

Weekly

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### Carbon Monoxide Exposures After Hurricane Ike – Texas, September 2008

During power outages after hurricanes, survivors can be at risk for carbon monoxide (CO) poisoning if they use portable generators improperly (1). On September 13, 2008, Hurricane Ike struck the coast of Texas, leaving approximately 2.3 million households in the southeastern portion of the state without electricity (2). Six days later, 1.3 million homes were still without electrical power (2). To assess the impact of stormrelated CO exposures and to enhance prevention efforts, CDC analyzed data from five disparate surveillance sources on CO exposures reported during September 13-26 in counties of southeast Texas that were declared disaster areas by the federal government. This report describes the results of that analysis, which indicated that one data source, Texas poison centers, received reports of 54 persons with storm-related CO exposures during the surveillance period. Another data source, the Undersea and Hyperbaric Medical Society (UHMS) hyperbaric oxygen treatment database, reported that 15 persons received hyperbaric oxygen treatment for storm-related CO poisoning. Medical examiners, public health officials, and hospitals in Texas reported that seven persons died from storm-related CO poisoning. Among the data sources, the percentage of reported storm-related CO exposures caused by improper generator use ranged from 82% to 87%. These findings underscore the need for effective prevention messages during storm preparation, warnings, and response periods regarding the correct use of generators and the installation and maintenance of batterypowered CO detectors.

For this analysis, a storm-related CO exposure was defined as evidence of inhalation of CO (e.g., self-reported activation of a CO detector) that was related to the storm. Storm-related CO poisoning was defined as storm-related inhalation of CO that resulted in symptoms of CO poisoning. Only poison center calls and deaths associated with CO exposures deemed to be unintentional were included in this analysis. CDC obtained surveillance data from five different sources: 1) the National Poison Data System (NPDS); 2) the Texas Poison Center Network (TPCN), operated by the Texas Department of State Health Services (TDSHS); 3) the TDSHS disaster mortality surveillance system; 4) the UHMS hyperbaric oxygen treatment database\*; and 5) CDC's BioSense system.<sup>†</sup>

NPDS and TDSHS provided CDC with information on all storm-related CO-related calls to poison centers during the surveillance period originating from Texas counties that were declared federal disaster areas. All 61 poison centers in the United States upload call data, including demographic and symptom information, to NPDS; the six poison centers in Texas simultaneously submit similar data to TDSHS via TPCN (*3*). For each call, poison center staff members determined the number of CO-exposed or CO-poisoned persons described by the caller. Data on CO-related calls provided by NPDS and TPCN were matched to avoid duplication. However, cases

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<sup>\*</sup>Additional information available at http://www.uhms.org/cdc/tabid/418/ default.aspx.

<sup>&</sup>lt;sup>†</sup> Additional information available at http://www.cdc.gov/biosense.

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reported by poison centers could not be reconciled with cases from the other data sources because some poison center calls lacked identifying information.

In addition to providing poison center call data, TDSHS also provided CDC with information on storm-related deaths with CO exposure listed as the cause of death. Mortality data came from medical examiners, public health officials, and hospitals for deaths in persons residing in counties in the disaster area.

UHMS maintains a national online reporting system in collaboration with CDC. This system collects information on hyperbaric oxygen treatments administered for severe CO poisonings. Participating UHMS physicians enter patient demographic and clinical data for those receiving treatment for CO poisoning in their hyperbaric facilities.

Reports from BioSense, a CDC-sponsored and maintained automated surveillance system that receives data from approximately 590 civilian hospitals in the United States (4), included free-text, patient-reported chief complaint data and *International Classification of Diseases, Ninth Revision, Clinical Modification* (ICD-9-CM) diagnosis codes from emergency departments of the seven participating hospitals in southeast Texas. Visits were included if "carbon monoxide exposure" or "carbon monoxide poisoning" was listed as the chief complaint and/or ICD-9-CM code 986 was listed as either a working or a final diagnosis. For UHMS and Biosense, because no data were provided on the address of the patient, residency was determined using the location of the health-care facility.<sup>§</sup>

#### **Poison Center Calls**

Calls to poison centers regarding 54 storm-related CO exposures were reported to CDC during September 13–26 (Figure). The median age of the exposed persons was 24 years (range: 1 month–71 years), and most (64.8%) were women (Table). Headache (63%), nausea (44%), and vomiting (28%) were the most commonly reported symptoms. Twenty-seven patients were treated in a health-care facility, of whom 25 (93%) were treated and released; two (7%) were hospitalized. Generators were the source of CO exposure in 82% of cases. Most (93%) of the exposures occurred in a residential setting; four (7%) exposures occurred at a workplace.

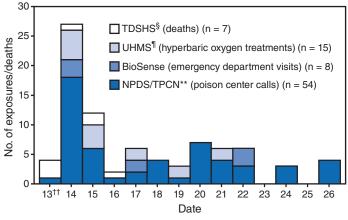
#### Hyperbaric Oxygen Treatments

UHMS data indicated that 15 persons were treated for severe, storm-related CO poisoning at one hyperbaric oxygen treatment facility in the disaster area during September 13–26 (Figure). Additional cases were identified by those persons

<sup>&</sup>lt;sup>§</sup> Chief complaints could include "carbon monoxide," "CO exp," "CO intox," "CO poisoning," "CO<sub>2</sub> poisoning," "COpoisoning," "exposicion a monoxido de carbono," "monoxido de carbono," and "O<sub>2</sub> poisoning."

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#### FIGURE. Number of storm-related carbon monoxide exposures/deaths after Hurricane Ike, by date and data source<sup>†</sup> — Texas, September 13–26, 2008



\* A storm-related CO exposure was defined as evidence of inhalation of CO (e.g., self-reported activation of a CO detector) that was related to the storm. Storm-related CO poisoning was defined as storm-related inhalation of CO that resulted in symptoms of CO poisoning. Only poison center calls and deaths associated with CO exposures deemed to be unintentional were included in this analysis.

- <sup>†</sup> Counts should not be summed because poison center cases could not be reconciled with those from other data sources.
- § Texas Department of State Health Services.
- <sup>¶</sup> Undersea and Hyperbaric Medical Society.
- \*\* NPDS and TDSHS provided CDC with information on all storm-related CO-related calls to poison centers during the surveillance period originating from Texas counties that were declared federal disaster areas.

<sup>††</sup> Hurricane Ike made landfall.

undergoing treatment but are not described in this report. Thirteen CO poisonings were caused by gasoline-powered generators, and two were caused by house fires. The median age of patients was 49 years (range: 1–86 years), and eight were women (Table). The mean carboxyhemoglobin measurement was 18% (range: 7%–40%). Three of the persons treated with hyperbaric oxygen were treated and released, seven were hospitalized, and five had an unknown outcome. Generators were the source of CO exposure in 13 cases. Thirteen patients were exposed to CO in a residential setting.

#### **Emergency Department Visits**

Among the seven participating hospitals in the disaster area, BioSense reported that eight persons made emergency department visits to four health-care facilities with a chief complaint or final diagnosis of CO poisoning (Figure). The median age of the patients was 57 years (range: 17–72 years), and five of them were female. The symptoms most frequently reported were headache (four patients) and nausea (four patients). Three of the eight patients were admitted to the hospital.

#### Deaths

During the surveillance period, TDSHS received reports from medical examiners, public health officials, and hospitals of seven deaths in the disaster area caused by storm-related CO poisoning (Figure). Among those seven decedents, the median age was 32 years (range: 4–76 years). Six of the decedents were male, and five were of Hispanic ethnicity (Table). The source of exposure for six of the deaths was a generator placed inside the home or garage. All of the poisonings occurred in residential settings, and all occurred within 4 days after Hurricane Ike.

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**Editorial Note:** Even when placed outdoors or in wellventilated areas, generators can be a dangerous source of CO. After Hurricane Katrina in 2005, 50 (98%) of the 51 reported CO-poisoning cases involved generator use (5). The analysis in this report indicates that CO exposure also was an important source of morbidity and mortality after Hurricane Ike. Most of the exposures occurred within 2 days after the storm, likely because of widespread power outages and increased generator usage (1). Improper generator use, including placement inside residential settings, was the primary cause for these reported CO exposures. These findings emphasize the need for effective, storm-related prevention messages concerning proper generator use, and underscore the need for ongoing prevention messages regarding the installation and maintenance of battery-powered CO detectors in homes.

In post-disaster situations, prevalence estimates of household generator usage have ranged from 18% to 31% (6,7), indicating that a substantial number of persons affected by a storm could be at risk for CO exposure. Previous studies have shown that, in nondisaster situations, children are disproportionately affected by CO poisonings that result in emergency department visits. Women often make up the majority of persons exposed to CO, whereas men make up the majority of deaths (8,9). Increased rates of CO toxicity in men have been attributed to engagement in high-risk activities, such as fuel-burning tool and equipment use (9). The results described in this report indicate that, of storm-related CO exposures reported to poison centers in counties of southeast Texas that were declared disaster areas, approximately one third were in persons aged <1–17 years. Additionally, most CO exposures reported by

	(poison c	NPDS/TPCN <sup>§</sup> (poison center calls) (n = 54)		UHMS <sup>1</sup> (hyperbaric oxygen treatments) (n = 15)		emergency ent visits) = 8)	TDSHS** (deaths) (n = 7)	
Characteristic	No.	(%)††	No.	(%)	No.	(%)	No.	(%)
Age of patient (yrs)								
0–17	18	(33)	3	(20)	1	(13)	1	(14)
18–44	15	(28)	3	(20)	2	(25)	5	(71)
45–64	11	(20)	3	(20)	3	(38)	1	(14)
>64	5	(9)	5	(33)	2	(25)	0	(0)
Unknown	5	(9)	1	(7)	0	(0)	0	(0)
Sex								
Men	17	(32)	7	(47)	3	(38)	6	(86)
Women	35	(65)	8	(53)	5	(63)	1	(14)
Unknown	2	(4)	0	(0)	0	(0)	0	(O)
Race								
Black	§§		5	(33)	_		0	(0)
White	_		10	(67)	_		3	(43)
Unknown	_		0	(0)	_		4	(57)
Ethnicity			C C	(0)				(01)
Hispanic	_		3	(20)	_		5	(71)
Non-Hispanic	_		12	(80)	_		2	(29)
•			12	(00)			2	(20)
Primary language			11	(70)				
English	—			(73)				
Spanish Unknown	—		2 2	(13)				
			2	(13)				
Exposure source		(22)	10	(07)				(0.0)
Generator	44	(82)	13	(87)			6	(86)
Fire	1	(2)	2	(13)	_		0	(0)
Vehicle exhaust	3	(6)	0	(0)			0	(0)
Other	1	(2)	0	(0)			0	(0)
Unknown	5	(9)	0	(0)	—		1	(14)
Exposure location								
Residential	50	(93)	13	(87)	—		7	(100)
Occupational	4	(7)	0	(0)	_		0	(0)
Other	0	(0)	2	(13)			0	(0)
Outcome								
Hospitalized	2	(4)	7	(47)	3	(38)	—	
Treated and released	25	(46)	3	(20)	5	(63)	—	
Onsite care <sup>¶¶</sup>	19	(35)	—		—		—	
Other	2	(4)	_				—	
Unknown	6	(11)	5	(33)	0	(0)	_	

# TABLE. Number and percentage of storm-related carbon monoxide exposures/deaths\* after Hurricane Ike, by data source<sup>†</sup> and selected characteristics — Texas, September 13–26, 2008

\* A storm-related CO exposure was defined as evidence of inhalation of CO (e.g., self-reported activation of a CO detector) that was related to the storm. Storm-related CO poisoning was defined as storm-related inhalation of CO that resulted in symptoms of CO poisoning. Only poison center calls and deaths associated with CO exposures deemed to be unintentional were included in this analysis.

<sup>†</sup> Counts should not be summed because poison center cases could not be reconciled with those from other data sources.

§ NPDS and TDSHS provided CDC with information on all storm-related CO-related calls to poison centers during the surveillance period originating from Texas counties that were declared federal disaster areas.

<sup>¶</sup> Undersea and Hyperbaric Medical Society.

\*\* Texas Department of State Health Services.

<sup>††</sup> Percentages might not sum to 100% because of rounding.

§§ Data not collected.

<sup>¶</sup> Person did not require transport to a medical facility for treatment.

poison centers, BioSense, and UHMS occurred among women (65%, 63%, and 53%, respectively).

These CO exposures occurred despite efforts to warn the public of CO-related hazards. TDSHS issued statewide press releases on CO poisoning and prevention within 1 day of hurricane landfall and again on day 3, and public health workers distributed CO-poisoning prevention materials at ice and water distribution locations. Public health officials in Houston distributed prevention materials to residents and evacuees returning to their homes, and during door-to-door community health assessments and, along with the Harris County Medical Examiner Office, produced a press release in both English and Spanish to warn residents about indoor generator placement. In addition, public health officials in Galveston distributed approximately 6,000 flyers containing CO-poisoning and prevention information.

The findings in this report are subject to at least three limitations. First, although CDC was able to match cases from mortality, emergency department, and hyperbaric oxygen treatment facility data sources, cases reported by poison centers could not be matched with those from other data sources because some poison center data were missing identifying information. This might have resulted in some duplication of cases. Second, estimates of nonfatal CO exposures in this report are likely underestimations of the overall number of CO exposures after Hurricane Ike; presumably, not all exposed persons contacted poison centers or sought treatment. Finally, data could be obtained for fewer than half of the patients receiving hyperbaric oxygen treatment.

CO exposure is preventable, yet it continues to pose a substantial public health problem in the wake of hurricanes. The public, especially those in the path of an impending storm, should be reminded that 1) installation of a battery-operated CO detector outside each sleeping area in the home and routine battery changes can save lives, and 2) generators should never be operated in a basement or garage and should be placed as far away from the home as possible. These surveillance results, in addition to results from previous post-disaster situations, can help in the development of public health interventions during storm preparation, warnings, and response periods.

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## Pseudo-Outbreak of Legionnaires Disease Among Patients Undergoing Bronchoscopy — Arizona, 2008

Legionnaires disease (LD) is a potentially fatal form of pneumonia acquired by inhalation of aerosolized water containing Legionella bacteria. Legionella is a common cause of health-care-associated pneumonia, particularly in settings with hematopoietic stem-cell or solid-organ transplant recipients (1). On July 25, 2008, the Arizona Department of Health Services (ADHS) notified CDC of four patients who had Legionella cultured from specimens obtained during bronchoscopies performed at a medical center in Arizona. To characterize transmission and identify the source, ADHS and CDC began an investigation on August 1. This report summarizes the results of that investigation, which determined that the patients did not have LD and that nonsterile ice used to cool saline-filled syringes for bronchoalveolar lavage was the likely source of Legionella contamination of these clinical specimens. Ice was supplied by two ice machines, which became contaminated by heavy Legionella colonization within the center's potable water supply during a 6-month period (February–July 2008).

Findings from the investigation underscore the importance of adherence to recommended infection control practices and surveillance for LD in health-care settings. Clinicians and endoscopy technicians should ensure that nonsterile items are not introduced during bronchoscopy procedures.

In May 2006, a hematopoietic stem-cell transplant patient at the medical center contracted LD, which was attributed to *Legionella* contamination of the center's potable water. After that incident was identified, the medical center began conducting routine clinical and environmental surveillance. Clinical surveillance included collection of respiratory specimens for *Legionella* culture during every bronchoscopy conducted at the center. Environmental surveillance included conducting routine cultures from samples of the center's potable water supply, in accordance with CDC guidelines (2). Specifically, semiannual testing was conducted in areas where oncology patients and hematopoietic stem-cell or solid-organ transplant recipients received care. Finally, to augment the routine chlorine disinfection of its water supply, a copper-silver ionization system was installed in August 2006.

The four apparent cases of LD occurred among patients who received bronchoscopy services at an endoscopy suite within the medical center. In the 12 months before the first patient's bronchoscopy on June 4, 2008, approximately 4,900 endoscopies had been performed in the suite, including 500 bronchoscopies. On July 21, 2008, as part of the clinical surveillance, the medical center's laboratory director reported to ADHS a cluster of four patients who had Legionella isolated from specimens obtained during bronchoscopies. ADHS notified CDC of the four apparent cases of LD on July 25, and the investigation began on August 1 (Figure). Investigators queried electronic laboratory records for Legionella-positive cultures from respiratory specimens collected at the medical center during January 2007–December 2008 to determine if additional unrecognized cases associated with bronchoscopies performed in the suite had occurred. No additional cases were identified. Investigators reviewed the medical records (i.e., demographic and clinical information, including microbiological testing, diagnostic imaging, and treatment) of the four patients to determine if they had clinical courses consistent with LD.

