1 | (3) | |
| Paralytic shellfish poison | 1 | (4) | 0 | (0) | 0 | (0) | 1 | (4) | |
| Other natural toxins | 2 | (6) | 0 | (0) | 1 | (6) | 3 | (12) | |
| Other chemical | 2 | (4) | 0 | (0) | 3 | (14) | 5 | (18) | |
| Total | 41 | (180) | 3 | (7) | 5 | (23) | 49 | (210) | |
| Parasitic | | | | | | | | | |
| Cryptosporidium | 0 | (0) | 1 | (5) | 2 | (9) | 3 | (14) | |
| Cyclospora | 0 | (0) | 0 | (0) | 0 | (0) | 0 | (0) | |
| Giardia | 0 | (0) | 1 | (15) | 1 | (36) | 2 | (51) | |
| Trichinella | 0 | (0) | 0 | (0) | 0 | (0) | 0 | (0) | |
| Other parasite | 0 | (0) | 0 | (0) | 0 | (0) | 0 | (0) | |
| Total | 0 | (0) | 2 | (20) | 3 | (45) | 5 | (65) | |
| Viral | | | | | | | | | |
| Norovirus | 39 | (800) | 69 | (1,819) | 209 | (5,405) | 317 | (8,024) | |
| Hepatitis A | 1 | (3) | 1 | (1,819) | 209 | (10) | 4 | (28) | |
| Rotavirus | 0 | (0) | 0 | (13) | 2 | (10) | 2 | (18) | |
| Other viral | 0 | (0) | 0 | (0) | 1 | (17) | 1 | (13) | |
| Total | 40 | (803) | 70 | (1,834) | 214 | (5,450) | 324 | (8,087) | |
| | | | | | | | | | |
| Single etiology (subtotal) | 186 | (3,462) | 156 | (4,636) | 356 | (7,379) | 698 | (15,477) | |
| Unknown etiology ⁺⁺⁺ | 40 | (531) | 66 | (687) | 257 | (3,904) | 363 | (5,122) | |
| Multiple etiologies | 9 | (126) | 13 | (376) | 14 | (143) | 36 | (645) | |
| Total | 235 | (4,119) | 235 | (5,699) | 627 | (11,426) | 1,097 | (21,244) | |

* If all reported etiologies were laboratory-confirmed, the outbreak was considered to have a "confirmed etiology." If at least one etiology was not laboratoryconfirmed, but an etiology was reported based on clinical or epidemiologic features, the outbreak was considered to have a "suspected etiology."

⁺ As of May 3, 2010.

⁵ Data on foodborne disease outbreaks and illnesses for each of the 17 commodity categories is available at http://www.cdc.gov/outbreaknet/surveillance_data.html.
¹ Salmonella serotypes accounting for more than five outbreaks reported include Enteriditis (30 outbreaks), Typhimurium (20), Newport (17), and Heidelberg (nine), and Montevideo (nine).

** Staphylococcus aureus (11 confirmed outbreaks, nine suspected outbreaks) and Staphylococcus unknown (one suspected outbreak).

⁺⁺ STEC O157:H7 (36 confirmed outbreaks, two suspected outbreaks), STEC O157:NM(H-) (three confirmed outbreaks), and STEC O111 (one confirmed outbreak). ^{§§} Campylobacter jejuni (14 confirmed outbreaks, three suspected outbreaks) and Campylobacter unknown (seven confirmed outbreaks, three suspected outbreaks)

breaks). ^{¶¶} Shigella sonnei (nine confirmed outbreaks, one suspected outbreak) and Shigella unknown (one confirmed outbreak).

*** Listeria monocytogenes (one confirmed outbreak).

⁺⁺⁺ An etiologic agent was not confirmed or suspected based on clinical, laboratory, or epidemiologic information.

What is already known on this topic?

Surveillance for foodborne disease outbreaks can identify opportunities to prevent and control foodborne diseases, which cause millions of illnesses in the United States each year.

What is added by this report?

Among the 1,097 foodborne disease outbreaks reported in 2007, most of the single, laboratoryconfirmed, agents of outbreak-associated illnesses (12,767) were norovirus (47%) and *Salmonella* (27%). Among outbreaks in which a pathogen and a singlecommodity food vehicle were identified, most were attributed to norovirus in leafy vegetables, *Escherichia coli* O157 in beef, or *Clostridium perfringens* in poultry.

What are the implications for public health practice?

Timely investigation and reporting of foodborne outbreaks can provide public health, regulatory, and agricultural professionals with information to target control and prevention strategies as well as to promote good food-handling practices among food employees and the public.

recognized as being part of a reported outbreak or are part of undetected outbreaks. All outbreak-associated illnesses might not be identified during an investigation, and smaller outbreaks might not come to the attention of public health authorities. Second, because of competing priorities in health departments, not all recognized clusters of illness are investigated or reported to CDC. Third, many reported outbreaks had an unknown etiology, an unknown food vehicle, or both, and conclusions drawn from outbreaks with a confirmed or suspected etiology or food vehicle might not apply to outbreaks of unknown etiology or food source. Finally, CDC's outbreak surveillance database is dynamic; reporting agencies can submit new reports and can change or delete previous reports at any time as new information becomes available. Therefore, the results of this analysis represent data available at a single point in time and might differ from those published earlier or subsequently.

Although most foodborne illnesses are sporadic, investigations of those that occur as part of recognized outbreaks provide insights into the agents, food vehicles, and food handling practices that lead to foodborne illness. Unlike laboratory-based surveillance systems, in which the sources of illnesses are rarely reported, the investigation and reporting of outbreaks provides important epidemiologic information that can be used to inform food safety policy. For example, recognition of E. coli O157:H7 infections caused by contaminated ground beef in the early 1990s led to regulatory and industry interventions that contributed to a decline in E. coli O157:H7 contamination of ground beef. Determining the etiologic agent and the food vehicle for small outbreaks is inherently more difficult because fewer affected persons are available to provide clinical specimens and food histories. However, even when no etiology or food vehicle is confirmed as the cause of foodborne illnesses, the investigative process provides health departments the opportunity to detect and remedy problems with food storage, preparation, and service that might prevent future outbreaks. Further information on foodborne disease outbreaks, including the Foodborne Outbreak Online Database (FOOD), is available at http://www. cdc.gov/foodborneoutbreaks.

Acknowledgments

The findings in this report are based, in part, on contributions by state, territorial, tribal, and local health departments.

References

- Mead PS, Slutsker L, Dietz V, et al. Food-related illness and death in the United States. Emerg Inf Dis 1999;5:607–25.
- Painter JA, Ayers T, Woodruff R, et al. Recipes for foodborne outbreaks: a scheme for categorizing and grouping implicated foods. Foodborne Pathog Dis 2009;6:1259–64.
- 3. CDC. Norovirus activity—United States, 2006–2007. MMWR 2007;56:842–6.
- CDC. Surveillance for foodborne disease outbreaks—United States, 2006. MMWR 2009;58:609–15.
- 5. Siebenga JJ, Vennema H, Zheng DP, et al. Norovirus illness is a global problem: emergence and spread of norovirus GII.4 variants, 2001–2007. J Infect Dis 2009;200:802–12.
- Korsager B, Hede S, Boggild H, Bottiger BE, Molbak K. Two outbreaks of norovirus infections associated with the consumption of imported frozen raspberries, Denmark, May–June 2005. Euro Surveill 2005;10:E050623.1.
- 7. Dowell SF, Groves C, Kirkland KB, et al. A multistate outbreak of oyster-associated gastroenteritis: implications for interstate tracing of contaminated shellfish. J Infect Dis 1995;171:1497–503.
- Malek M, Barzilay E, Kramer A, et al. Outbreak of norovirus infection among river rafters associated with packaged delicatessen meat, Grand Canyon, 2005. Clin Infect Dis 2009;48:31–7.
- Food and Drug Administration. Real progress in food code adoptions. Silver Spring, MD: Food and Drug Administration; 2010. Available at http://www.fda.gov/food/foodsafety/ retailfoodprotection/federalstatecooperativeprograms/ ucm108156.htm#adopt. Accessed August 5, 2010.
- CDC. FoodNet 2007 surveillance report. Atlanta, GA: US Department of Health and Human Services, CDC; 2009. Available at http://www.cdc.gov/foodnet/annual/2007/2007_ annual_report_508.pdf. Accessed May 5, 2010.

CDC Grand Rounds: Additional Opportunities to Prevent Neural Tube Defects with Folic Acid Fortification

Neural tube defects (NTDs) are serious birth defects that result from the failure of the neural tube to close in the cranial region (anencephaly) or more caudally along the spine (spina bifida) by the 28th day of gestation. Infants born with anencephaly usually die within a few days of birth, and those with spina bifida have life-long disabilities with varying degrees of paralysis. Currently, identified risk factors for NTDs include a mother who previously had an NTD-affected pregnancy, maternal diabetes, obesity, hyperthermia, certain antiseizure medications, genetic variants, race/ethnicity, and nutrition (particularly folic acid insufficiency). In the United States, during 1995–1996, approximately 4,000 pregnancies were affected by an NTD. This number declined to 3,000 pregnancies in 1999-2000 after fortification of enriched cereal grain products with folic acid was mandated (1). Worldwide, in 1998, approximately 300,000 births were affected by an NTD (Figure 1).

Both observational and intervention studies, including randomized, controlled trials, have demonstrated that adequate consumption of folic acid periconceptionally can prevent 50%—70% of NTDs (2). Three approaches can increase intake of folate/ folic acid*: dietary improvement, supplementation, and food fortification. Efforts to improve women's dietary habits so that they consume more foods rich in folate or daily vitamin supplements have had little success because they require behavior change, improved accessibility, affordability, or sustainability (3). Supplementation alone also has not been an effective approach because approximately 50% of

This is another in a series of occasional CDC Grand Rounds reports. These reports are based on grand rounds presentations at CDC on high-profile issues in public health science, practice, and policy. Information regarding CDC Grand Rounds is available at http:// www.cdc.gov/about/grand-rounds. pregnancies are unplanned. Fortifying foods with folic acid has been a highly effective and more uniform intervention, because fortification makes folic acid accessible to all women of childbearing age without requiring behavior change.

In 1992, the U.S. Public Health Service (USPHS) recommended that all women of childbearing age capable of becoming pregnant consume 400 μ g of folic acid daily for prevention of NTDs. In 1996, the Food and Drug Administration (FDA) established regulations that required that by 1998 all standardized enriched cereal grain products sold in the United States include 140 µg folic acid/100 g and provided for the addition of folic acid to breakfast cereals, corn grits, infant formulas, medical foods, and foods for special dietary use. Also in 1998, the Institute of Medicine (IOM) conducted an independent review, with conclusions supporting the USPHS recommendations for folic acid consumption; in 2009, the U.S. Preventive Services Task Force published updated guidelines reinforcing these recommendations (4).

Impact of Fortification with Folic Acid

U.S. NTD and blood folate trends. The mandatory fortification of standardized enriched cereal grain products in the United States resulted in a substantial increase in blood folate concentrations and a concomitant decrease in NTD prevalence. The percentage of the population with low serum folate (<3 ng/mL) declined from 21% in the period before fortification (1988–1994) to <1% of the total population in the period immediately following fortification (1999–2000) (5). NTD prevalence decreased by 36% after fortification, from 10.8 per 10,000 population during 1995–1996 to 6.9 at the end of 2006 (6).

Health disparities. After mandatory fortification in 1998, NTD prevalence declined 30%–40% among the three largest racial and ethnic groups. Nevertheless, 2005–2007 National Birth Defects Prevention Network (NBDPN) data show that Hispanic women continue to be at significantly greater risk (prevalence ratio = 1.21; 95% confidence interval = 1.11–1.31) for having a baby affected by an NTD than non-Hispanic white women (CDC, unpublished data, 2010) (Figure 2). Non-Hispanic

^{*} Folate often is used as a generic term for two different forms of vitamin B9. One form, folate, is found naturally in foods such as beef liver, green leafy vegetables, some fruits, beans, and whole grains. The other form, folic acid, is the synthetic form found in supplements, ready-to-eat breakfast cereals, and fortified foods.

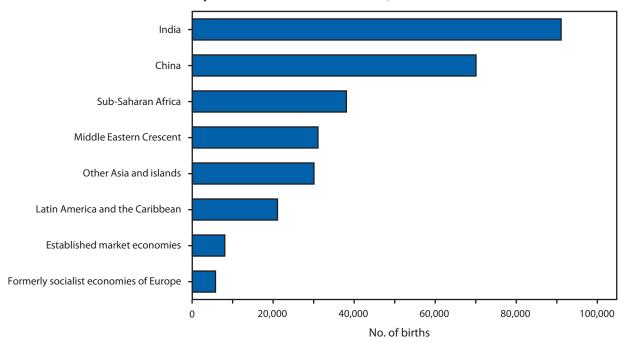


FIGURE 1. Number of births affected by a neural tube defect — worldwide, 1998

Source: Shibuya K, Murray CJ. Congenital anomalies. In: Health dimensions of sex and reproduction: the global burden of sexually transmitted diseases, HIV, maternal conditions, perinatal disorders, and congenital anomalies. Murray CJ, Lopez AD, eds. Boston, Massachusetts: the Harvard School of Public Health on behalf of the World Health Organization and the World Bank; 1998:455–512.

black women have consistently had lower NTD prevalence than Hispanic women and non-Hispanic white women (Figure 2), despite having the lowest folate levels before and after mandatory fortification. Nonfolate risk factors for NTDs might explain this inconsistency between NTD prevalence and folate status and merit further study. Factors that might be contributing to the inconsistency include genetic differences in folate metabolism, maternal diabetes, and obesity, which are known to vary by race and ethnicity; another possibility is intake of nutrients other than folic acid, such as Vitamin B12 (7).

Global NTD and blood folate trends. Successful mandatory fortification programs also have been documented in several other countries, including Canada, Costa Rica, Chile, and South Africa, resulting in significant increases in blood folate concentrations and 25%–50% declines in the prevalence of NTD-affected pregnancies (*3*). For example, in Chile, fortification of wheat flour for bread at 220 μ g folic acid/100 g was associated with a 43% reduction in NTDs from 17.1 per 10,000 population in 1999–2000 to 9.7 in 2001–2002 (*8*).

Cost. Published economic evaluations have shown that folic acid food fortification is cost saving in the United States and other countries. A 2008 study

estimated that current folic acid fortification produces an annual savings of about \$300 million, or \$100 for each \$1 invested in fortification (9). Fortification also has resulted in substantial cost savings globally. Chile has demonstrated a savings of \$11 (in international dollars) for each \$1 invested in fortification (10).

Potential adverse effects. Concerns have been raised that intake of folic acid might cause harmful effects, including progression of nerve damage in B12-deficient persons; excess intake in children; accumulation of unmetabolized folic acid; blunting of antifolate therapy (methotrexate and phenytoin); accelerated cognitive decline in the elderly; epigenetic hypermethylation; and cancer promotion (11). Most of these concerns are associated with consumption of high levels of folic acid from supplement use rather than fortification. A 2010 study using NHANES 2003-2006 data showed that 6% of the U.S. adult population aged >19 years consumed more than the recommended 400 µg folic acid/day from supplements, and almost half of these persons (2.7% of the U.S. adult population) exceeded the tolerable upper level (UL) of average daily usual folic acid intake of 1,000 μ g (12). Conversely, none of the remaining 94% of the U.S. adult population, who consumed \leq 400 µg folic acid per day from supplements,

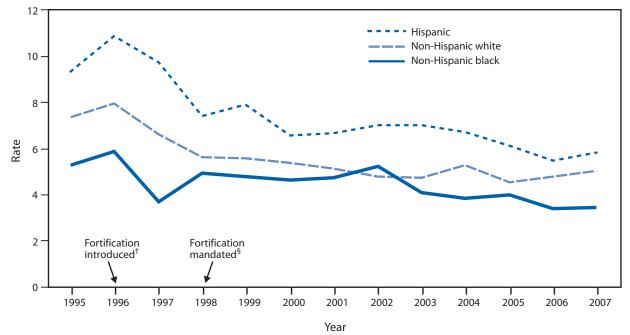


FIGURE 2. Neural tube defect rates per 10,000 population, by race/ethnicity and fortification period status — National Birth Defects Prevention Network,* 1995–2007

* Data from 25 population-based birth defects programs.

⁺ Food and Drug Administration establishes regulations requiring fortification with 140 µg folic acid/100 g of all standardized enriched cereal grain products sold in the United States by 1998.

[§] Mandatory fortification takes effect.

exceeded the UL, regardless of folic acid intake levels from enriched cereal grain products and ready-to-eat cereals. No conclusive evidence exists to indicate that folic acid intake at recommended levels contributes to the causation of any of these conditions of concern; however, continued monitoring and research are needed to ensure that folic acid public health recommendations do not have unintended negative consequences.

Current Opportunities and Strategies

Focus on Hispanics. While nonfolate risk factors for NTDs and their contribution to disparities in NTD prevalence must be further considered, prevalence data suggest that Hispanics also might have a need for additional folic acid. Consideration of ways to enhance the intake of folic acid among Hispanics while not contributing to higher folic acid intake in the general population is a high priority. Targeted folic acid awareness and promotion efforts have been successful in increasing the use of folic acid supplements among Spanish-speaking Hispanic women (*13*), although whether this behavior change is sustained after intensive intervention is concluded has not yet been evaluated. In addition, the possibility of

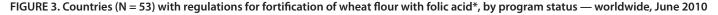
selectively fortifying foods not included in the current fortification regulation that are staples in Hispanic communities, such as corn tortillas or other products made from corn masa flour, is being considered. A recent study suggested that fortifying corn masa flour at the levels currently used for fortified grains (i.e., 140 µg folic acid / 100 g), would increase folic acid consumption by Mexican-American women by 20%, while increasing folic acid consumption among non-Hispanic white and non-Hispanic black women by approximately 5% (14). Currently, FDA regulations do not permit folic acid to be added to corn masa flour. Substantial assessments are needed to address such issues as nutrient composition of corn masa flours; stability, shelf life and consumer acceptance of adding folic acid to such flours; amount of fortification needed to achieve a reduction in risk of NTDs in the target population; and methods for monitoring effectiveness and safety of such proposed fortification.

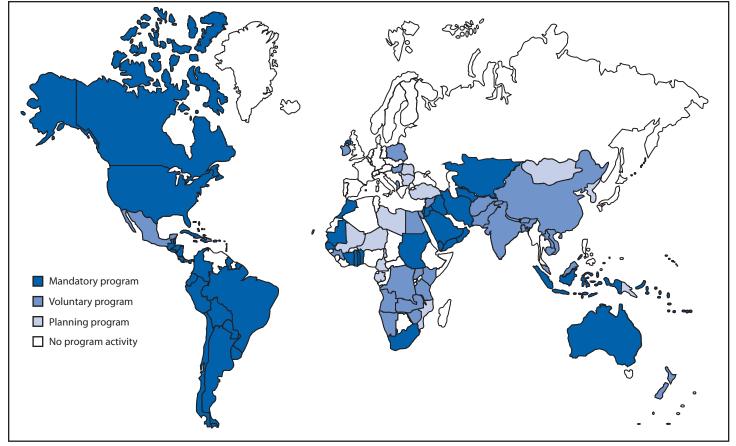
Expand global fortification. NTDs have been reported on every continent and among diverse populations at all levels of economic development. Currently, 53 countries have regulations for mandatory fortification of wheat flour with folic acid,

although many of these programs have not been fully implemented and the existence of regulations does not imply compliance[†] (Figure 3). Micronutrient fortification programs that include folic acid are only preventing an estimated 9% of total annual cases of folic acidpreventable NTDs (15). Expanding the number of developed and developing countries with mandatory folic acid fortification of high consumption staples has the potential to safely eliminate NTDs that are preventable through folic acid consumption.[§]

In 2004, CDC, in collaboration with Emory University in Atlanta, Georgia, contributed to formation of the Flour Fortification Initiative (FFI), a network of government and international agencies, wheat and flour industries, and consumer and civic organizations, to promote global flour fortification because none of these sectors can effectively address all the issues alone. Since then, the percentage of the world's wheat flour produced in large roller mills that is fortified has increased from 18% to 30%. By 2015, the target date of the WHO Millennium Development Goals, the FFI goal is for 80% of the world's roller mill wheat flour to be fortified. Future efforts should focus not only on expanding fortification of wheat flour with folic acid but also on fortifying other common staples such as corn and rice.

NTDs are life-threatening and cause life-long disabilities. Fortification of flour and other highconsumption, high-penetration staples with folic acid is a feasible, economical, safe, and effective public health policy to prevent NTDs worldwide. Efforts are needed to evaluate the safety and effectiveness of fortification of corn masa flour in the United States and to expand fortification of staple foods across the globe. Current research and increasing fortification





Source: Flour Fortification Initiative. Map of global progess. Available at http://www.sph.emory.edu/wheatflour/globalmap.php.

* The World Health Organization recommends adding 1–5 ppm of folic acid to fortified wheat flour, depending on the average per capita wheat flour availability (g/day). Additional information available at http://www.who.int/nutrition/publications/micronutrients/wheat_maize_fortification/en/index.html.

[†] Flour Fortification Initiative. Map of global progress, 2010. Available at http://www.sph.emory.edu/wheatflour/ globalmap.php.

[§]World Health Organization. Recommendations on wheat and maize flour fortification meeting report: interim consensus statement. Available at http://www.who.int/nutrition/publications/ micronutrients/wheat_maize_fortification/en/index.html.

efforts have demonstrated the ability to eliminate those NTDs that are sensitive to folic acid. If 50%– 70% of NTDs fall into this category, and assuming an annual prevalence of 300,000 NTDs, worldwide folic acid fortification could lead to the prevention of 150,000–210,000 NTDs per year.

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References

- CDC. Spina bifida and anencephaly before and after folic acid mandate—United States, 1995–1996 and 1999–2000. MMWR 2004;53:362–5.
- Blencowe H, Cousens S, Modell B, Lawn J. Folic acid to reduce neonatal mortality from neural tube disorders. Int J Epidemiol 2010;39(Suppl 1):i110–21.
- Berry RJ, Bailey L, Mulinare J, Bower C, Folic Acid Working Group. Fortification of flour with folic acid. Food Nutr Bull 2010;31(Suppl 1):S22–35.
- US Preventive Services Task Force. Folic acid for the prevention of neural tube defects: US Preventive Services Task Force recommendation statement. Ann Intern Med 2009;150:626–31.
- Pfeiffer CM, Johnson CL, Jain RB, et al. Trends in blood folate and vitamin B-12 concentrations in the United States, 1988–2004. Am J Clin Nutr 2007;86:718–27.

- 6. National Birth Defects Prevention Network. Neural tube defect ascertainment project 2010. Available at http://www.nbdpn.org/current/resources/ntd_fa_info.html. Accessed August 10, 2010.
- Williams LJ, Rasmussen SA, Flores A, Kirby RS, Edmonds LD. Decline in the prevalence of spina bifida and anencephaly by race/ethnicity: 1995–2002. Pediatrics 2005;116:580–6.
- Hertrampf E, Cortes F. National food-fortification program with folic acid in Chile. Food Nutr Bull 2008;29(Suppl 2):S231–7.
- 9. Grosse SD, Ouyang L, Collins JS, Green D, Dean JH, Stevenson RE. Economic evaluation of a neural tube defect recurrence-prevention program. Am J Prev Med 2008;35:572–7.
- Llanos A, Hertrampf E, Cortes F, Pardo A, Grosse SD, Uauy R. Cost-effectiveness of a folic acid fortification program in Chile. Health Policy 2007;83:295–303.
- Smith AD, Kim YI, Refsum H. Is folic acid good for everyone? Am J Clin Nutr 2008;87:517–33.
- Yang Q, Cogswell ME, Hamner HC, et al. Folic acid source, usual intake, and folate and vitamin B-12 status in US adults: National Health and Nutrition Examination Survey (NHANES) 2003–2006. Am J Clin Nutr 2010;91:64–72.
- Prue CE, Hamner HC, Flores AL. Effects of folic acid awareness on knowledge and consumption for the prevention of birth defects among Hispanic women in several US communities. J Women's Health 2010;19:689–98.
- 14. Hamner HC, Mulinare J, Cogswell ME, et al. Predicted contribution of folic acid fortification of corn masa flour to the usual folic acid intake for the US population: National Health and Nutrition Examination Survey 2001–2004. Am J Clin Nutr 2009;89:305–15.
- Bell KN, Oakley GP Jr. Update on prevention of folic acidpreventable spina bifida and anencephaly. Birth Defects Res A Clin Mol Teratol 2009;85:102–7.