An environmental investigation also was conducted. Investigators reviewed test results from samples obtained during routine semiannual environmental surveillance from February and July to characterize the extent of *Legionella* contamination in the center's potable water supply. Additional environmental testing was conducted by sampling potable water to determine chlorine levels and identify sources of *Legionella* contamination where patient exposures might have occurred.

#### **Clinical and Epidemiologic Investigation**

The diagnosis of LD in the four patients was based on isolation of Legionella pneumophila from lavage specimens that had been collected as part of routine Legionella surveillance (Table 1). None of the patients had urine antigen or serologic testing for LD. All patients had undergone bronchoscopy using the same bronchoscope, and all received care at the medical center during May 31-July 31, 2008. None of the four patients had experienced fever or had a clinical course consistent with LD. Patients 1 and 3 had multiple organisms (methicillin-resistant Staphylococcus aureus, viridans group Streptococcus, or yeast) isolated from their lavage specimens, suggesting specimen contamination. Patient 2 had received empirical antimicrobial therapy for community-acquired pneumonia. Patients 1 and 3 had received levofloxacin specifically for LD; therapy was provided either because the patients had pulmonary abnormalities attributed to LD after Legionella was isolated or because a conservative therapeutic approach was elected because of the potential severity of LD, even if the disease was considered unlikely. The three hospitalized patients recovered from their underlying conditions. Patient 4 received outpatient services only and was not subsequently admitted to the center's health-care system nor did ADHS receive notification that he had received a diagnosis of LD at another health facility.

#### **Environmental Investigation**

Investigators believed bronchoscopy procedures were the most likely source of contamination and focused their investigation on bronchoscopy procedures and sterilization. In early July 2008, endoscopy technicians at the center began using cold saline flushes for bleeding control among patients undergoing bronchoalveolar lavage. One endoscopy technician reported using nonsterile ice to cool saline flushes in prefilled syringes. Ice for cooling was obtained from a primary ice machine in a nearby nursing station or from a back-up ice machine in a room used to prepare food and beverages. The ice was placed in a 16-ounce plastic tray. Although the tip of the prefilled saline syringe was placed directly into the ice bath, whether the tip was capped or uncapped could not be determined. Investigators identified no other source of nonsterile water used during bronchoscopies, or other pertinent breaches in infection control practices or bronchoscope sterilization or reprocessing.

To identify the specific contamination source, investigators collected biofilm swabs and 1-liter bulk water samples according to published procedures (3). During the investigation, environmental samples were taken from the bronchoscope, sink faucets in the endoscopy processing room, bays in the

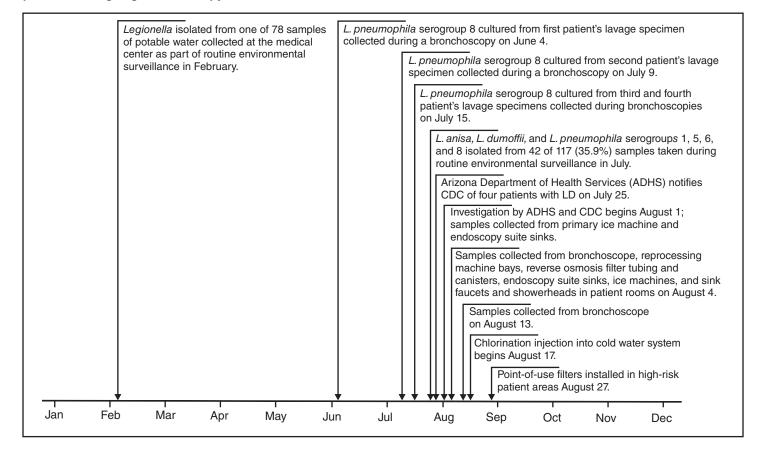


FIGURE. Timeline of events preceding and during an investigation of a pseudo-outbreak of Legionnaires disease (LD) among patients undergoing bronchoscopy at a medical center — Arizona, 2008

automatic endoscope reprocessing machine, reverse osmosis filter tubing and canisters, primary and back-up ice machines, and sink faucets and showerheads from two of the three hospitalized patients' rooms (Table 2). *Legionella* isolates from potable water samples that were routinely collected at the center in February and July of 2008, the clinical isolates from the four patients, and the environmental samples collected in August 2008 during the investigation were sent to CDC. At CDC, the *Legionella* laboratory cultured *Legionella* from the samples and analyzed the isolates, including serogrouping and sequence-based typing using seven gene fragments. Free chlorine concentrations in samples taken at distal locations in the medical center's potable water system also were measured to assess the amount of disinfectant present.

During the investigation, the review of sample results from routine environmental surveillance demonstrated that the potable water system had become heavily colonized with *Legionella* during a 6-month period, February–July 2008. *Legionella* had been isolated from one (1.3%) of 78 samples collected in February from sink faucets and showerheads in other patients' rooms. In contrast, *Legionella (L. anisa, L. dumoffii*, and *L. pneumophila* serogroups 1, 5, 6, and 8) was isolated from 42 of 117 (35.9%) potable water samples collected in July. No free chlorine was detected in the center's potable water supply during the investigation in August, indicating that disinfectant levels were inadequate to limit *Legionella* growth. *L. pneumophila* serogroup 8 was detected in both ice machines used by endoscopy staff (Table 2); serogroup 6 also was detected in the back-up machine. All four serogroup 8 isolates obtained from the four patients had sequence-based typing patterns that were identical to isolates from both ice machines. Before the investigation, *L. pneumophila* serogroup 6 also was detected in a specimen collected on July 25 by flushing sterile water through the bronchoscope that had been used for all four patients. Sequence-based typing patterns of isolates from the back-up ice machine matched the serogroup 6 bronchoscope isolate.

A series of control measures were established to prevent hospital-acquired LD, remediate contamination, and prevent subsequent *Legionella* colonization. High-risk patients, including hematopoietic stem-cell or solid-organ transplant recipients, were restricted from using potable water until point-of-use filters were installed on August 27. Chlorine injection into the cold water system was initiated on August 18,

Patient no.	Age (yrs)	Sex	Admission diagnosis	Underlying medical condition	Date of bronchoscopy	Reason for bronchoscopy	Organisms isolated	Antimicrobial therapy	Discharge diagnosis
1	50	Female	Leg fractures secondary to fall, altered level of consciousness	Chronic lung disease, pulmonary fibrosis	June 4	Hypoxia and lung infiltrate on chest computed tomography (CT) scan	<i>L. pneumophila</i> serogroup 8, MRSA,* yeast	Levofloxacin	Acute and chronic respiratory failure
2	67	Male	Lung nodule (tuberculosis vs. malignancy vs. pneumonia)	Prior tuberculosis	July 9	Lung consolidation and 15 mm nodule on CT scan	<i>L. pneumophila</i> serogroup 8	Azithromycin and ceftriaxone	Community- acquired pneumonia
3	25	Male	Leukemia, malignant lymphoma, coccidioidomycosis	Preexisting coccidiomycosis	July 15	Enlargement of lung nodule from coccidioidomycosis	L. pneumophila serogroup 8, <sup>†</sup> viridans group <i>Streptococcus</i> , <sup>†</sup> yeast	Levofloxacin	Legionellosis
4	41	Male	Pneumonia, infiltrates§	Persistent pneumonia	July 15	Lung infiltrates detected on chest radiograph	<i>L. pneumophila</i> serogroup 8 <sup>†</sup>	None	Pneumonia, infiltrates <sup>§</sup>

TABLE 1. Legionnaires disease pseudo-cases reported after isolation of *Legionella* from bronchoalveolar lavage specimens obtained during bronchoscopies at a medical center — Arizona, June–July 2008

\* Methicillin-resistant Staphylococcus aureus.

<sup>†</sup>Scant growth.

§ Outpatient visit.

and the autochlorination system was reset to reach a routine, maximum disinfectant level of 1.5–2.0 ppm, which was within Environmental Protection Agency safety standards (4.0 ppm). To eliminate potential contamination from ice, the technicians began using a sterile, plastic bag to contain ice and serve as a barrier. By mid-August, endoscopy staff members were refrigerating saline bottles and had stopped using ice during bronchoscopies. In addition, the contaminated ice machines were disassembled for cleaning, including disinfection using a chlorine flush and replacement of filters. Extensive sampling performed on August 27 indicated that control and remediation efforts were effective; no L. pneumophila was detected among 115 potable water samples, and the potable water system continues to be routinely monitored semiannually by a commercially contracted Legionella specialist. No cases of LD have been detected at the medical center since the investigation.

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Collection date	No. of samples collected	Sample location	Sample type*	Legionella species (serogroup) detected
August 1	3	Primary ice machine	Swab	Not detected
	4	Hand-washing and back-up sink faucets and aerators, reprocessing room	Swab, water	Not detected
August 4	4	Bay, automatic endoscope reprocessing machine	Swab	Not detected
	2	Bronchoscope <sup>†</sup>	Swab, water	Not detected
	4	Reverse osmosis filter tubing and canister, reprocessing room	Swab, water	Not detected
	2	Eye-wash sink faucets, reprocessing room	Swab, water	L. pneumophila (6)
	2	Main sink faucets, reprocessing room	Swab, water	L. pneumophila (10)
	5	Primary ice machine	Swab, water, ice, filter	L. pneumophila (1, 8)
	4	Back-up ice machine	Swab, water, ice	L. pneumophila (1, 6, 8)
	6	Showerheads/sink faucets, patient rooms	Swab, water	L. pneumophila (10)
August 13	5	Bronchoscope <sup>†</sup>	Swab, water	Not detected

TABLE 2. Legionella culture	results from environmenta	l sampling at a medical ce	nter — Arizona, August 2008

\* Types of samples primarily included a biofilm swab and a 1-liter bulk water sample, except as noted.

<sup>†</sup>L. pneumophila (serogroup 6) was detected in sterile water flushed through the bronchoscope and collected on July 25.

*Legionella* growth in patients 3 and 4 suggest that the source of *Legionella* was contamination of the bronchoalveolar lavage specimens, and not infection.

Widespread Legionella colonization within the medical center's potable water system was documented between February and July of 2008, and the pseudo-outbreak was ultimately attributable to this colonization because the system supplied water to the ice machines. A copper-silver ionization system, which was installed in 2006 to prevent Legionella growth in the potable water system of the medical center, might have provided false assurances for Legionella control. The investigation did not determine whether pH or water temperatures were maintained within recommended ranges for optimum system functionality, but failures of copper-silver ionization systems have been reported elsewhere (5; personal communication, Carol Genese, New Jersey Department of Health and Senior Services, 2009). Ice machines were the only sources of L. pneumophila serogroup 6 and 8 identified that also were linked epidemiologically to bronchoscopy procedures. Sequence-based typing of Legionella isolates from the machines that supplied ice matched the patients' clinical isolates and the bronchoscope isolate. Although serogroup 8 also might have been present within the bronchoscope, drying likely prevented *Legionella* detection during the investigation. The bronchoscopy suite continued services during the period between the first patient's bronchoscopy on June 4 and the subsequent patients' bronchoscopies in July, but the absence of additional cases during that period remains unexplained. The gap in cases might have resulted from inconsistent supplying and use of ice from the two contaminated ice machines among the endoscopy technicians.

This is the second published report of *Legionella* contamination in clinical specimens associated with the use of nonsterile ice during bronchoscopies. In 2007, a similar pseudo-outbreak occurred among 13 patients whose bronchoalveolar lavage specimens were contaminated with *L. pneumophila* serogroup 8 by nonsterile ice for saline cooling during bronchoscopies (6). One actual case of a lower respiratory tract infection was subsequently attributed to *Legionella* infection, demonstrating that the use of nonsterile ice during bronchoscopies creates a risk for *Legionella* infection. Reports that *Legionella* amplification occurs between temperatures of 77°F (25°C) and 108°F (42°C) might have created the perception that ice could not support *Legionella* growth. Although low temperatures inhibit *Legionella* growth, the bacteria can remain viable in ice for extended periods (7).

If sterile ice is not available for use during bronchoscopy, precautions should be taken to ensure that nonsterile ice does not directly contact equipment or patient specimens (e.g., refrigeration of the saline bottle or use of a sterile bag containing ice as a barrier). Ice machines can be reservoirs for *Legionella* contamination and should be disinfected. Health-care facilities should regularly monitor and address conditions that can promote *Legionella* colonization of the potable water supply (e.g., inadequate levels of halogen-based disinfectants). Because of the inherent risk for infection associated with reuse of medical devices (8), health-care facilities also should adhere to guidelines on proper use, reprocessing, and high-level disinfection or sterilization of medical equipment; regularly inspect and test reusable devices; and conduct surveillance for clusters of unusual infections to ensure patient safety (9,10).

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# Hepatitis Temporally Associated with an Herbal Supplement Containing Artemisinin – Washington, 2008

Artemisinins are a class of compounds that include artesunate, artemether, and artemisinin and have potent antimalarial activity. In combination with other drugs (artemisinin combination therapy), these compounds are the first-line treatment recommended by the World Health Organization for *Plasmodium falciparum* infections. Artemisinins have been available in the United States without a prescription as herbal supplements for at least 10 years; these supplements are marketed for general health maintenance and for treatment of parasitic infections and cancers. On August 27, 2008, CDC was notified of a patient who developed hepatitis after a 1-week course of an herbal supplement containing artemisinin. The patient had abdominal pain, dark urine, and laboratory results consistent with hepatitis (e.g., serum alanine aminotransferase of 898 IU/L [normal: 10-55 IU/L]). Samples of the supplement were sent to CDC and the Georgia Institute of Technology for analysis to determine the amount of artemisinin and to identify any contaminants. Analysis indicated that the supplement contained 94%–97% of the 100 mg of artemisinin stated on the packaging and the supplement contained no other common pharmaceutical active ingredients. Given the patient's clinical course and laboratory evaluation, CDC investigators concluded that the hepatitis might have been associated with ingestion of the herbal supplement containing artemisinin. More data are needed to establish any causal connection between artemisinin and hepatitis. Health-care providers should be aware of the possibility of hepatic toxicity in patients taking herbal supplements containing artemisinin.

#### **Case Report**

On August 21, 2008, a man aged 52 years in Seattle, Washington, went to his primary-care physician with symptoms of severe fatigue and dark urine. His medical history included lactose intolerance and irritable bowel syndrome but no known hepatic dysfunction or alcohol abuse. His only medication was a multivitamin. Two weeks earlier, the patient had visited a naturopathic provider for long-standing abdominal discomfort that the provider attributed to a parasitic infection after stool studies reportedly showed an "unidentifiable protozoan." The naturopathic provider had started him on a 6-week course of an herbal supplement containing 100 mg of artemisinin, two capsules orally three times a day, resulting in a dose of 7.5 mg/kg/day of artemisinin. The supplement was manufactured and sold through a company in the United States. Approximately 1 week into therapy, the patient developed worsening abdominal pain and dark urine. Three days later, on August 18, he stopped taking the supplement when his symptoms did not abate, and 3 days after that, he went to his primary-care physician.

Physical examination by the primary-care physician revealed mild scleral icterus and upper abdominal tenderness. The patient reported no fever, cough, diarrhea, or other symptoms. He reported no significant alcohol use, additional use of overthe-counter medications (e.g., acetaminophen), ill contacts, recent international travel, or exposure to unsafe food or water. Laboratory findings were consistent with hepatitis: a serum alanine aminotransferase of 898 IU/L (normal: 10–55 IU/L), aspartate aminotransferase of 280 IU/L (normal: 10–40 IU/L), bilirubin of 3.1 mg/dL (normal: 0.2–1.2 mg/dL), and alkaline phosphatase of 258 IU/L (normal: 40–150 IU/L). Five months earlier, on March 12, as part of an evaluation for inflammatory bowel disease, all laboratory values had been found within normal ranges.