Completion of National Laboratory Inventories for Wild Poliovirus Containment — Region of the Americas, March 2010

In May 1988, the World Health Assembly resolved to eradicate wild poliovirus (WPV) transmission globally. By 2006, transmission of indigenous WPV was eliminated in all but four countries (Afghanistan, India, Nigeria, and Pakistan). In May 1999, the World Health Assembly urged member states to begin the process leading to laboratory containment of WPV (1). Containment of infectious and potentially infectious WPV materials after eradication is essential to minimize the risk for reintroducing WPV into poliomyelitis-free communities. The staged containment approach begins with a national survey of all biomedical facilities, which alerts facilities to the need for containment, encourages reduction of WPV materials, and develops a national inventory of facilities holding such materials (Phase I). In May 2008, the World Health Assembly reiterated the need for progress in containment and urged polio-free states to complete Phase I (2, 3). This report describes completion of Phase I by the countries and territories in the World Health Organization (WHO) Region of the Americas during 2001–2010. Of 67,362 biomedical facilities, all 15,541 (23.1%) that were classified as high-risk or medium-risk facilities were surveyed. Of the remaining 51,821 (76.9%) facilities, all classified as low-risk, 44,077 (85.1%) were surveyed; sampling ranged from 12.8% to 100% among countries. After voluntary destruction of some materials during Phase I, a total of 215 facilities in nine countries of the Region of the Americas reported retaining WPV materials as of March 2010. The survey provides a facility registry for use in subsequent steps that will lead to global poliovirus containment.

An elimination initiative began in the Americas in 1985, and the last case of WPV infection was confirmed in 1991; the western hemisphere was certified polio-free in 1994. In 2004, the director of the Pan American Health Organization (PAHO) established the American Regional Commission for the Certification of Poliovirus Laboratory Containment and Verification of Polio-free Status (RCC) to oversee Phase I activities. Forty-three countries and territories in the Region of the Americas conducted Phase I activities during 2001–2010. PAHO advised member states regarding creation of national plans of action, provided technical assistance on implementing national surveys, and monitored progress. National task forces comprised of working groups from various ministries and/or sectors were formed to implement the national plans of action. National certification committees comprised of experts in areas related to polio eradication, epidemiology, virology, pediatrics, and public health were formed to review progress and ensure completeness and accuracy. Seven regional and subregional meetings were held to facilitate exchange between countries on strategies and progress and to assure Phase I quality and consistency. The United States (4) and Canada, the Region of the Americas countries with the largest research laboratory infrastructures, began Phase I containment activities in 2002 because of the expected complexity of the task.

National databases of biomedical institutions and laboratories were commonly compiled through multisector efforts coordinated by the Ministry of Health (MOH), the national certification committee, or joint working groups. Methods used to establish the national database varied by country, but primarily consisted of consolidating and verifying lists from national laboratory registries, accrediting bodies, professional organizations and associations, and institutional and national biosafety networks. Institutions and laboratories included in the national databases were MOH facilities, hospitals, research laboratories, military facilities, environmental and other government agencies, and private industrial companies and clinical diagnostic laboratories. Databases were verified and supplemented by telephone book and Internet searches and by literature reviews. Countries differed in methods for enumerating institutions and laboratories. For example, countries with complex laboratory infrastructures, such as Canada and the United States, counted large universities, government agencies, and vaccine producers as single units to be held accountable for the multiple laboratories under their jurisdictions. Conversely, other countries, with fewer large multilaboratory institutions, counted individual laboratories.

Countries and territories classified each institution and laboratory according to the risk for possessing infectious or potentially infectious WPV materials. High-risk facilities included virology, university, research, and public health laboratories. Medium-risk facilities included environmental, major hospital, industrial, and clinical laboratories with advanced microbiological capabilities. Low-risk facilities included basic public or private clinical or other biomedical laboratories with limited or no capacity for long-term storage of biological specimens. National surveys were guided by WHO standards (3). All high-risk and medium-risk institutions and laboratories were surveyed for the presence of WPV materials. A proportion of low-risk facilities (85.1% overall, ranging from 12.8% to 100% by country) was surveyed to confirm accuracy of classification. All countries exceeded the RCC-recommended 10% sampling minimum for low-risk facilities.

The most common survey methods were electronic forms and letters sent to institutions and laboratories from the MOH or the president of the national certification committee. Follow-up telephone calls and visits were made to recipients who failed to respond. In Argentina, Brazil, Chile, Colombia, Mexico, Peru, and Caribbean countries, national task force members visited high-risk laboratories as well as institutions that had reported possessing infectious or potentially infectious WPV materials. The El Salvador national task force sent letters and survey instruments to laboratories using private couriers who were also responsible for securing and delivering responses. Task forces in Bolivia, Costa Rica, Ecuador, Guatemala, Nicaragua, and Panama conducted personal visits to all laboratories included in the national database and verified response accuracy. Argentina, Brazil, Cuba, and Mexico created subnational teams whose responsibility entailed verifying the completeness of the laboratory list, the accuracy and consistency of the responses, the completion of the survey, and visits to high-risk laboratories. Completeness of the surveys in all countries was assessed by a systematic qualityassurance procedure provided by WHO.

Of 67,362 biomedical facilities, a total of 59,618 (88.5%) were surveyed. All 4,313 (7.2%) laboratories classified as high-risk and all 11,228 (18.8%) classified as medium-risk were surveyed, as well as 44,077 (85.1%) of 51,821 laboratories classified as low-risk (73.9%) (Table). Of all facilities surveyed, 2,629 (4.4%) were virology, university, research, or public health facilities; 10,372 (17.4%) were hospital-based facilities (both medium-risk and low-risk); 41,438 (69.5%) were clinical diagnostic facilities

(both medium-risk and low-risk); and 5,179 (8.7%) were environmental, industrial, or other types of facilities.

The number of high-risk or medium-risk facilities holding WPV materials before the survey was not determined. No low-risk facilities were found to be holding WPV materials. After the survey, the number of facilities retaining infectious or potentially infectious WPV materials totaled 215 in nine Region of Americas countries: the United States (180), Canada (eight), Brazil (six), Costa Rica (six), Argentina (five), Mexico (four), Guatemala (three), Chile (two), and Trinidad and Tobago (one). On March 5, RCC reviewed the quality and completeness of the final regional report and declared Phase I of laboratory containment in the Region of Americas complete.

Reported by

Pan American Health Organization, Washington, D.C. World Health Organization (WHO) Regional Office for the Americas, Polio Eradication Dept, WHO, Geneva, Switzerland. Task Force for Global Health, Decatur, Georgia. Global Immunization Div, Div of Viral Diseases, National Center for Immunization and Respiratory Diseases, CDC.

Editorial Note

The Region of the Americas becomes the third of the six WHO regions (after the European [5] and Western Pacific regions [6]) to create national databases of biomedical facilities and inventories of facilities that retain WPV materials. The Region of the Americas was declared free of WPV transmission by the International Commission for the Certification of Poliomyelitis Eradication in September 1994, 4 years before the Global Certification Commission for the Certification of the Eradication of Polio announced that adequate progress on laboratory containment was a precondition for regional certification. When Phase I began in 2001, the region had shifted much of its resources and attention to measles elimination. Consequently, nearly all of the national certification committees for polio were inactive or had been disbanded. Member states overcame the organizational and resource challenges and built on the successful survey experiences of European and Western Pacific regions to complete Phase 1 with high quality.

Before implementing Phase I, no country in the region had a complete or integrated database of biomedical institutions and laboratories. Six countries

TABLE. Number of biomedical facilities and laboratories surveyed for the presence of wild poliovirus (WPV) materials,* during 2000–2010 and number retaining WPV materials, by country/area — World Health Organization Region of the Americas, March 2010

| | No. of | No. of | No. of | Lov | v-risk faciliti | es† | Total no. of | No. of facilities |
|--------------------|--------------------------------|--------------------------------------|---|-----------|---------------------------|----------------|------------------------|----------------------------|
| Country/Area | facilities in national list | high-risk facilities [§] | medium- risk facilities [¶] | Total no. | No. selecte for survey | | facilities surveyed | retaining WPV materials |
| Argentina | 1,578 | 198 | 360 | 1,020 | 260 | (25.5) | 818 | 5 |
| Bolivia | 301 | 23 | 108 | 170 | 170 | (100) | 301 | 0 |
| Brazil | 7,652 | 1,044 | 1,789 | 4,819 | 4,819 | (100) | 7,652 | 6 |
| Canada | 1,195 | 626 | 210 | 359 | 73 | (20.3) | 909 | 8 |
| Caribbean** | 180 | 10 | 72 | 98 | 98 | (100) | 180 | 1 |
| Chile | 1,056 | 54 | 248 | 754 | 354 | (46.9) | 656 | 2 |
| Colombia | 5,631 | 130 | 517 | 4,984 | 1,377 | (27.6) | 2,024 | 0 |
| Costa Rica | 558 | 53 | 79 | 426 | 426 | (100) | 558 | 6 |
| Cuba | 1,162 | 248 | 173 | 741 | 295 | (39.8) | 716 | 0 |
| Dominican Republic | 229 | 7 | 24 | 198 | 198 | (100) | 229 | 0 |
| Ecuador | 1,300 | 87 | 535 | 678 | 678 | (100) | 1,300 | 0 |
| El Salvador | 536 | 13 | 134 | 389 | 389 | (100) | 536 | 0 |
| Guatemala | 336 | 39 | 101 | 196 | 196 | (100) | 336 | 3 |
| Haiti | 235 | 1 | 18 | 216 | 128 | (59.3) | 147 | 0 |
| Honduras | 211 | 21 | 125 | 65 | 65 | (100) | 211 | 0 |
| Mexico | 9,824 | 319 | 1,661 | 7,844 | 7,844 | (100) | 9,824 | 4 |
| Nicaragua | 594 | 17 | 54 | 523 | 523 | (100) | 594 | 0 |
| Panama | 445 | 34 | 61 | 350 | 350 | (100) | 445 | 0 |
| Paraguay | 639 | 18 | 35 | 586 | 127 | (21.7) | 180 | 0 |
| Peru | 2,148 | 61 | 80 | 2,007 | 710 | (35.4) | 851 | 0 |
| Uruguay | 556 | 9 | 87 | 460 | 59 | (12.8) | 155 | 0 |
| United States | 29,791 | 1,216 | 4,369 | 24,206 | 24,206 | (100) | 29,791 | 180 |
| Venezuela | 1,205 | 85 | 388 | 732 | 732 | (100) | 1,205 | 0 |
| Total | 67,362 | 4,313 | 11,228 | 51,821 | 44,077 | (85.1) | 59,618 | 215 |

* WPV infectious and potentially infectious materials. Additional information available at http://www.polioeradication.org/content/publications/who-vb-03-729.pdf.

⁺ Low-risk facilities include basic clinical or other labs with limited or no long-term storage capacity. Countries were only required to survey >10% of these facilities to confirm classification.

[§] High-risk facilities include virology, university, research, and public health labs; 100% of these facilities were surveyed in all countries.

[¶] Medium- risk facilities include environmental, major hospital, industrial, and advanced clinical diagnostic laboratories; 100% of these facilities were surveyed in all countries.

** Includes Anguilla, Antigua and Barbuda, Aruba, Bahamas, Barbados, Belize, Bermuda, British Virgin Islands, Cayman Islands, Dominica, Grenada, Guyana, Jamaica, Montserrat, Netherlands Antilles, St. Kitts and Nevis, St. Lucia, St. Vincent and the Grenadines, Suriname, Trinidad and Tobago, Turks and Caicos. The only facility retaining WPV materials was in Trinidad and Tobago.

(Argentina, Brazil, Chile, Colombia, Mexico, and Peru) subsequently established a national registry of laboratories with application beyond the goal of poliovirus containment. Canada confirmed its 2002–2004 Phase I national laboratory database and survey results through implementation of the 2009 Human Pathogens and Toxins Act. Successful application of the act for control and tracking of polioviruses and other infectious agents in institutions supports a regulatory/legislative strategy as an approach in subsequent containment phases.

As in the European and Western Pacific regions, implementation of Phase I resulted in a voluntary reduction by several countries in the number of institutions and laboratories retaining WPV materials. Facilities in three countries (Colombia, Cuba, and Panama) reported destroying all infectious and potentially infectious WPV materials. The findings in this report are subject to at least two limitations. First, although the Phase I activities were standardized and reviewed at multiple levels, some low-risk facilities might not have been identified for the survey. Second, among facilities surveyed, particularly those with jurisdiction over multiple laboratories, some laboratories might not have thoroughly reviewed materials in storage. However, countries conducting site-visits did not find any instances in which this occurred.

Subsequent phases of WPV containment are outlined in a working draft revision of the WHO global action plan to minimize WPV risk from facilities, scheduled for public review and comment before the end of 2010 (7). Phase II of the action plan will begin following evidence of interruption of WPV transmission in one of the four remaining

What is already known on this topic?

After progress toward eradication of wild poliovirus (WPV) transmission, the World Health Assembly in 1999 urged member states to begin the process leading to laboratory containment of WPV; previously, countries in the European and Western Pacific regions of the World Health Organization completed Phase I of this process, a comprehensive survey and inventory of facilities holding WPV materials.

What is added by this report?

Following surveys and inventories conducted by countries and territories in the Region of the Americas and voluntary destruction of some materials, 215 facilities in nine countries of the Americas (including 180 in the United States) reported retaining WPV materials as of March 2010.

What are the implications for public health practice?

Completion of the surveys and inventories in three polio-free WHO regions provides a solid base for subsequent steps toward final containment once interruption of WPV transmission is achieved.

polio-endemic countries (Afghanistan, India, Nigeria, and Pakistan). During this phase, member states are requested to establish long-term national policies and regulations for destruction or containment of WPV materials. Completion of Phase I in three polio-free WHO regions and the majority of countries in the remaining three regions (5,6) provides a solid base for subsequent steps toward final containment of all polioviruses when the goal of global interruption of WPV transmission is achieved.

References

- World Health Organization. Eradication of poliomyelitis: report by the director-general. Resolution WHA52.8. Geneva, Switzerland: Fifty-second World Health Assembly; 1999. Available at http://apps.who.int/gb/archive/pdf_files/wha52/ ew8.pdf.
- World Health Organization. Eradication of poliomyelitis: report by the director-general. Resolution WHA61.1. Geneva, Switzerland: Sixty-first World Health Assembly; 2008. Available at http://apps.who.int/gb/ebwha/pdf_files/wha61rec1/a61_rec1-part2-en.pdf.
- 3. World Health Organization. WHO global action plan for laboratory containment of wild polioviruses. 2nd ed. Geneva, Switzerland: World Health Organization; 2004. Available at http://www.polioeradication.org/content/publications/ who-vb-03-729.pdf.
- CDC. National laboratory inventory for global poliovirus containment—United States, November 2003. MMWR 2004;53:457–9.
- CDC. National laboratory inventory for global poliovirus containment—European Region, June 2006. MMWR 2006;55:916–8.
- 6. CDC. National laboratory inventories for wild poliovirus containment—Western Pacific Region, 2008. MMWR 2009;58:975–8.
- World Health Organization. WHO global action plan to minimize poliovirus facility-associated risk after eradication of wild polioviruses and cessation of routine OPV use [Draft]. Geneva, Switzerland: World Health Organization; 2009. Available at http://www.polioeradication.org/content/ publications/gapIIIworkingdraft_07.pdf.

Update: Recommendations of the Advisory Committee on Immunization Practices (ACIP) Regarding Use of CSL Seasonal Influenza Vaccine (Afluria) in the United States During 2010–11

During the 2010 influenza season in Australia, administration of a 2010 Southern Hemisphere seasonal influenza trivalent inactivated vaccine (TIV) (Fluvax Junior and Fluvax) manufactured by CSL Biotherapies was associated with increased frequency of fever and febrile seizures in children aged 6 months through 4 years (1). Postmarketing surveillance indicated increased reports of fever in children aged 5-8 years after vaccination with Fluvax compared to previous seasons. An antigenically equivalent 2010-11 Northern Hemisphere seasonal influenza TIV (Afluria) manufactured by CSL Biotherapies is approved by the Food and Drug Administration (FDA) for persons aged ≥ 6 months in the United States. Prescribing information for the 2010-11 Afluria formulation includes a warning that "Administration of CSL's Southern Hemisphere influenza vaccine has been associated with increased postmarketing reports of fever and febrile seizures in children predominantly below the age of 5 years as compared to previous years" (2). In the United States, annual influenza vaccination is recommended for all persons aged ≥ 6 months. On August 5, 2010, the Advisory Committee on Immunization Practices (ACIP) recommended that the 2010-11 Afluria vaccine not be administered to children aged 6 months through 8 years. Other ageappropriate, licensed seasonal influenza vaccine formulations should be used for prevention of influenza in these children. If no other age-appropriate, licensed inactivated seasonal influenza vaccine is available for a child aged 5-8 years who has a medical condition that increases their risk for influenza complications (3), Afluria can be used; however, providers should discuss with the parents or caregivers the benefits and risks of Afluria use before administering this vaccine to children aged 5-8 years.

Background

In Australia and New Zealand, use of 2010 Fluvax Junior (0.25 mL preparation) and Fluvax (0.5 mL preparation) was suspended in children aged <5 years because of reports of fever and febrile seizures occurring after receipt of these vaccines in children aged 6 months through 4 years (1,4-7). Australia and New Zealand are the only Southern Hemisphere countries in which Fluvax Junior and Fluvax have been used during 2010. Investigations in Australia indicated that administration of 2010 Fluvax or Fluvax Junior was associated with higher rates of fever in young children 4-24 hours after vaccination when compared with rates observed with TIV during previous years (1). A retrospective cohort study among children aged <5 years who received TIV in 2010 reported that the risk for fever following receipt of Fluvax was 6.5 times greater than for Influvac (Solvay/Abbott), a different TIV (1). Other data indicated that the rate of fever in 2010 was eight times greater after receipt of Fluvax Junior versus Influvac among children aged <3 years, and 10 times greater for Fluvax versus Influvac among children aged 3–4 years (1). A follow-up New Zealand study among more than 300 children aged <5 years found substantially increased febrile reactions in the 24 hours after receipt of Fluvax, but not with Vaxigrip (sanofi pasteur), another TIV (6). Postmarketing surveillance found increased reports of fever in children aged 5-8 years after receipt of 2010 Fluvax compared with reports for the same product in three previous seasons (unpublished data, CSL; 2010). An increased frequency of fever after receipt of 2009 CSL seasonal TIV compared with TIV from another manufacturer among children aged 6 months through 8 years age also was reported in a U.S. clinical trial (2).

Additional investigations determined that the higher frequencies of fever with Fluvax and Fluvax Junior in Australia during 2010 were associated with substantially higher rates of febrile seizures in children aged 6 months through 4 years; febrile seizures occurred a mean of 7.2 hours (range: 5.9–8.4 hours) after vaccination (1). Overall, the rate of febrile seizures following Fluvax and Fluvax Junior was estimated at ≤9 per 1,000 doses administered, and approximately nine times more than expected (1). Among children aged 6 months through 2 years, the rate of febrile seizures after vaccination with Fluvax Junior was approximately 10 per 1,000 doses administered, and 1.5 (Fluvax) to 14 (Fluvax Junior) per 1,000 doses administered among children aged 3-4 years versus zero for Influvac in both age groups (1).

Before Fluvax use in New Zealand was suspended in young children on April 26, 2010, nine cases of febrile seizures were reported in children aged <5 years after receiving Fluvax, and one case was reported after vaccination with an unknown influenza vaccine that was strongly suspected to be Fluvax (6). No febrile seizures were reported in an estimated 5,000 to 7,000 children aged <5 years who received approximately 10,000 to 12,000 doses of Vaxigrip, and no febrile seizures were reported after Influvac in New Zealand (6). To date, despite extensive investigations, no biological cause (e.g., contamination, incomplete virus inactivation or disruption, etc.) has been identified to explain the increase in febrile reactions and febrile seizures associated with Fluvax Junior and Fluvax among children in 2010.

In the United States, annual influenza vaccination is recommended for all persons aged ≥ 6 months (3). Alternative, age-appropriate, approved TIV formulations are available for children aged ≥ 6 months, and live attenuated influenza virus vaccine (LAIV) is approved for healthy children aged ≥ 2 years (Table). Studies that assessed adverse events after receipt of TIV or LAIV in the United States during past influenza seasons (8–10) and unpublished surveillance data have not demonstrated an association between TIV administration and febrile seizures.

Afluria* was approved by FDA in 2007 for persons aged ≥18 years. Since November 2009, Afluria has been approved by FDA for persons aged ≥ 6 months. The manufacturing process for 2010 Fluvax and Fluvax Junior is the same as for 2010-11 Afluria, and the vaccines strains are antigenically equivalent, although the influenza A (H3N2) virus strains are different. For the 2010–11 influenza season, the warning and precautions section of the Afluria package insert was revised to include the increased incidence of fever and febrile seizures in young children, predominantly among those aged <5 years, based on postmarketing reports from Australia and New Zealand (2). Limited information is available about seasonal influenza vaccine coverage or the risk of febrile seizures or fever in children aged ≥5 years from Australia and New Zealand. However, available data to date suggest

that children aged 5–8 years might experience higher incidence of fever after vaccination with Fluvax. No information is available on the risk of febrile seizures in children aged 5–8 years, although febrile seizures from any cause are uncommon in this age group.

Recommendations

Based on the available information, ACIP recommendations for the 2010–11 influenza season in the United States include the following:

- Afluria should not be used in children aged 6 months through 8 years.
- Other age-appropriate, licensed seasonal influenza vaccine formulations, including other TIVs and LAIV, have not been associated with an increased risk of fever or febrile seizures, are safe, and should be used for prevention of influenza in children aged 6 months through 8 years.
- If no other age-appropriate, licensed inactivated seasonal influenza vaccine is available for a child aged 5–8 years who has a medical condition that increases the child's risk for influenza complications (*3*), Afluria can be used; however, providers should discuss with the parents or caregivers the benefits and risks of influenza vaccination with Afluria before administering this vaccine.
- Afluria may be used in persons aged ≥ 9 years.

Safety Monitoring

Although CSL Southern Hemisphere 2010 seasonal influenza vaccine is the only influenza vaccine to be associated with increased reports of fever and febrile seizures in young children, as in previous seasons, CDC, FDA, and other federal agencies will closely monitor the safety of seasonal influenza vaccines during 2010–11. CDC will rely primarily on the Vaccine Adverse Event Reporting System (VAERS)[†] and the Vaccine Safety Datalink (VSD)[§] to conduct safety monitoring. VAERS is a passive reporting system, co-managed by CDC and FDA, which identifies potential vaccine safety problems in the United States. VAERS reports following 2010-11 influenza vaccinations will be reviewed regularly with special attention to reports of febrile seizures in children aged <9 years. VSD is a collaboration of eight managed-care organizations with more than 9 million members that links

vaccinesafety/activities/vsd.html.

^{*}Additional information on Afluria is available at http://www.fda. gov/downloads/biologicsbloodvaccines/vaccines/approvedproducts/ ucm220730.pdf; additional information on influenza vaccines also is available from CDC at http://www.cdc.gov/flu/protect/ vaccine/qa_cslfluvac.htm and from FDA at http://www.fda.gov/ biologicsbloodvaccines/guidancecomplianceregulatoryinformation/ post-marketactivities/lotreleases/ucm220649.htm.

[†]Additional information is available at http://www.cdc.gov/ vaccinesafety/activities/vaers.html and http://vaers.hhs.gov/index. §Additional information is available at http://www.cdc.gov/

| Vaccine | Trade name | Manufacturer | Presentation | Mercury content (mcg Hg/0.5 mL dose) | Age group | No. of doses | Route |
|--------------------|-----------------------|------------------|------------------------------|---|-----------|---------------------|----------------------------|
| TIV* | Fluzone | sanofi pasteur | 0.25mL prefilled syringe | 0 | 6–35 mos | 1 or 2 [†] | Intramuscular§ |
| | | | 0.5 mL prefilled syringe | 0 | ≥36 mos | 1 or 2† | Intramuscular [§] |
| | | | 0.5 mL vial | 0 | ≥36 mos | 1 or 2† | Intramuscular [§] |
| | | | 5.0 mL multidose vial | 25.0 | ≥6 mos | 1 or 2 [†] | Intramuscular [§] |
| TIV | Fluvirin | Novartis Vaccine | 5.0 mL multidose vial | 25.0 | ≥4 yrs | 1 or 2† | Intramuscular [§] |
| | | | 0.5 mL prefilled syringe | <1.0 | | | |
| TIV | Agriflu | Novartis Vaccine | 0.5 mL prefilled syringe | 0 | ≥18 yrs | 1 | Intramuscular [§] |
| TIV | Fluarix | GlaxoSmithKline | 0.5 mL prefilled syringe | 0 | ≥3 yrs | 1 or 2† | Intramuscular [§] |
| TIV | FluLaval | GlaxoSmithKline | 5.0 mL multidose vial | 25.0 | ≥18 yrs | 1 | Intramuscular [§] |
| TIV | Afluria [¶] | CSL Biotherapies | 0.5 mL prefilled syringe | 0 | ≥9 yrs | 1 | Intramuscular [§] |
| TIV High-Dose** | Fluzone High-Dose | sanofi pasteur | 0.5 mL prefilled syringe | 0 | ≥65 yrs | 1 | Intramuscular [§] |
| LAIV ^{††} | FluMist ^{§§} | MedImmune | 0.2 mL sprayer, divided dose | 0 | 2–49 yrs | 1 or 2† | Intranasal |

TABLE. Influenza vaccines recommended by the Advisory Committee on Immunization Practices (ACIP) for different age groups — United States, 2010–11 season

* Trivalent inactivated vaccine.

⁺ Children aged 6 months–8 years who did not receive at least 1 dose of an influenza A (H1N1) 2009 monovalent vaccine, who have never received a seasonal influenza vaccine before, or who were vaccinated for the first time with the seasonal 2009–10 seasonal vaccine but who received only 1 dose should receive 2 doses of the 2010–11 influenza vaccine formula, spaced ≥4 weeks apart.