Among laboratory findings on August 21, the following were within normal ranges: white blood cell count, hemoglobin, hematocrit, platelets, sodium chloride, serum creatinine, glucose, and calcium. The patient's potassium (3.4 mmol/L [normal: 3.4–5.2 mmol/L]) and carbon dioxide content (22 mmol/L [normal: 22–31 mmol/L]) were borderline normal, and blood urea nitrogen was just below the normal range (8 mg/dL [normal: 9–25 mg/dL]). Laboratory analysis for hepatitis A antibody total and antibody IgM; hepatitis B core antibody, core antibody IgM, surface antigen, and surface antibody; and hepatitis C antibody all were negative. Laboratory testing detected no acetaminophen. Examination of the patient's stool for ova and parasites was negative.

The patient was admitted to the hospital on August 21, for continued monitoring and supportive care and discharged home on hospital day 3. During the next 2 weeks, the patient's liver function test results and symptoms gradually improved and had returned to normal by September 4.

#### **Herbal Supplement Analysis**

On September 8, two samples from the patient's home supply of the herbal supplement were sent to CDC for analysis with high-performance liquid chromatography to determine whether the supplement contained 100 mg of artemisinin as stated on the packaging. Additional samples from the same bottle were sent to the Georgia Institute of Technology to identify any other clinically relevant organic contaminants by mass spectrometry. The CDC analysis indicated 94 mg and 97 mg of artemisinin in the supplement; no contaminants or additional organic active pharmaceutical ingredients were found in the other samples.

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**Editorial Note:** Artemisinin (called qinghaosu in Chinese) is found in the leaves of *Artemisia annua* (the sweet wormwood shrub) and has long been used as an herbal treatment in China. Although widely used in herbal supplements of U.S. manufacturers, until recently artemisinins were not available for medical use in the United States except from CDC under an investigational new drug protocol (*1*). In April 2009, an artemisinin combination therapy, artemether-lumefantnrine (Coartem [Novartis]), was approved by the Food and

Drug Administration (FDA) for the treatment of malaria.\* Artemisinin-containing therapies generally are considered safe, effective, and well-tolerated medications for the treatment of malaria caused by *P. falciparum* with no major side effects (2–4). Although hepatic toxicity in humans has been reported from ingestion of a wide range of herbal preparations, a search of the literature revealed no previously published reports of hepatic toxicity from an herbal supplement containing artemisinin. However, FDA's Center for Food Safety and Applied Nutrition has additional reports of adverse events involving ingestion of artemisinin-containing dietary supplement products that were not included in this review (FDA, unpublished data, 2009).

In the case described in this report, the patient's presentation, history, and clinical course suggest that his hepatitis might have resulted from ingestion of an artemisinin-containing herbal supplement over a 10-day period. An investigation did not identify any other etiology for the hepatitis, and after the patient stopped taking the herbal supplement (7.5 mg/kg/day), a gradual but complete resolution of the patient's signs and symptoms resulted. However, further study is needed to delineate any causal connection between artemisinin and hepatitis.

In a review of 108 trials of artemisinins involving 9,241 patients, only 0.9% had isolated elevated aspartate aminotransferase associated with artemisinin derivatives (3,5). Elevated liver enzymes have been observed in patients treated for malaria with artemisinins but are generally thought to have resulted from the underlying malaria rather than the artemisinins. In other countries, the commonly recommended oral therapeutic dose of artesunate is 4 mg/kg/day for 3 days when used in combination with other drugs for treatment of acute malaria. Because the chemical structures of the artemisinins (i.e., artesunate, artemether, and artemisinin) are similar and they are metabolized into the same active compound in the body (dihydroartemisinin), the therapeutic windows for these compounds are similar. Therefore, the 10-day regimen of artemisinin herbal supplement at 7.5mg/kg/day described in this report is substantially more than the dosage of artesunate routinely used for treatment of malaria.

In laboratory testing, rats given 600 mg/kg/day of artemisinin for 7 days demonstrated slight degenerative changes in the liver, heart, spleen, lung, and kidney, and dogs given 100 mg/kg/day of artemisinin for 7 days had minimal observable physiologic effects (6). The only reports of hepatic toxicity caused by artemisinin compounds in laboratory animals were in guinea pigs exposed to 16 mg/kg/day of artesunate for 7

<sup>\*</sup> Additional information available at http://www.accessdata.fda.gov/drugsatfda\_ docs/label/2009/022268lbl.pdf.

days and in rats exposed to 4 mg/kg/day of artesunate for 5 days (7,8). However, limitations exist in comparing animal ingestions of artesunate with human ingestion of artemisinin, although they are closely related compounds.

FDA regulates herbal supplements under a different standard than food, over-the-counter medications, and prescription medications. Under the Dietary Supplement Health and Education Act of 1994, the manufacturer is responsible for ensuring the safety of a dietary supplement, and FDA takes action against unsafe supplements after they reach the market. Because federal regulation of dietary supplements differs from that for pharmaceuticals, potential concerns arise about quality control, recommended indications, and unsupervised usage. Herbal supplements also can potentially interact with other medications and reduce or potentiate their effects, which can include toxicity (9). Health-care providers should be aware that patients might be taking herbal supplements containing artemisinin and consider inquiring about their use in patients being evaluated for hepatitis without a clear etiology. Adverse events or illnesses thought related to the use of artemisinincontaining dietary supplements should be reported to FDA by telephone (1-800-FDA-1088) or via the Internet (http:// www.fda.gov/safety/medwatch/howtoreport/ucm053074. htmonline). Additional information is available at http://www. fda.gov/food/dietarysupplements/alerts/ucm111110.htm.

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#### Notice to Readers

#### National Labor Day Drunk Driving Enforcement Crackdown – August 21–September 7, 2009

In 2007, a total of 12,998 persons died in motor-vehicle crashes in which at least one driver had a blood alcohol concentration of >0.08 g/dL, above the legal limit for drivers in the United States. These alcohol-impaired–driving fatalities accounted for 32% of all motor-vehicle traffic fatalities in 2007 (1).

During August 21–September 7, 2009, the national Labor Day enforcement crackdown, "Drunk Driving. Over the Limit. Under Arrest." will be conducted. Coordinated by the National Highway Traffic Safety Administration, this campaign combines high-visibility enforcement of laws against alcoholimpaired driving with heightened public awareness through advertising and publicity. A program planner, which includes sample public service announcements, media tool kits, and program guidance is available at http://www.trafficsafetymarketing.gov. Additional information regarding evidence-based strategies to reduce alcohol-impaired driving is available from CDC at http://www.thecommunityguide.org/mvoi/aid/index. html.

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#### Notice to Readers

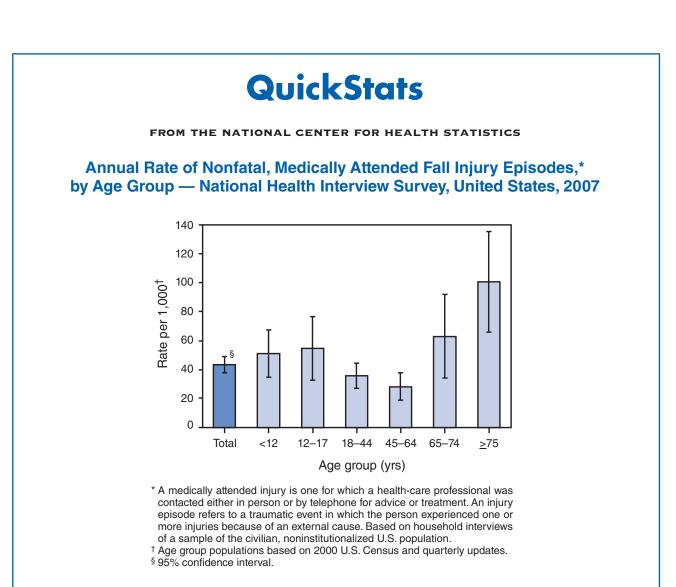
#### Final 2008 Reports of Nationally Notifiable Infectious Diseases

The tables listed on pages 859–869 summarize finalized data for 2008, as of June 30, 2009, from the National Notifiable Diseases Surveillance System (NNDSS). These data will be published in more detail in the Summary of Notifiable Diseases — United States, 2008 (1). During 2008, no cases of anthrax; diphtheria; nonneuroinvasive eastern equine encephalitis virus disease; poliomyelitis, paralytic; poliovirus infection, nonparalytic; Powassan virus disease, nonneuroinvasive; rubella, congenital syndrome; severe acute respiratory syndrome–associated coronavirus disease; smallpox, vancomycin-resistant *Staphylococcus aureus* infection; neuroinvasive and nonneuroinvasive western equine encephalitis virus disease; and yellow fever were reported in the United States; therefore, these diseases do not appear in these early release tables. Policies for reporting NNDSS data to CDC can vary by disease or reporting jurisdiction, depending on case status classification (i.e., confirmed, probable, or suspected).

The publication criteria used for the 2008 finalized tables are listed in the "Print Criteria" column of the NNDSS event code list, available at http://www.cdc.gov/ncphi/disss/nndss/phs/ files/nndss\_event\_code\_list\_january\_2008.pdf. The NNDSS website is updated annually to include the latest national surveillance case definitions approved by the Council of State and Territorial Epidemiologists for enumerating data on nationally notifiable infectious diseases. Population estimates for the states are from the National Center for Health Statistics. Estimates of the July 1, 2000– July 1, 2007, United States resident population are from the Vintage 2007 postcensal series by year, county, age, sex, race, and Hispanic ethnicity, prepared under a collaborative arrangement with the U.S. Census Bureau and available at http:// www.cdc.gov/nchs/about/major/dvs/popbridge/popbridge. htm. Population estimates for territories are 2007 estimates from the U.S. Census Bureau available at http://www.census. gov/ipc/www/idb/summaries.html.

#### Reference

<sup>1.</sup> CDC. Summary of notifiable diseases, United States, 2008. MMWR 2008;57(53)(in press).



During 2007, the annual rate of nonfatal, medically attended fall injury episodes was 43 per 1,000 population. Adults aged  $\geq$ 75 years had higher rates of these episodes compared with persons aged <65 years. Adults aged 45–64 years had lower rates of these episodes compared with children aged <18 years and adults aged  $\geq$ 65 years.

**SOURCE:** Adams PF, Barnes PM, Vickerie JL. Summary health statistics for the U.S. population: National Health Interview Survey, 2007. Vital Health Stat 2008;10(238). Available at http://www.cdc.gov/nchs/data/series/sr\_10/sr10\_238.pdf.

	Total resident			Botu	lism		
Area	population (in thousands)	AIDS <sup>†</sup>	Total	Foodborne	Infant	Other§	- Brucellosis
United States	301,621	39,202¶	145	17	109	19	80
New England	14,264	1,188	4	_	4	_	_
Connecticut	3,502	408	2	—	2	—	—
Maine	1,317 6,450	30 622		_	1	_	_
Massachusetts New Hampshire	1,316	30	1	_	1	_	_
Rhode Island	1,058	88	1	_	1	_	_
Vermont	621	10	_	_	_	_	_
Mid. Atlantic	40,417	7,042	23	_	23	_	7
New Jersey	8,686	1,627	3	—	3	—	2
New York (Upstate) New York City	11,023 8,275	1,522 2,649	1	_	1	_	1 2
Pennsylvania	12,433	1,244	18	_	18	_	2
E.N. Central	46,339	3,310	6	4	2	_	6
Illinois	12,853	1,360	1	—	1	_	1
Indiana	6,345	424	1	1	—	—	1
Michigan	10,072	651		_	_	—	1
Ohio Wisconsin	11,467 5,602	701 174	4	3	1	_	3
	,						
W.N. Central lowa	20,051 2,988	913 71	5 1	1	4 1	_	4 2
Kansas	2,776	122	_	_	_	_	_
Minnesota	5,198	207	1	_	1	—	1
Missouri	5,878	417	2	_	2	—	_
Nebraska North Dakota	1,775 640	73 12	1	1	_	_	1
South Dakota	796	11	_	_	_	_	_
S. Atlantic	57,860	13,411	13	1	12	_	14
Delaware	865	166	_		_	_	—
District of Columbia	588	767		_		—	.1
Florida	18,251 9,545	5,064 2,153	1	_	1	—	10
Georgia Maryland	9,545 5,618	2,153	5	_	5	_	1
North Carolina	9,061	1,384	1	_	1	_	1
South Carolina	4,408	723	1	_	1	—	1
Virginia West Virginia	7,712	698 67	3	-	3	—	—
West Virginia	1,812		2	1	1		
E.S. Central Alabama	17,945 4,628	1,640 402	_	—	—	—	1
Kentucky	4,020	293	_	_	_	_	_
Mississippi	2,919	356	_	_	_	_	_
Tennessee	6,157	589	—	—	—	—	1
W.S. Central	34,649	4,001	8	—	8	—	10
Arkansas	2,835	100	_	—	—	—	
Louisiana Oklahoma	4,293 3,617	903 137		_		_	1
Texas	23,904	2,861	8	_	8	Ν	9
Mountain	21,361	1,486	19	1	17	1	9
Arizona	6,339	570	4	1	2	1	3
Colorado	4,862	343	3	—	3	—	2
ldaho Montana	1,499 958	31 48	1 3	_	1 3	—	
Nevada	2,565	307		_		N	1
New Mexico	1,970	109	2	_	2	_	1
Utah	2,645	65	5	—	5	—	1
Wyoming	523	13	1		1		1
Pacific	48,735	5,539	67	10	39	18	29
Alaska California	684 36,553	27 4,818	7 55	7 3	36	16	23
Hawaii	1,283	97	_	_	_		4
Oregon	3,747	207	2	—	2	_	1
Washington	6,468	390	3	—	1	2	1
American Samoa	64		—	—	—	—	—
C.N.M.I. Guam	59 174	1 7	_	 U	 U	 U	 U
Puerto Rico	3,942	704	_	_		_	
U.S. Virgin Islands	110	12	_	_	_	_	_
				wealth of Northern Mar			

N: Not reportable. U: Unavailable. —: No reported cases. C.N.M.I.: Commonwealth of Northern Mariana Islands.

\* No cases of anthrax, diphtheria, Eastern equine encephalitis virus disease, non-neuroinvasive, poliomyelitis, paralytic, poliovirus infection, nonparalytic, Powassan virus disease, non-neuroinvasive, rubella, congenital syndrome, severe acute respiratory syndrome-associated coronavirus disease, Smallpox, Vancomycin-resistant *Staphylococcus aureus* infection, western equine encephalitis virus disease, neuroinvasive and non-neuroinvasive, and Yellow fever were reported in 2008. Data on chronic hepatitis B and hepatitis C virus infection (past or present) are not included because they are undergoing data quality review. Data on human immunodeficiency virus (HIV) infections are not included because HIV infection reporting has been implemented on different dates and using different methods than for AIDS case reporting.

<sup>†</sup> Total number of acquired immunodeficiency syndrome (AIDS) cases reported to the Division of HIV/AIDS Prevention, National Center for HIV/AIDS, Viral Hepatitis, STD, and TB Prevention (NCHHSTP), through December 31, 2008.

§ Includes cases reported as wound and unspecified botulism.

<sup>¶</sup> Includes 672 cases of AIDS in persons with unknown state or area of residence that were reported in 2008.