§ For adults and older children, the recommended site of vaccination is the deltoid muscle. The preferred site for infants and young children is the anterolateral aspect of the thigh.

[¶] Afluria (CSL Biotherapies) is approved in the United States by the Food and Drug Administration for use in persons aged ≥6 months. However, the Advisory Committee on Immunization Practices recommends that the 2010–11 formulation of Afluria not be administered to children aged 6 months–8 years because of an increased frequency of fever or febrile seizures reported among young children (mostly children aged <5 years) who received a similar vaccine in Australia in 2010. Therefore, another age-appropriate, licensed seasonal influenza vaccine formulation should be used for prevention of influenza in children aged 6 months–8 years. If no other age-appropriate, licensed seasonal influenza vaccine is available for a child aged 5–8 years who has a medical condition that increases the child's risk for influenza complications, Afluria can be used; however, providers should discuss with the parents or caregivers the benefits and risks of influenza vaccination with Afluria before administering this vaccine. See second footnote above for dose information when administering Afluria to children aged 5–8 years.</p>

** Trivalent inactivated vaccine high dose. A 0.5-mL dose contains 60 mcg each of A/California/7/2009 (H1N1)-like, A/Perth/16/2009 (H3N2)-like, and B/Brisbane/60/2008-like antigens.

⁺⁺ Live attenuated influenza vaccine.

^{§§} FluMist is shipped refrigerated and stored in the refrigerator at 36°F–46°F (2°C–8°C) after arrival in the vaccination clinic. The dose is 0.2 mL divided equally between each nostril. Health-care providers should consult the medical record, when available, to identify children aged 2–4 years with asthma or recurrent wheezing that might indicate asthma. In addition, to identify children who might be at greater risk for asthma and possibly at increased risk for wheezing after receiving LAIV, parents or caregivers of children aged 2–4 years should be asked: "In the past 12 months, has a health-care provider ever told you that your child had wheezing or asthma?" Children whose parents or caregivers answer "yes" to this question and children who have asthma or who had a wheezing episode noted in the medical record within the past 12 months should not receive FluMist.

computerized vaccination and health-care encounter data. VSD will be used for rapid, ongoing analyses to monitor for serious adverse events associated with vaccination against seasonal influenza, including seizures in young children. VSD also is available to evaluate possible associations detected by VAERS or other sources, as needed.

Reported by

Advisory Committee on Immunization Practices (ACIP); ACIP Influenza Work Group; Immunization Safety Office, National Center for Emerging and Zoonotic Infectious Diseases; Influenza Div, Immunization Services Div, National Center for Immunization and Respiratory Diseases; CDC.

References

1. Therapeutic Goods Administration. Investigation into febrile reactions in young children following 2010 seasonal trivalent influenza vaccination. Woden, Australia: Therapeutic Goods Administration, Department of Health and Ageing; 2010. Available at http://www.tga.gov.au/alerts/medicines/fluvaccinereport100702.htm. Accessed August 11, 2010.

- Food and Drug Administration. Afluria, influenza virus vaccine 2010 [package insert]. CSL Limited; Food and Drug Administration; 2010. Available at http://www.fda.gov/ downloads/biologicsbloodvaccines/vaccines/approvedproducts/ ucm220730.pdf. Accessed August 11, 2010.
- CDC. Prevention and Control of Influenza with Vaccines. Recommendations of the Advisory Committee on Immunization Practices (ACIP), 2010. Available at http://www.cdc.gov/ mmwr/pdf/rr/rr59e0729.pdf. Accessed August 11, 2010.
- 4. Investigation into febrile convulsions in young children after seasonal influenza vaccination. Interim findings and recommendations. Woden, Australia: Department of Health and Ageing; 2010. Available at http://www.health.gov.au/internet/ main/publishing.nsf/content/c8d6beb67768e80aca257735002 424bf/\$file/dept%20010610.pdf. Accessed August 11, 2010.
- Department of Health and Ageing. Investigation into febrile convulsions in young children after seasonal influenza vaccination. Woden, Australia: Department of Health and Ageing; 2010. Available at http://www.immunise.health.gov. au/internet/immunise/publishing.nsf/content/431453bbfef1 fb2fca25776d007d9ff4/\$file/factsheet-30jul10.pdf. Accessed August 11, 2010.

- 6. Department of Health and Ageing. Australian Technical Advisory Group on Immunisation (ATAGI) statement: clinical advice for immunisation providers on resumption of the use of 2010 trivalent seasonal vaccines in children less than 5 years of age. Woden, Australia: Department of Health and Ageing; 2010. Available at http://www.immunise.health.gov. au/internet/immunise/publishing.nsf/Content/B4A8DC125C 08290ACA25776D001DA89B/\$File/atagi-statement-tiv.pdf. Accessed August 11, 2010.
- New Zealand Ministry of Health. Fever and convulsions in children receiving flu vaccine. Wellington, New Zealand: New Zealand Ministry of Health; 2010. Available at http://www.moh. govt.nz/moh.nsf/indexmh/fever-and-convulsions-in-childrenreceiving-flu-vaccine?open. Accessed August 11, 2010.
- Hambidge SJ, Glanz JM, France EK, et al.; Vaccine Safety Datalink Team. Safety of trivalent inactivated influenza vaccine in children 6 to 23 months old. JAMA. 2006 Oct 25;296(16):1990-7.
- France EK, Glanz JM, Xu S, et al. Safety of the trivalent inactivated influenza vaccine among children: a populationbased study. Arch Pediatr Adolesc Med 2004;158:1031–6.
- Greene SK, Kulldorff M, Lewis EM, et al. Near real-time surveillance for influenza vaccine safety: proof-of-concept in the Vaccine Safety Datalink Project. Am J Epidemiol 2010;171:177–88.

Announcement

Interactive CDC DengueMap Available Online

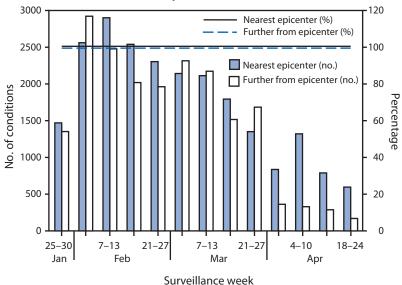
CDC, in collaboration with HealthMap, has created a new online tool for displaying global dengue activity. The interactive DengueMap shows areas where CDC considers dengue to be endemic and sites of recent, location-specific reports of disease. Unlike the CDC map that is compiled every 2 years for the CDC Travelers' Health Yellow Book to characterize general dengue risk based on traditional public health data sources, HealthMap reports are updated hourly and include both professional sources, such as the World Health Organization and ProMED-mail, and informal sources such as local media reports. Combined, these data provide a more dynamic and immediate picture of where transmission of dengue viruses might occur and where disease is actually occurring. DengueMap is available at http://healthmap.org/dengue and http://www.cdc.gov/dengue. Additional information regarding HealthMap is available at http://healthmap.org.

Erratum: Vol. 59, No. RR-8

In the MMWR Recommendations and Reports "Prevention and Control of Influenza with Vaccines: Recommendations of the Advisory Committee on Immunization Practices (ACIP), 2010," on page 18, the first two sentences under the heading "Pregnant Women and Neonates" should read, "FDA has classified FluLaval, Fluarix (GlaxoSmithKline Biologicals), and Agriflu (Novartis Vaccines and Diagnostics Limited) influenza vaccines as "Pregnancy Category B" medications, indicating that animal reproduction studies have not demonstrated a fetal risk, but there are no controlled studies in pregnant women; all other influenza vaccines are classified as "Pregnancy Category C" medications, indicating that adequate animal reproduction studies have not been conducted. Available data do not indicate that any influenza vaccine causes fetal harm when administered to a pregnant woman, and any of the approved TIV formulations may be used for vaccinating pregnant women."

Errata: Vol. 59, No. 30

In the report, "Launching a National Surveillance System After an Earthquake — Haiti, 2010," errors occurred in one of the charts in Figure 2 on page 937. The corrected chart is below.



All reported conditions

Notifiable Diseases and Mortality Tables

TABLE I. Provisional cases of infrequently reported notifiable diseases (<1,000 cases reported during the preceding year) — United States, week ending August 7, 2010 (31st week)*

| Disease Anthrax Botulism, total foodborne infant other (wound and unspecified) Brucellosis Chancroid Cholera | Current week | Cum 2010 | weekly average [†] | 2009 | | | | | States reporting cases during current week (No.) | | |
|--|---------------------|-------------|--------------------------------|--------|------|------|-------|------|---|--|--|
| Botulism, total foodborne infant other (wound and unspecified) Brucellosis Chancroid | | _ | | | 2008 | 2007 | 2006 | 2005 | during current week (No.) | | |
| foodborne infant other (wound and unspecified) Brucellosis Chancroid | 1 | | _ | 1 | _ | 1 | 1 | _ | | | |
| infant other (wound and unspecified) Brucellosis Chancroid | _ | 47 | 3 | 118 | 145 | 144 | 165 | 135 | | | |
| other (wound and unspecified) Brucellosis Chancroid | | 5 | 0 | 10 | 17 | 32 | 20 | 19 | | | |
| Brucellosis Chancroid | 1 | 34 | 2 | 83 | 109 | 85 | 97 | 85 | PA (1) | | |
| Chancroid | _ | 8 | 1 | 25 | 19 | 27 | 48 | 31 | | | |
| | 3 | 73 | 3 | 115 | 80 | 131 | 121 | 120 | MI (1), FL (1), TN (1) | | |
| Cholera | 1 | 31 | 0 | 28 | 25 | 23 | 33 | 17 | NC (1) | | |
| | _ | 2 | 0 | 10 | 5 | 7 | 9 | 8 | | | |
| Cyclosporiasis [§] | 4 | 110 | 5 | 141 | 139 | 93 | 137 | 543 | OH (1), GA (1), FL (2) | | |
| Diphtheria | _ | _ | _ | _ | _ | _ | _ | _ | | | |
| Domestic arboviral diseases [§] , [¶] : | | | | | | | | | | | |
| California serogroup virus disease | _ | 7 | 4 | 55 | 62 | 55 | 67 | 80 | | | |
| Eastern equine encephalitis virus disease | _ | 4 | 1 | 4 | 4 | 4 | 8 | 21 | | | |
| Powassan virus disease | _ | 2 | 0 | 6 | 2 | 7 | 1 | 1 | | | |
| St. Louis encephalitis virus disease | _ | 2 | 0 | 12 | 13 | 9 | 10 | 13 | | | |
| Western equine encephalitis virus disease | _ | _ | _ | _ | _ | _ | _ | _ | | | |
| Haemophilus influenzae,** invasive disease (age <5 yrs): | | | | | | | | | | | |
| serotype b | _ | 7 | 0 | 35 | 30 | 22 | 29 | 9 | | | |
| nonserotype b | _ | 128 | 3 | 236 | 244 | 199 | 175 | 135 | | | |
| unknown serotype | 2 | 140 | 3 | 178 | 163 | 180 | 179 | 217 | NY (1), GA (1) | | |
| Hansen disease [§] | _ | 25 | 1 | 103 | 80 | 101 | 66 | 87 | | | |
| Hantavirus pulmonary syndrome [§] | _ | 10 | 0 | 20 | 18 | 32 | 40 | 26 | | | |
| Hemolytic uremic syndrome, postdiarrheal [§] | 2 | 96 | 7 | 242 | 330 | 292 | 288 | 221 | NY (1), CA (1) | | |
| HIV infection, pediatric (age <13 yrs) ^{††} | _ | _ | 1 | _ | _ | _ | _ | 380 | | | |
| Influenza-associated pediatric mortality ^{§,§§} | _ | 54 | 1 | 358 | 90 | 77 | 43 | 45 | | | |
| Listeriosis | 11 | 411 | 21 | 851 | 759 | 808 | 884 | 896 | VT (1), NY (3), OH (1), TN (1), AZ (1), CA (4) | | |
| Measles ^{¶¶} | _ | 32 | 1 | 71 | 140 | 43 | 55 | 66 | | | |
| Meningococcal disease, invasive***: | | | | | | | | | | | |
| A, C, Y, and W-135 | _ | 161 | 4 | 301 | 330 | 325 | 318 | 297 | | | |
| serogroup B | _ | 67 | 3 | 174 | 188 | 167 | 193 | 156 | | | |
| other serogroup | _ | 8 | 0 | 23 | 38 | 35 | 32 | 27 | | | |
| unknown serogroup | 2 | 236 | 8 | 482 | 616 | 550 | 651 | 765 | PA (1), FL (1) | | |
| Mumps | 3 | 2,256 | 15 | 1,991 | 454 | | 6,584 | 314 | TX (3) | | |
| Novel influenza A virus infections ^{†††} | _ | 1 | 0 | 43,774 | 2 | 4 | NN | NN | | | |
| Plague | _ | 1 | 0 | 8 | 3 | 7 | 17 | 8 | | | |
| Poliomyelitis, paralytic | _ | _ | _ | 1 | _ | _ | _ | 1 | | | |
| Polio virus Infection, nonparalytic [§] | _ | _ | _ | _ | | | NN | NN | | | |
| Psittacosis [§] | _ | 4 | 0 | 9 | 8 | 12 | 21 | 16 | | | |
| Q fever, total ^{§,§§§} | _ | 63 | 3 | 114 | 120 | 171 | 169 | 136 | | | |
| acute | _ | 49 | 1 | 94 | 106 | _ | _ | _ | | | |
| chronic | _ | 14 | 0 | 20 | 14 | _ | _ | _ | | | |
| Rabies, human | _ | _ | _ | 4 | 2 | 1 | 3 | 2 | | | |
| Rubella ^{¶¶¶} | _ | 5 | 0 | 3 | 16 | 12 | 11 | 11 | | | |
| Rubella, congenital syndrome | _ | _ | _ | 2 | _ | | 1 | 1 | | | |
| SARS-CoV [§] ,**** | _ | _ | _ | _ | _ | _ | _ | _ | | | |
| Smallpox [§] | _ | _ | _ | _ | _ | _ | _ | _ | | | |
| Streptococcal toxic-shock syndrome [§] | _ | 113 | 2 | 161 | 157 | 132 | 125 | 129 | | | |
| Syphilis, congenital (age <1 yr) | _ | 105 | 8 | 423 | 431 | 430 | 349 | 329 | | | |
| Tetanus | _ | 2 | 0 | 18 | 19 | 28 | 41 | 27 | | | |
| Toxic-shock syndrome (staphylococcal) [§] | _ | 44 | 1 | 74 | 71 | 92 | 101 | 90 | | | |
| Trichinellosis | _ | 1 | 0 | 13 | 39 | 5 | 15 | 16 | | | |
| Tularemia | _ | 47 | 5 | 93 | 123 | 137 | 95 | 154 | | | |
| Typhoid fever | 2 | 211 | 8 | 397 | 449 | 434 | 353 | 324 | OH (1), CA (1) | | |
| Vancomycin-intermediate <i>Staphylococcus aureus</i> [§] | _ | 59 | 1 | 78 | 63 | 37 | 6 | 2 | | | |
| Vancomycin-resistant <i>Staphylococcus aureus</i> [§] | _ | 1 | _ | 1 | | 2 | 1 | 2 | | | |
| Vibriosis (noncholera <i>Vibrio</i> species infections) [§] | 27 | 307 | 16 | 789 | 588 | 549 | NN | NN | OH (1), MO (2), MD (2), VA (4), NC (1), FL (6), TN (1), | | |
| species incetions, | 21 | 507 | 10 | 709 | 200 | 547 | (NIN | | TX (1), WA (2), CA (7) | | |
| Viral hemorrhagic fever ^{§§§§} | | 1 | _ | NN | NN | NN | NN | NN | | | |
| Yellow fever | _ | | _ | | _ | | | | | | |

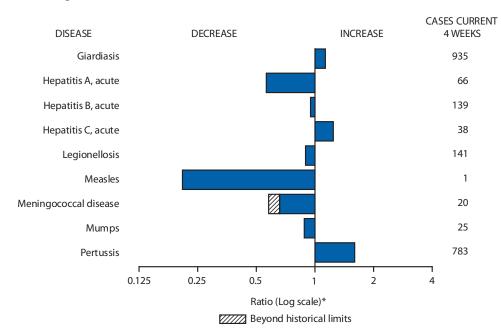
See Table I footnotes on next page.

TABLE I. (*Continued*) Provisional cases of infrequently reported notifiable diseases (<1,000 cases reported during the preceding year) — United States, week ending August 7, 2010 (31st week)*

---: No reported cases. N: Not reportable. NN: Not Nationally Notifiable Cum: Cumulative year-to-date counts.

- * Incidence data for reporting years 2009 and 2010 are provisional, whereas data for 2005 through 2008 are finalized.
- [†] Calculated by summing the incidence counts for the current week, the 2 weeks preceding the current week, and the 2 weeks following the current week, for a total of 5 preceding years. Additional information is available at http://www.cdc.gov/ncphi/disss/nndss/phs/files/5yearweeklyaverage.pdf.
- ⁵ Not reportable in all states. Data from states where the condition is not reportable are excluded from this table except starting in 2007 for the domestic arboviral diseases, STD data, TB data, and influenza-associated pediatric mortality, and in 2003 for SARS-CoV. Reporting exceptions are available at http://www.cdc.gov/ncphi/disss/nndss/phs/infdis.htm.
- ¹ 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.
- ** Data for H. influenzae (all ages, all serotypes) are available in Table II.
- ⁺⁺ Updated monthly from reports to the Division of HIV/AIDS Prevention, National Center for HIV/AIDS, Viral Hepatitis, STD, and TB Prevention. Implementation of HIV reporting influences the number of cases reported. Updates of pediatric HIV data have been temporarily suspended until upgrading of the national HIV/AIDS surveillance data management system is completed. Data for HIV/AIDS, when available, are displayed in Table IV, which appears quarterly.
- ^{\$§} Updated weekly from reports to the Influenza Division, National Center for Immunization and Respiratory Diseases. Since April 26, 2009, a total of 286 influenza-associated pediatric deaths associated with 2009 influenza A (H1N1) virus infection have been reported. Since August 30, 2009, a total of 279 influenza-associated pediatric deaths occurring during the 2009–10 influenza season have been reported. A total of 133 influenza-associated pediatric deaths occurring during the 2008-09 influenza season have been reported.
- ^{¶¶} No measles cases were reported for the current week.
 *** Data for meningococcal disease (all serogroups) are available in Table II.
- ⁺⁺⁺ CDC discontinued reporting of individual confirmed and probable cases of 2009 pandemic influenza A (H1N1) virus infections on July 24, 2009. During 2009, three cases of novel influenza A virus infections, unrelated to the 2009 pandemic influenza A (H1N1) virus, were reported to CDC. The one case of novel influenza A virus infection reported to CDC during 2010 was identified as swine influenza A (H3N2) virus and is unrelated to pandemic influenza A (H1N1) virus. Total case count for 2009 was provided by the Influenza Division, National Center for Immunization and Respiratory Diseases (NCIRD).
- ⁵⁵⁵ In 2009, Q fever acute and chronic reporting categories were recognized as a result of revisions to the Q fever case definition. Prior to that time, case counts were not differentiated with respect to acute and chronic Q fever cases.
- ^{¶¶¶} No rubella cases were reported for the current week.
- **** Updated weekly from reports to the Division of Viral and Rickettsial Diseases, National Center for Zoonotic, Vector-Borne, and Enteric Diseases.
- ++++ Updated weekly from reports to the Division of STD Prevention, National Center for HIV/AIDS, Viral Hepatitis, STD, and TB Prevention.
- SSSS There was one case of viral hemorrhagic fever reported during week 12. The one case report was confirmed as lassa fever. See Table II for dengue hemorrhagic fever.

FIGURE I. Selected notifiable disease reports, United States, comparison of provisional 4-week totals August 7, 2010, with historical data



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

| Notifiable Disease Data Team and 122 Cities Mortality Da | ata Team |
|--|----------|
| Patsy A. Hall-Baker | |
| Deborah A. Adams Rosaline Dhara | |
| Willie J. Anderson Pearl C. Sharp | |
| Michael S. Wodajo Lenee Blanton | |

TABLE II. Provisional cases of selected notifiable diseases, United States, weeks ending August 7, 2010, and August 8, 2009 (31st week)*

| | | Chlamydi | a trachomatis | infection | | | Cryp | otosporidiosis | 5 | |
|--|--------------|--------------|----------------|-------------------|-------------------|---------|----------|----------------|-----------|-----------|
| | Current | Previous | 52 weeks | Cum | Cum | Current | Previous | 52 weeks | Cum | Cum |
| Reporting area | week | Med | Max | 2010 | 2009 | week | Med | Max | 2010 | 2009 |
| Jnited States | 12,015 | 23,302 | 26,098 | 677,037 | 748,981 | 142 | 121 | 284 | 3,659 | 3,754 |
| New England | 592 | 744 | 1,396 | 23,018 | 23,823 | 5 | 7 | 50 | 228 | 230 |
| Connecticut | | 216 | 736 | 5,469 | 6,871 | | 0 | 44 | 44 | 38 |
| Maine [†] Massachusetts | 45 476 | 49 396 | 75 638 | 1,475 12,018 | 1,437 11,421 | 2 | 1 | 4 15 | 40 59 | 24 83 |
| New Hampshire | 34 | 40 | 116 | 1,304 | 1,239 | 1 | 1 | 6 | 37 | 39 |
| Rhode Island [†] | 32 | 68 | 116 | 2,027 | 2,148 | | 0 | 8 | 9 | 4 |
| Vermont [†] | 5 | 24 | 63 | 725 | 707 | 2 | 1 | 9 | 39 | 42 |
| /lid. Atlantic | 2,556 | 3,189 | 4,619 | 99,297 | 93,240 | 20 | 15 | 38 | 428 | 434 |
| New Jersey | 201 | 462 | 699 | 15,021 | 14,804 | | 0 | 4 | | 30 |
| New York (Upstate) | 638 | 670 | 2,530 | 19,693 | 17,155 | 14 | 3 | 16 | 98 | 97 |
| New York City Pennsylvania | 1,209 508 | 1,183 869 | 2,144 1,091 | 37,149 27,434 | 35,117 26,164 | 6 | 1 9 | 5 24 | 41 289 | 50 257 |
| | | | | | | | 29 | 73 | 884 | 904 |
| . N. Central Illinois | 1,082 | 3,553 877 | 4,413 1,322 | 100,357 20,808 | 120,932 36,998 | 39 | 29 | 73 | 884 86 | 904 88 |
| Indiana | _ | 336 | 776 | 10,334 | 14,156 | 1 | 4 | 10 | 107 | 165 |
| Michigan | 686 | 887 | 1,417 | 28,664 | 27,847 | 3 | 6 | 12 | 172 | 154 |
| Ohio | 137 | 958 | 1,077 | 28,133 | 29,221 | 23 | 7 | 19 | 243 | 237 |
| Wisconsin | 259 | 404 | 495 | 12,418 | 12,710 | 12 | 10 | 39 | 276 | 260 |
| V.N. Central | 183 | 1,356 | 1,651 | 39,128 | 42,419 | 24 | 22 | 59 | 613 | 573 |
| lowa | 10 | 185 | 293 | 5,800 | 5,849 | 3 | 4 | 13 | 151 | 137 |
| Kansas Minnesota | _ | 191 270 | 381 337 | 5,320 7,754 | 6,190 8,686 | _ | 2 3 | 6 31 | 67 98 | 54 143 |
| Missouri | 163 | 490 | 606 | 14,634 | 15,669 | 10 | 3 | 18 | 137 | 143 |
| Nebraska† | _ | 95 | 237 | 2,792 | 3,238 | 10 | 2 | .0 | 87 | 53 |
| North Dakota | — | 35 | 93 | 1,083 | 989 | — | 0 | 18 | 13 | 7 |
| South Dakota | 10 | 60 | 82 | 1,745 | 1,798 | 1 | 2 | 10 | 60 | 66 |
| 5. Atlantic | 2,607 | 4,507 | 5,681 | 134,356 | 154,225 | 32 | 20 | 51 | 601 | 571 |
| Delaware | 98 | 87 | 156 | 2,548 | 2,821 | — | 0 | 2 | 3 | 2 |
| District of Columbia Florida | 81 657 | 99 1,402 | 178 1,669 | 2,947 43,494 | 4,259 44,682 | 12 | 0 8 | 1 24 | 2 216 | 5 185 |
| Georgia | 1 | 334 | 1,388 | 9,426 | 25,097 | 7 | 5 | 31 | 189 | 218 |
| Maryland [†] | _ | 452 | 1,031 | 12,652 | 13,579 | 1 | 0 | 3 | 18 | 25 |
| North Carolina | 535 | 802 | 1,562 | 26,593 | 26,011 | _ | 2 | 12 | 53 | 63 |
| South Carolina [†] | 414 | 515 | 712 | 16,029 | 16,721 | 5 | 1 | 7 | 45 | 30 |
| Virginia [†] West Virginia | 743 78 | 595 67 | 902 137 | 18,488 2,179 | 18,832 2,223 | 5 2 | 2 0 | 8 2 | 65 10 | 34 9 |
| 5 | | | | | | | | | | |
| . S. Central Alabama [†] | 1,341 405 | 1,703 478 | 2,410 660 | 51,823 14,847 | 56,465 16,598 | 2 | 4 1 | 10 4 | 121 41 | 115 42 |
| Kentucky | 302 | 312 | 642 | 9,448 | 7,476 | _ | 1 | 6 | 44 | 30 |
| Mississippi | 448 | 390 | 781 | 10,967 | 14,532 | _ | 0 | 3 | 7 | 8 |
| Tennessee [†] | 186 | 590 | 734 | 16,561 | 17,859 | 2 | 1 | 5 | 29 | 35 |
| V.S. Central | 1,646 | 2,883 | 4,578 | 87,163 | 98,819 | 2 | 8 | 40 | 184 | 240 |
| Arkansas [†] | 300 | 239 | 402 | 5,910 | 8,615 | — | 1 | 4 | 20 | 26 |
| Louisiana Oklahoma | 1 246 | 228 264 | 1,055 1,338 | 2,922 9,803 | 17,845 8,989 | | 1 2 | 4 9 | 20 44 | 24 52 |
| Texas [†] | 1,346 | 2,163 | 3,205 | 68,528 | 63,370 | 1 | 5 | 30 | 100 | 138 |
| Nountain | 525 | 1,509 | 2,118 | 41,875 | 44,981 | 3 | 9 | 25 | 267 | 312 |
| Arizona | 193 | 480 | 713 | 12,709 | 15,376 | | 0 | 3 | 15 | 23 |
| Colorado | _ | 400 | 709 | 11,061 | 9,747 | _ | 2 | 10 | 76 | 80 |
| Idaho [†] | — | 66 | 192 | 1,710 | 2,083 | 2 | 2 | 6 | 51 | 49 |
| Montana [†] | 7 | 57 | 75 | 1,711 | 1,804 | _ | 1 | 4 | 29 | 29 |
| Nevada [†] New Mexico [†] | 161 140 | 175 164 | 478 453 | 5,813 4,243 | 5,933 5,160 | _ | 0 2 | 2 8 | 9 43 | 11 83 |
| Utah | 140 | 117 | 175 | 3,507 | 3,734 | _ | 1 | 4 | 32 | 22 |
| Wyoming [†] | 24 | 35 | 70 | 1,121 | 1,144 | 1 | 0 | 2 | 12 | 15 |
| acific | 1,483 | 3,483 | 5,350 | 100,020 | 114,077 | 15 | 12 | 27 | 333 | 375 |
| Alaska | _ | 105 | 146 | 3,388 | 3,188 | _ | 0 | 1 | 2 | 3 |
| California | 1,483 | 2,742 | 4,406 | 81,565 | 87,580 | 9 | 8 | 20 | 203 | 205 |
| Hawaii | _ | 112 | 159 | 3,107 | 3,713 | | 0 | 0 | | 1 |
| Oregon Washington | | 129 385 | 468 638 | 1,367 10,593 | 6,404 13,192 | 3 3 | 2 1 | 10 8 | 80 48 | 120 46 |
| 5 | _ | | | 10,020 | 13,172 | | | | | |
| American Samoa C.N.M.I. | _ | 0 | 0 | _ | _ | | 0 | 0 | N | N |
| Suam | _ | 4 | 31 | 157 | 237 | _ | 0 | 0 | _ | _ |
| Puerto Rico | 204 | 94 | 266 | 3,163 | 4,888 | N | 0 | 0 | N | Ν |
| J.S. Virgin Islands | _ | 8 | 15 | 132 | 344 | _ | 0 | 0 | | _ |