Area	Chancroid**	Chlamydia**	Cholera	Coccidioidomycosis	Cryptosporidiosis	Cyclosporiasis
United States	25	1,210,523	5	7,523	9,113	139
New England	4	39,246	—	1	393	10
Connecticut Maine	—	12,519 2,608	—	N N	41 46	4 N
Massachusetts	4	17,503	_	N	172	5
New Hampshire	_	2,109	_	1	60	1
Rhode Island	—	3,317	—		10	
Vermont	—	1,190	—	Ν	64	Ν
Mid. Atlantic	2	152,997	1	N	742	33 9
New Jersey New York (Upstate)	2	22,405 31,881	1	N	40 269	9
New York City	_	56,478	_	N	107	18
Pennsylvania	—	42,233	—	N	326	N
E.N. Central	1	194,359	1	44	2,163	9 4
Illinois	—	59,169	1	N	205	
Indiana Michigan	_	22,154 44,923	_	N 31	203 280	2 1
Ohio	1	47,117	_	13	689	1
Wisconsin	_	20,996	_	N	786	1
W.N. Central	_	68,198	_	3	1,002	4
lowa	—	9,372	—	N	284	—
Kansas Minnesota	_	9,208 14,351	_	N	84 236	3
Missouri	_	24,817	_	3	181	_
Nebraska	—	5,573	—	Ň	113	Ν
North Dakota	—	1,921	—	N	16	N
South Dakota	—	2,956	—	Ν	88	1
S. Atlantic Delaware	5	247,480 3,868	_	5 2	1,071 12	70
District of Columbia	_	6,924	_		12	3
Florida	_	71,017	_	N	486	58
Georgia	—	42,629	—	N	263	2
Maryland North Carolina	4	24,669 37,516	_	3 N	54 78	3 1
South Carolina	1	26,323	_	N	57	1
Virginia	_	31,218	—	N	81	2
West Virginia	—	3,316	_	N	25	—
E.S. Central	—	86,214	_		174	3
Alabama Kentucky	_	24,760 12,163	_	N	74 36	N N
Mississippi	_	21,253	_	N	17	N
Tennessee	—	28,038	—	N	47	3
W.S. Central	8	152,468	2	3	2,545	6
Arkansas	—	14,136		N	95	—
Louisiana Oklahoma	_	22,659 14,803	1	3 N	67 143	_
Texas	8	100,870	1	N	2,240	6
Mountain	2	77,774	_	4,870	580	3
Arizona	—	24,769	_	4,768	89	—
Colorado	2	19,180	—	N	112	1
Idaho Montana	_	4,194 3,101	_	N N	72 44	N N
Nevada	_	9,670	_	52	17	N
New Mexico	_	9,262	—	35	175	2
Utah	—	6,021	—	12	48	—
Wyoming	_	1,577		3	23	
Pacific Alaska	3	191,787 4,861	1	2,597 N	443 3	1
California	2	148,798	_	2,597	275	_
Hawaii	_	5,982	—	N	2	_
Oregon		10,744	1	N	64	
Washington	1	21,402	—	N	99	1
American Samoa	—	_	_	Ν	<u>N</u>	<u>N</u>
C.N.M.I. Guam	_	687	 U	U	 U	U
Puerto Rico	—	6,874	_	Ň	Ň	Ň
U.S. Virgin Islands	_	587	_	_	_	_

#### TABLE 2. (Continued) Reported cases of notifiable diseases,\* by geographic division and area — United States, 2008

N: Not reportable. U: Unavailable. —: No reported cases. C.N.M.I.: Commonwealth of Northern Mariana Islands. \*\* Totals reported to the Division of STD Prevention, NCHHSTP, as of May 8, 2009.

#### TABLE 2. (Continued) Reported cases of notifiable diseases,\* by geographic division and area - United States, 2008

				Domestic arboviral	diseases <sup>††</sup>			
		i serogroup disease	Eastern equine encephalitis virus disease	Powassan virus disease	ence	Louis bhalitis disease		st Nile disease
Area	Neuro- invasive	Nonneuro- invasive	Neuro- invasive	Neuro- invasive	Neuro- invasive	Nonneuro- invasive	Neuro- invasive	Nonneuro- invasive
United States	55	7	4	2	8	5	689	667
New England	—	_	1	_	—	—	7	3
Connecticut Maine	_	_	_	_	_	_	5	3
Massachusetts	_	—	1	—	—	—	1	_
New Hampshire Rhode Island	_	_	_	_	—		1	_
Vermont	_	_	_	_	_	_	_	_
Mid. Atlantic	5	1	_	1	_	1	50	20
New Jersey	_	_	_	_	—	—	6	4
New York (Upstate) New York City	5	1	_	1	_	_	24 8	7 7
Pennsylvania	_	_	_	_	_	1	12	2
E.N. Central	13	2	_	_	_	_	44	20
Illinois Indiana	_	_	—	—	—	—	12 3	8 1
Michigan	_	_	_	_	_	_	3 11	6
Ohio	9	_	—	_	—	_	14	1
Wisconsin	4	2	_		—		4	4
W.N. Central lowa	1	_	_	1	_	1	51 3	134 3
Kansas	_	_	_	_	_	_	14	17
Minnesota	1	_	—	1	—		2	8
Missouri Nebraska	_	_	_	_	_	1	12 7	3 40
North Dakota	_	_	_	_	_	_	2	35
South Dakota	—	—	—	—	—	—	11	28
S. Atlantic	27	1	2	_	3	—	20	20
Delaware District of Columbia	_	_	_	_	_	_	4	1 4
Florida	_	1	1	_	_	_	3	_
Georgia	2	—	_	—	—	—	4	4
Maryland North Carolina	9	_	1	_	3	_	6 2	8 1
South Carolina	_	_	_	_	_	_	_	1
Virginia Weat Virginia	2	_	_	—	_	—	- 1	1
West Virginia	14	_	_	—	_	—		
E.S. Central Alabama	8	3	1 1	_	_	_	48 11	57 7
Kentucky	1		_	—	—	—	3	_
Mississippi Tennessee	1 6	3	—		_		22 12	43 7
W.S. Central	1	_	_	—	5	2		62
Arkansas	_	_	_	_	5 4		69 7	2
Louisiana	1	—	—	_	1	2	18	31
Oklahoma Texas	_	_	_	_	_	_	4 40	5 24
Mountain	_	_	_		_	_	103	184
Arizona	_	_	_	_	_	_	62	52
Colorado	—	_	_	—	—	—	17	54
Idaho Montana	_	_	_	_	_		4	35 5
Nevada	_	_	_	_	_	_	9	7
New Mexico	—	—	—	—	—	—	5	3
Utah Wyoming	_	_	_	_	_	_	6	20 8
Pacific	_	_	_	_	_	1	297	167
Alaska	—	—	—	—	—	—	_	_
California	_	_	—	—	—	—	292	153
Hawaii Oregon	_	_	_	_	_	1	3	13
Washington	—	—	—	—	—	_	2	1
American Samoa	—	—	—	—	—	—	—	—
C.N.M.I. Guam	—	_	_	_			_	
Puerto Rico	_	_	_	_	_	_	_	_
U.S. Virgin Islands	_	_	_	_	_	_	_	_

N: Not reportable. U: Unavailable. —: No reported cases. C.N.M.I.: Commonwealth of Northern Mariana Islands. <sup>††</sup> Totals reported to the Division of Vector-Borne Infectious Diseases, National Center for Zoonotic, Vector-Borne, and Enteric Diseases (NCZVED) (ArboNET Surveillance), as of May 1, 2009.

#### TABLE 2. (Continued) Reported cases of notifiable diseases,\* by geographic division and area — United States, 2008

		Ehrlichiosi	s/Anaplasmosis			
Area	Ehrlichia chaffeensis	Ehrlichia ewingii	Anaplasma phagocytophilum	Undetermined	Giardiasis	Gonorrhea**
United States	957	9	1,009	132	18,908	336,742
New England	42	_	197	1	1,660	5,470
Connecticut	2	—	45	_	334	2,801
Maine	1	_	17	_	188	96
Massachusetts New Hampshire	21 7	_	85 14		678 160	2,129 100
Rhode Island	11	_	36	1	90	307
Vermont	—	—	—	—	210	37
Mid. Atlantic	123	1	303	10	3,532	33,477
New Jersey	54	_	45	3	520	5,298
New York (Upstate)	61 5		239 17	3	1,282 851	6,615 10,493
New York City Pennsylvania	3	_	2	4	879	11,071
E.N. Central	58	_	205	31	2,743	69,397
Illinois	28	_	203	3	705	20,674
Indiana	4	_	_	_	N	8,769
Michigan	3	—		—	611	17,064
Ohio	11 12	_	1 201	28	904 523	16,803
Wisconsin						6,087
W.N. Central lowa	212 N	6 N	281 N	69 N	2,106 326	17,003 1,700
Kansas		IN	N		326	2,274
Minnesota	14	1	278	43	769	3,037
Missouri	195	5	1	26	468	8,014
Nebraska	3	N	1	N	209	1,460
North Dakota South Dakota	<u>N</u>	N	N 1	<u>N</u>	36 136	143 375
S. Atlantic	207	1	15	5	3,119	86,462
Delaware	19	1	4	5	42	1,045
District of Columbia	Ň	Ň	Ν	Ν	72	2,656
Florida	10	—	2	_	1,391	23,326
Georgia	19 61	_	1 4		691 284	16,272
Maryland North Carolina	34	_	2	4	204 N	6,666 15,972
South Carolina	1	_	_	_	136	9,442
Virginia	63	_	2	—	432	10,337
West Virginia	_	—	_	_	71	746
E.S. Central	86	_		14	506	30,562
Alabama Kentucky	9 13	_	N	<u>N</u>	281 N	9,740 4,548
Mississippi		_	_	_	N	7,494
Tennessee	64	_	_	14	225	8,780
W.S. Central	229	1	8	_	473	51,353
Arkansas	87	—	N	Ν	143	4,514
Louisiana	114	1	7	_	150 180	9,455
Oklahoma Texas	28	_	1		N	5,185 32,199
Mountain	=0			2	1,661	11,691
Arizona	_	_	_	2	142	3,449
Colorado	N	N	N	N	564	3,757
Idaho	N	N	N	N	211	187
Montana Nevada	N N	N N	N N	N N	93 121	122 2,172
New Mexico	Ň	N	N	Ň	107	1,403
Utah	—	—	—	—	374	477
Wyoming	—	_	—	—	49	124
Pacific	<u> </u>			<u> </u>	3,108	31,327
Alaska California	<u>N</u>	<u>N</u>	N N	N N	108 2,017	578 25,787
Hawaii	N	N	N	N	42	610
Oregon	_	_	_	_	455	1,225
Washington	Ν	N	Ν	Ν	486	3,127
American Samoa	Ν	Ν	Ν	Ν	_	_
C.N.M.I.	—	_	_	_		
Guam Puerto Rico	U N	U N	U N	U N	U 227	109 273
U.S. Virgin Islands	N	N	N	N		120

N: Not reportable.

U: Unavailable. —: No

-: No reported cases. C.N.M.I.: Commonwealth of Northern Mariana Islands.

	ŀ	laemophilus inf	luenzae, invasive d	isease			Hemolytic
	All ages,		Age <5 yrs		Hansen disease	Hantavirus pulmonary	uremic syndrome,
Area	serotypes	Serotype b	Nonserotype b	Unknown serotype	(leprosy)	syndrome	postdiarrheal
United States	2,886	30	244	163	80	18	330
New England	196 54	1	10 4	2	8 3	N	15 5
Connecticut Maine	21	_	4 2	_	N N		о 1
Massachusetts	83	1	3	1	5	—	6
New Hampshire Rhode Island	12 17	_	1	1	_	_	1
Vermont	9	—	_	—	Ν	—	2
Mid. Atlantic	554	2	16	38	9	_	15
New Jersey New York (Upstate)	98 171	2	15	10 2	1 N	_	3 7
New York City	90	_	_	9	8	_	5
Pennsylvania	195	—	1	17	—	_	N
E.N. Central Illinois	483 157	8	35	30 16	3 1	_	28 3
Indiana	93	2	6	5	_	_	1
Michigan	31	2	6	_	_	_	6
Ohio Wisconsin	135 67	2 2	11 12	9	2	_	7 11
W.N. Central	211	5	5	21	4	2	48
Iowa	2	_	—	_	1	1	16
Kansas Minnesota	20 71	5	5	2	1	_	3 11
Missouri	72	_	_	15	1	_	13
Nebraska	30	—	_	2	N	1	1
North Dakota South Dakota	16	_	_	_	N 1	1	1 3
S. Atlantic	714	4	77	22	11		36
Delaware	8 8	_	_	2	_	—	_
District of Columbia Florida	0 191	1	22	2	10	_	5
Georgia	149	_	14	10	Ν	_	19
Maryland North Carolina	97 81	1	12 11	2	_	_	1 7
South Carolina	62		8	3	1	—	2
Virginia West Virginia	92 26	1	8 2	3	N	_	_2
E.S. Central	151	2	7	11	_		25
Alabama	25	1	2	_		N	5
Kentucky Mississippi	10 14	1	1	1	_		<u>N</u>
Tennessee	102	_	4	10	_	_	20
W.S. Central	132	2	11	4	3	2	69
Arkansas Louisiana	15 13	_	3 1	1 3	2	2	5 1
Oklahoma	93	_	7	_	1	<u> </u>	51
Texas	11	2	_	—	—	—	12
Mountain Arizona	297 107	5 3	49 23	16 3	4	12 1	32 6
Colorado	60	_	6	2	1	6	6
Idaho Montana	12 5	_	3 1	3 2	—	2	
Nevada	16	_	1	_	_	_	N
New Mexico	50	1	3	6	1	2	6
Utah Wyoming	43 4	1	12	_	2	1	10
Pacific	148	1	34	19	38	2	62
Alaska	21	_	_	8	_	N	N
California Hawaii	46 22	1	32	6 1	20 18	_	46 1
Oregon	57	—	_	4	N	—	13
Washington	2	—	2	_	N	2	2
American Samoa C.N.M.I.	_	_	_	_	1	<u>N</u>	N
Guam	<del></del>	U	U	U	U	U	U
Puerto Rico U.S. Virgin Islands	1 N	—	—	—	—	Ν	Ν
0.3. Virgin Islands	N		_			_	_

#### TABLE 2. (Continued) Reported cases of notifiable diseases,\* by geographic division and area — United States, 2008

N: Not reportable.

U: Unavailable. —: No reported cases.

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

#### TABLE 2. (Continued) Reported cases of notifiable diseases,\* by geographic division and area - United States, 2008

	Нер	atitis, viral	, acute	Influenza- associated				Lyme disease <sup>®</sup>	ๆ	
Area	A	В	с	pediatric mortality <sup>§§</sup>	Legionellosis	Listeriosis	Total	Confirmed	Probable	Malaria
United States New England Connecticut Maine Massachusetts New Hampshire	2,585 128 26 18 58 12 12	4,033 81 30 15 21 8 4	877 37 19 3 13 N 1	90 9 2 1 4 1	3,181 231 47 11 91 30 47	759 63 16 5 30 6 5	35,198 11,601 3,896 908 4,582 1,601 210	28,921 9,205 2,738 780 3,960 1,211 186	6,277 2,396 1,158 128 622 390 24	1,255 61 14 33 5 3
Rhode Island Vermont Mid. Atlantic New Jersey New York (Upstate) New York City Pennsylvania	2 333 86 66 113 68	448 118 73 100 157	1 131 61 43 	1 13 1 3 5 4	5 1,061 150 360 143 408	1 168 34 48 30 56	404 15,097 3,485 6,986 808 3,818	330 12,773 3,214 5,203 538 3,818	24 74 2,324 271 1,783 270 	5 337 65 42 188 42
E.N. Central Illinois Indiana Michigan Ohio Wisconsin	335 112 20 119 51 33	536 184 67 149 118 18	195 10 13 129 40 3	12 6 1 1 1 3	667 121 60 179 268 39	104 28 10 20 29 17	2,321 108 42 92 45 2,034	1,759 108 42 76 40 1,493	562 — 16 5 541	152 77 5 18 31 21
W.N. Central lowa Kansas Minnesota Missouri Nebraska North Dakota South Dakota	255 109 15 49 35 41 2 4	107 24 9 25 38 9 2 	27 1 22 2 2 	5 2 3 	145 21 25 70 21 3 3 3	31 1 6 8 11 4 - 1	1,438 109 16 1,282 6 12 10 3	1,172 85 16 1,046 6 8 8 3	266 24 236 4 2	72 12 9 29 14 8 —
S. Atlantic Delaware District of Columbia Florida Georgia Maryland North Carolina South Carolina Virginia West Virginia	393 7 U 146 57 44 63 19 51 6	981 U 344 187 85 81 71 130 83	150 U 32 16 22 46 4 8 22	13 	508 13 16 148 43 143 37 12 66 30	147 2 50 26 17 25 7 17 3	4,331 772 74 88 35 2,218 47 29 933 135	3,732 772 71 72 35 1,746 16 14 886 120	599 	303 3 7 65 57 80 31 9 49 2
<b>E.S. Central</b> Alabama Kentucky Mississippi Tennessee	81 12 30 7 32	409 109 101 50 149	109 13 <u>68</u>  28	7 1 4 2	119 18 58 1 42	29 4 7 4 14	46 9 5 1 31	19 6 5 1 7	27 3  24	27 5 6 1 15
<b>W.S. Central</b> Arkansas Louisiana Oklahoma Texas	294 10 12 13 259	852 67 94 129 562	89 1 9 20 59	12 1 2 9	117 14 11 11 81	60 5 11 7 37	158 — 3 2 153	109 — 3 1 105	49 — 1 48	97 1 4 5 87
Mountain Arizona Colorado Idaho Montana Nevada New Mexico Utah Wyoming	219 118 36 17 1 13 18 13 3	202 80 33 12 2 43 12 14 6	62  14 3 6 22 5 12 	9 2 — 2 1 2	100 26 14 3 4 13 11 29 —	28 8 1 1 5 2 2	65 8 3 9 17 12 8 5 3	32 2 5 6 9 4 3 1	33 6 1 4 11 3 4 2 2	36 15 5 3 
Pacific Alaska California Hawaii Oregon Washington	547 5 446 20 25 51	417 10 303 7 41 56	77  29  23 25	10 1 	233 3 185 8 18 18 19	129 3 88 3 6 29	141 6 74 N 38 23	120 6 74 — 18 22	21  20 1	170 6 125 3 4 32
American Samoa C.N.M.I. Guam Puerto Rico U.S. Virgin Islands	— U 27 —	U 50	U 	 	N U —	N U —	N U N N			U 2

N: Not reportable. U: Unavailable. —: No reported cases. C.N.M.I.: Commonwealth of Northern Mariana Islands. §§ Totals reported to the Division of Influenza, National Center for Immunization and Respiratory Diseases (NCIRD), as of December 31, 2008. 11 National Surveillance Case Definition revised in 2008; probable cases not previously reported.