C.N.M.I.: Commonwealth of Northern Mariana Islands. U: Unavailable. —: No reported cases. N: Not reportable. NN: Not Nationally Notifiable. Cum: Cumulative year-to-date counts. Med: Median. Max: Maximum. * Incidence data for reporting years 2009 and 2010 are provisional. Data for HIV/AIDS, AIDS, and TB, when available, are displayed in Table IV, which appears quarterly. † Contains data reported through the National Electronic Disease Surveillance System (NEDSS).

| | | | | | Dengue V | /irus Infection | | | | |
|--|---------|----------|-------------|-------|----------|-----------------|----------|---------------|-------|----------|
| | | | Dengue Feve | er† | | | Dengue l | Hemorrhagic I | ever§ | |
| | Current | Previous | 52 weeks | Cum | Cum | Current | Previous | 52 weeks | Cum | Cum |
| Reporting area | week | Med | Max | 2010 | 2009 | week | Med | Max | 2010 | 2009 |
| United States | — | 1 | 12 | 142 | NN | — | 0 | 1 | 1 | NN |
| New England | _ | 0 | 1 | 1 | NN | _ | 0 | 0 | — | NN |
| Connecticut Maine [¶] | _ | 0 0 | 0 1 | 1 | NN NN | _ | 0 0 | 0 0 | _ | NN NN |
| Massachusetts | _ | 0 | 0 | _ | NN | _ | Ő | 0 | _ | NN |
| New Hampshire | _ | 0 | 0 | _ | NN | _ | 0 | 0 | — | NN |
| Rhode Island¶ Vermont¶ | — | 0 | 0 | — | NN | — | 0 | 0 | — | NN |
| | _ | 0 | 0 | | NN | — | 0 | 0 | — | NN |
| Mid. Atlantic New Jersey | _ | 0 0 | 4 0 | 27 | NN NN | _ | 0 | 0 0 | _ | NN NN |
| New York (Upstate) | _ | 0 | 0 | _ | NN | _ | 0 | 0 | _ | NN |
| New York City | — | 0 | 4 | 23 | NN | — | 0 | 0 | — | NN |
| Pennsylvania | — | 0 | 2 | 4 | NN | — | 0 | 0 | — | NN |
| E.N. Central | — | 0 | 2 | 6 | NN | — | 0 | 0 | — | NN |
| Illinois Indiana | — | 0 0 | 0 0 | | NN NN | _ | 0 | 0 0 | _ | NN NN |
| Michigan | _ | 0 | 0 | _ | NN | _ | 0 | 0 | _ | NN |
| Ohio | _ | 0 | 2 | 5 | NN | _ | 0 | 0 | _ | NN |
| Wisconsin | — | 0 | 1 | 1 | NN | — | 0 | 0 | — | NN |
| W.N. Central | — | 0 | 2 | 8 | NN | — | 0 | 0 | — | NN |
| lowa | — | 0 0 | 1 0 | 1 | NN NN | _ | 0 | 0 0 | _ | NN NN |
| Kansas Minnesota | _ | 0 | 2 | 7 | NN | _ | 0 | 0 | _ | NN |
| Missouri | _ | õ | 0 | _ | NN | _ | 0 | õ | _ | NN |
| Nebraska¶ | _ | 0 | 0 | _ | NN | - | 0 | 0 | _ | NN |
| North Dakota South Dakota | — | 0 0 | 0 0 | _ | NN NN | _ | 0 | 0 0 | — | NN NN |
| | | | | _ | | | | | _ | |
| S. Atlantic Delaware | _ | 0 0 | 11 0 | 88 | NN NN | _ | 0 | 1 0 | 1 | NN NN |
| District of Columbia | _ | 0 | 0 | _ | NN | _ | 0 | 0 | _ | NN |
| Florida | — | 0 | 10 | 78 | NN | — | 0 | 1 | 1 | NN |
| Georgia | — | 0 | 2 | 5 | NN | — | 0 | 0 | — | NN |
| Maryland [¶] North Carolina | _ | 0 0 | 0 0 | _ | NN NN | _ | 0 | 0 0 | _ | NN NN |
| South Carolina [¶] | _ | Ő | 1 | 4 | NN | _ | Ő | Ő | _ | NN |
| Virginia [¶] | — | 0 | 0 | — | NN | — | 0 | 0 | — | NN |
| West Virginia | - | 0 | 1 | 1 | NN | _ | 0 | 0 | _ | NN |
| E.S. Central | _ | 0 | 1 | 1 | NN | _ | 0 | 0 | _ | NN |
| Alabama [¶] Kentucky | _ | 0 0 | 0 0 | _ | NN NN | _ | 0 | 0 0 | _ | NN NN |
| Mississippi | _ | 0 | 0 | _ | NN | _ | 0 | 0 | _ | NN |
| Tennessee [¶] | — | 0 | 1 | 1 | NN | _ | 0 | 0 | — | NN |
| W.S. Central | _ | 0 | 0 | _ | NN | _ | 0 | 0 | _ | NN |
| Arkansas [¶] | _ | 0 | 0 | _ | NN | _ | 0 | 0 | _ | NN |
| Louisiana Oklahoma | — | 0 0 | 0 0 | _ | NN NN | _ | 0 | 0 0 | _ | NN NN |
| Texas [¶] | _ | 0 | 0 | _ | NN | _ | 0 | 0 | _ | NN |
| Mountain | _ | 0 | 1 | 3 | NN | _ | 0 | 0 | _ | NN |
| Arizona | _ | Ő | 0 | _ | NN | _ | Ő | Ő | _ | NN |
| Colorado | _ | 0 | 0 | _ | NN | - | 0 | 0 | _ | NN |
| ldaho [¶] Montana [¶] | — | 0 0 | 0 1 | 1 | NN NN | _ | 0 | 0 0 | _ | NN NN |
| Nevada¶ | _ | 0 | 1 | 1 | NN | _ | 0 | 0 | _ | NN |
| New Mexico [¶] | _ | 0 | 1 | 1 | NN | _ | 0 | 0 | _ | NN |
| Utah | — | 0 | 0 | _ | NN | _ | 0 | 0 | — | NN |
| Wyoming [¶] | _ | 0 | 0 | _ | NN | _ | 0 | 0 | — | NN |
| Pacific Alaska | — | 0 0 | 2 0 | 8 | NN | — | 0 | 0 0 | — | NN |
| Alaska California | _ | 0 | 0 | 4 | NN NN | | 0 | 0 | _ | NN NN |
| Hawaii | _ | 0 | 0 | - | NN | _ | 0 | 0 | _ | NN |
| Oregon | — | 0 | 0 | — | NN | — | 0 | 0 | — | NN |
| Washington | — | 0 | 2 | 4 | NN | — | 0 | 0 | — | NN |
| American Samoa | _ | 0 | 0 | _ | NN | _ | 0 | 0 | _ | NN |
| C.N.M.I. Guam | _ | 0 | 0 | _ | NN NN | _ | 0 | 0 | _ | NN NN |
| Puerto Rico | _ | 7 | 83 | 1,055 | NN | _ | 0 | 3 | 25 | NN |
| U.S. Virgin Islands | _ | 0 | 0 | | NN | _ | 0 | 0 | | NN |
| | | ~ | - | | | | · | - | | |

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending August 7, 2010, and August 8, 2009 (31st week)*

C.N.M.I.: Commonwealth of Northern Mariana Islands. U: Unavailable. —: No reported cases. N: Not reportable. NN: Not Nationally Notifiable. Cum: Cumulative year-to-date counts. Med: Median. Max: Maximum. * Incidence data for reporting years 2009 and 2010 are provisional. * Dengue Fever includes cases that meet criteria for Dengue Fever with hemorrhage. § DHF includes cases that meet criteria for dengue shock syndrome (DSS), a more severe form of DHF. * Contains data reported through the National Electronic Disease Surveillance System (NEDSS).

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending August 7, 2010, and August 8, 2009 (31st week)*

| | | | | | | | Ehrlichio | sis/Anapla | smosis† | | | | | | |
|---|---------|------------|-------------|-------------|-------------|-----------------|-----------|------------|-------------|-------------|-----------------|------------|-----------|-------------|-------------|
| | | Ehrlid | chia chaffe | ensis | | | Anaplasm | a phagocyt | ophilum | | | Und | etermined | | |
| | Current | Previous 5 | 52 weeks | 6 | 6 | <u> </u> | Previous | 52 weeks | 6 | 6 | <u> </u> | Previous 5 | 52 weeks | 6 | 6 |
| Reporting area | week | Med | Max | Cum 2010 | Cum 2009 | Current week | Med | Max | Cum 2010 | Cum 2009 | Current week | Med | Max | Cum 2010 | Cum 2009 |
| United States | 11 | 12 | 181 | 313 | 564 | 13 | 14 | 309 | 305 | 553 | 2 | 2 | 35 | 55 | 123 |
| New England | _ | 0 | 6 | 3 | 32 | _ | 1 | 22 | 30 | 158 | _ | 0 | 1 | 2 | 2 |
| Connecticut Maine [§] | _ | 0 0 | 0 1 | 2 | 3 | _ | 0 0 | 13 | 12 | 2 11 | _ | 0 | 0 0 | _ | _ |
| Massachusetts | _ | 0 | 2 | | 5 7 | _ | 0 | 2 4 | 12 | 80 | _ | 0 | 0 | _ | _ |
| New Hampshire | _ | 0 | 1 | 1 | 3 | _ | 0 | 3 | 7 | 14 | — | 0 | 1 | 2 | 1 |
| Rhode Island [§] Vermont [§] | _ | 0 0 | 4 1 | _ | 19 | _ | 0 0 | 20 0 | 11 | 51 | _ | 0 | 0 0 | _ | 1 |
| Mid. Atlantic | 3 | 1 | 15 | 26 | 102 | 10 | 3 | 17 | 99 | 171 | _ | 0 | 3 | 1 | 34 |
| New Jersey | _ | 0 | 6 | | 64 | | 0 | 2 | 1 | 57 | _ | ů 0 | 0 | _ | _ |
| New York (Upstate) | 3 | 1 | 15 | 17 | 21 | 10 | 2 | 17 | 97 | 109 | — | 0 | 1 | 1 | 4 |
| New York City Pennsylvania | _ | 0 | 1 5 | 8 1 | 7 10 | _ | 0 0 | 1 | 1 | 4 1 | _ | 0 | 0 3 | _ | 1 29 |
| | _ | 0 | 7 | 13 | 69 | _ | 3 | 22 | 124 | 208 | _ | 1 | 5 | 29 | 29 54 |
| E.N. Central Illinois | _ | 0 | 3 | 6 | 31 | _ | 0 | 1 | | 5 | _ | 0 | 2 | 3 | 3 |
| Indiana | _ | 0 | 0 | _ | _ | — | 0 | 0 | _ | _ | _ | 0 | 2 | 12 | 28 |
| Michigan | _ | 0 | 1 | 1 | 3 | _ | 0 0 | 0 | _ | 1 | _ | 0 | 1 | 2 | 2 |
| Ohio Wisconsin | _ | 0 0 | 2 3 | 1 5 | 9 26 | _ | 3 | 22 | 124 | 1 202 | _ | 0 | 0 3 | 12 | 21 |
| W.N. Central | 3 | 2 | 10 | 74 | 109 | 1 | 0 | 261 | 8 | 1 | 1 | 0 | 30 | 14 | 14 |
| lowa | _ | 0 | 0 | _ | _ | _ | 0 | 0 | _ | _ | _ | 0 | 0 | _ | _ |
| Kansas | — | 0 | 1 | 4 | 6 | — | 0 | 1 | — | — | — | 0 | 0 | _ | |
| Minnesota Missouri | 2 | 0 1 | 6 9 | 69 | 102 | 1 | 0 0 | 261 3 | 8 | | 1 | 0 | 30 4 | — 14 | 2 12 |
| Nebraska [§] | 1 | 0 | 1 | 1 | 1 | _ | 0 | 1 | _ | _ | _ | 0 | 0 | — | |
| North Dakota | — | 0 | 0 | _ | — | — | 0 | 0 | _ | _ | _ | 0 | 0 | _ | _ |
| South Dakota | | 0 | 0 | | | | 0 | 0 | | | _ | 0 | 0 | _ | |
| S. Atlantic Delaware | 5 | 4 0 | 19 3 | 139 13 | 147 12 | 2 | 0 0 | 7 1 | 34 4 | 11 | _ | 0 | 1 0 | 2 | 2 |
| District of Columbia | _ | 0 | 0 | 15 | 12 | _ | 0 | 0 | 4 | 2 | _ | 0 | 0 | _ | _ |
| Florida | — | 0 | 2 | 7 | 7 | 1 | 0 | 1 | 2 | 2 | — | 0 | 0 | — | — |
| Georgia Maryland [§] | _ | 0 | 2 2 | 9 12 | 15 29 | _ | 0 | 1 2 | 1 8 | 1 2 | _ | 0 | 1 1 | 1 | _ |
| North Carolina | _ | 1 | 2 | 53 | 29 34 | _ | 0 | 4 | 0 12 | 2 | _ | 0 | 0 | _ | _ |
| South Carolina [§] | — | 0 | 2 | 2 | 8 | — | 0 | 0 | _ | _ | — | 0 | 0 | — | — |
| Virginia [§] | 5 | 1 | 13 0 | 43 | 41 | 1 | 0 0 | 2 0 | 7 | 2 | — | 0 0 | 0 1 | — | 2 |
| West Virginia | _ | 0 1 | 11 | | 1 82 | _ | 0 | 2 | 10 | 2 | 1 | 0 | 2 | 6 | 17 |
| E.S. Central Alabama [§] | _ | 0 | 3 | 6 | 2 | _ | 0 | 2 | 4 | | _ | 0 | 0 | _ | |
| Kentucky | _ | 0 | 2 | 6 | 8 | _ | 0 | 0 | _ | _ | _ | 0 | 0 | _ | _ |
| Mississippi | _ | 0 | 1 | 1 | 5 | _ | 0 | 1 | 1 | _ | _ | 0 | 0 | _ | |
| Tennessee [§] | _ | 1 0 | 10 141 | 31 13 | 67 21 | _ | 0 0 | 1 23 | 5 | 2 1 | 1 | 0 | 2 1 | 6 1 | 17 |
| W.S. Central Arkansas [§] | _ | 0 | 34 | 13 | 4 | _ | 0 | 25 6 | _ | _ | _ | 0 | 0 | _ | _ |
| Louisiana | _ | 0 | 0 | _ | _ | _ | Ő | Ő | _ | _ | _ | Ő | Ő | _ | _ |
| Oklahoma | — | 0 | 105 | 11 | 16 | — | 0 | 16 | — | 1 | — | 0 | 0 | _ | _ |
| Texas [§] | _ | 0 | 2 | 1 | 1 | _ | 0 | 1 | _ | _ | _ | 0 | 1 1 | 1 | _ |
| Mountain Arizona | _ | 0 | 0 0 | _ | _ | _ | 0 0 | 0 0 | _ | _ | _ | 0 0 | 1 | _ | _ |
| Colorado | _ | 0 | 0 | _ | _ | _ | 0 | 0 | _ | _ | _ | 0 | 0 | _ | _ |
| Idaho [§] | — | 0 | 0 | — | — | — | 0 | 0 | — | — | _ | 0 | 0 | — | — |
| Montana [§] Nevada [§] | _ | 0 | 0 0 | _ | _ | _ | 0 0 | 0 | _ | _ | _ | 0 0 | 0 0 | _ | _ |
| New Mexico [§] | _ | 0 | 0 | _ | _ | _ | 0 | 0 | _ | _ | _ | 0 | 0 | _ | _ |
| Utah | _ | 0 | 0 | _ | — | _ | 0 | 0 | — | — | — | 0 | 0 | _ | _ |
| Wyoming [§] | _ | 0 | 0 | _ | _ | _ | 0 | 0 | — | _ | — | 0 | 0 | _ | _ |
| Pacific Alaska | _ | 0 | 1 0 | 1 | 2 | _ | 0 0 | 1 0 | _ | 1 | _ | 0 0 | 1 0 | _ | _ |
| California | _ | 0 | 1 | 1 | 2 | _ | 0 | 0 | _ | 1 | _ | 0 | 0 | _ | _ |
| Hawaii | _ | 0 | 0 | _ | _ | _ | 0 | 0 | _ | _ | _ | 0 | 0 | _ | _ |
| Oregon | — | 0 | 0 | — | — | — | 0 | 0 | — | — | — | 0 | 0 | — | _ |
| Washington | _ | 0 0 | 0 0 | _ | | _ | 0 0 | 0 0 | | _ | — | 0 | 0 0 | — | _ |
| American Samoa C.N.M.I. | _ | | | _ | _ | _ | | | _ | _ | _ | | | _ | _ |
| Guam | _ | 0 | 0 | _ | _ | _ | 0 | 0 | _ | _ | _ | 0 | 0 | _ | _ |
| Puerto Rico | — | 0 | 0 | _ | _ | _ | 0 | 0 | _ | _ | _ | 0 | 0 | _ | _ |
| U.S. Virgin Islands | — | 0 | 0 | — | _ | _ | 0 | 0 | — | _ | _ | 0 | 0 | _ | _ |

C.N.M.I.: Commonwealth of Northern Mariana Islands. U: Unavailable. —: No reported cases. N: Not reportable. NN: Not Nationally Notifiable. Cum: Cumulative year-to-date counts. Med: Median. Max: Maximum. * Incidence data for reporting years 2009 and 2010 are provisional. † Cumulative total *E. ewingii* cases reported for year 2010 = 6. § Contains data reported through the National Electronic Disease Surveillance System (NEDSS).

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending August 7, 2010, and August 8, 2009 (31st week)*

| | | | Giardiasi | 5 | | | | Gonorrhea | a | | На | emophilus i All ages, | <i>nfluenzae,</i> , all seroty | | |
|--|---------|----------|-----------|-------------|-------------|------------|-------------|--------------|-----------------|-----------------|---------|--------------------------|-----------------------------------|-----------|-----------|
| D | Current | Previous | | Cum | Cum | current _ | Previous 5 | | Cum | Cum | Current | Previous 5 | | Cum | Cum |
| Reporting area | week | Med | Max | 2010 | 2009 | week | Med | Max | 2010 | 2009 | week | Med | Max | 2010 | 2009 |
| United States | 230 | 333 | 666 | 9,649 | 10,259 | 2,879 | 5,408 | 6,656 | 156,973 | 181,437 | 19 | 58 | 171 | 1,835 | 1,871 |
| New England Connecticut | 8 | 31 5 | 65 15 | 811 158 | 866 161 | 66 | 100 44 | 196 169 | 3,064 1,380 | 2,869 1,315 | _ | 3 0 | 21 15 | 101 22 | 126 39 |
| Maine [§] | 1 | 4 | 13 | 113 | 111 | _ | 3 | 11 | 108 | 79 | _ | 0 | 2 | 8 | 15 |
| Massachusetts | _ | 12 | 36 | 311 | 364 | 61 | 40 | 72 | 1,315 | 1,179 | — | 1 | 8 | 52 | 59 |
| New Hampshire Rhode Island [§] | 1 | 3 | 11 7 | 87 35 | 108 37 | _ | 2 5 | 7 13 | 80 140 | 65 204 | _ | 0 | 2 2 | 7 7 | 6 3 |
| Vermont [§] | 6 | 4 | 14 | 107 | 85 | 5 | 1 | 17 | 41 | 204 | _ | 0 | 1 | 5 | 4 |
| Mid. Atlantic | 44 | 60 | 112 | 1,641 | 1,899 | 511 | 676 | 941 | 20,148 | 18,109 | 1 | 11 | 34 | 357 | 359 |
| New Jersey | | 7 | 15 | 163 | 256 | 43 | 102 | 151 | 3,215 | 2,804 | | 2 | 7 | 51 | 87 |
| New York (Upstate) | 26 8 | 24 16 | 84 27 | 613 458 | 690 496 | 80 271 | 108 221 | 422 394 | 3,119 | 2,996 | 1 | 3 2 | 20 6 | 96 67 | 87 39 |
| New York City Pennsylvania | 0 10 | 15 | 37 | 438 | 490 | 117 | 212 | 282 | 7,058 6,756 | 6,524 5,785 | _ | 4 | 9 | 143 | 146 |
| E.N. Central | 24 | 50 | 92 | 1,459 | 1,582 | 233 | 965 | 1,536 | 27,146 | 38,575 | 3 | 9 | 20 | 306 | 297 |
| Illinois | _ | 11 | 22 | 271 | 351 | _ | 201 | 441 | 4,702 | 12,373 | _ | 2 | 9 | 85 | 114 |
| Indiana | _ | 6 | 14 | 147 | 149 | | 92 | 186 | 2,877 | 4,625 | _ | 1 | 6 | 59 | 52 |
| Michigan Ohio | 4 17 | 12 17 | 25 28 | 356 490 | 368 453 | 127 44 | 251 314 | 502 372 | 8,043 8,821 | 9,010 9,399 | 1 2 | 0 2 | 4 6 | 23 74 | 16 67 |
| Wisconsin | 3 | 7 | 23 | 195 | 261 | 62 | 91 | 193 | 2,703 | 3,168 | | 2 | 5 | 65 | 48 |
| W.N. Central | 19 | 25 | 165 | 823 | 939 | 73 | 274 | 367 | 7,799 | 9,002 | 5 | 3 | 24 | 106 | 104 |
| lowa | 4 | 5 | 10 | 161 | 175 | 2 | 31 | 53 | 923 | 1,023 | _ | 0 | 1 | 1 | |
| Kansas Minnesota | — | 4 0 | 14 135 | 123 136 | 77 250 | _ | 39 40 | 83 64 | 1,079 1,111 | 1,536 1,416 | — | 0 | 2 17 | 9 25 | 11 32 |
| Missouri | 9 | 9 | 27 | 221 | 230 | 71 | 123 | 172 | 3,783 | 3,937 | 3 | 1 | 6 | 25 49 | 32 40 |
| Nebraska [§] | 6 | 3 | 9 | 126 | 101 | _ | 23 | 54 | 646 | 798 | 2 | 0 | 2 | 14 | 16 |
| North Dakota | — | 0 | 8 | 13 | 7 | _ | 2 | 11 | 76 | 75 | _ | 0 | 4 | 8 | 5 |
| South Dakota | | 1 73 | 10 | 43 | 48 | 758 | 1 2 2 7 | 16 | 181 | 217 | 9 | 0 14 | 0 27 | 483 | 506 |
| S. Atlantic Delaware | 67 | /3 | 143 3 | 2,214 14 | 2,127 18 | 25 | 1,327 19 | 1,690 34 | 39,044 590 | 45,583 542 | 9 | 0 | 27 | 483 | 306 |
| District of Columbia | _ | 1 | 4 | 17 | 39 | 39 | 39 | 86 | 1,164 | 1,650 | _ | 0 | 1 | 1 | 2 |
| Florida | 51 | 38 | 87 | 1,167 | 1,133 | 244 | 376 | 482 | 11,649 | 12,886 | 2 | 3 | 9 | 119 | 163 |
| Georgia Maryland [§] | 4 | 13 5 | 52 12 | 486 161 | 444 159 | _ | 137 128 | 494 237 | 3,346 3,632 | 8,449 3,661 | 4 | 3 1 | 9 6 | 116 37 | 99 58 |
| North Carolina | 4 N | 0 | 0 | N | N | 174 | 262 | 596 | 3,032 8,860 | 8,869 | 2 | 2 | 9 | 86 | 60 |
| South Carolina [§] | 2 | 2 | 7 | 77 | 54 | 122 | 157 | 234 | 4,805 | 5,098 | — | 2 | 7 | 56 | 41 |
| Virginia ⁹ West Virginia | 9 1 | 8 0 | 36 5 | 272 20 | 252 28 | 136 18 | 162 8 | 271 19 | 4,711 287 | 4,113 315 | _ | 2 0 | 4 5 | 50 13 | 59 21 |
| West Virginia | _ | 6 | 22 | 139 | 28 | 394 | ہ 477 | 700 | 14,131 | 16,227 | 1 | 3 | 12 | 110 | 121 |
| E.S. Central Alabama [§] | _ | 4 | 9 | 87 | 115 | 125 | 137 | 214 | 4,369 | 4,624 | _ | 0 | 3 | 17 | 31 |
| Kentucky | Ν | 0 | 0 | N | N | 94 | 80 | 156 | 2,418 | 2,179 | 1 | 0 | 2 | 22 | 16 |
| Mississippi | N | 0 | 0 | N | N | 130 | 114 | 217 | 3,067 | 4,565 | — | 0 | 2 | 9 | 7 |
| Tennessee [§] | 1 | 3 | 18 | 52 | 115 | 45 | 154 | 206 | 4,277 | 4,859 | _ | 2 2 | 10 | 62 | 67 |
| W.S. Central Arkansas [§] | 1 1 | 9 3 | 18 9 | 204 65 | 271 76 | 431 110 | 776 72 | 1,228 139 | 22,981 1,776 | 28,799 2,638 | _ | 2 | 20 3 | 85 12 | 82 15 |
| Louisiana | _ | 3 | 10 | 76 | 115 | | 64 | 343 | 910 | 5,811 | _ | 0 | 3 | 17 | 14 |
| Oklahoma | _ | 3 | 10 | 63 | 80 | 321 | 81 | 359 | 2,764 | 2,799 | — | 1 | 15 | 49 | 50 |
| Texas [§] | N | 0 | 0 | N | N | _ | 568 | 963 | 17,531 | 17,551 | — | 0 | 2 | 7 | 3 |
| Mountain Arizona | 7 2 | 28 3 | 64 7 | 834 83 | 876 111 | 86 31 | 172 61 | 266 109 | 4,884 1,490 | 5,363 1,765 | _ | 5 2 | 15 10 | 202 74 | 168 53 |
| Colorado | | 13 | 27 | 410 | 255 | | 50 | 109 | 1,490 | 1,641 | _ | 1 | 5 | 62 | 50 |
| Idaho [§] | 1 | 4 | 9 | 115 | 98 | _ | 2 | 8 | 43 | 57 | _ | 0 | 2 | 13 | 3 |
| Montana [§] | 3 | 2 | 11 | 60 | 72 | 1 | 2 | 6 | 65 | 48 | _ | 0 | 1 | 2 | 1 |
| Nevada [§] New Mexico [§] | 1 | 1 | 11 8 | 32 47 | 63 75 | 23 30 | 28 21 | 94 41 | 1,027 578 | 1,021 613 | _ | 0 1 | 2 5 | 5 26 | 12 22 |
| Utah | _ | 3 | 13 | 67 | 165 | _ | 6 | 15 | 188 | 173 | _ | 0 | 4 | 15 | 24 |
| Wyoming [§] | _ | 1 | 5 | 20 | 37 | 1 | 1 | 3 | 23 | 45 | — | 0 | 2 | 5 | 3 |
| Pacific | 60 | 53 | 133 | 1,524 | 1,469 | 327 | 565 | 749 | 17,776 | 16,910 | _ | 2 | 9 | 85 | 108 |
| Alaska California | 27 | 2 34 | 7 61 | 52 966 | 53 990 | 327 | 23 475 | 36 680 | 739 15,223 | 539 13,921 | _ | 0 | 2 8 | 14 24 | 12 37 |
| Hawaii | | 0 | 4 | 15 | 13 | | 10 | 24 | 363 | 384 | _ | 0 | 2 | 3 | 25 |
| Oregon | 6 | 9 | 15 | 258 | 215 | _ | 8 | 43 | 106 | 655 | — | 1 | 5 | 40 | 31 |
| Washington | 27 | 8 | 75 | 233 | 198 | _ | 43 | 84 | 1,345 | 1,411 | _ | 0 | 4 | 4 | 3 |
| American Samoa | _ | 0 | 0 | _ | — | — | 0 | 0 | _ | — | — | 0 | 0 | — | _ |
| C.N.M.I. Guam | _ | 0 | 1 | 2 | 3 | _ | 0 | 4 | 20 | 12 | _ | 0 | 0 | _ | _ |
| Puerto Rico | _ | 1 | 10 | 14 | 90 | 5 | 4 | 14 | 151 | 169 | _ | 0 | 1 | 1 | 3 |
| U.S. Virgin Islands | _ | 0 | 0 | _ | _ | _ | 1 | 4 | 25 | 88 | _ | 0 | 0 | _ | _ |

C.N.M.I.: Commonwealth of Northern Mariana Islands. U: Unavailable. —: No reported cases. N: Not reportable. NN: Not Nationally Notifiable. Cum: Cumulative year-to-date counts. Med: Median. Max: Maximum. * Incidence data for reporting years 2009 and 2010 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 August 7, 2010, and August 8, 2009 (31st week)*

| Guam - 0 6 12 4 - 0 6 24 40 - 0 6 24 30 Puerto Rico - 0 1 3 20 - 0 5 8 21 - 0 0 - - - | | | | | | | | Hepatitis (| viral, acut | e), by typ | e | | | | | |
|--|------------------------|---|---|----|-----|-----|----|-------------|-------------|------------|-----|---|---|----|-----|-----|
| Reporting area Wreek Med Max 2010 2009 Wreek Med Max 2010 2009 United States 26 30 69 857 11.83 38 57 201 1.710 1.955 6 15 44 475 480 Mainet - 0 3 3 3 3 - 0 1 4 13 39 - 0 1 4 13 39 - 0 1 5 10 1 1 4 1 - 0 2 7 13 1 0 1 5 10 1 2 - 0 | | | | | | | | | | | | | | | | |
| $ \begin{array}{c c c c c c c c c c c c c c c c c c c $ | Penarting area | | | | | | | | | | | | | | | |
| New Enginal - 2 5 60 63 - 1 5 31 55 - 1 5 88 36 Maine* - 0 2 16 14 - 0 2 17 8 - 0 1 - - 0 1 - - 0 1 - - 0 1 - 0 1 - - 0 1 - - 0 1 - - 0 1 0 <th></th> | | | | | | | | | | | | | | | | |
| Connecticut - 0 2 1 9 - 0 4 13 27 Mandr - 0 2 10 13 - 0 2 10 13 - 0 1 - - - 0 1 - - 0 1 13 2 10 10 0 0 1 0 0 1 0 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>50</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> | | | | | | | 50 | | | | | | | | | |
| Massachusetts - 1 4 33 38 - 0 2 7 15 - 0 0 0 N | Connecticut | | 0 | 2 | 16 | 14 | _ | 0 | 2 | 7 | 9 | | 0 | | | |
| New Hampshire - 0 1 1 5 - 0 2 5 3 N 0 0 N N Vermont ¹ - 0 0 - 1 2 - 0 0 U U U 0 0 U U U U 0 0 0 U U U 0 N | | | | - | | | | | | | | | | - | | |
| Vermont [†] - 0 0 - 2 - 0 1 2 - - 0 0 - 1 New Jacksy - 0 4 10 49 - 1 5 44 67 - 0 2 5 4 New Jacksy - 1 5 33 42 - 1 6 53 77 1 0 1 7 2 2 5 77 1 0 1 7 2 2 6 53 77 1 1 0 1 | | _ | - | | | | | | | | | | - | - | | |
| Mat. Attanic 5 4 100 100 169 2 5 10 178 224 2 2 5 64 0 New York (Upstate) 3 1 3 33 28 1 1 6 32 38 1 1 3 36 31 New York (Upstate) 3 1 5 33 420 - 1 5 50 73 1 0 3 223 Rent (Mathing) - 1 6 33 420 - 2 6 572 26 7 - 0 1 6 42 22 Ohion 1 0 4 18 22 2 6 67 92 - 0 1 1 1 2 2 2 1 1 1 2 2 1 1 1 2 2 1 1 1 1 1 | | — | | | | | | | | | | | | | | |
| Interview - 0 4 10 40 - 1 5 44 67 - 0 2 5 44 New York (hy - 1 5 34 50 1 1 4 52 38 1 1 0 3 26 31 New York (hy - 1 5 34 50 1 1 4 52 38 1 0 3 22 22 22 24 1 0 3 22 2 6 65 32 49 - 0 1 6 22 2 6 66 63 - 0 1 2 3 3 33 </td <td></td> | | | | | | | | | | | | | | | | |
| New York (bprate) 3 1 3 33 28 1 1 6 32 28 1 1 3 36 31 Pennsy Vork (bprate) 2 1 6 33 42 - 1 5 50 78 1 0 3 22 23 Bennsy Vork (bprate) 2 1 5 50 78 1 0 3 22 23 Bennsy Vork (bprate) - 1 6 14 2 2 6 65 65 79 27 - 0 1 2 2 3 33 15 - 0 1 1 1 1 1 1 1 1 1 1 1 1 1 3 33 15 - 0 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | | | | | | | | | | | | | - | | |
| PennsyNamia 2 1 6 33 42 - 1 5 50 78 1 0 3 22 23 Blinois - 1 6 18 87 - 2 6 54 69 - 0 1 1 4 44 32 42 - 2 6 67 92 1 1 6 64 22 Ohiding 1 1 10 29 1 1 10 10 29 1 1 1 10 29 1 1 10 10 29 1 1 10 11 18 7 10 13 10 13 10 13 10 11 11 13 11 13 11 13 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 </td <td>New York (Upstate)</td> <td>3</td> <td>1</td> <td>3</td> <td>33</td> <td>28</td> <td></td> <td>-</td> <td>6</td> <td>32</td> <td>38</td> <td>1</td> <td>1</td> <td>3</td> <td></td> <td>31</td> | New York (Upstate) | 3 | 1 | 3 | 33 | 28 | | - | 6 | 32 | 38 | 1 | 1 | 3 | | 31 |
| EAC central 3 4 10 102 187 2 8 15 255 256 1 2 7 88 64 Indiana - 0 2 14 13 - 1 5 322 47 - 0 2 15 16 Michigan 1 0 4 18 20 - 2 6 60 92 1 1 6 42 22 Ohio - 1 10 4 18 32 - 0 1 6 64 23 - 0 1 6 14 - 0 9 1 1 8 7 - 0 13 6 14 - 0 9 7 1 1 13 1 10 10 10 10 10 10 10 10 10 10 10 10 10 10 | | | | | | | 1 | - | | | | | | | | |
| | • | | | | | | 2 | | | | | | | | | |
| Michigan 2 1 4 32 42 - 2 6 67 92 1 1 6 64 22 Wisconsin - 0 3 20 19 - 1 3 33 15 - 0 1 2 2 Wisconsin - 0 3 20 19 - 1 3 33 33 15 - 0 1 2 3 33 33 33 33 - 0 1 1 2 2 1 1 3 33 33 33 6 14 - 0 9 6 1 1 3 1 1 1 1 0 1 | | _ | | | | | | | | | | | | | | |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | | | | | | | | | | | | | | | | |
| Wiscontain - 0 3 20 19 - 1 3 3 15 - 0 1 2 3 NWN. Central - 0 3 5 24 - 0 2 10 23 - 0 1 18 7 Iowa - 0 3 5 24 - 0 2 0 13 6 - 0 1 3 3 1 3 - 0 1 3 1 3 6 1 3 6 1 1 3 6 1 1 1 0 1 1 2 0 0 1 1 2 2 2 0 1 1 1 - 0 1 1 1 - 0 1 1 1 - 0 1 | | | | | | | | | | | | | | | | |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | | _ | | | | | | | | | | _ | | | | |
| Kanass - 0 2 8 7 - 0 2 4 5 - 0 0 - 1 Miscouri - 0 3 12 12 - 1 5 49 27 - 0 1 2 2 North Dakota - 0 1 - - 0 0 - - 0 1 - 2 2 9 - 0 1 - - - 0 1 - - 0 1 - - 0 1 - - 0 1 - - 0 1 - - 0 1 1 - - 0 1 1 - 0 1 1 1 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | W.N. Central | 1 | 1 | | | | _ | | | | | — | 0 | 11 | 18 | |
| Minesota - 0 8 1 13 - 0 13 64 14 - 0 9 6 1 Nebsaka ¹ 1 0 1 3 12 - 1 0 2 9 11 - 0 1 2 2 Nebsaka ¹ - 0 1 - - 0 0 - - 0 1 - 2 2 South Dakota - 0 1 1 3 27 11 16 40 491 544 1 4 2 2 Delaware - 0 1 1 3 27 113 3 11 14 3 2 2 1 1 4 2 2 4 17 18 182 1 1 4 3 2 2 1 1 1 2 2 1 | | — | | | | | — | | | | | — | | | 1 | |
| | | _ | | | | | _ | | | | | _ | | | 6 | |
| North Dakota - 0 1 - - - - - - 0 1 - - - - - 0 1 1 - - - - 0 1 1 - - - - 0 1 1 2 - 0 1 1 - - - 0 1 1 1 - - - 1 <t< td=""><td>Missouri</td><td>_</td><td>0</td><td></td><td>12</td><td>12</td><td>_</td><td>1</td><td>5</td><td>49</td><td></td><td>_</td><td></td><td></td><td>9</td><td>_</td></t<> | Missouri | _ | 0 | | 12 | 12 | _ | 1 | 5 | 49 | | _ | | | 9 | _ |
| South Dakota - 0 1 1 2 0 1 S. Atlantic 9 8 1 21 11 16 40 49 544 1 4 7 103 105 Strict of Columbia - 0 1 1 - 10 2 18 19 U 0 0 10 2 2 Horida 7 3 8 79 112 3 511 178 182 1 1 4 32 24 24 Georgia 1 0 4 16 29 1 6 32 49 0 2 14 33 29 13 | | 1 | | - | | | — | | | | | — | | - | 2 | |
| S, Atlantic 9 8 13 219 251 11 16 40 491 544 1 4 7 103 105 Debratics of Columbia - 0 1 1 1 1 1 2 18 9 - 0 1 2 2 Georgia 1 1 3 25 33 1 3 7 88 86 - 0 2 6 27 Maryland ¹ 1 0 3 16 29 - 1 6 32 49 - 0 2 1 4 32 29 . 1 3 29 13 5 50 7 - 1 4 67 52 - 0 0 0 1 18 30 1 14 37 46 - 0 3 16 14 13 15 13 14 | | _ | | - | | | _ | | | | | _ | - | | _ | _ |
| Delaware - 0 1 5 3 - 1 2 18 19 U 0 0 U U 0 Florida 7 3 8 79 112 3 5 11 178 182 1 1 4 32 24 Georgia 1 1 3 25 33 1 3 7 88 86 - 0 2 14 15 Mayland* 1 0 4 16 29 - 1 5 35 72 - 0 3 29 13 South Carolina* - 1 6 30 17 6 2 14 36 7 - 1 3 11 18 30 2 - 13 15 South Carolina* - 0 1 - 8 1 3 16 19 U | | 9 | 8 | 13 | 219 | | 11 | 16 | 40 | 491 | | 1 | 4 | 7 | 103 | 105 |
| Florida 7 3 8 79 112 3 5 11 178 182 1 1 4 32 24 Georgia 1 1 0 4 16 29 1 6 32 49 0 2 6 27 Maryland [†] 1 4 23 26 1 5 35 77 1 5 35 77 1 4 34 29 0 0 2 9 7 West Orginia 0 1 7 6 2 14 37 46 0 2 9 7 West Orginia 0 1 5 7 1 5 35 66 47 0 2 3 5 5 5 Kentacky 2 0 1 3 1 3 6 70 73 0 4 20 <td>Delaware</td> <td>—</td> <td></td> <td></td> <td></td> <td></td> <td>_</td> <td></td> <td></td> <td></td> <td></td> <td>U</td> <td></td> <td></td> <td></td> <td>U</td> | Delaware | — | | | | | _ | | | | | U | | | | U |
| Georgia 1 1 3 25 33 1 3 7 88 86 0 2 6 27 North Carolina* 1 5 39 26 1 5 35 72 1 3 29 13 South Carolina* 1 4 23 30 1 1 4 44 47 20 0 2 9 7 1 1 3 29 1 3 29 1 1 3 20 2 1 0 14 67 52 0 2 7 75 59 Alabama* 0 1 5 7 1 5 563 0 2 3 5 Kentucky 2 0 2 7 8 8 1 3 6 70 73 0 1 4 3 1 | | | | | | | 3 | | | | | | - | | | |
| Norin Carolina, 1 5 39 26 1 5 35 72 1 3 29 13 South Carolina,* 1 4 23 30 1 1 4 34 29 0 0 1 18 South Carolina,* 0 1 0 14 37 46 0 2 9 7 West Virginia 0 1 5 7 1 5 35 63 0 2 3 5 Kentucky 2 0 2 11 5 1 5 35 63 0 2 3 5 136 Mentucky 2 0 3 10 7 13 3 10 14 28 33 1 3 | | | | | | | | | | | | _ | | | | |
| $ \begin{array}{c c c c c c c c c c c c c c c c c c c $ | Maryland [†] | 1 | | | | | — | - | | | | _ | | | | |
| Virginia [†] 1 6 30 17 6 2 14 67 52 0 2 9 7 West Virginia 0 2 1 0 14 37 46 0 5 11 18 ES. Central 3 1 3 24 28 1 7 13 181 202 2 7 75 59 Alabama [*] 0 1 5 7 1 5 66 60 47 1 5 55 13 36 Missispipi 0 1 8 0 3 16 19 U 0 0 U U 0 U U 0 1 3 11 33 16 19 U 1 1 4 21 13 35 Ostana 1 3 10 5 23 37 | | _ | | - | | | 1 | - | | | | _ | | | 29 | |
| E.S. Central 3 1 3 24 28 1 7 13 181 202 2 7 75 59 Alabama ¹ - 0 1 5 7 1 5 63 0 2 3 5 Mississippi 0 1 8 0 3 16 19 U 0 0 U U Tennessee ¹ 1 0 2 8 8 1 3 6 70 73 0 4 21 0 4 21 0 0 U U U 0 0 U U 0 0 U U 0 1 1 3 6 70 73 0 1 1 3 3 1 19 44 24 337 0 1 1 5 5 5 6 0 12 14 4 4 4 | | _ | - | | | | | | | | | _ | | | 9 | |
| $ \begin{array}{c c c c c c c c c c c c c c c c c c c $ | West Virginia | — | | | | | | | | | | — | | | | |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | | 3 | | | | | 1 | | | | | — | - | | | |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | | 2 | | | | | _ | | | | | | | | | |
| W.S. Central - 3 19 77 110 5 9 109 242 339 - 1 14 38 31 Arkansas ¹ - 0 3 - 5 - 1 4 28 44 - 0 1 - 1 1 5 23 37 - 0 1 - 1 1 4 4 - 0 1 - 1 1 4 4 - 0 1 2 14 4< | | | | | _ | | _ | | | | | U | | | | |
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$ | Tennessee [†] | 1 | | | | | | | | | | — | | | | |
| Louisiana 0 2 6 3 1 5 23 37 0 1 3 5 Oklahoma 0 3 1 3 1 19 49 56 0 12 14 4 Mountain 2 18 71 101 2 5 71 20 5 71 20 3 12 28 79 89 1 5 29 35 Arizona 1 5 45 37 0 2 20 35 U 0 0 U U Colorado 1 4 22 32 0 1 1 5 6 0 2 6 22 7 2 Montana [†] 0 1 4 5 0 1 3 5 0 1 3 2 7 5 </td <td></td> <td>_</td> <td></td> <td></td> <td>77</td> <td></td> <td>5</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>38</td> <td></td> | | _ | | | 77 | | 5 | | | | | | | | 38 | |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | _ | | | 6 | | _ | - | | | | _ | | | 3 | |
| Mountain - 3 8 96 93 1 2 8 79 89 - 1 5 29 35 Arizona - 1 5 45 37 - 0 2 20 35 U 0 0 U U Colorado - 1 4 22 32 - 0 3 18 17 - 0 2 6 2 Montana [†] - 0 1 4 5 - 0 1 1 - - 0 0 - 1 1 2 7 2 Montana [†] - 0 1 3 5 - 0 1 3 5 - 0 1 3 2 7 5 Montana [†] - 0 1 3 5 - 0 1 3 3 1 1 <td>Oklahoma</td> <td>_</td> <td>0</td> <td>3</td> <td>_</td> <td>1</td> <td></td> <td></td> <td>19</td> <td>49</td> <td>56</td> <td>_</td> <td></td> <td>12</td> <td>14</td> <td>4</td> | Oklahoma | _ | 0 | 3 | _ | 1 | | | 19 | 49 | 56 | _ | | 12 | 14 | 4 |
| Arizona-154537-022035U00UUColorado-142232-031817-02622Idaho [†] -0262-0156-0272Montana [†] -0145-01100-1Nevada [†] -0136-0135-0275Utah-0136-0154-0163Wyoming [†] -0331-00Pacific5516140207166201801942164352Alaska-0112-0122U02UUCalifornia5415113154161271371042126Hawaii-02132911425251061312American Samoa-00- <td></td> <td>—</td> <td></td> | | — | | | | | | | | | | | | | | |
| Colorado - 1 4 22 32 - 0 3 18 17 - 0 2 6 22 Idaho [†] - 0 2 6 2 - 0 1 5 6 - 0 2 7 2 Montana [†] - 0 1 4 5 - 0 1 1 - - 0 2 7 2 Mevada [†] - 0 1 4 5 - 0 1 1 - - 0 1 3 27 18 - 0 1 3 27 18 - 0 1 3 27 15 New Mexico [†] - 0 2 4 3 - 0 1 3 27 18 3 3 1 - 0 1 3 25 4 4 - 0 0 - - - 0 1 3 22 1 6 | | _ | | | | | 1 | | | | | | | - | | |
| Montana [†] 0 1 1 0 0 1 Newada [†] 0 2 9 7 1 1 3 27 18 0 1 3 2 New Mexico [†] 0 1 3 6 0 1 3 27 18 0 1 3 2 New Mexico [†] 0 1 3 6 0 1 5 4 0 1 6 3 Wyoming [†] 0 3 3 1 0 0 4 0 0 0 1 6 3 Wyoming [†] 0 1 1 2 0 1 2 1 6 43 52 Alaska 0 1 1 2 2 0 0 0 0 0 0 | Colorado | _ | 1 | | | | _ | | | | | _ | _ | _ | | |
| Nevada [†] 0 2 9 7 1 1 3 27 18 0 1 3 2 New Mexico [†] 0 1 3 6 0 1 3 5 0 2 7 5 Utah 0 2 4 3 0 1 3 5 0 2 7 5 Utah 0 2 4 3 0 1 5 4 0 1 6 20 100 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 2 2 10 0 10 13 15 13 15 15 4 16 127 137 1 0 4 12 26 Ad | Idaho† | _ | | | 6 | 2 | | | | | | | | | | |
| New Mexico [†] 0 1 3 6 0 1 3 5 0 2 7 5 Utah 0 2 4 3 0 1 5 4 0 1 6 3 Wyoning [†] 0 3 3 1 0 0 4 0 1 6 3 Pacific 5 5 16 140 207 16 6 20 180 194 2 1 6 43 52 Alaska 0 1 2 0 1 2 2 U 0 2 U U California 5 4 15 113 158 15 4 16 127 137 1 0 4 21 26 Hawaii 0 2 1 3 29 1 1 4 26 26 | | _ | | | | | | | | | | | | | | |
| Wyoming [†] 0 3 3 1 0 0 4 0 0 0 0 0 0 0 0 0 1 0 2 1 6 43 52 Alaska 0 1 2 2 0 0 2 U <t< td=""><td></td><td>_</td><td></td><td></td><td></td><td></td><td></td><td>-</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<> | | _ | | | | | | - | | | | | | | | |
| Pacific 5 5 16 140 207 16 6 20 180 194 2 1 6 43 52 Alaska 0 1 1 2 0 1 2 2 U 0 2 U U U California 5 4 15 113 158 15 4 16 127 137 1 0 4 21 26 Hawaii 0 2 1 8 0 1 2 2 U 0 0 U U Oregon 0 2 13 29 1 1 4 25 25 1 0 6 13 12 American Samoa 0 0 | | _ | | | | | _ | | | | | | - | | 6 | |
| Alaska - 0 1 1 2 - 0 1 2 2 U 0 2 U U California 5 4 15 113 158 15 4 16 127 137 1 0 4 21 26 Hawaii 0 2 1 8 0 1 4 U 0 0 U U Oregon 0 2 13 29 1 1 4 26 26 0 3 9 14 Washington 0 2 13 29 1 1 4 25 25 1 0 6 13 12 American Samoa 0 0 Guam 0 6 12 4 0 6 24 40 0 6 24 <td>, ,</td> <td></td> | , , | | | | | | | | | | | | | | | |
| California 5 4 15 113 158 15 4 16 127 137 1 0 4 21 26 Hawaii 0 2 1 8 0 1 4 U 0 0 U U Oregon 0 2 12 10 1 4 26 26 0 3 9 14 Washington 0 2 13 29 1 1 4 26 26 0 3 9 14 Washington 0 2 13 29 1 1 4 25 25 1 0 6 13 12 American Samoa <td></td> | | | | | | | | | | | | | | | | |
| Oregon 0 2 12 10 1 4 26 26 0 3 9 14 Washington 0 2 13 29 1 1 4 25 25 1 0 6 13 12 American Samoa 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 </td <td>California</td> <td></td> <td>4</td> <td>15</td> <td></td> <td>158</td> <td></td> <td>4</td> <td></td> <td></td> <td>137</td> <td>1</td> <td></td> <td>4</td> <td></td> <td>26</td> | California | | 4 | 15 | | 158 | | 4 | | | 137 | 1 | | 4 | | 26 |
| Washington 0 2 13 29 1 1 4 25 25 1 0 6 13 12 American Samoa 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | — | | | | | | | | | | | | | | |
| American Samoa 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 < | | _ | | | | | | - | | | | | - | | | |
| CN.M.I. | 5 | _ | | | | | _ | - | | | | _ | | | | |
| Puerto Rico — 0 1 3 20 — 0 5 8 21 — 0 0 — — | C.N.M.I. | _ | _ | _ | | _ | _ | _ | _ | _ | | _ | _ | _ | _ | |
| | Guam Puerto Rico | - | | | | | _ | | | | | | | | | 30 |
| | U.S. Virgin Islands | _ | 0 | 0 | - 3 | 20 | _ | 0 | 5 0 | ° | 21 | _ | 0 | 0 | _ | _ |

C.N.M.I.: Commonwealth of Northern Mariana Islands. U: Unavailable. —: No reported cases. N: Not reportable. NN: Not Nationally Notifiable. Cum: Cumulative year-to-date counts. Med: Median. Max: Maximum. * Incidence data for reporting years 2009 and 2010 are provisional. † Contains data reported through the National Electronic Disease Surveillance System (NEDSS).