				Meningococcal disease				
Area	Total	Measles Indigenous	Imported***	All serogroups	Serogroup A, C, Y, and W-135	Serogroup B	Other serogroup	Serogroup unknown
United States		-			-			
New England	140 2	115 1	25 1	1,172 38	330 15	188 20	38	616 3
Connecticut	_	_	_	1	1	_	_	_
Maine	2	1	1	6 24	3 8	3 14	_	2
Massachusetts New Hampshire		_		24 5	o 1	3	_	2
Rhode Island	—	—	—	2	2	—	_	—
Vermont			_				_	
Mid. Atlantic New Jersey	32 1	23	9 1	128 17	27	12	_	89 17
New York (Upstate)	2	_	2	33	21	11	_	1
New York City Pennsylvania	28 1	22 1	6	28 50	6	1	_	28 43
E.N. Central	42	40	2	211	64	32	3	112
Illinois	32	32	—	88	_	_	_	88
Indiana Michigan	4	4	_	27 35	18 15	8 4	1	1 15
Ohio	_	_	_	40	23	11	1	5
Wisconsin	6	4	2	21	8	9	1	3
W.N. Central lowa	1	1	_	105 19	39 12	23 6	2	41 1
Kansas	_	_	_	8	1	_		7
Minnesota Missouri	1	1	_	30 26	13 8	13	1	3 18
Nebraska	_	—	_	13	4	3	1	5
North Dakota South Dakota	_	_	_	6 3	1	1	_	6 1
S. Atlantic	4	1	3	157	64	43	10	40
Delaware	_	_	—	2	_	_	_	2
District of Columbia Florida	1	1	1	51	24	 16	2	9
Georgia	1	_	1	18	6	10	_	2
Maryland North Carolina	_	_	_	19 16	8 6	3 2	3 2	5 6
South Carolina	_	_	_	22	6	10	3	3
Virginia West Virginia	1	_	1	24 5	9 5	2	_	13
E.S. Central	_	—	—	55	11	7	 10	27
Alabama	_	_	_	10	2	2	4	2
Kentucky Mississippi	_	_	_	10 12	7	1	4	10
Tennessee	_	_	_	23	2	4	2	15
W.S. Central	3	2	1	131	58	28	9	36
Arkansas Louisiana	2 1	2	1	16 26	6 9	2 4	1	7 12
Oklahoma	_	_	—	19	9	4	6	_
Texas				70	34	18	1	17
Mountain Arizona	15 14	14 13	1 1	60 9	36 6	10 2	3	11 1
Colorado	—		<u> </u>	16	12	4	—	_
Idaho Montana	_	_	_	6 4	1	1	_	4 3
Nevada	_	_	_	7	3	1	1	2
New Mexico Utah	1	1	_	8 8	7 6	1	1	_
Wyoming	_	_	_	2	_	1	_	1
Pacific	41	33	8	287	16	13	1	257
Alaska California	 17	13	4	8 204	_	_	_	8 204
Hawaii	4	1	3	5	_	2	_	3
Oregon Washington	1 19	 19	1	39 31	16	 11	1	39 3
American Samoa			_					_
C.N.M.I.			<del></del>					
Guam Puerto Rico	U	U	U	U 3	<u> </u>	U	U	U 3
U.S. Virgin Islands	_	_	—	_	—	_	_	_

#### TABLE 2. (Continued) Reported cases of notifiable diseases,\* by geographic division and area — United States, 2008

N: Not reportable. U: Unavailable. —: No reported cases. C.N.M.I.: Commo \*\*\* Imported cases include only those directly related to importation from other countries. C.N.M.I.: Commonwealth of Northern Mariana Islands.

#### TABLE 2. (Continued) Reported cases of notifiable diseases,\* by geographic division and area — United States, 2008

		Novel					Q Fever		Rab	ies
Area	Mumps	influenza A virus infections	Pertussis	Plague	Psittacosis	Total	Acute	Chronic	Animal	Human
United States	454	2	13,278	3	8	120	106	14	4,196	2
New England	18	_	1,052	1	2	_	_		433	_
Connecticut	_	—	55	1	N	—			202	—
Maine	5	—	49	—	_	—	_	_	64	—
Massachusetts New Hampshire	7 5		800 49	_	1	_	N	N	58	_
Rhode Island		_	87	_	1	_			34	_
Vermont	1	_	12	_	_	_	N	Ν	75	_
Mid. Atlantic	71	_	1,311	_	1	17	15	2	944	_
New Jersey	13	—	246	_	1	2	2	_	—	—
New York (Upstate)	19	—	456	—	—	9	7	2	500	—
New York City Pennsylvania	18 21		114 495		_	6	6	_	19 425	_
		_		_	—					_
E.N. Central Illinois	151 91	_	2,252 628	_	_	7	6	1	256 104	_
Indiana	2	_	270	_	_	1	_	1	104	_
Michigan	22	_	317	_	_	2	2	_	78	_
Ohio	23	_	845	_	_	1	1	—	64	_
Wisconsin	13	—	192	—	—	3	3	—	N	—
W.N. Central	50	1	2,327	—	—	15	15		323	1
lowa	24	—	257	—	—	_	N	N	29	—
Kansas Minnesota	2 9		106 1,034	_	_	2 5	2 5	_	68 70	_
Missouri	8	_	561	_	_	5	5	_	64	1
Nebraska	4	_	277	_	_	2	2	_	34	_
North Dakota	2		25	—	—				34	—
South Dakota	1	1	67	_	—	1	1	_	24	_
S. Atlantic	49	—	1,068	—	3	9	7	2	1,650	—
Delaware District of Columbia	1 2	_	18 7	_	—	1	1	_	_	_
Florida	16	_	314	_	2	1	1	_	138	_
Georgia	3	_	115	_	_	2	2		386	_
Maryland	11	_	164	_	_	1	1	—	420	_
North Carolina	6	—	94	—	_	2	2		N	—
South Carolina Virginia	9		147 198	_	1	2	_	2	620	_
West Virginia	1	_	11	_	_		_		86	_
E.S. Central	7		473		_	3	3		181	
Alabama	5	_	69	N	_	2	2	_		_
Kentucky	_	—	183	—	—	1	1		45	—
Mississippi	_	—	105	_	—	—	_	_	7	—
Tennessee	2	—	116	_	_	—		—	129	_
W.S. Central	27	1	2,438	—	—	26	22	4	94	—
Arkansas Louisiana	5 1	_	197 95	_	_	2	_2	_	49	_
Oklahoma	1	_	100	_	_	_	N	N	43	_
Texas	20	1	2,046	_	N	24	20	4	2	_
Mountain	26	_	885	2	_	19	16	3	108	_
Arizona	5	—	218	1	—	4	3	ĩ	N	—
Colorado	8	—	161	—	—	5	5			—
Idaho Montana	2 1	_	40 84	_	_	1	1	_	11 13	_
Nevada	6	_	28			2	2	_	13	_
New Mexico	_	_	94	1	_	3	3	_	30	_
Utah	4	_	242	—	_	3	1	2	14	—
Wyoming	—	_	18	—	_	—	—	—	28	—
Pacific	55	_	1,472	—	2	24	22	2	207	1
Alaska	5	—	277		1		10		15	-
California Hawaii	31 4	_	534 20		1	20 3	18 3	2	179	1
Oregon	4		181		1	1	1	_	13	_
Washington	14	_	460	_	_	_	_	_		_
American Samoa	25	_	_	_	Ν	_	_	Ν	Ν	Ν
C.N.M.I.	_	_	_	_	_	_	_	_	_	_
Guam	U	U	U	U	U	_	U	U	U	U
Puerto Rico	3	_	_	_	N	_	_		59 N	_
U.S. Virgin Islands	—	_	_	_	_	_	—	—	N	_

N: Not reportable.

U: Unavailable. —: N

-: No reported cases. C.N.M.I.: Commonwealth of Northern Mariana Islands.

TABLE 2. (Continued)	Beported cases of notifiable disea	ses,* by geographic division and area	- United States, 2008

					5 1	Shiga		Streptococcal	0
Area	Rocky I Total	Mountain spot	ed fever <sup>†††</sup>	- Rubella	Salmonellosis	toxin-producing E. Coli (STEC)§§§	Shigellosis	disease, invasive, group A	Streptococcal toxic-shock syndrome
United States	2,563	190	2,367	16	51,040	5,309	22,625	5,674	157
New England	2,000		7	2	2,244	264	243	397	23
Connecticut	—	_	_	1	491	47	40	118	21
Maine Massachusetts	1 2	_	1 2	1	159 1,227	26 117	20 160	28 176	N 1
New Hampshire	1	_	1		155	34	6	30	
Rhode Island	3	_	3	_	115 97	10 30	12 5	29 16	1
Vermont Mid. Atlantic	154	5	149	4	5,827	476	э 2,572	1,097	23
New Jersey	85	3	82	4	1,297	138	925	191	23
New York (Upstate)	43	1	42	_	1,491	187	596	347	18
New York City Pennsylvania	11 15	1	10 15	1 3	1,276 1,763	58 93	738 313	207 352	1
E.N. Central	150	9	141	2	5,252	876	4,339	1,018	61
Illinois	110	3	107	_	1,522	135	990	279	36
Indiana Michigan	6 3	6	3	_	652 960	96 219	607 257	150 186	10 1
Ohio	31	_	31	_	1,366	204	1,923	262	13
Wisconsin	_	—	—	2	752	222	562	141	1
W.N. Central	439	22	417	1	2,878	837	953	401	10
lowa Kansas	8	1	7	_	425 467	208 52	214 67	41	_
Minnesota				—	748	191	311	185	6
Missouri Nebraska	407 20	12 7	395 13	_	764 243	153 150	227 16	96 44	2
North Dakota	1	1		1	79	30	42	12	
South Dakota	3	1	2	—	152	53	76	23	—
S. Atlantic	961	109	852	3	12,837	844	3,248	1,177	19
Delaware District of Columbia	33 6	1 3	32 3	_	148 62	15 6	12 21	11 15	2
Florida	19	1	18	3	5,312	146	801	275	N
Georgia Maryland	78 92	78 8		_	2,302 884	88 128	1,103 138	273 198	N
North Carolina	511	10	501	_	1,570	142	275	136	6
South Carolina	57	7	50	_	1,185	46	554	78	_
Virginia West Virginia	155 10	1	154 10	_	1,165 209	241 32	310 34	150 41	11
E.S. Central	338	13	321	_	3,533	286	1,959	197	4
Alabama	93	2	91	—	1,013	65	427	N	N
Kentucky Mississippi	1 11	1	— 11	_	485 1,087	100 5	264 296	46 N	4 N
Tennessee	233	10	219	_	948	116	972	151	_
W.S. Central	465	17	448	_	8,401	535	6,127	598	_
Arkansas Louisiana	129 6	2 2	127 4	_	797 1,115	59 9	585 640	11 19	—
Oklahoma	268	10	258	_	906	135	237	142	N
Texas	62	3	59	—	5,583	332	4,665	426	—
Mountain	46	12	32	—	3,425	635	1,261	606	17
Arizona Colorado	17 1	11	6 1	_	1,154 718	69 204	650 150	204 150	1
Idaho	1	—	1	—	200	149	14	16	
Montana Nevada	3 3	1	3 2	_	130 241	38 19	8 228	N 13	N 3
New Mexico	4		4	_	521	52	161	148	—
Utah	7	_	6 9	—	377	91 13	42	66 9	13
Wyoming Pacific	10 3	3	Э	4	84 6,643	556	8 1,923	183	
Alaska	N N	3	_	1	58	556	1,923	41	_
California	_	—	—	3	5,034	280	1,665	N	Ν
Hawaii Oregon	N 3	3	_	_	269 436	13 68	46 95	142 N	N
Washington	_	_	—	—	846	189	116	Ň	N
American Samoa	Ν	_	_	1	3	_	1	30	Ν
C.N.M.I. Guam	U	_	_	U	U	U	 U	U	U
Puerto Rico	N	_	_	_	847	_	31	Ň	Ň
U.S. Virgin Islands	N		_	_	_			—	

N: Not reportable. U: Unavailable. —: No reported cases. C.N.M.I.: Commonwealth of Northern Mariana Islands. <sup>+++</sup> Revision of National Surveillance Case Definition distinguishing between confirmed and probable cases. Total count includes six unknown case status reports. <sup>§§§</sup> Includes *E-coli* O157:H7; shiga toxin-positive, serogroup non-O157; and shiga toxin positive, not serogrouped.

#### TABLE 2. (Continued) Reported cases of notifiable diseases,\* by geographic division and area — United States, 2008

	pneu invasive	ococcus moniae, e disease,	Streptococcus pneumoniae, invasive disease,		Syphilis**				
Area	All ages	esistant Age <5 yrs	nondrug-resistant age <5 yrs	All stages <sup>1111</sup>	Congenital (age <1 yr)	Primary and secondary	Tetanus	Toxic-shock syndrome	Trichinellosis
United States	3,448	532	1,998	46,277	431	13,500	19	71	39
New England	135	19	105	793	2	309	_	3	_
Connecticut	70	7	15	173	2	34	_	N	_
Maine	18	2	3	27	_	10	_	N	_
Massachusetts New Hampshire	_	_	66 11	479 41		216 20	_	1 2	_
Rhode Island	31	8	10	55	_	18	_		_
Vermont	16	2	_	18	_	11	_	_	_
Mid. Atlantic	315	33	277	7,426	35	1,715	4	8	3
New Jersey			70	1,009	4	226	_	_	1
New York (Upstate)	78	10	116	778	5	146	—	3	1
New York City Pennsylvania	127 110	6 17	91 N	4,737 902	18 8	1,071 272	4	5	1
E.N. Central	660	85	354	3,412	34	1,320	1	20	1
Illinois	N	N	98	1,565	20	554	_	4	1
Indiana	242	29	44	351	_	140	_	2	_
Michigan	23	2	90	546	10	210	1	10	_
Ohio	395	54	67	763	3	351 65	—	4	—
Wisconsin			55	187	1		_		
W.N. Central lowa	368	44	124	1,053 75	2	402 16	2	10 1	2
Kansas	79	6	Ν	125	_	30	_	1	_
Minnesota	185	32	51	265	—	116	1	4	1
Missouri	93	3	39	542	2	224		2	—
Nebraska North Dakota	2		9 12	36 4		15	1	1	1
South Dakota	9	3	12	6	_	1	_	1	- -
S. Atlantic	1,378	254	375	11,178	68	3,162	2	1	3
Delaware	3		_	59	_	16	_	<u> </u>	_
District of Columbia	N	N	N	370		146			
Florida	792	161	70	4,585	17	1,044	2	N	1
Georgia Maryland	462 7	79 1	106 62	2,833 1,088	11 23	914 378	_	1 N	N 1
North Carolina	Ń	Ň	Ň	998	10	287	_	_	_
South Carolina	—		72	412	2	98	—	_	—
Virginia	N	N	52	789	4	266	_	_	1
West Virginia	114	13	13	44	1	13	—	_	_
E.S. Central Alabama	350 N	61 N	96 N	3,424 1,187	23 12	1,139 449	_	9 1	_
Kentucky	80	11	N	218	1	93	_	2	N
Mississippi	44	14	12	736	_	184	_	N	_
Tennessee	226	36	84	1,283	10	413	—	6	—
W.S. Central	108	16	348	9,125	162	2,404	4	1	
Arkansas	23 85	5	17	508	9	206	1	1	N
Louisiana Oklahoma	85 N	11 N	17 76	2,024 257	23 3	707 86		N	_
Texas	_	_	238	6,336	127	1,405	3	N	_
Mountain	132	18	270	2,345	43	608	2	9	_
Arizona	_	—	117	1,394	30	317	_	1	_
Colorado			62	352	—	128	_	4	—
ldaho Montana	N 1	N	6 N	26 10	_	7 7	1	2 N	_
Nevada	55	6	6	325	9	77	_	2	_
New Mexico	—	_	40	189	4	44	—	_	—
Utah	73	12	37	40	—	25	—	—	—
Wyoming	3	_	2	9	_	3	_		_
Pacific Alaska	2	2	49 29	7,521 9	62	2,441	4	10 N	30
California	N	N	N	6,909	62	2,204	4	10	30
Hawaii	2	2	20	68	_	29	_	Ň	_
Oregon	N	N	N	97	_	26	_	N	_
Washington	N	N	N	438	_	181	—	N	
American Samoa	N	N	N	_	_	_	_	N	<u>N</u>
C.N.M.I. Guam	U	U	 U	45	_	6	U	U	 U
Puerto Rico	_	_	N	797	8	167	3	Ň	Ň
U.S. Virgin Islands			N	1	—		_	_	

N: Not reportable. U: Unavailable. —: No reported cases. C.N.M.I.: Commonwealth of Northern Mariana Islands.

Includes the following categories: primary, secondary, latent (including neurosyphilis, early latent, late latent, late with clinical manifestations other than neurosyphilis, and unknown latent), and congenital syphilis.

#### TABLE 2. (Continued) Reported cases of notifiable diseases,\* by geographic division and area — United States, 2008

			Typhoid	Vancomycin- intermediate Staphylococcus	Var	icella	
Area	Tuberculosis****	Tularemia	fever	aureus	Morbidity	Mortality	Vibriosis
United States	12,904	123	449	63	30,386	2	588
New England	429	19	23	9	1,729	_	19
Connecticut	98	_	3	2	857	_	14
Maine	9	—	—	—	269	—	3
Massachusetts	261	19	16	7		—	_
New Hampshire Rhode Island	19 36		2 1	N	280	_	_2
Vermont	6	_	1	_	323	_	_
Vid. Atlantic	2,009	3	124	22	2,409	2	22
New Jersey	422	2	31	N	2,409 N	N	17
New York (Upstate)	305	<u> </u>	12	6	Ň	1	Ň
New York City	895	1	57	16	_	1	5
Pennsylvania	387	—	24	—	2,409	—	N
E.N. Central	1,056	2	44	11	7,805	_	30
Illinois	469	1	18	2	1,489	—	11
Indiana	118	—	1	N		—	5
Michigan	188		9	6	3,053	_	N
Ohio Wisconsin	213 68	1	8 8	3	2,403 860	_	9 5
W.N. Central	476 49	45	25 6	4	1,418	N	8 N
lowa Kansas	49 57	2	6 2	N	N 481	<u>N</u>	N
Minnesota	211	2	7	3			8
Missouri	107	21	2	ĩ	774	_	Ň
Nebraska	33	7	3	—	N	Ν	N
North Dakota	3	3	3	—	108	—	N
South Dakota	16	10	2	—	55	_	N
S. Atlantic	2,630	5	78	7	4,863	—	205
Delaware District of Oslumbia	23	—	4		47	_	4
District of Columbia Florida	54 954	—	 18	N 3	24 1,735	—	2 94
Georgia	954 478	_	9	3 1	1,735 N	N	94 18
Maryland	278	1	17	Ň	Ň		33
North Carolina	335	3	6	3	N	Ν	13
South Carolina	188	—	4	—	886	—	12
Virginia	292	1	19	—	1,489	_	29
West Virginia	28	—	1	—	682	—	N
E.S. Central	677	4	7	2	1,127	—	42
Alabama	176	_	4	N	1,113		23
Kentucky	101 118	2	_	N 2	N	N	2 7
Mississippi Tennessee	282	2	3	<u> </u>	14 N	<u>N</u>	10
W.S. Central	1,911	18	39	2	8,688		63
Arkansas	83	11	4	<u> </u>	777	_	N
Louisiana	227	—		_	72	_	
Oklahoma	100	7	3	_	N	Ν	6
Texas	1,501	—	32	2	7,839	—	57
Mountain	544	17	10	3	2,203	_	24
Arizona	227	—	3	2	_	—	14
Colorado	103	2	4	N	874		8
Idaho Montana	11	2		N	N	N	N
Montana Nevada	9 102	2	1	<u>N</u>	336 N	N	N N
New Mexico	60	2 1	1	N	219	IN	2
Utah	27	8	1	1	763	_	
Wyoming	5	2	_	_	11	_	_
Pacific	3,172	10	99	3	144	_	175
Alaska	50		1	Ň	76	Ν	1
California	2,695	2	75	N	—	_	104
Hawaii	124		7	3	68		30
Oregon	75	4	1	N	N	N	11
Washington	228	4	15	N	N	N	29
American Samoa	3	—	6	Ν	N	N	N
C.N.M.I.	34				U	1	
Guam Puerto Rico	90 95	U	U	U	600	N	U N
PLIATO BICO							

N: Not reportable. U: Unavailable. -: No reported cases. C.N.M.I.: Commonwealth C.N.M.I.: Commonwealth of Northern Mariana Islands.

titt Totals reported to the Division of Viral Diseases, National Center for Immunization and Respiratory Diseases (NCIRD), as of June 30, 2009.

# TABLE I. Provisional cases of infrequently reported notifiable diseases (<1,000 cases reported during the preceding year) — United States, week ending August 8, 2009 (31st week)\*

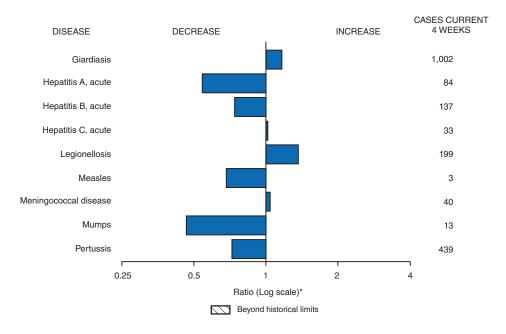
	Current	Cum	5-year weekly		Total c for pr	evious	years		States reporting cases
Disease	week	2009	average†	2008	2007	2006	2005	2004	during current week (No.)
Anthrax	_	_	_	_	1	1	_	_	
Botulism:									
foodborne	—	11	0	17	32	20	19	16	
infant	1	29 14	2 1	109	85 27	97	85 31	87	CA(1)
other (wound and unspecified) Brucellosis	3	57	3	19 80	131	48 121	120	30 114	CA (1) CA (3)
Chancroid	1	23	0	25	23	33	17	30	WA (1)
Cholera	_	2	õ	5	7	9	8	6	
Cyclosporiasis§	_	79	5	139	93	137	543	160	
Diphtheria	_	_	_	_	_	_	_	_	
Domestic arboviral diseases <sup>§,¶</sup> :									
California serogroup	—	2	5	62	55	67	80	112	
eastern equine	_	1	1	4	4	8	21	6	
Powassan	_		0	2	7	1	1	1	
St. Louis	_	5	1	13	9	10	13	12	
western equine Ehrlichiosis/Anaplasmosis <sup>§</sup> ,**:	_	_	_	_	_	_	_	_	
Ehrlichia chaffeensis	12	350	27	1,137	828	578	506	338	NY (1), OH (1), MO (2), MD (2), TN (5), AR (1)
Ehrlichia ewingii	1	2	1	9	020	576	500		MO (1)
Anaplasma phagocytophilum	17	260	26	1,026	834	646	786	537	NY (16), OH (1)
undetermined	1	73	6	180	337	231	112	59	MO (1)
Haemophilus influenzae, <sup>††</sup>									
invasive disease (age <5 yrs):									
serotype b	—	13	0	30	22	29	9	19	
nonserotype b	_	128	3	244	199	175	135	135	· · · · · · · · · · · · · · · · · · ·
unknown serotype	2	137	4	163	180	179	217	177	NY (1), FL (1)
Hansen disease§	_	36 6	2	80	101	66	87	105	
Hantavirus pulmonary syndrome§ Hemolytic uremic syndrome, postdiarrheal§	6	0 111	1 7	18 330	32 292	40 288	26 221	24 200	CT (1), OH (3), MN (1), CA (1)
Hepatitis C viral, acute	6	972	16	878	292 845	200 766	652	720	NY (2), MO (1), MD (1), CO (1), CA (1)
HIV infection, pediatric (age <13 years)§§	_		3			/ 00	380	436	
nfluenza-associated pediatric mortality <sup>§</sup> , <sup>¶¶</sup>	3	102	Ő	90	77	43	45		MS (1), AZ (1), UT (1)
Listeriosis	7	349	21	759	808	884	896	753	NY (1), MN (1), FL (1), WA (1), CA (3)
Measles***	_	46	0	140	43	55	66	37	
Meningococcal disease, invasive <sup>†††</sup> :									
A, C, Y, and W-135	3	177	4	330	325	318	297	_	NC (2), TX (1)
serogroup B	_	100	2	188	167	193	156		
other serogroup	3	18 289	0 8	38	35	32 651	27 765	_	
unknown serogroup Mumps	3	289 206	8 14	616 454	550	6,584	314	258	ND (1), CA (2) MO (1), CO (1), CA (1)
Novel influenza A virus infections		200 §§§	0	434	800 4	0,564 N	514 N	258 N	MO(1), CO(1), CA(1)
Plague	_	4	0	3	7	17	8	3	
Poliomyelitis, paralytic	_	_	_	_	_		1	_	
Polio virus infection, nonparalytic§	_	_		_	_	N	N	Ν	
Psittacosis§	_	7	0	8	12	21	16	12	
Q fever total <sup>§</sup> , <sup>¶¶¶</sup> :	1	47	3	124	171	169	136	70	
acute	—	40	1	110	_	_	_	_	
chronic	1	7	0	14				—	MI (1)
Rabies, human	_	1	0	2	1	3	2	7	
	_	3	0	16	12	11	11	10	
Rubella, congenital syndrome SARS-CoV <sup>§,1†††</sup>	_	1	_	_	_	1	1	_	
Smallpox <sup>§</sup>	_	_	_	_	_	_	_	_	
Streptococcal toxic-shock syndrome <sup>§</sup>	4	95	1	157	132	125	129	132	CT (2), OH (1), MN (1)
Syphilis, congenital (age <1 yr)		105	8	434	430	349	329	353	
Tetanus	_	6	1	19	28	41	27	34	
Toxic-shock syndrome (staphylococcal)§	_	48	2	71	92	101	90	95	
Trichinellosis	1	12	0	39	5	15	16	5	CO (1)
Fularemia	4	39	5	123	137	95	154	134	NE (1), FL (1), OK (2)
Typhoid fever	5	196	8	449	434	353	324	322	FL (2), WA (1), CA (2)
Vancomycin-intermediate Staphylococcus aureus	1	43	0	63	37	6	2		NY (1)
Vancomycin-resistant Staphylococcus aureus§		_		492	2 549	1 N	3 N	1 N	
Vibriosis (noncholera Vibrio species infections)§	10	204							MN (1), VA (1), GA (1), FL (1), CA (5), HI (1)

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 8, 2009 (31st week)\*

- -: No reported cases. N: Not reportable. Cum: Cumulative year-to-date counts.
- \* Incidence data for reporting year 2008 and 2009 are provisional, whereas data for 2004, 2005, 2006, and 2007 are finalized.
- <sup>†</sup> Calculated by summing the incidence counts for the current week, the 2 weeks preceding the current week, and the 2 weeks following the current week, for a total of 5 preceding years. The total sum of incident cases is then divided by 25 weeks. Additional information is available at http://www.cdc.gov/epo/dphsi/phs/files/5yearweeklyaverage.pdf.
  <sup>§</sup> Not reportable in all states. Data from states where the condition is not reportable are excluded from this table, except starting in 2007 for the domestic arboviral diseases and the state of the domestic arboviral diseases arbover domestic arbover of the domestic arbover of
- influenza-associated pediatric mortality, and in 2003 for SARS-CoV. Reporting exceptions are available at http://www.cdc.gov/epo/dphsi/phs/infdis.htm. <sup>1</sup> Includes both neuroinvasive and nonneuroinvasive. Updated weekly from reports to the Division of Vector-Borne Infectious Diseases, National Center for Zoonotic, Vector-Borne, and Enteric Diseases (ArboNET Surveillance). Data for West Nile virus are available in Table II.
- \*\* The names of the reporting categories changed in 2008 as a result of revisions to the case definitions. Cases reported prior to 2008 were reported in the categories: Ehrlichiosis, human monocytic (analogous to *E. chaffeensis*); Ehrlichiosis, human granulocytic (analogous to *Anaplasma phagocytophilum*), and Ehrlichiosis, unspecified, or other agent (which included cases unable to be clearly placed in other categories, as well as possible cases of *E. ewingii*).
- <sup>++</sup> Data for *H. influenzae* (all ages, all serotypes) are available in Table II.
- <sup>§§</sup> 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.
- 11 Updated weekly from reports to the Influenza Division, National Center for Immunization and Respiratory Diseases. One hundred and one influenza-associated pediatric deaths occurring during the 2008–09 influenza season have been reported.
- \*\*\* No measles cases were reported for the current week.
- <sup>+++</sup> Data for meningococcal disease (all serogroups) are available in Table II.
- §§§ CDC discontinued reporting of individual confirmed and probable cases of novel influenza A (H1N1) viruses infections on July 24, 2009. CDC will report the total number of novel influenza A (H1N1) hospitalizations and deaths weekly on the CDC H1N1 influenza website (http://www.cdc.gov/h1n1flu).
- In 2008, Q fever acute and chronic reporting categories were recognized as a result of revisions to the Q fever case definition. Prior to that time, case counts were not differentiated with respect to acute and chronic Q fever cases.
- \*\*\*\* No rubella cases were reported for the current week.
- titt Updated weekly from reports to the Division of Viral and Rickettsial Diseases, National Center for Zoonotic, Vector Borne, and Enteric Diseases.