1000

| | | L | egionellos | is | | | Ly | me disease | e | | Malaria | | | | | |
|-------------------------------------|---------|----------|-------------------|-----------|------------|-----------|-----------|------------|----------------|-----------------|---------|----------|----------|----------|-----------|--|
| | Current | Previous | vious 52 weeks Cu | | Cum | Current - | Previous | 52 weeks | Cum | Cum | Current | Previous | 52 weeks | Cum | Cum | |
| Reporting area | week | Med | Max | 2010 | 2009 | week | Med | Max | 2010 | 2009 | week | Med | Max | 2010 | 2009 | |
| United States | 33 | 57 | 174 | 1,489 | 1,671 | 308 | 435 | 2,336 | 12,771 | 24,006 | 22 | 25 | 89 | 698 | 779 | |
| New England | 2 | 3 | 18 | 60 | 107 | 37 | 121 | 492 | 2,927 | 8,667 | _ | 1 | 4 | 34 | 32 | |
| Connecticut | 2 | 0 | 4 | 18 | 31 | | 40 | 150 | 1,071 | 3,047 | _ | 0 | 1 | 1 | 4 | |
| Maine [†] Massachusetts | _ | 0 1 | 3 7 | 5 22 | 2 58 | 21 | 13 33 | 76 198 | 299 683 | 383 3,879 | _ | 0 | 1 3 | 5 21 | 1 20 | |
| New Hampshire | _ | 0 | , 1 | 5 | 8 | _ | 22 | 48 | 652 | 976 | _ | 0 | 1 | 1 | 20 | |
| Rhode Island [†] | _ | 0 | 4 | 5 | 5 | 6 | 1 | 19 | 31 | 147 | — | 0 | 1 | 4 | 2 | |
| Vermont [†] | _ | 0 | 2 | 5 | 3 | 10 | 4 | 45 | 191 | 235 | — | 0 | 1 | 2 | 3 | |
| Mid. Atlantic New Jersey | 12 | 15 2 | 73 14 | 364 37 | 599 115 | 205 | 199 44 | 757 140 | 6,753 1,606 | 10,190 3,717 | _ | 7 | 17 5 | 187 1 | 217 61 | |
| New York (Upstate) | 8 | 2 | 29 | 126 | 163 | 137 | 44 56 | 577 | 1,600 | 2,103 | _ | 1 | 4 | 38 | 28 | |
| New York City | _ | 2 | 14 | 59 | 130 | _ | 0 | 45 | 5 | 637 | _ | 4 | 12 | 115 | 92 | |
| Pennsylvania | 4 | 6 | 20 | 142 | 191 | 68 | 74 | 363 | 3,461 | 3,733 | _ | 1 | 3 | 33 | 36 | |
| E.N. Central | 7 | 11 | 41 | 307 | 313 | — | 23 | 129 | 822 | 2,114 | 2 | 2 | 12 | 81 | 107 | |
| Illinois Indiana | _ | 1 2 | 11 6 | 38 54 | 43 29 | _ | 1 1 | 11 6 | 41 34 | 102 56 | _ | 1 | 7 4 | 24 7 | 49 12 | |
| Michigan | 3 | 2 | 13 | 56 | 60 | _ | 1 | 9 | 52 | 45 | _ | 0 | 4 | 15 | 17 | |
| Ohio | 4 | 5 | 17 | 130 | 142 | _ | 1 | 5 | 16 | 22 | 2 | 0 | 5 | 31 | 24 | |
| Wisconsin | — | 1 | 6 | 29 | 39 | — | 19 | 109 | 679 | 1,889 | — | 0 | 2 | 4 | 5 | |
| W.N. Central | 1 | 2 | 19 | 66 | 66 | — | 3 | 1,395 | 68 | 141 | 2 | 1 | 11 | 36 | 35 | |
| lowa Kansas | — | 0 | 3 2 | 4 | 14 5 | — | 0 0 | 7 1 | 48 5 | 84 14 | _ | 0 | 1 1 | 7 4 | 7 4 | |
| Minnesota | _ | 0 | 16 | 21 | 6 | _ | 0 | 1,380 | | 40 | _ | 0 | 11 | 4 | 13 | |
| Missouri | _ | 1 | 5 | 22 | 30 | _ | 0 | 1 | 3 | 1 | 1 | 0 | 3 | 10 | 7 | |
| Nebraska [†] | 1 | 0 | 2 | 6 | 9 | — | 0 | 2 | 8 | 1 | 1 | 0 | 2 | 10 | 3 | |
| North Dakota South Dakota | _ | 0 0 | 1 | 3 4 | 1 1 | _ | 0 0 | 15 1 | 3 | 1 | _ | 0 | 1 2 | 2 | 1 | |
| | 5 | 10 | 24 | 301 | 283 | 61 | 62 | 155 | 1,989 | 2,665 | 9 | 6 | 15 | 178 | 217 | |
| S. Atlantic Delaware | _ | 0 | 3 | 10 | 205 | 5 | 12 | 36 | 432 | 656 | | 0 | 1 | 2 | 217 | |
| District of Columbia | _ | Ő | 4 | 12 | 14 | _ | 0 | 4 | 10 | 41 | _ | Ő | 3 | 7 | 8 | |
| Florida | _ | 4 | 10 | 101 | 91 | 6 | 2 | 11 | 47 | 25 | 5 | 2 | 6 | 71 | 59 | |
| Georgia Maryland† | 1 | 1 3 | 4 | 27 59 | 29 70 | 19 | 0 26 | 2 77 | 5 809 | 33 | _ | 0 | 4 13 | 3 31 | 47 51 | |
| North Carolina | 4 | 5 1 | 12 7 | 39 | 33 | | 20 | 8 | 53 | 1,337 59 | _ | 0 | 4 | 19 | 18 | |
| South Carolina [†] | _ | 0 | 2 | 6 | 5 | _ | 1 | 3 | 18 | 21 | _ | Ő | 1 | 3 | 2 | |
| Virginia [†] | _ | 1 | 6 | 41 | 30 | 31 | 14 | 79 | 567 | 430 | 4 | 1 | 5 | 41 | 28 | |
| West Virginia | _ | 0 | 3 | 9 | 3 | — | 0 | 33 | 48 | 63 | _ | 0 | 2 | 1 | 2 | |
| E.S. Central | 2 | 2 | 12 | 75 | 68 | _ | 1 | 4 | 30 | 17 | 1 | 0 | 3 | 18 | 25 | |
| Alabama [†] Kentucky | 1 | 0 | 2 3 | 7 14 | 9 29 | _ | 0 0 | 1 1 | 2 | 2 1 | 1 | 0 | 2 3 | 3 4 | 6 8 | |
| Mississippi | _ | Ő | 3 | 8 | 4 | _ | Ő | 0 | _ | _ | | Ő | 2 | 2 | 3 | |
| Tennessee [†] | 1 | 1 | 9 | 46 | 26 | _ | 1 | 4 | 28 | 14 | — | 0 | 2 | 9 | 8 | |
| W.S. Central | — | 2 | 14 | 59 | 61 | — | 3 | 44 | 36 | 90 | — | 1 | 31 | 50 | 33 | |
| Arkansas [†] | _ | 0 | 2 | 10 | 4 | — | 0 | 0 | — | _ | — | 0 | 1 | 1 | 3 | |
| Louisiana Oklahoma | _ | 0 | 3 4 | 3 8 | 6 3 | _ | 0 0 | 0 2 | _ | _ | _ | 0 | 1 1 | 3 | 4 1 | |
| Texas [†] | _ | 1 | 10 | 38 | 48 | _ | 3 | 42 | 36 | 90 | _ | 1 | 30 | 46 | 25 | |
| Mountain | 1 | 3 | 9 | 96 | 72 | 1 | 0 | 4 | 13 | 36 | _ | 1 | 6 | 32 | 33 | |
| Arizona | _ | 1 | 5 | 34 | 25 | — | 0 | 1 | 3 | 3 | — | 0 | 2 | 14 | 5 | |
| Colorado | 1 | 1 | 5 | 19 | 10 | 1 | 0 | 1 | 1 | | _ | 0 | 2 | 10 | 19 1 | |
| Idaho† Montana† | 1 | 0 | 1 1 | 3 4 | 3 4 | 1 | 0 0 | 3 0 | 4 | 9 3 | _ | 0 | 3 | 1 1 | 4 | |
| Nevada [†] | _ | 0 | 2 | 17 | 9 | _ | 0 | 1 | _ | 11 | _ | 0 | 1 | 3 | | |
| New Mexico [†] | — | 0 | 2 | 4 | 3 | — | 0 | 1 | 3 | 3 | — | 0 | 0 | — | — | |
| Utah | — | 0 | 3 | 12 | 17 | _ | 0 | 1 | 2 | 6 | — | 0 | 1 | 3 | 4 | |
| Wyoming [†] | | 0 | 2 | 3 | 1 | | 0 | 1 | | 1 | | 0 | 0 | | | |
| Pacific Alaska | 3 | 5 0 | 19 2 | 161 2 | 102 | 4 | 5 0 | 10 | 133 2 | 86 4 | 8 | 3 0 | 19 1 | 82 2 | 80 2 | |
| Alaska California | 2 | 0 | 2 19 | 2 137 | 1 79 | 4 | 0 | 1 9 | 2 91 | 4 54 | 7 | 0 2 | 1 13 | 2 56 | 2 58 | |
| Hawaii | | 0 | 1 | 1 | 1 | Ň | 0 | 0 | N | N | _ | 0 | 0 | | 1 | |
| Oregon | 1 | 0 | 3 | 9 | 7 | — | 1 | 4 | 35 | 25 | — | 0 | 1 | 6 | 9 | |
| Washington | _ | 0 | 4 | 12 | 14 | _ | 0 | 3 | 5 | 3 | 1 | 0 | 5 | 18 | 10 | |
| American Samoa | — | 0 | 0 | — | — | Ν | 0 | 0 | N | N | — | 0 | 0 | — | — | |
| C.N.M.I. Guam | _ | 0 | 0 | _ | _ | _ | 0 | 0 | _ | _ | _ | 0 | 0 | _ | _ | |
| Puerto Rico | _ | 0 | 1 | _ | _ | N | 0 | 0 | N | N | _ | 0 | 1 | 1 | 3 | |
| U.S. Virgin Islands | _ | 0 | 0 | _ | _ | _ | 0 | 0 | _ | _ | _ | 0 | 0 | | _ | |

C.N.M.I.: Commonwealth of Northern Mariana Islands. U: Unavailable. —: No reported cases. N: Not reportable. NN: Not Nationally Notifiable. Cum: Cumulative year-to-date counts. Med: Median. Max: Maximum. * Incidence data for reporting years 2009 and 2010 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 August 7, 2010, and August 8, 2009 (31st week)*

| | I | Meningoco | ccal disea All groups | | e [†] | | | Pertussis | | | | Rabi | es, animal | | |
|---|---------|-----------|--------------------------|----------|----------------|---------|----------|-----------|--------------|--------------|---------|----------|------------|-----------|------------|
| | Current | Previous | 52 weeks | Cum | Cum | Current | Previous | 52 weeks | Cum | Cum | Current | Previous | 52 weeks | Cum | Cum |
| Reporting area | week | Med | Max | 2010 | 2009 | week | Med | Max | 2010 | 2009 | week | Med | Max | 2010 | 2009 |
| United States | 2 | 16 | 43 | 472 | 614 | 210 | 297 | 1,756 | 9,412 | 9,141 | 53 | 64 | 147 | 1,720 | 3,115 |
| New England | _ | 0 | 2 | 10 | 23 | 1 | 7 | 16 | 168 | 425 | 9 | 4 | 24 | 148 | 206 |
| Connecticut Maine [§] | _ | 0 | 2 1 | 1 | 3 | 1 | 1 | 5 5 | 30 | 30 | 1 | 1 | 22 | 59 35 | 85 |
| Massachusetts | _ | 0 | 1 | 3 2 | 3 11 | 1 | 0 4 | 10 | 21 96 | 67 248 | 1 | 0 | 4 0 | | 34 |
| New Hampshire | _ | 0 | 1 | _ | 1 | _ | 0 | 3 | 6 | 54 | 5 | 0 | 2 | 8 | 24 |
| Rhode Island [§] Vermont [§] | _ | 0 | 0 1 | 4 | 4 | _ | 0 | 8 1 | 12 | 18 | 3 | 1 | 5 5 | 14 | 26 |
| | 1 | 0 1 | 4 | 4 42 | 1 68 | 25 | 0 21 | 45 | 3 614 | 8 708 | 3 19 | 11 | 5 26 | 32 420 | 37 350 |
| Mid. Atlantic New Jersey | _ | 0 | 2 | 9 | 11 | | 3 | 10 | 58 | 146 | | 0 | 20 | 420 | |
| New York (Upstate) | _ | Ő | 3 | 9 | 16 | 17 | 7 | 27 | 249 | 111 | 19 | 9 | 22 | 315 | 241 |
| New York City | 1 | 0 | 2 | 9 | 12 | | 0 | 11 | 41 | 53 | _ | 1 | 12 | 105 | 9 |
| Pennsylvania | 1 | 0 3 | 2 8 | 15 81 | 29 108 | 8 | 8 65 | 22 | 266 2,133 | 398 | 3 | 0 2 | 0 19 | 125 | 100 |
| E.N. Central Illinois | _ | 0 | o 4 | 16 | 26 | 74 | 11 | 121 26 | 334 | 1,875 440 | | 2 | 9 | 61 | 131 46 |
| Indiana | _ | 0 | 3 | 18 | 23 | _ | 8 | 20 | 271 | 212 | _ | 0 | 5 | | 24 |
| Michigan | _ | 0 | 2 | 12 | 18 | 10 | 22 | 41 | 574 | 409 | 2 | 1 | 6 | 41 | 39 |
| Ohio Wisconsin | _ | 1 0 | 2 2 | 21 14 | 26 15 | 64 | 19 4 | 46 11 | 773 181 | 701 113 | 1 | 0 | 5 0 | 23 | 22 |
| | _ | 1 | 6 | 35 | 48 | 12 | 26 | 627 | 689 | 1,428 | 5 | 5 | 18 | 157 | 238 |
| W.N. Central lowa | _ | 0 | 3 | 8 | | | 5 | 23 | 211 | 1,420 | | 0 | 2 | 7 | 230 |
| Kansas | _ | Ő | 2 | 4 | 8 | _ | 3 | 9 | 88 | 159 | _ | 1 | 4 | 41 | 56 |
| Minnesota | _ | 0 | 2 | 2 | 9 | | 0 | 601 | 80 | 309 | _ | 1 | 9 | 18 | 32 |
| Missouri Nebraska [§] | _ | 0 | 3 2 | 15 5 | 16 5 | 5 7 | 8 2 | 30 8 | 198 87 | 682 100 | 4 | 1 | 6 6 | 50 34 | 32 57 |
| North Dakota | _ | Ő | 1 | 1 | 1 | _ | 0 | 9 | 6 | 16 | _ | 0 | 7 | 7 | 4 |
| South Dakota | _ | 0 | 2 | — | 2 | — | 1 | 6 | 19 | 15 | — | 0 | 4 | _ | 34 |
| S. Atlantic | 1 | 3 | 7 | 93 | 112 | 32 | 26 | 63 | 793 | 988 | 9 | 24 | 79 | 632 | 1,371 |
| Delaware District of Columbia | _ | 0 0 | 1 0 | 1 | 2 | _ | 0 0 | 3 1 | 5 3 | 8 3 | _ | 0 | 0 | _ | _ |
| Florida | 1 | 1 | 5 | 44 | 37 | 18 | 5 | 28 | 183 | 312 | _ | 0 | 66 | 66 | 161 |
| Georgia | _ | 0 | 1 | 7 | 22 | 1 | 3 | 8 | 110 | 166 | _ | 0 | 13 | _ | 261 |
| Maryland [§] | _ | 0 | 1 | 4 | 6 20 | 1 | 2 | 8 32 | 64 | 84 129 | 8 | 7 0 | 15 | 212 | 234 302 |
| North Carolina South Carolina [§] | _ | 0 0 | 2 1 | 11 8 | 10 | 3 | 2 5 | 52 19 | 123 185 | 129 | _ | 0 | 17 0 | _ | 502 |
| Virginia [§] | _ | 0 | 2 | 16 | 10 | 5 | 4 | 15 | 98 | 111 | _ | 10 | 26 | 309 | 342 |
| West Virginia | _ | 0 | 2 | 2 | 5 | 4 | 0 | 6 | 22 | 16 | 1 | 2 | 6 | 45 | 71 |
| E.S. Central | _ | 0 | 4 | 22 | 21 | _ | 14 | 31 | 421 | 529 | 5 | 2 | 7 | 76 | 99 |
| Alabama [§] Kentucky | _ | 0 0 | 2 2 | 4 10 | 6 4 | _ | 4 4 | 13 15 | 121 144 | 207 155 | 2 2 | 0 | 4 4 | 31 13 | 33 |
| Mississippi | _ | Ő | 1 | 2 | 2 | _ | 1 | 6 | 36 | 45 | 1 | 0 | 1 | 3 | 2 |
| Tennessee§ | — | 0 | 2 | 6 | 9 | — | 3 | 10 | 120 | 122 | — | 1 | 6 | 29 | 64 |
| W.S. Central | _ | 1 | 9 | 54 | 54 | 27 | 61 | 753 | 1,640 | 1,874 | _ | 2 | 40 | 28 | 504 |
| Arkansas [§] Louisiana | _ | 0 0 | 2 4 | 5 11 | 5 10 | 2 | 4 1 | 29 5 | 80 18 | 214 117 | _ | 0 | 10 0 | 20 | 28 |
| Oklahoma | _ | 0 | 7 | 14 | 4 | 6 | 0 | 41 | 23 | 18 | _ | 0 | 15 | 8 | 7 |
| Texas [§] | _ | 0 | 7 | 24 | 35 | 19 | 51 | 681 | 1,519 | 1,525 | _ | 0 | 30 | _ | 469 |
| Mountain | — | 1 | 6 | 39 | 46 | 6 | 20 | 41 | 616 | 585 | 1 | 1 | 8 | 36 | 64 |
| Arizona Colorado | _ | 0 | 2 4 | 9 13 | 10 13 | _ | 7 3 | 14 13 | 210 105 | 127 160 | — | 0 | 5 0 | _ | _ |
| Idaho [§] | _ | 0 | 1 | 5 | 6 | 6 | 2 | 19 | 103 | 53 | 1 | 0 | 2 | 3 | 3 |
| Montana [§] | _ | 0 | 1 | 1 | 5 | _ | 1 | 8 | 32 | 16 | _ | 0 | 4 | 7 | 16 |
| Nevada [§] | _ | 0 | 1 | 7 | 4 | _ | 0 | 7 | 18 | 8 | _ | 0 | 1 | 2 | 4 |
| New Mexico [§] Utah | _ | 0 | 1 | 3 1 | 3 1 | _ | 1 | 6 10 | 37 107 | 43 157 | _ | 0 | 3 2 | 9 2 | 18 4 |
| Wyoming [§] | _ | Ő | 1 | | 4 | _ | Ő | 1 | 5 | 21 | _ | Ő | 3 | 13 | 19 |
| Pacific | _ | 3 | 16 | 96 | 134 | 33 | 41 | 288 | 2,338 | 729 | 2 | 3 | 12 | 98 | 152 |
| Alaska | — | 0 | 2 | 1 | 4 | | 0 | 6 | 17 | 29 | _ | 0 | 2 | 11 | 10 |
| California Hawaii | _ | 2 0 | 13 2 | 60 | 84 5 | 17 | 26 0 | 275 4 | 1,964 7 | 343 24 | 2 | 3 0 | 11 0 | 78 | 133 |
| Oregon | _ | 1 | 2 | 23 | 5 28 | 1 | 6 | 4 16 | 200 | 163 | _ | 0 | 2 | 9 | 9 |
| Washington | — | 0 | 7 | 12 | 13 | 15 | 4 | 25 | 150 | 170 | — | Ő | ō | _ | _ |
| American Samoa | _ | 0 | 0 | _ | — | _ | 0 | 0 | _ | — | Ν | 0 | 0 | Ν | Ν |
| C.N.M.I. | — | _ | | — | — | _ | | | — | — | — | | _ | — | — |
| Guam Puerto Rico | _ | 0 0 | 0 1 | _ | _ | _ | 0 0 | 2 0 | _ | 1 | _ | 0 1 | 0 3 | 27 | 25 |
| | | | | | | | 5 | <u> </u> | | | | | 2 | ~ / | 23 |

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

Commonwealth of Northern Mariada Islands.
 U: Unavailable. —: No reported cases. N: Not reportable. NN: Not Nationally Notifiable. Cum: Cumulative year-to-date counts. Med: Median. Max: Maximum.
 * Incidence data for reporting years 2009 and 2010 are provisional.
 [†] Data for meningococcal disease, invasive caused by serogroups A, C, Y, and W-135; serogroup B; other serogroup; and unknown serogroup are available in Table I.
 § Contains data reported through the National Electronic Disease Surveillance System (NEDSS).

| TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks endin | ng August 7, 2010, and August 8, 2009 (31st week)* |
|---|--|
|---|--|

| | | S | almonello | sis | | Shig | a toxin-pr | oducing E | . coli (STEC | :)† | Shigellosis | | | | | |
|--|----------|----------|-----------|--------------|--------------|-----------|------------|-----------|--------------|-----------|-------------|------------|-----------|-------------|--------------|--|
| | Current | Previous | 52 weeks | Cum | Cum | Current - | Previous | 52 weeks | Cum | Cum | Current | Previous 5 | 2 weeks | Cum | Cum | |
| Reporting area | week | Med | Max | 2010 | 2009 | week | Med | Max | 2010 | 2009 | week | Med | Max | 2010 | 2009 | |
| United States | 837 | 885 | 1,555 | 22,762 | 25,602 | 104 | 80 | 198 | 2,242 | 2,503 | 188 | 249 | 527 | 7,635 | 9,821 | |
| New England | _ | 29 | 300 | 1,160 | 1,543 | — | 3 | 33 | 97 | 165 | — | 5 | 36 | 156 | 198 | |
| Connecticut Maine [§] | _ | 0 2 | 284 7 | 284 62 | 430 81 | _ | 0 0 | 33 2 | 33 9 | 67 12 | _ | 0 0 | 29 2 | 29 3 | 43 2 | |
| Massachusetts | _ | 20 | 47 | 578 | 689 | _ | 2 | 6 | 32 | 51 | _ | 4 | 27 | 110 | 128 | |
| New Hampshire | _ | 3 | 9 | 105 | 204 | _ | 1 | 2 | 15 | 22 | _ | 0 | 2 | 4 | 13 | |
| Rhode Island [§] | _ | 2 | 17 | 97 | 92 | _ | 0 | 26 | 2 | _ | _ | 0 | 7 | 9 | 8 | |
| Vermont [§] | | 1 | 4 | 34 | 47 | | 0 | 2 | 6 | 13 | | 0 | 1 | 1 | 4 | |
| Mid. Atlantic | 84 | 95 | 208 | 2,780 | 3,002 | 17 | 8 | 24 | 257 | 230 | 18 | 35 | 90 | 975 | 1,872 | |
| New Jersey New York (Upstate) | 42 | 14 24 | 47 78 | 347 747 | 626 689 | 12 | 1 3 | 5 15 | 21 110 | 65 66 | 8 | 6 4 | 23 19 | 172 116 | 394 131 | |
| New York City | 7 | 25 | 46 | 687 | 688 | 12 | 1 | 4 | 30 | 38 | | 7 | 15 | 171 | 262 | |
| Pennsylvania | 35 | 29 | 67 | 999 | 999 | 5 | 2 | 12 | 96 | 61 | 10 | 18 | 63 | 516 | 1,085 | |
| E.N. Central | 45 | 82 | 202 | 2,659 | 3,148 | 10 | 11 | 29 | 331 | 451 | 17 | 26 | 235 | 1,046 | 1,850 | |
| Illinois | — | 25 | 101 | 913 | 899 | _ | 1 | 6 | 30 | 115 | _ | 9 | 228 | 583 | 403 | |
| Indiana | | 9 | 24 | 215 | 364 | — | 1 | 8 | 46 | 60 | | 1 | 5 | 22 | 49 | |
| Michigan Ohio | 4 41 | 15 24 | 34 47 | 450 804 | 597 872 | 10 | 2 2 | 16 11 | 91 88 | 79 71 | 2 15 | 4 7 | 10 31 | 129 208 | 150 883 | |
| Wisconsin | _ | 10 | 38 | 277 | 416 | | 3 | 8 | 76 | 126 | | 4 | 16 | 104 | 365 | |
| W.N. Central | 41 | 46 | 94 | 1,329 | 1,638 | 10 | 11 | 42 | 363 | 428 | 28 | 49 | 88 | 1,611 | 575 | |
| lowa | 5 | 7 | 36 | 277 | 260 | _ | 2 | 15 | 90 | 96 | 1 | 1 | 5 | 35 | 44 | |
| Kansas | — | 7 | 20 | 219 | 240 | — | 1 | 6 | 41 | 41 | — | 3 | 14 | 152 | 147 | |
| Minnesota Missouri | 26 | 7 13 | 32 37 | 178 438 | 353 354 | 9 | 1 3 | 17 29 | 31 145 | 106 83 | 26 | 0 44 | 6 75 | 14 1,383 | 48 313 | |
| Nebraska [§] | 10 | 4 | 12 | 438 | 246 | 9 | 5 1 | 29 6 | 42 | 65 58 | 20 | 44 | 4 | 23 | 17 | |
| North Dakota | | 0 | 39 | 16 | 34 | _ | 0 | 7 | | 4 | _ | Ő | 5 | | 3 | |
| South Dakota | _ | 2 | 6 | 72 | 151 | _ | 0 | 12 | 14 | 40 | _ | 0 | 2 | 4 | 3 | |
| S. Atlantic | 397 | 264 | 511 | 6,465 | 6,562 | 25 | 12 | 26 | 365 | 383 | 59 | 40 | 78 | 1,259 | 1,513 | |
| Delaware | 1 | 3 | 9 | 72 | 57 | _ | 0 | 2 | 3 | 10 | — | 3 | 10 | 36 | 58 | |
| District of Columbia Florida | 158 | 1 126 | 4 277 | 37 2,796 | 60 2,792 | 14 | 0 4 | 1 10 | 4 131 | 2 94 | 38 | 0 12 | 4 49 | 16 526 | 17 268 | |
| Georgia | 65 | 40 | 105 | 1,054 | 1,198 | | 1 | 6 | 40 | 44 | 12 | 12 | 25 | 400 | 401 | |
| Maryland [§] | 42 | 15 | 43 | 513 | 427 | 3 | 2 | 6 | 50 | 48 | 6 | 3 | 12 | 68 | 267 | |
| North Carolina | 38 | 32 | 91 | 804 | 916 | 3 | 1 | 5 | 33 | 71 | 1 | 3 | 12 | 95 | 292 | |
| South Carolina [§] Virginia [§] | 60 30 | 20 18 | 66 68 | 573 510 | 430 546 | 3 | 0 2 | 3 15 | 12 80 | 21 77 | 2 | 1 3 | 5 15 | 41 76 | 80 124 | |
| West Virginia | 30 | 3 | 17 | 106 | 136 | 2 | 0 | 5 | 12 | 16 | | 0 | 2 | 1 | 6 | |
| E.S. Central | 27 | 50 | 111 | 1,417 | 1,643 | 1 | 4 | 10 | 126 | 135 | 2 | 11 | 40 | 398 | 552 | |
| Alabama§ | _ | 14 | 40 | 326 | 456 | _ | 0 | 4 | 27 | 33 | _ | 2 | 10 | 72 | 106 | |
| Kentucky | 4 | 8 | 29 | 279 | 281 | — | 1 | 4 | 23 | 47 | 1 | 4 | 28 | 171 | 134 | |
| Mississippi Tennessee [§] | 23 | 13 14 | 42 | 392 420 | 472 434 | | 0 2 | 2 8 | 10 | 6 | 1 | 1 5 | 3 | 22 133 | 26 286 | |
| | 23 93 | 14 | 33 547 | 420 2,291 | 434 2,794 | 5 | 4 | 68 | 66 125 | 49 167 | 39 | 47 | 11 251 | 1,283 | 200 1,883 | |
| W.S. Central Arkansas [§] | 29 | 109 | 36 | 325 | 326 | 2 | 4 | 5 | 32 | 21 | 59 4 | 47 | 10 | 33 | 214 | |
| Louisiana | | 20 | 46 | 502 | 601 | _ | 0 | 3 | 7 | 15 | - | 3 | 10 | 128 | 130 | |
| Oklahoma | 27 | 10 | 46 | 292 | 321 | 1 | 0 | 27 | 13 | 16 | 3 | 6 | 96 | 166 | 160 | |
| Texas [§] | 37 | 56 | 477 | 1,172 | 1,546 | 4 | 3 | 41 | 73 | 115 | 32 | 34 | 144 | 956 | 1,379 | |
| Mountain | 22 | 49 | 133 | 1,395 | 1,752 | 8 | 9 | 26 | 285 | 322 | 5 | 14 | 39 | 377 | 706 | |
| Arizona Colorado | 5 | 18 11 | 50 33 | 446 351 | 555 374 | 4 | 1 2 | 5 18 | 44 112 | 41 111 | 4 | 8 2 | 32 6 | 201 64 | 507 55 | |
| Idaho [§] | 6 | 3 | 10 | 89 | 104 | 2 | 1 | 7 | 36 | 42 | _ | 0 | 3 | 16 | 4 | |
| Montana [§] | 2 | 2 | 7 | 60 | 75 | _ | 1 | 7 | 25 | 16 | _ | 0 | 1 | 4 | 11 | |
| Nevada [§] | 4 | 4 | 14 | 148 | 151 | — | 0 | 4 | 15 | 18 | _ | 1 | 7 | 19 | 38 | |
| New Mexico [§] Utah | 1 | 5 5 | 20 17 | 143 131 | 236 201 | _ | 1 1 | 3 11 | 17 26 | 23 64 | 1 | 1 0 | 6 4 | 61 12 | 76 14 | |
| Wyoming [§] | 4 | 1 | 9 | 27 | 56 | 2 | 0 | 2 | 10 | 7 | _ | 0 | 2 | 12 | 1 | |
| Pacific | 128 | 115 | 299 | 3,266 | 3,520 | 28 | 10 | 46 | 293 | 222 | 20 | 21 | 64 | 530 | 672 | |
| Alaska | | 1 | 5 | 47 | 43 | | 0 | 1 | 1 | 1 | | 0 | 2 | _ | 1 | |
| California | 102 | 84 | 227 | 2,439 | 2,676 | 9 | 5 | 35 | 127 | 132 | 17 | 16 | 51 | 428 | 528 | |
| Hawaii | 1 | 4 | 62 | 67 | 161 | 1 | 0 | 4 | 9 | 3 | 1 | 0 | 4 | 7 | 23 | |
| Oregon Washington | 1 25 | 8 15 | 48 61 | 331 382 | 265 375 | 1 18 | 2 3 | 11 19 | 47 109 | 26 60 | 1 2 | 1 2 | 4 22 | 35 60 | 34 86 | |
| American Samoa | | 1 | 1 | 2 | | _ | 0 | 0 | | _ | | 0 | 1 | 1 | 3 | |
| C.N.M.I. | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | | _ | |
| Guam | _ | 0 | 2 | 3 | 7 | _ | 0 | 0 | _ | _ | _ | 0 | 3 | 1 | 5 | |
| Puerto Rico | 6 | 6 | 39 | 110 | 304 | — | 0 | 0 | — | — | — | 0 | 1 | — | 9 | |
| U.S. Virgin Islands | _ | 0 | 0 | — | _ | _ | 0 | 0 | _ | _ | _ | 0 | 0 | — | _ | |

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| | | | | Spot | ted Fever Rickett | siosis (including RM | SF) [†] | | | |
|--|---------|----------|-----------|---------|-------------------|----------------------|------------------|----------|----------|----------|
| | | | Confirmed | | | | I | Probable | | |
| | Current | Previous | 52 weeks | Cum | Cum | Current | Previous 5 | 2 weeks | Cum | Cum |
| Reporting area | week | Med | Max | 2010 | 2009 | week | Med | Max | 2010 | 2009 |
| United States | 2 | 2 | 9 | 73 | 98 | 18 | 14 | 421 | 637 | 907 |
| New England | _ | 0 0 | 1 0 | _ | 1 | _ | 0 0 | 1 0 | 1 | 9 |
| Connecticut Maine [§] | _ | 0 | 0 | _ | _ | _ | 0 | 1 | 1 | 4 |
| Massachusetts | _ | 0 | 0 | _ | 1 | _ | 0 | 1 | _ | 5 |
| New Hampshire Rhode Island [§] | _ | 0 0 | 0 0 | _ | _ | _ | 0 0 | 1 0 | _ | _ |
| Vermont [§] | _ | 0 | 1 | _ | _ | _ | 0 | 0 | _ | _ |
| Mid. Atlantic | _ | 0 | 2 | 12 | 7 | _ | 1 | 6 | 30 | 64 |
| New Jersey | — | 0 | 0 | — | 2 | — | 0 | 3 | — | 44 |
| New York (Upstate) New York City | | 0 0 | 1 1 | 1 1 | | _ | 0 0 | 3 3 | 6 16 | 5 5 |
| Pennsylvania | _ | 0 | 2 | 10 | 5 | _ | 0 | 1 | 8 | 10 |
| E.N. Central | _ | 0 | 1 | 2 | 8 | _ | 0 | 5 | 35 | 61 |
| Illinois | — | 0 | 1 | 2 | 1 | — | 0 | 5 | 14 | 40 |
| Indiana Michigan | _ | 0 0 | 0 1 | _ | 3 3 | _ | 0 0 | 5 2 | 17 3 | 8 1 |
| Ohio | _ | 0 | 0 | _ | — | _ | 0 | 4 | 1 | 10 |
| Wisconsin | — | 0 | 0 | — | 1 | — | 0 | 1 | — | 2 |
| W.N. Central | _ | 0 0 | 3 0 | 7 | 10 | 3 | 2 | 23 | 156 | 185 |
| lowa Kansas | _ | 0 | 1 | 2 | 1 1 | _ | 0 0 | 1 0 | 1 | 4 |
| Minnesota | — | 0 | 1 | — | — | — | 0 | 1 | — | — |
| Missouri Nebraska [§] | | 0 0 | 1 2 | 4 1 | 4 4 | 3 | 2 0 | 22 1 | 153 1 | 178 3 |
| North Dakota | _ | 0 | 0 | _ | - | _ | 0 | 1 | 1 | |
| South Dakota | _ | 0 | 0 | _ | _ | _ | 0 | 0 | _ | _ |
| S. Atlantic | 2 | 1 | 6 | 32 | 52 | 10 | 4 | 27 | 200 | 275 |
| Delaware District of Columbia | _ | 0 0 | 1 0 | 1 | _ | _ | 0 0 | 3 1 | 10 | 10 |
| Florida | _ | 0 | 1 | 2 | _ | _ | Ő | 1 | 6 | 3 |
| Georgia Maryland [§] | — | 0 | 4 1 | 19 2 | 43 | _ | 0 | 0 | | 32 |
| North Carolina | _ | 0 0 | 3 | 6 | 2 5 | _ | 0 1 | 3 21 | 14 98 | 173 |
| South Carolina [§] | | 0 | 1 | _ | 2 | | 0 | 2 | 8 | 15 |
| Virginia [§] West Virginia | 2 | 0 0 | 1 0 | 2 | | 10 | 0 0 | 7 1 | 64 | 41 1 |
| E.S. Central | _ | 0 | 2 | 10 | 5 | 5 | 3 | 27 | 181 | 183 |
| Alabama [§] | _ | 0 | 1 | 1 | 2 | _ | 1 | 8 | 36 | 41 |
| Kentucky | — | 0 | 2 | 6 | 1 | — | 0 | 0 | 2 | 9 |
| Mississippi Tennessee [§] | _ | 0 0 | 0 2 | 3 | 2 | 5 | 0 2 | 1 19 | 143 | 133 |
| W.S. Central | _ | 0 | 3 | 1 | 5 | _ | 1 | 408 | 29 | 112 |
| Arkansas [§] | — | 0 | 1 | — | _ | — | 0 | 110 | 9 | 59 |
| Louisiana Oklahoma | _ | 0 0 | 0 2 | | 4 | _ | 0 0 | 1 287 | 1 15 | 2 37 |
| Texas [§] | _ | 0 | 1 | 1 | 1 | _ | 0 | 11 | 4 | 14 |
| Mountain | _ | 0 | 2 | 2 | 9 | _ | 0 | 3 | 4 | 18 |
| Arizona Colorado | — | 0 | 2 0 | — | 3 | — | 0 | 2 | 1 | 7 |
| Idaho [§] | _ | 0 | 0 | _ | _ | _ | 0 0 | 0 1 | 1 | _ |
| Montana [§] | — | 0 | 1 | 2 | 4 | — | 0 | 1 | 1 | 6 |
| Nevada [§] New Mexico [§] | _ | 0 0 | 0 0 | _ | | _ | 0 0 | 0 1 | 1 | 1 1 |
| Utah | _ | 0 | 0 | _ | _ | _ | 0 | 0 | _ | 1 |
| Wyoming [§] | _ | 0 | 0 | _ | 1 | _ | 0 | 0 | _ | 2 |
| Pacific | | 0 | 2 | 7 | 1 | | 0 | 1 | 1 | |
| Alaska California | N | 0 0 | 0 2 | N 6 | N 1 | N | 0 0 | 0 | N | N |
| Hawaii | N | 0 | 0 | N | N | Ν | 0 | 0 | Ν | Ν |
| Oregon Washington | _ | 0 0 | 1 0 | 1 | — | _ | 0 0 | 1 0 | 1 | — |
| Washington American Samoa | N | 0 | 0 | N | N | N | 0 | 0 | N | N |
| C.N.M.I. | — | | _ | _ | _ | — | _ | _ | — | _ |
| Guam | N | 0 | 0 | N | N | N | 0 | 0 | N | N |
| Puerto Rico U.S. Virgin Islands | N | 0 0 | 0 0 | N | N | N | 0 0 | 0 0 | N | N |
| | _ | U | 0 | _ | | _ | U | U | _ | |

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending August 7, 2010, and August 8, 2009 (31st week)*

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

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

* Incidence data for reporting years 2009 and 2010 are provisional.

† Illnesses with similar clickettsioses. Rocky Mountain spotted fever group rickettsia infections are reported as Spotted fever rickettsioses. Rocky Mountain spotted fever (RMSF) caused by *Rickettsia rickettsii*, is the most common and well-known spotted fever. [§] Contains data reported through the National Electronic Disease Surveillance System (NEDSS).

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending August 7, 2010, and August 8, 2009 (31st week)*

| | | | | Streptococ | cus pneumo | niae,† invasiv | ve disease | 5 | | | | | | | | | |
|---|---------|----------|-----------|--------------|------------|----------------|------------|----------|------------|------------|---------------------------------|------------|----------|--------------|--------------|--|--|
| | | | All ages | | | | | Age <5 | | | Syphilis, primary and secondary | | | | | | |
| | Current | Previous | 52 weeks | Cum | Cum | Current - | Previous | 52 weeks | Cum | Cum | Current - | Previous 5 | 52 weeks | Cum | Cum | | |
| Reporting area | week | Med | Max | 2010 | 2009 | week | Med | Max | 2010 | 2009 | week | Med | Max | 2010 | 2009 | | |
| United States | 50 | 180 | 486 | 9,491 | 2,001 | 11 | 50 | 156 | 1,488 | 1,510 | 81 | 238 | 413 | 6,645 | 8,338 | | |
| New England Connecticut | _ | 7 0 | 100 93 | 545 245 | 36 | _ | 1 0 | 24 22 | 70 23 | 49 | 4 | 8 1 | 22 10 | 257 46 | 194 39 | | |
| Maine [§] | _ | 1 | 6 | 80 | 9 | _ | 0 | 2 | 7 | 4 | _ | 0 | 3 | 14 | 1 | | |
| Massachusetts New Hampshire | _ | 1 0 | 5 7 | 52 59 | 2 | _ | 1 0 | 4 2 | 32 3 | 35 7 | _ | 5 0 | 12 1 | 157 12 | 134 11 | | |
| Rhode Island [§] | — | 0 | 34 | 53 | 14 | — | 0 | 2 | 2 | 1 | 4 | 0 | 3 | 26 | 9 | | |
| Vermont [§] | | 1 | 6 | 56 | 11 | — | 0 7 | 1 | 3 | 2 | | 0 | 2 | 2 | 1 092 | | |
| Mid. Atlantic New Jersey | 2 | 12 1 | 53 8 | 802 71 | 120 | _ | 1 | 48 4 | 234 37 | 194 32 | 38 4 | 33 4 | 45 12 | 1,008 135 | 1,083 144 | | |
| New York (Upstate) | — | 3 | 12 | 111 | 48 | — | 3 | 19 | 82 | 88 | 5 | 2 | 11 | 78 | 73 | | |
| New York City Pennsylvania | 2 | 3 6 | 25 22 | 292 328 | 6 66 | _ | 1 0 | 24 5 | 77 38 | 62 12 | 25 4 | 18 7 | 31 15 | 583 212 | 668 198 | | |
| E.N. Central | 10 | 25 | 98 | 1,886 | 460 | 4 | 8 | 18 | 234 | 252 | 1 | 29 | 45 | 719 | 895 | | |
| Illinois | _ | 0 | 7 | 61 | | _ | 1 | 5 | 54 | 41 | _ | 12 | 21 | 238 | 444 | | |
| Indiana Michigan | 3 | 6 7 | 23 27 | 369 448 | 180 19 | _ | 1 1 | 6 6 | 31 55 | 50 47 | _ | 3 | 13 13 | 90 131 | 89 136 | | |
| Ohio | 7 | 13 | 49 | 799 | 261 | 4 | 2 | 6 | 65 | 87 | 1 | 7 | 13 | 234 | 197 | | |
| Wisconsin | | 4 8 | 22 182 | 209 570 | 132 | _ | 1 3 | 4 12 | 29 102 | 27 124 | 1 | 1 5 | 3 12 | 26 171 | 29 184 | | |
| W.N. Central lowa | _ | 0 | 0 | 570 | | _ | 0 | 0 | 102 | | _ | 0 | 2 | 8 | 13 | | |
| Kansas | — | 1 | 7 | 68 | 46 | — | 0 | 2 | 11 | 14 | _ | 0 | 3 | 10 | 18 | | |
| Minnesota Missouri | _ | 0 2 | 179 9 | 287 77 | 31 46 | _ | 0 0 | 10 3 | 44 28 | 55 37 | 1 | 1 3 | 9 8 | 65 83 | 45 101 | | |
| Nebraska [§] | 1 | 1 | 7 | 90 | — | — | 0 | 2 | 10 | 7 | _ | 0 | 1 | 5 | 4 | | |
| North Dakota South Dakota | _ | 0 | 11 3 | 34 14 | 7 2 | _ | 0 0 | 1 2 | 2 7 | 4 7 | _ | 0 | 1 0 | _ | 3 | | |
| S. Atlantic | 15 | 40 | 143 | 2,209 | 893 | 5 | 12 | 28 | 375 | 356 | 16 | 57 | 218 | 1,624 | 1,964 | | |
| Delaware | — | 0 | 3 | 24 | 13 | — | 0 | 2 | _ | _ | _ | 0 | 2 | 4 | 22 | | |
| District of Columbia Florida | 9 | 0 18 | 4 89 | 21 1,021 | 16 529 | 5 | 0 3 | 2 18 | 7 139 | 3 131 | 3 2 | 2 19 | 8 31 | 81 561 | 112 643 | | |
| Georgia | 2 | 10 | 28 | 354 | 248 | _ | 4 | 12 | 101 | 83 | — | 14 | 167 | 339 | 440 | | |
| Maryland [§] North Carolina | 1 | 5 0 | 25 0 | 315 | 4 | _ | 1 0 | 6 0 | 35 | 57 | 2 | 6 8 | 12 31 | 157 222 | 163 325 | | |
| South Carolina [§] | 2 | 5 | 25 | 350 | — | — | 1 | 4 | 38 | 33 | 3 | 2 | 6 | 82 | 69 | | |
| Virginia [§] West Virginia | 1 | 0 1 | 4 21 | 41 83 | 83 | _ | 1 0 | 4 4 | 39 16 | 31 18 | 6 | 4 | 22 2 | 175 3 | 186 4 | | |
| E.S. Central | 4 | 16 | 50 | 845 | 197 | _ | 2 | 8 | 82 | 90 | 8 | 18 | 40 | 528 | 700 | | |
| Alabama [§] | _ | 0 | 0 | | | — | 0 | 0 | | _ | 2 | 5 | 12 | 144 | 282 | | |
| Kentucky Mississippi | 1 | 2 1 | 16 6 | 128 39 | 55 32 | _ | 0 0 | 2 2 | 10 8 | 7 17 | 4 | 2 5 | 13 17 | 79 118 | 36 124 | | |
| Tennessee§ | 3 | 11 | 44 | 678 | 110 | — | 2 | 7 | 64 | 66 | _ | 6 | 17 | 187 | 258 | | |
| W.S. Central | 13 | 15 | 90 | 1,200 | 80 | 2 | 6 | 41 | 194 | 224 | 2 | 36 | 71 | 893 | 1,708 | | |
| Arkansas [§] Louisiana | _ | 2 1 | 9 8 | 114 54 | 38 42 | _ | 0 0 | 3 3 | 10 17 | 31 17 | 2 | 4 5 | 14 23 | 97 64 | 129 512 | | |
| Oklahoma | _ | 0 | 5 | 33 | _ | _ | 1 | 5 | 33 | 36 | _ | 2 | 6 | 46 | 55 | | |
| Texas [§] | 13 2 | 10 18 | 82 83 | 999 1,228 | 81 | 2 | 3 5 | 34 12 | 134 170 | 140 200 | 2 | 26 9 | 46 20 | 686 266 | 1,012 310 | | |
| Mountain Arizona | 2 | 7 | 52 | 575 | | _ | 2 | 7 | 75 | 88 | _ | 3 | 10 | 92 | 148 | | |
| Colorado Idaho [§] | — | 6 | 20 | 359 | — | — | 1 | 4 | 46 | 29 | — | 2 | 5 | 69 | 54 | | |
| Montana [§] | _ | 0 0 | 2 2 | 10 14 | _ | _ | 0 0 | 2 1 | 5 1 | 7 | _ | 0 0 | 1 1 | 2 1 | 3 | | |
| Nevada§ | — | 1 | 4 | 53 | 31 | _ | 0 | 1 | 5 | 7 | | 1 | 10 | 58 | 58 | | |
| New Mexico [§] Utah | _ | 2 2 | 8 9 | 110 99 | 41 | _ | 0 1 | 4 4 | 14 22 | 24 44 | 2 | 0 | 4 4 | 25 19 | 28 17 | | |
| Wyoming§ | — | 0 | 1 | 8 | 9 | — | 0 | 1 | 2 | 1 | _ | 0 | 1 | _ | 2 | | |
| Pacific | 3 | 4 | 14 | 206 | 2 | — | 0 | 7 | 27 | 21 | 9 | 39 | 64 | 1,179 | 1,300 | | |
| Alaska California | 3 | 1 2 | 9 12 | 76 130 | _ | _ | 0 0 | 5 2 | 17 10 | 13 | 9 | 0 36 | 0 59 | 1,067 | 1,157 | | |
| Hawaii | _ | 0 | 1 | — | 2 | — | 0 | 1 | — | 8 | — | 0 | 3 | 20 | 22 | | |
| Oregon Washington | _ | 0 0 | 0 0 | _ | _ | _ | 0 0 | 0 0 | _ | _ | _ | 0 3 | 5 7 | 6 86 | 34 87 | | |
| American Samoa | _ | 0 | 0 | _ | _ | _ | 0 | 0 | _ | _ | _ | 0 | 0 | _ | _ | | |
| C.N.M.I. | — | _ | _ | — | — | — | _ | _ | — | — | _ | _ | _ | — | _ | | |
| Guam Puerto Rico | _ | 0 0 | 0 0 | _ | _ | _ | 0 0 | 0 0 | _ | _ | 4 | 0 3 | 0 17 | 129 | 123 | | |
| U.S. Virgin Islands | _ | 0 | 0 | _ | _ | _ | 0 | 0 | _ | _ | _ | 0 | 0 | _ | _ | | |

C.N.M.I.: Commonwealth of Northern Mariana Islands. U: Unavailable. —: No reported cases. N: Not reportable. NN: Not Nationally Notifiable. Cum: Cumulative year-to-date counts. Med: Median. Max: Maximum. * Incidence data for reporting years 2009 and 2010 are provisional.