# FIGURE I. Selected notifiable disease reports, United States, comparison of provisional 4-week totals August 8, 2009, with historical data



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

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

(31st week)*															
			Chlamydi	a†				idiodomy	cosis/			71	otosporidi	osis	
		Prev 52 w					Prev 52 w			-		Prev 52 w		-	-
Reporting area	Current week	Med	Max	Cum 2009	Cum 2008	Current week	Med	Max	Cum 2009	Cum 2008	Current week	Med	Max	Cum 2009	Cum 2008
United States	13,102	22,674	25,706	656,489	697,499	62	149	474	6,033	3,934	116	126	482	3,372	3,076
New England Connecticut Maine <sup>§</sup> Massachusetts New Hampshire Rhode Island <sup>§</sup> Vermont <sup>§</sup>	690 133 	770 228 48 323 37 61 21	1,655 1,306 72 945 63 244 53	23,753 6,873 1,416 11,644 980 2,148 692	21,485 6,008 1,463 10,485 1,189 1,636 704	N N N N	0 0 0 0 0 0	1 0 0 1 0 0	1 N N 1 N	1 N N 1 N	2 2 	5 0 2 1 0	25 18 6 13 4 3 7	178 18 16 73 33 4 34	212 41 16 80 39 4 32
Mid. Atlantic New Jersey New York (Upstate) New York City Pennsylvania	2,652 213 579 1,297 563	2,887 429 571 1,137 812	6,734 846 4,563 3,130 1,072	91,406 12,944 17,462 35,804 25,196	87,251 13,196 16,009 33,535 24,511	N N N N N	0 0 0 0 0	0 0 0 0 0	N N N N N	N N N N N	20 	13 0 4 1 7	35 4 17 8 17	390 8 99 39 244	364 20 111 57 176
<b>E.N. Central</b> Illinois Indiana Michigan Ohio Wisconsin	1,415 418 269 533 84 111	3,517 1,092 413 858 785 363	4,382 1,356 713 1,332 1,300 494	98,382 30,303 13,407 27,104 17,391 10,177	114,141 34,604 12,887 26,878 26,996 12,776	N N N	0 0 0 0 0	4 0 3 2 0	22 N 11 11 N	32 N 25 7 N	13 — 1 11 1	30 2 5 9 8	126 13 18 13 59 46	826 69 184 139 237 197	809 88 95 132 164 330
W.N. Central lowa Kansas Minnesota Missouri Nebraska <sup>§</sup> North Dakota South Dakota	294 207 4 — 18 12 53	1,330 192 171 267 500 95 22 58	1,586 256 549 338 633 219 60 85	37,852 5,746 5,189 7,191 14,723 2,611 617 1,775	39,328 5,136 5,432 8,525 14,327 3,185 1,088 1,635	N N     N N N N N N N N N N N N N N N	0 0 0 0 0 0 0	1 0 0 1 0 0 0	4 N 4 N N N	1 N 1 N N N	28 7 8 9 3 1	18 4 1 3 2 0 2	68 30 19 13 8 10 9	504 118 47 141 88 49 7 54	436 112 38 97 93 60 2 34
S. Atlantic Delaware District of Columbia Florida Georgia Maryland <sup>§</sup> North Carolina South Carolina <sup>§</sup> Virginia <sup>§</sup> West Virginia	2,482 74 556 2 422 582 812 34	4,309 81 128 1,403 753 431 0 543 616 69	5,670 180 227 1,597 1,909 772 1,309 1,424 924 101	114,839 2,821 3,849 43,045 16,869 12,713 	141,048 2,204 4,171 42,557 24,810 13,603 17,934 15,564 18,307 1,898	Z Z   Z Z Z Z	0 0 0 0 0 0 0 0 0	1 0 0 1 0 0 0 0	5 1 N 4 N N N	3 1 N 2 N N N N	20 — 12 6 — — — 2	21 0 8 6 1 1 1 1	49 1 2 35 20 5 16 6 4 3	549 2 185 219 22 58 24 30 9	465 9 195 132 21 17 28 40 14
E.S. Central Alabama <sup>§</sup> Kentucky Mississippi Tennessee <sup>§</sup>	1,043 	1,735 476 253 444 569	2,184 624 458 841 809	53,728 14,173 7,476 14,026 18,053	49,234 15,090 6,713 11,429 16,002	N N N N	0 0 0 0	0 0 0 0 0	N N N N	N N N N	4 1 2 	3 1 1 0 1	10 6 4 2 5	105 35 30 5 35	78 32 17 7 22
<b>W.S. Central</b> Arkansas <sup>§</sup> Louisiana Oklahoma Texas <sup>§</sup>	2,035 328 192 281 1,234	2,913 275 422 177 1,965	5,308 418 1,134 2,737 2,527	91,216 8,420 13,172 8,442 61,182	88,919 8,463 12,941 7,824 59,691	N N N	0 0 0 0	1 0 1 0 0	1 N 1 N	2 N 2 N N	11 1 4 5	10 1 1 2 7	271 10 5 16 258	199 21 18 53 107	212 19 31 26 136
Mountain Arizona Colorado Idaho <sup>§</sup> Montana <sup>§</sup> Nevada <sup>§</sup> New Mexico <sup>§</sup> Utah Wyoming <sup>§</sup>	815 106 360 41 128 107 33 40	1,268 390 342 67 56 175 167 106 33	2,145 627 728 314 88 366 540 251 97	35,024 7,212 9,668 1,999 1,769 5,732 4,894 2,536 1,214	43,857 14,617 10,474 2,248 1,843 5,811 4,464 3,544 856	       	99 97 0 0 1 0 0 0	368 364 0 0 3 2 2 1	4,505 4,442 N N 35 8 20 —	2,641 2,572 N N 36 22 9 2	12 10 1 	9 1 2 1 0 2 0 0	38 6 12 7 4 23 6 2	263 22 79 44 23 11 57 12 15	273 42 50 37 32 8 69 22 13
Pacific Alaska California Hawaii Oregon <sup>§</sup> Washington	1,676 1,222 	3,660 116 2,815 118 198 377	4,763 233 3,599 247 631 557	110,289 4,923 85,890 3,469 5,712 10,295	112,236 2,785 87,222 3,434 6,007 12,788	62 N 62 N N N	40 0 40 0 0 0	172 0 172 0 0 0	1,495 N 1,495 N N N	1,254 N 1,254 N N N	6 5 	11 0 6 0 2 1	22 2 15 1 8 7	358 5 202 1 106 44	227 2 129 1 46 49
American Samoa C.N.M.I. Guam Puerto Rico U.S. Virgin Islands	 180 	0 3 133 8	0 	4,686 205	73 	N  N	0 0 0 0	0 0 0 0	N  N	N  N	N 	0 0 0 0	0 0 0 0	N  N	N  N

TABLE II. Provisional cases of selected notifiable diseases, United States, weeks ending August 8, 2009, and August 2, 2008 (31st week)\*

C.N.M.I.: Commonwealth of Northern Mariana Islands. U: Unavailable. —: No reported cases. N: Not reportable. Cum: Cumulative year-to-date counts. Med: Median. Max: Maximum. \* Incidence data for reporting year 2008 and 2009 are provisional. Data for HIV/AIDS, AIDS, and TB, when available, are displayed in Table IV, which appears quarterly. † Chlamydia refers to genital infections caused by *Chlamydia trachomatis*. § Contains data reported through the National Electronic Disease Surveillance System (NEDSS).

			Giardiasi	s				Gonorrhe	a				s <i>influenz</i> s, all sero		
			vious veeks					vious veeks					vious veeks		
Reporting area	Current week	Med	Max	Cum 2009	Cum 2008	Current week	Med	Max	Cum 2009	Cum 2008	Current week	Med	Max	Cum 2009	Cum 2008
United States	243	324	641	9,250	9,627	3,246	5,525	7,164	155,548	196,871	33	55	124	1,770	1,833
New England	11	27	64	753	831	81	97	301	2,889	2,993	3	3	16	131	104
Connecticut Maine <sup>§</sup>	6	6 4	14 12	149 109	188 81	28	46 2	275 9	1,318 78	1,345 54	3	0 0	12 2	40 14	22 9
Massachusetts	4	11	27	318	356	43	38	112	1,200	1,305	—	2	5	64	52
New Hampshire Rhode Island§	_	3 1	10 8	76 35	77 52	1 8	2 6	6 19	62 204	67 200	_	0	2 7	7 3	8 6
Vermont§	1	3	15	66	77	1	1	4	27	22	_	Ō	1	3	7
Mid. Atlantic New Jersey	50	58 6	116 21	1,661 108	1,794 293	559 37	588 91	1,138 127	18,129 2,626	19,400 3,185	8	11 2	25 7	385 73	339 55
New York (Upstate)	34	24	81	699	592	111	102	664	3,059	3,604	6	3	20	90	97
New York City Pennsylvania	 16	16 16	30 46	413 441	485 424	286 125	210 186	577 267	6,789 5,655	6,048 6,563	2	2 4	11 10	82 140	59 128
E.N. Central	23	44	40 90	1,233	1,458	532	1,106	1,627	30.471	40,718	2	8	27	255	299
Illinois	—	9	25	222	406	140	347	494	9,232	11,979	_	3	9	90	91
Indiana Michigan	N	0 12	11 22	N 339	N 313	113 204	146 288	252 493	4,468 8,827	5,276 9,947	_	1 0	22 3	74 15	52 17
Ohio	20	16	31	453	468	37	251	482	5,336	9,739	2	1	6	67	96
Wisconsin	3	9	19	219	271	38	94	149	2,608	3,777	_	0	4	9	43
W.N. Central lowa	25 9	25 6	143 18	873 174	1,062 173	56 24	289 32	393 53	7,989 951	9,987 914	3	3 0	15 0	100	134 2
Kansas	_	3	11	67	76	21	36	83	1,189	1,317	_	Ö	2	11	17
Minnesota Missouri	13	0 7	106 22	250 234	342 274	_	43 136	66 184	1,171 3,715	1,917 4,754	2 1	0 1	10 4	32 34	39 50
Nebraska§	3	3	10	97	115	3	22	51	706	847	_	0	4	18	18
North Dakota South Dakota	_	0 2	16 7	8 43	10 72	8	2 7	7 20	36 221	68 170	_	0	4 0	5	8
S. Atlantic	57	68	108	2,140	1,580	743	1,203	2,042	32,527	49,410	13	12	30	474	469
Delaware District of Columbia	_	0 0	3 5	17	26 40	12	16 50	37 88	542 1,524	681 1,544	_	0 0	1	3	6 5
Florida	42	35	60	1,135	664	190	416	507	12,447	14,347	3	4	10	163	118
Georgia Maryland§	8 2	13 5	67 10	546 140	395 150	 99	251 120	876 212	5,698 3,367	9,066 3,663	1	3 1	9 6	101 56	97 72
North Carolina	Ň	0	0	N	N	_	0	542	· —	7,978	9	1	17	57	45
South Carolina§ Virginia§	5	2 8	8 31	53 223	69 198	185 254	167 150	414 308	4,521 4,118	5,719 5,953	_	1	5 6	31 42	42 66
West Virginia		1	5	26	38	3	11	26	310	459	_	0	3	21	18
E.S. Central	5	8	22	201	249	324	521	714	15,473	17,863	1	3	9	103	92
Alabama <sup>§</sup> Kentucky	2 N	4 0	12 0	94 N	142 N	111	149 80	216 153	3,945 2,178	5,951 2,625	_	0	4 5	25 15	15 6
Mississippi	N	0	0	N	N	_	144	253	4,392	4,215		0	1	_	11
Tennessee <sup>§</sup> W.S. Central	3 8	4 9	13 22	107 228	107 217	213 544	160 875	273 1,382	4,958 26,491	5,072 30,711	1	2 2	6 22	63 75	60 86
Arkansas§	3	2	8	72	69	91	83	134	2,578	2,785	_	0	22	13	11
Louisiana Oklahoma	1 4	2 3	8 18	73 83	84 64	50 60	155 69	420 613	4,270 2,947	5,744 2,886		0 1	1 20	11 50	8 60
Texas <sup>§</sup>	Ň	0	0	N	N	343	563	725	16,696	19,296	_	0	1	1	7
Mountain	19	27	62	739	807	78	171	313	4,207	6,959	2	5	11	157	207
Arizona Colorado	17	3 9	10 27	101 255	68 294	14 12	47 57	82 152	846 1,453	2,086 2,076	1	1	7 6	53 51	84 39
Idaho§	1	3	14	88	95	_	2	13	53	100	1	Ö	1	3	12
Montana <sup>§</sup> Nevada <sup>§</sup>	1	2 2	10 8	66 57	46 66	1 26	2 31	6 86	47 1,008	69 1,415	_	0 0	1 2	1 12	2 11
New Mexico§	—	1	8	50	55	23	24	52	632	828	_	0	3	15	31
Utah Wyoming <sup>§</sup>	_	5 1	18 4	91 31	162 21	2	5 2	15 7	120 48	312 73	_	1 0	2 2	19 3	27 1
Pacific	45	52	130	1,422	1,629	329	561	775	17,372	18,830	_	2	8	90	103
Alaska California	30	2 35	10 59	84 970	43 1,105	289	18 473	40 658	796 14,481	307 15,494	_	0 0	4 3	20 20	14 38
Hawaii	—	0	4	8	23	_	13	19	376	359	_	0	3	18	13
Oregon <sup>§</sup> Washington	 15	7 7	17 74	165 195	266 192	12 28	21 45	48 81	596 1,123	724 1,946	_	1 0	3 2	29 3	36 2
American Samoa		0	0				45	0	.,120	1,940	_	0	0	_	
C.N.M.I.	_	—	—	_	_	_	—	_	_	_	_	—	_	_	_
Guam Puerto Rico	_	0 2	0 15	49	109	5	1 4	15 24	161	45 164	_	0 0	0 1	1	_
U.S. Virgin Islands	_	0	0			_	2	7	63	80	Ν	0	0	Ň	Ν

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending August 8, 2009, and August 2, 2008 (31st week)\*

C.N.M.I.: Commonwealth of Northern Mariana Islands. U: Unavailable. —: No reported cases. N: Not reportable. Cum: Cumulative year-to-date counts. Med: Me \* Incidence data for reporting year 2008 and 2009 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). Cum: Cumulative year-to-date counts. Med: Median. Max: Maximum.

#### **MMWR**

				Hepat	itis (viral,	acute), by	type†								
			Α					В				Le	egionellos	is	
	Current		vious veeks	Cum	Cum	Current		vious veeks	Cum	Cum	Current		vious veeks	Cum	Cum
Reporting area	week	Med	Max	2009	2008	week	Med	Max	2009	2008	week	Med	Max	2009	2008
United States	16	37	89	1,091	1,601	32	67	197	1,845	2,243	56	49	110	1,411	1,578
New England Connecticut	_	2 0	8 4	52 14	77 14	_	1 0	4 3	20 8	48 18	2 2	3 1	18 5	71 31	95 16
Maine <sup>§</sup>	_	0 1	5 3	1 29	4 41	_	0	2 2	7 3	9 14	_	0 1	2 6	2 25	4 41
Massachusetts New Hampshire	_	Ö	2	3	6	_	Ō	2	2	3	_	Ó	4	7	15
Rhode Island <sup>§</sup> Vermont <sup>§</sup>	_	0	2 1	3 2	10 2	_	0 0	1 1	_	3 1	_	0 0	14 1	4 2	14 5
Mid. Atlantic	_	5	13	124	177	_	7	17	190	279	21	15	57	514	482
New Jersey New York (Upstate)	_	1	5 4	21 29	40 38	_	1	5 11	44 37	80 39	18	2 5	14 24	82 163	62 130
New York City	_	2	6	34	61	_	1	4	36	61	_	2	18	91	62
Pennsylvania E.N. Central	_	1 5	4 16	40 154	38 221	2	2 10	8 21	73 264	99 293	3 14	5 9	24 29	178 241	228 371
Illinois	_	1	11	68	82	_	2	7	29	110	_	1	13	24	45
Indiana Michigan	_	0	3 5	16 39	12 78	2	1 3	18 8	70 83	23 80	1	1 2	5 10	18 52	32 110
Ohio	—	1	4	26	27	_	2	13	60	66	13	4	17	142	166
Wisconsin W.N. Central	_	0 2	3 16	5 76	22 192	5	0 2	4 16	22 90	14 48	2	0 2	6 8	5 46	18 75
Iowa	—	1	3	22	90	—	0	3	16	13	—	0	2	13	9
Kansas Minnesota	_	0 0	1 12	7 13	12 26	3	0 0	2 11	4 17	6 4	_	0 0	1 3	2 6	1 8
Missouri Nebraska <sup>§</sup>	—	0 0	3 3	16 16	23 39	2	1 0	5 2	41 11	19 5	1 1	1 0	5 1	17 7	41 15
North Dakota	_	0	2	_	_	_	0	1	—	1	_	0	3	1	—
South Dakota	_	0	1	2	2	_	0	1	1			0	1		1
S. Atlantic Delaware	4	7 0	15 1	245 3	214 6	7 U	18 0	32 1	564 U	561 U	12	9 0	22 5	267 8	255 6
District of Columbia Florida	U 3	0	0 8	U 115	U 84	U 5	0 6	0 11	U 184	U 196	5	0 3	2 7	 91	9 82
Georgia	1	4	4	40	29	1	3	9	91	105	_	1	5	32	20
Maryland <sup>§</sup> North Carolina	_	1	4 7	26 24	28 35	_	1	5 19	44 128	52 51	3 3	2 0	10 7	61 39	72 12
South Carolina§	_	Ó	3	22	7		1	4	24	45	—	0	1	3	6
Virginia <sup>§</sup> West Virginia	_	1 0	6 1	15	22 3	1	1 1	10 19	47 46	66 46	1	1 0	5 3	30 3	31 17
E.S. Central	2	1	5	27	47	2	7	11	173	225	2	2	5	59	76
Alabama <sup>§</sup> Kentucky	1 1	0	2 2	7 5	8 16	1	2 2	7 7	55 46	60 57	2	0 1	1 3	6 27	10 38
Mississippi Tennessee§	—	0 0	1 4	7 8	4 19	—	0 2	3 6	8 64	23 85	_	0	1 4	1 25	1 27
W.S. Central	1	3	43	99	155	6	2 11	99	267	450	_	1	4 21	25 42	27 45
Arkansas§	_	0	1	4	4	_	1	5	23	32	_	0	2	3	6
Louisiana Oklahoma	1	0 0	2 6	3 1	8 7	4	1 2	4 17	26 56	56 62	_	0 0	1 6	2 3	8 3
Texas§		3	37	91	136	2	6	76	162	300	_	1	19	34	28
Mountain Arizona	3	3 2	8 6	96 44	145 75	1	3 1	7 4	77 28	124 48	1	2 0	8 3	59 24	46 13
Colorado	3	0	5	30	26	—	0	2	15	21	—	0	2	6	3
Idaho <sup>§</sup> Montana <sup>§</sup>	_	0 0	1	2 5	14	_	0 0	2 1	_4	5 1	_	0 0	1 2	4	2 4
Nevada <sup>§</sup> New Mexico <sup>§</sup>	_	0	3 1	6 5	5 15	1	0 0	3 2	17 5	28 7	1	0 0	2 2	9	6 3
Utah	—	0	2	4	7	—	0	3	5	9	_	0	4	14	15
Wyoming <sup>§</sup> Pacific	6	0 7	0 18	 218	3 373	9	0 7	2 36	3 200	5 215	2	0 3	1 13	1 112	133
Alaska	_	0	1	6	3	_	0	2	5	7	_	0	1	3	1
California Hawaii	5	6 0	17 2	167 4	303 10	5	5 0	28 1	146 3	149 5	2	3 0	9 1	87 1	101 5
Oregon§		0	2	12	22		0	3	23	28	—	0	2	7	12
Washington American Samoa	1	1 0	4 0	29 —	35	4	1 0	8 0	23	26 —	N	0 0	4 0	14 N	14 N
C.N.M.I. Guam	_	0	0	_	_	_	0	0	_	_	_	0	0	_	_
Puerto Rico	—	0	2	15	18	—	0	5	10	31	—	0	0	—	—
U.S. Virgin Islands	_	0	0	_	_	_	0	0	—	_	_	0	0	_	_