⁺ Includes drug resistant and susceptible cases of invasive *Streptococcus pneumoniae* disease among children <5 years and among all ages. Case definition: Isolation of S. *pneumoniae* from a normally sterile body site (e.g., blood or cerebrospinal fluid). [§] Contains data reported through the National Electronic Disease Surveillance System (NEDSS).

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending August 7, 2010, and August 8, 2009 (31st week)*

| | | | | | | | | | V | /est Nile viru | us disease† | | | | | |
|---|---------|----------|--------------|--------------------|----------------|---------------|------------|----------|----------|----------------|-------------|-------------------------------|----------|----------|---------|--|
| | | Varice | lla (chicker | אסמי) [§] | | Neuroinvasive | | | | | | Nonneuroinvasive [¶] | | | | |
| | Current | Previous | 52 weeks | Cum | Cum | Current | Previous ! | 52 weeks | Cum | Cum | Current . | Previous 5 | 52 weeks | Cum | Cum | |
| Reporting area | week | Med | Max | 2010 | 2009 | week | Med | Max | 2010 | 2009 | week | Med | Max | 2010 | 2009 | |
| United States | 62 | 330 | 547 | 9,009 | 14,578 | _ | 0 | 46 | 42 | 132 | 1 | 0 | 49 | 43 | 125 | |
| New England | 1 | 16 | 36 | 417 | 684 | — | 0 | 0 | — | — | — | 0 | 0 | — | _ | |
| Connecticut Maine [§] | _ | 6 4 | 20 15 | 183 123 | 327 122 | _ | 0 | 0 0 | _ | _ | _ | 0 | 0 | _ | _ | |
| Massachusetts | _ | 0 | 1 | | 3 | _ | 0 | 0 | _ | _ | _ | 0 | 0 | _ | _ | |
| New Hampshire | _ | 2 | 8 | 82 | 139 | — | 0 | 0 | _ | — | _ | 0 | 0 | _ | _ | |
| Rhode Island [§] Vermont [§] | 1 | 1 0 | 12 10 | 17 12 | 23 70 | _ | 0 0 | 0 | _ | _ | _ | 0 | 0 | _ | _ | |
| Mid. Atlantic | 6 | 33 | 66 | 1,027 | 1,383 | _ | 0 | 2 | 3 | 1 | _ | 0 | 1 | _ | _ | |
| New Jersey | | 9 | 30 | 380 | 288 | _ | 0 | 1 | | _ | _ | 0 | 0 | _ | _ | |
| New York (Upstate) | N | 0 | 0 | Ν | Ν | — | 0 | 1 | _ | 1 | — | 0 | 1 | — | — | |
| New York City Pennsylvania | 6 | 0 22 | 0 52 | 647 | 1,095 | _ | 0 | 2 0 | 3 | _ | _ | 0 | 0 | _ | _ | |
| E.N. Central | 12 | 108 | 176 | 3,100 | 4,459 | _ | 0 | 4 | _ | 2 | _ | 0 | 3 | | | |
| Illinois | | 26 | 49 | 775 | 1,053 | _ | 0 | 3 | _ | 1 | _ | 0 | 0 | _ | _ | |
| Indiana [§] | _ | 5 | 35 | 286 | 329 | _ | 0 | 1 | _ | 1 | — | 0 | 1 | _ | _ | |
| Michigan Ohio | 1 8 | 35 28 | 62 56 | 966 862 | 1,301 1,374 | — | 0 | 1 0 | — | — | _ | 0 | 0 2 | _ | _ | |
| Wisconsin | о З | 20 | 24 | 211 | 402 | _ | 0 | 1 | _ | _ | _ | 0 | 2 | _ | _ | |
| W.N. Central | 4 | 13 | 40 | 356 | 929 | _ | 0 | 5 | 1 | 9 | 1 | 0 | 11 | 11 | 26 | |
| lowa | Ν | 0 | 0 | Ν | N | — | 0 | 0 | _ | _ | — | 0 | 1 | — | 1 | |
| Kansas [§] | _ | 4 | 18 | 99 | 385 | _ | 0 | 1 | _ | _ | _ | 0 | 1 | 2 | 4 | |
| Minnesota Missouri | 3 | 0 6 | 0 16 | 208 | 450 | _ | 0 | 1 2 | 1 | 1 | _ | 0 | 1 1 | _ | 1 | |
| Nebraska [§] | Ň | Ő | 0 | N | N | _ | Ő | 2 | _ | 3 | 1 | 0 | 6 | 3 | 13 | |
| North Dakota | | 0 | 26 | 28 | 57 | — | 0 | 0 | _ | | — | 0 | 1 | 2 | | |
| South Dakota | 1 | 0 | 7 | 21 | 37 | _ | 0 | 1 | _ | 5 | _ | 0 | 2 | 4 | 7 | |
| S. Atlantic Delaware [§] | 14 | 37 0 | 99 4 | 1,384 11 | 1,783 9 | _ | 0 0 | 4 0 | _ | 4 | _ | 0 | 2 0 | 3 | _ | |
| District of Columbia | _ | 0 | 4 | 14 | 22 | _ | Ő | 1 | _ | 2 | _ | Ő | 0 | _ | _ | |
| Florida§ | 7 | 15 | 57 | 707 | 902 | — | 0 | 1 | — | _ | — | 0 | 1 | _ | — | |
| Georgia Maryland [§] | N N | 0 0 | 0 | N N | N N | _ | 0 | 1 0 | _ | 1 | _ | 0 | 1 1 | 3 | _ | |
| North Carolina | N | 0 | 0 | N | N | _ | Ő | Ő | _ | _ | _ | 0 | 0 | _ | _ | |
| South Carolina [§] | — | 0 | 35 | 74 | 92 | — | 0 | 2 | _ | 1 | — | 0 | 0 | _ | _ | |
| Virginia [§] West Virginia | 3 4 | 11 8 | 34 26 | 302 276 | 477 281 | — | 0 | 2 0 | _ | _ | — | 0 | 0 | — | _ | |
| E.S. Central | 4 | 6 6 | 28 | 181 | 366 | _ | 0 | 6 | 1 | 19 | _ | 0 | 4 | 1 | 10 | |
| Alabama [§] | _ | 6 | 28 | 174 | 363 | _ | 0 | 0 | | | _ | 0 | 1 | 1 | 10 | |
| Kentucky | Ν | 0 | 0 | Ν | N | _ | 0 | 1 | _ | 2 | _ | 0 | 0 | _ | _ | |
| Mississippi | | 0 | 2 | 7 | 3 | _ | 0 | 5 | 1 | 15 | _ | 0 | 4 1 | _ | 9 | |
| Tennessee [§] | N | 0 | 0 | N | N | _ | 0 | 2 | _ | 2 | _ | 0 | - | _ | 1 | |
| W.S. Central Arkansas [§] | 25 1 | 60 3 | 285 32 | 1,832 117 | 3,595 361 | _ | 0 | 19 1 | 2 | 43 4 | _ | 0 | 6 0 | _ | 13 | |
| Louisiana | _ | 1 | 8 | 40 | 92 | _ | 0 | 1 | _ | 6 | _ | 0 | 2 | _ | 5 | |
| Oklahoma | N | 0 | 0 | N | N | — | 0 | 2 | _ | 2 | _ | 0 | 2 | _ | | |
| Texas [§] | 24 | 50 | 272 | 1,675 | 3,142 | _ | 0 | 16 | 2 | 31 | — | 0 | 4 | | 8 | |
| Mountain Arizona | _ | 25 0 | 48 0 | 684 | 1,301 | _ | 0 | 12 7 | 29 28 | 31 10 | _ | 0 | 17 7 | 22 15 | 48 3 | |
| Colorado§ | _ | 9 | 41 | 266 | 706 | _ | Ő | 7 | 1 | 6 | _ | 0 | 14 | 6 | 19 | |
| Idaho [§] | N | 0 | 0 | N | N | — | 0 | 3 | — | 4 | — | 0 | 5 | — | 13 | |
| Montana [§] Nevada [§] | N | 3 0 | 17 0 | 145 N | 115 N | _ | 0 0 | 1 0 | _ | 1 7 | _ | 0 | 1 0 | _ | 2 5 | |
| New Mexico [§] | | 1 | 7 | 69 | 94 | _ | 0 | 2 | _ | 2 | _ | 0 | 1 | _ | 1 | |
| Utah | — | 6 | 22 | 191 | 386 | — | 0 | 1 | _ | — | — | 0 | 0 | _ | 1 | |
| Wyoming [§] | _ | 0 | 3 | 13 | _ | — | 0 | 1 | _ | 1 | — | 0 | 2 | 1 | 4 | |
| Pacific Alaska | _ | 1 0 | 5 4 | 28 25 | 78 45 | _ | 0 | 12 0 | 6 | 23 | _ | 0 | 12 0 | 6 | 28 | |
| California | _ | 0 | 4 | 25 | 45 | _ | 0 | 8 | 6 | 14 | _ | 0 | 6 | 6 | 16 | |
| Hawaii | _ | 0 | 2 | 3 | 33 | _ | 0 | 0 | _ | _ | _ | 0 | 0 | _ | _ | |
| Oregon | N | 0 | 0 | N | N | — | 0 | 1 | — | _ | — | 0 | 4 | — | 4 | |
| Washington | N N | 0 0 | 0 0 | N N | N N | _ | 0 0 | 6 0 | _ | 9 | _ | 0 | 3 0 | — | 8 | |
| American Samoa C.N.M.I. | IN | 0 | | IN | IN | _ | | | _ | _ | _ | | | _ | _ | |
| Guam | _ | 0 | 3 | 9 | 14 | _ | 0 | 0 | _ | _ | _ | 0 | 0 | _ | _ | |
| Puerto Rico | 1 | 5 | 30 | 152 | 371 | _ | 0 | 0 | _ | - | _ | 0 | 0 | _ | _ | |
| U.S. Virgin Islands | — | 0 | 0 | _ | _ | — | 0 | 0 | _ | _ | — | 0 | 0 | — | — | |

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

U: Unavailable. —: No reported cases. N: Not reportable. NN: Not Nationally Notifiable. Cum: Cumulative year-to-date counts. Med: Median. Max: Maximum. * Incidence data for reporting years 2009 and 2010 are provisional. Data for HIV/AIDS, AIDS, and TB, when available, are displayed in Table IV, which appears quarterly.

Incidence data for reporting years 2009 and 2010 are provisional. Data for HIV/AIDs, AiDS, And 1B, when available, are displayed in Table IV, which appears quarteriy.
 [†] 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.
 [§] Contains data reported through the National Electronic Disease Surveillance System (NEDSS).
 [§] Not reportable in all states. Data from states where the condition is not reportable are excluded from this table, except starting in 2007 for the domestic arboviral diseases and influenza-

associated pediatric mortality, and in 2003 for SARS-CoV. Reporting exceptions are available at http://www.cdc.gov/ncphi/disss/nndss/phs/infdis.htm.

TABLE III. Deaths in 122 U.S. cities,* week ending August 7, 2010 (31st week)

| | | All ca | uses, by a | ge (years |) | | | | All causes, by age (years) | | | | | | |
|-----------------------------|-------------|--------|------------|-----------|------|----|---------------------------|----------------------|----------------------------|-------|-------|-------|------|-----|---------------------------|
| Reporting area | All Ages | ≥65 | 45-64 | 25–44 | 1–24 | <1 | P&I [†] Total | Reporting area | All Ages | ≥65 | 45-64 | 25–44 | 1–24 | <1 | P&I [†] Total |
| New England | 476 | 323 | 109 | 20 | 13 | 11 | 40 | S. Atlantic | 1,161 | 703 | 333 | 72 | 33 | 20 | 78 |
| Boston, MA | 131 | 80 | 37 | 5 | 5 | 4 | 17 | Atlanta, GA | 149 | 75 | 55 | 14 | 3 | 2 | 9 |
| Bridgeport, CT | 21 | 14 | 5 | 2 | — | — | 3 | Baltimore, MD | 141 | 82 | 39 | 8 | 6 | 6 | 15 |
| Cambridge, MA | 14 | 14 | | _ | — | _ | 2 | Charlotte, NC | 111 | 76 | 25 | 5 | 3 | 2 | 8 |
| Fall River, MA | 25 | 20 | 5 | — | — | — | 2 | Jacksonville, FL | 140 | 79 | 41 | 13 | 3 | 4 | 4 |
| Hartford, CT | 50 | 33 | 11 | 3 | 3 | _ | 1 | Miami, FL | 168 | 112 | 43 | 6 | 7 | _ | 8 |
| Lowell, MA | 24 | 14 | 7 | 2 | _ | 1 | | Norfolk, VA | 45 | 30 | 13 | | _ | 2 | 2 |
| Lynn, MA | 11 | 6 | 3 | _ | 2 | — | 1 | Richmond, VA | 62 | 35 | 23 | 3 | 1 | | 5 |
| New Bedford, MA | 18 | 15 | 2 | 1 | _ | _ | 1 | Savannah, GA | 45 | 24 | 11 | 7 | 2 | 1 | 4 |
| New Haven, CT | 27 | 22 | 2 | 2 | _ | 1 | 6 | St. Petersburg, FL | 52 | 33 | 12 | 3 | 4 | _ | 1 |
| Providence, RI | 48 | 32 | 14 | 1 | _ | 1 | 1 | Tampa, FL | 163 | 108 | 42 | 9 | 3 | 1 | 13 |
| Somerville, MA | 4 | 3 | 1 | _ | _ | _ | _ | Washington, D.C. | 75 | 42 | 26 | 4 | 1 | 2 | 6 |
| Springfield, MA | 27 | 15 | 11 | 1 | _ | — | 2 | Wilmington, DE | 10 | 7 | 3 | | | _ | 3 |
| Waterbury, CT | 17 | 11 | 3 | 2 | 1 | _ | _ | E.S. Central | 823 | 538 | 211 | 47 | 15 | 12 | 66 |
| Worcester, MA | 59 | 44 | 8 | 1 | 2 | 4 | 4 | Birmingham, AL | 150 | 96 | 46 | 4 | 4 | _ | 11 |
| Mid. Atlantic | 1,921 | 1,295 | 437 | 112 | 42 | 33 | 87 | Chattanooga, TN | 86 | 56 | 14 | 11 | 3 | 2 | 7 |
| Albany, NY | 44 | 29 | 12 | 1 | 2 | — | _ | Knoxville, TN | 107 | 77 | 27 | 3 | _ | _ | 16 |
| Allentown, PA | 24 | 18 | 4 | 2 | | — | 1 | Lexington, KY | 59 | 39 | 14 | 2 | 3 | 1 | 1 |
| Buffalo, NY | 72 | 47 | 18 | 6 | 1 | _ | 5 | Memphis, TN | 189 | 121 | 45 | 15 | 2 | 6 | 14 |
| Camden, NJ | 25 | 13 | 8 | 2 | 1 | 1 | — | Mobile, AL | 71 | 45 | 22 | 4 | _ | _ | 4 |
| Elizabeth, NJ | 21 | 12 | 8 | 1 | _ | | | Montgomery, AL | 22 | 13 | 7 | 1 | 1 | | 2 |
| Erie, PA | 41 | 33 | 5 | 1 | | 2 | 4 | Nashville, TN | 139 | 91 | 36 | 7 | 2 | 3 | 11 |
| Jersey City, NJ | 15 | 10 | 3 | 1 | 1 | _ | 2 | W.S. Central | 1,052 | 676 | 256 | 77 | 21 | 22 | 54 |
| New York City, NY | 998 | 690 | 220 | 62 | 17 | 8 | 44 | Austin, TX | 107 | 59 | 39 | 7 | 2 | | 9 |
| Newark, NJ | 30 | 12 | 14 | 3 | 1 | _ | 2 | Baton Rouge, LA | 79 | 40 | 17 | 13 | 7 | 2 | _ |
| Paterson, NJ | 18 | 9 | 4 | | | 5 | | Corpus Christi, TX | 65 | 45 | 15 | 4 | 1 | | 4 |
| Philadelphia, PA | 334 | 208 | 82 | 23 | 13 | 8 | 8 | Dallas, TX | 189 | 108 | 54 | 17 | 5 | 5 | 9 |
| Pittsburgh, PA [§] | 27 | 13 | 8 | 2 | _ | 4 | 3 | El Paso, TX | 67 | 53 | 12 | | 1 | 1 | 1 |
| Reading, PA | 27 | 22 | 3 | 1 | _ | 1 | 1 | Fort Worth, TX | U | U | U | U | U | U | U |
| Rochester, NY | 76 | 54 | 17 | 2 | 2 | 1 | 5 | Houston, TX | 142 | 93 | 34 | 8 | 1 | 6 | 7 |
| Schenectady, NY | 23 | 19 | 3 | 1 | | _ | 3 | Little Rock, AR | U | U | U | U | U | U | U |
| Scranton, PA | 27 | 21 | 3 | _ | 1 | 2 | | New Orleans, LA | U | U | U | U | U | U | U |
| Syracuse, NY | 55 | 42 | 10 | 2 | 1 | — | 5 | San Antonio, TX | 247 | 171 | 47 | 18 | 3 | 8 | 12 |
| Trenton, NJ | 29 | 16 | 8 | 2 | 2 | — | 1 | Shreveport, LA | 21 | 15 | 4 | 2 | _ | _ | 4 |
| Utica, NY | 18 | 15 | 3 | _ | _ | _ | 2 | Tulsa, OK | 135 | 92 | 34 | 8 | 1 | | 8 |
| Yonkers, NY | 17 | 12 | 4 | — | _ | 1 | 1 | Mountain | 1,017 | 619 | 272 | 72 | 23 | 28 | 51 |
| E.N. Central | 1,725 | 1,113 | 448 | 86 | 46 | 32 | 95 | Albuquerque, NM | 88 | 57 | 26 | 4 | _ | 1 | 10 |
| Akron, OH | 43 | 30 | 10 | 2 | _ | 1 | 3 | Boise, ID | 59 | 37 | 17 | 3 | 2 | _ | 2 |
| Canton, OH | 21 | 15 | 3 | 1 | _ | 2 | 2 | Colorado Springs, CO | 79 | 43 | 21 | 6 | 5 | 4 | 2 |
| Chicago, IL | 213 | 133 | 60 | 13 | 7 | | 12 | Denver, CO | 67 | 30 | 24 | 6 | 3 | 4 | 1 |
| Cincinnati, OH | 93 | 51 | 28 | 4 | 3 | 7 | 8 | Las Vegas, NV | 255 | 165 | 63 | 16 | 7 | 2 | 17 |
| Cleveland, OH | 226 | 142 | 72 | 6 | 2 | 4 | 7 | Ogden, UT | 25 | 14 | 9 | 2 | _ | _ | 3 |
| Columbus, OH | 129 | 80 | 33 | 7 | 4 | 5 | 5 | Phoenix, AZ | 161 | 78 | 49 | 19 | 3 | 11 | 7 |
| Dayton, OH | 125 | 78 | 31 | 9 | 3 | 4 | 15 | Pueblo, CO | 26 | 19 | 5 | 1 | _ | 1 | 1 |
| Detroit, MI | 182 | 110 | 53 | 13 | 6 | _ | 6 | Salt Lake City, UT | 129 | 90 | 26 | 8 | 1 | 4 | 4 |
| Evansville, IN | 41 | 27 | 10 | 2 | 1 | 1 | 1 | Tucson, AZ | 128 | 86 | 32 | 7 | 2 | 1 | 4 |
| Fort Wayne, IN | 70 | 46 | 20 | 2 | 2 | — | 2 | Pacific | 1,568 | 1,080 | 323 | 91 | 41 | 32 | 125 |
| Gary, IN | 10 | 6 | 2 | | 2 | | 1 | Berkeley, CA | 12 | 9 | 2 | | _ | 1 | 3 |
| Grand Rapids, MI | 36 | 21 | 10 | 3 | 1 | 1 | 6 | Fresno, CA | 117 | 81 | 26 | 6 | 2 | 2 | 8 |
| Indianapolis, IN | 168 | 113 | 38 | 8 | 7 | 2 | 6 | Glendale, CA | 31 | 26 | 4 | 1 | | | 4 |
| Lansing, MI | 42 | 29 | 7 | 4 | 2 | — | 2 | Honolulu, HI | 64 | 46 | 13 | 2 | 2 | 1 | 8 |
| Milwaukee, WI | 68 | 48 | 15 | 3 | 2 | — | 4 | Long Beach, CA | 63 | 41 | 12 | 6 | 2 | 2 | 5 |
| Peoria, IL | 45 | 31 | 10 | 3 | — | 1 | 4 | Los Angeles, CA | 228 | 140 | 67 | 13 | 4 | 4 | 16 |
| Rockford, IL | 45 | 29 | 12 | 3 | _ | 1 | 3 | Pasadena, CA | 26 | 21 | 4 | 1 | _ | _ | 3 |
| South Bend, IN | 43 | 26 | 9 | 2 | 4 | 2 | 2 | Portland, OR | 119 | 77 | 30 | 7 | 2 | 3 | 9 |
| Toledo, OH | 84 | 61 | 21 | 1 | _ | 1 | 3 | Sacramento, CA | 168 | 112 | 39 | 10 | 5 | 2 | 22 |
| Youngstown, OH | 41 | 37 | 4 | _ | _ | — | 3 | San Diego, CA | 155 | 107 | 27 | 6 | 6 | 8 | 12 |
| W.N. Central | 559 | 362 | 134 | 31 | 13 | 18 | 37 | San Francisco, CA | 111 | 79 | 23 | 6 | 3 | — | 12 |
| Des Moines, IA | 93 | 65 | 22 | 2 | 3 | 1 | 4 | San Jose, CA | 184 | 140 | 24 | 12 | 6 | 2 | 12 |
| Duluth, MN | 31 | 25 | 4 | 1 | 1 | _ | 4 | Santa Cruz, CA | 34 | 23 | 6 | 5 | — | — | 3 |
| Kansas City, KS | U | U | U | U | U | U | U | Seattle, WA | 115 | 83 | 18 | 6 | 4 | 4 | 4 |
| Kansas City, MO | 113 | 68 | 30 | 6 | 2 | 7 | 6 | Spokane, WA | 61 | 38 | 12 | 4 | 4 | 3 | 2 |
| Lincoln, NE | 33 | 31 | 1 | 1 | _ | _ | 1 | Tacoma, WA | 80 | 57 | 16 | 6 | 1 | _ | 2 |
| Minneapolis, MN | 62 | 37 | 16 | 3 | 2 | 4 | 2 | Total [¶] | 10,302 | 6,709 | 2,523 | 608 | 247 | 208 | 633 |
| Omaha, NE | 81 | 59 | 13 | 6 | 1 | 2 | 8 | | ., | , | , | | - | | |
| St. Louis, MO | 79 | 33 | 28 | 9 | 4 | 4 | 9 | 1 | | | | | | | |
| St. Paul, MN | 67 | 44 | 20 | 3 | _ | _ | 3 | 1 | | | | | | | |
| Wichita, KS | U | U | 20 U | Ŭ | U | U | U | 1 | | | | | | | |

U: Unavailable. —: No reported cases. * Mortality data in this table are voluntarily reported from 122 cities in the United States, most of which have populations of >100,000. A death is reported by the place of its occurrence and by the week that the death certificate was filed. Fetal deaths are not included.

[†] Pneumonia and influenza.

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

[¶] Total includes unknown ages.

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☆ U.S. Government Printing Office: 2010-623-026/41268 Region IV ISSN: 0149-2195