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending August 8, 2009, and August 2, 2008 (31st week)\*

C.N.M.I.: Commonwealth of Northern Mariana Islands. U: Unavailable. —: No reported cases. N: Not reportable. Cum: Cumulative year-to-date counts. Med: Median. Max: Maximum. \* Incidence data for reporting year 2008 and 2009 are provisional. † Data for acute hepatitis C, viral are available in Table I. § Contains data reported through the National Electronic Disease Surveillance System (NEDSS).

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		L	yme disea	se				Malaria			we		cal diseas All groups	e, mvasn	/e'
			vious veeks					rious eeks					/ious /eeks		
Reporting area	Current week	Med	Max	Cum 2009	Cum 2008	Current week	Med	Max	Cum 2009	Cum 2008	Current week	Med	Max	Cum 2009	Cum 2008
United States	538	539	1,637	13,330	18,735	16	23	46	614	639	6	17	48	584	813
New England	72	106	394	2,095	7,416	—	1	5	25	32 7	_	0	4	20	23
Connecticut Maine <sup>§</sup>	62	0 8	105 73	374	2,698 165	_	0 0	4	4	1	_	0 0	1	2 3	1 4
Massachusetts	5	30	175	1,041	3,213	—	0	4	16	15	—	0	3	11	15
New Hampshire Rhode Island <sup>§</sup>	_	14 0	57 78	452 54	1,060 114	_	0	1	1	3 2	_	0	1	1 2	2 1
Vermont§	5	5	35	174	166	_	Ő	1	2	4	_	Ő	1	1	
Mid. Atlantic New Jersey	369 1	240 37	1,401 225	8,045 2,080	7,322 2,495	1	5 0	17 4	132	161 38	_	2 0	5 2	62 8	85 11
New York (Upstate)	227	87	1,368	2,080	2,495	1	1	10	28	15	_	0	2	16	22
New York City	141	1 53	40 444	7 3,781	434	_	3 1	11 4	75 29	85 23	_	0 1	2 4	9 29	18 34
Pennsylvania E.N. Central	6	21	444 115	3,781 927	2,279 1,504	3	3	4 6	29 85	23 99	_	3	4 9	109	140
Illinois	_	0	7	44	85		1	4	31	51	_	1	6	25	50
Indiana Michigan	1	0 1	6 10	15 37	19 31	3	0 0	2 3	11 17	4 11	_	0	6 5	35 17	17 23
Ohio	1	1	6	21	14	_	1	5	23	21	_	Ő	3	26	32
Wisconsin	4	17	108	810	1,355	—	0	2	3	12	—	0	1	6	18
W.N. Central lowa	_	6 1	336 10	113 49	294 82	_	1 0	7 3	32 5	36 3	1	1 0	9 1	45 6	72 14
Kansas	_	Ó	4	13	6	_	0	2	3	3	_	0	2	8	3
Minnesota Missouri	_	1 0	326 2	39 4	197 2	_	0	7 2	13 7	17 7	_	0	4 2	9 14	21 22
Nebraska§	_	ő	3	7	4	_	0	1	3	6	_	Ő	1	5	10
North Dakota South Dakota	_	0 0	10 1		3	_	0	0 1	1	_	1	0 0	3 1	1 2	1 1
S. Atlantic	80	65	223	1,979	2,025	7	6	15	200	167	2	2	9	106	114
Delaware	9	12	62	572	526	—	0	1	200	2	_	0	1	2	1
District of Columbia Florida	3	0 1	5 6	26	41 26	2	0	2 7	 59	2 27	_	0 1	0 4	39	40
Georgia	5	0	6	34	26	5	1	4	43	39	_	0	2	20	14
Maryland <sup>§</sup> North Carolina	39 14	30 1	163 7	936 52	966 6	_	1 0	8 5	48 21	47 17	2	0 0	1 5	5 18	12 10
South Carolina§	_	0	3	15	15	_	0	1	1	6		0	1	8	17
Virginia <sup>§</sup> West Virginia	10	13 1	61 17	280 64	324 95	_	1 0	4	24 2	26 1	_	0	2 2	9 5	16 4
E.S. Central	_	0	3	13	30	_	1	3	21	11	_	0	3	19	38
Alabama§	_	Ō	1	2	8	—	Ó	3	6	3	—	0	1	5	5
Kentucky Mississippi	_	0 0	1 0	1	4	_	0 0	2 0	8	3 1	_	0	1	4	7 9
Tennessee§	—	Ő	3	10	17	—	Ő	3	7	4	_	Ő	1	9	17
W.S. Central	—	1	21	18	56	_	1	10	25	36	1	1	12	52	86
Arkansas <sup>§</sup> Louisiana	_	0 0	0 1	_	1	_	0 0	1	1	2	_	0 0	2 3	5 10	13 19
Oklahoma	—	0	2			—	0	2	2	2	_	0	3	4	10
Texas <sup>§</sup> Mountain	1	1	21 13	18 24	55 28	1	1 0	10 4	21 15	32 17	1	1	9 4	33 44	44 43
Arizona	_	ò	2	2	4	—	0	2	3	6	_	Ò	2	10	5
Colorado Idaho§	1	0 0	1 2	3 8	2 5	1	0 0	3	7	3	_	0	2	13 5	9 4
Montana§	_	0	13 2	2	2 5	_	0	1	1	_	_	0	2	4	4
Nevada <sup>§</sup> New Mexico <sup>§</sup>	_	0 0	2 2	8	5 6	—	0 0	1	_	4 2	_	0 0	2 1	4 3	7 6
Utah	_	0	1	_	2	_	0	2	3	2	_	Ő	1	1	6
Wyoming§	—	0	1	1	2	—	0	0	_	_	_	0	2	4	2
Pacific Alaska	10	3 0	13 2	116 3	60 3		3 0	10 1	79 3	80 3	_2	4 0	14 2	127 2	212 5
California	10	2	7	103	35	3	2	8	58	60	2	2	8	82	157
Hawaii Oregon <sup>§</sup>	N	0 0	0 3	N 7	N 18	_	0 0	1 2	1 7	2 4	_	0	1 7	3 27	4 25
Washington	_	0	12	3	4	1	0	3	10	11	_	0	6	13	25
American Samoa	Ν	0	0	Ν	Ν	_	0	0	_	_	_	0	0	—	_
C.N.M.I. Guam	_	0		_	_	_		2	_	1	_	0		_	_
Puerto Rico	Ν	0 0	0	Ν	N	_	0	1	1	2	_	0	1	—	2
U.S. Virgin Islands	N	0	0	N	N		0	0		_	_	0	0		_

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending August 8, 2009, and August 2, 2008 (31st week)\*

C.N.M.I.: Commonwealth of Northern Mariana Islands. U: Unavailable. —: No reported cases. N: Not reportable. Cum: Cumulative year-to-date counts. Med: Median. Max: Maximum. \* Incidence data for reporting year 2008 and 2009 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).

(31st week)*							_	-				-			
			Pertussis	;				ibies, anin	nal		R		untain spo	tted fever	
			vious veeks	-	-			vious veeks	-	-			vious veeks		-
Reporting area	Current week	Med	Max	Cum 2009	Cum 2008	Current week	Med	Max	Cum 2009	Cum 2008	Current week	Med	Max	Cum 2009	Cum 2008
United States	122	263	1,697	7,341	4,996	59	66	138	2,054	2,445	27	31	179	804	1,120
New England	1	16	30	374	581	2	8	15	201	225	_	0	2	7	3
Connecticut Maine <sup>†</sup>	_	0 1	4 10	19 63	37 21	_	3 1	10 5	85 33	107 31	_	0 0	0 2	4	_
Massachusetts New Hampshire	1	10 1	26 7	224 49	451 20	_	0 1	0 7	23	24	_	0 0	1 0	3	1 1
Rhode Island <sup>†</sup>	_	0	5	11	45	_	1	3	27	19	_	0	2	_	1
Vermont <sup>†</sup>		0	2	8	7	2	1	4	33	44	_	0	0		
Mid. Atlantic New Jersey	18	24 4	64 12	642 111	576 119	12	15 0	27 0	359	533	_	1 0	29 6	36	78 55
New York (Upstate) New York City	7	5 0	41 21	115 48	205 49	12	8 0	20 2	241	278 11	_	0 0	29 4	5 20	10 6
Pennsylvania	11	12	33	368	203	_	5	17	118	244	_	0	2	11	7
E.N. Central	44	50	238	1,578	851	9	2	28	120	108	—	2	15	42	87
Illinois Indiana	_	13 5	45 158	260 186	143 28	5	1 0	20 12	50 12	37 3	_	1 0	9 3	27 2	66 2
Michigan Ohio	8 36	10 18	21 57	353 701	126 483	2 2	1 0	9 7	36 22	40 28	_	0 0	2 3	4 9	2 17
Wisconsin		3	10	701	403	N	0	0	22 N	20 N	_	0	0	9	
W.N. Central	9	33	872	1,086	422	6	5	17	157	170	7	4	24	126	275
lowa Kansas	_	6 4	21 12	112 118	66 33	_	0 1	5 6	9 55	12 44	_	0 0	1	2 1	6
Minnesota Missouri	7	0 18	808 51	165 568	126 140	3 3	0 1	11 8	32 30	33 26	6	0 3	0 24	116	254
Nebraska <sup>†</sup>	1	4	32	93	39		0	2	—	25	1	0	24	7	12
North Dakota South Dakota	1	0	24 10	16 14	1 17	_	0	9 4	4 27	16 14	_	0	1 0	_	3
S. Atlantic	23	27	71	942	476	20	25	111	922	1,074	11	14	54	331	345
Delaware District of Columbia	_	0 0	3 2	8	7 1	_	0 0	0	_	_	_	0 0	3 0	6	21 6
Florida	18	8	32	326	136	_	0	95	104	138	_	0	3	4	5
Georgia Maryland <sup>†</sup>	4	3 3	11 10	106 67	52 62	_	3 6	71 13	225 184	238 270	1	1	5 7	27 27	50 44
North Carolina South Carolina <sup>†</sup>	—	0 3	65 16	199 128	77 66	Ν	2 0	4 0	N	N	9	9 0	36 9	212 14	124
Virginia <sup>†</sup>	_	4	24	94	69	18	10	24	338	367	1	2	9	38	18 71
West Virginia	1	0	5	14	6	2	2	6	71	61	_	0	1	3	6
E.S. Central Alabama <sup>†</sup>	7	14 3	33 19	450 169	180 23	_2	2 0	7 0	67	109	5 4	4 1	19 6	145 34	177 46
Kentucky Mississippi	6	5 1	15 4	140 30	45 70	_2	1 0	4 2	33	25 2	_	0 0	0 1	5	1 7
Tennessee <sup>†</sup>	1	3	14	111	42	_	2	6	34	82	1	3	17	106	123
W.S. Central	1	53	389	1,270	718	_	0	7	31	66	4	2	161	98	131
Arkansas† Louisiana	1	4 2	38 7	126 69	51 47	_	0 0	5 0	23	39	3	0 0	61 2	44 2	16 3
Oklahoma Texas†	_	0 41	45 304	18 1,057	19 601	_	0 0	6 1	7 1	25 2	1	0 0	98 6	41 11	86 26
Mountain	7	17	31	503	517	1	2	9	54	44	_	1	3	17	22
Arizona Colorado	5	3 5	8 12	107 175	143 91	N	0	0	N	N	_	0	2 0	3	7 1
Idaho†	1	1	5	47	22	_	0	2		6	—	0	0	_	1
Montana <sup>†</sup> Nevada <sup>†</sup>	1	0 0	4 3	12 8	64 21	_	0 0	4 5	15 3	4 3	_	0 0	2 2	8 1	3
New Mexico <sup>†</sup> Utah	—	1 4	10	33	28	1	0 0	2 6	15 4	21	_	0 0	1	1	2
Wyoming <sup>†</sup>	_	4	19 5	113 8	138 10	_	0	6 4	4 17	2 8	_	0	2	1 3	3 5
Pacific	12	22	98	496	675	7	4	13	143	116	<u></u>	0	1	2	2
Alaska California	_	4 6	21 19	56 128	70 326	7	0 4	4 12	19 122	12 99	<u>N</u>	0 0	0 1	N 2	N
Hawaii Oregon <sup>†</sup>	1	0 3	3 14	19 125	6 102	_	0 0	0 2	2	5	N	0 0	0	Ν	N 2
Washington	11	6	76	125	102	_	0	2		5	_	0	0	_	
American Samoa C.N.M.I.	_	0	0	_	_	N	0	0	N	N	N	0	0	Ν	N
Guam	_	0	0	_	_	_	0	0	_	_	Ν	0	0	Ν	Ν
Puerto Rico	_	0 0	1 0	1	_	N	1 0	3 0	24 N	37 N	N N	0 0	0 0	N	N
U.S. Virgin Islands	_	U	0	_	_	IN	U	U	N	IN	IN	U	U	N	N

TABLE II. (*Continued*) Provisional cases of selected notifiable diseases, United States, weeks ending August 8, 2009, and August 2, 2008 (31st week)\*

C.N.M.I.: Commonwealth of Northern Mariana Islands. U: Unavailable. —: No reported cases. N: Not reportable. Cum: Cumulative year-to-date counts. Med: Median. Max: Maximum. \* Incidence data for reporting year 2008 and 2009 are provisional. † Contains data reported through the National Electronic Disease Surveillance System (NEDSS).

·	Salmonellosis					Shig	ja toxin-pi	oducing	E. coli (ST	EC)†		5	Shigellosis		
			vious				Prev						vious		
Reporting area	Current week	Med	veeks Max	Cum 2009	Cum 2008	Current week	52 w Med	Max	Cum 2009	Cum 2008	Current week	Med	veeks Max	Cum 2009	Cum 2008
United States	681	888	2,323	22,396	24,646	54	82	255	1,980	2,567	188	317	1,268	8,892	11,081
New England Connecticut	8	32 0	264 238	1,252 238	1,435 491	_	3 0	43 43	123 43	159 47	5	3 0	28 23	143 23	141 40
Maine <sup>§</sup>	2	2	7	77	89	_	0	3	10	7	_	0	6	3	11
Massachusetts New Hampshire	5 1	22 3	41 42	631 184	661 88	_	1	6 3	41 21	74 14	5	2 0	15 3	101 5	76 4
Rhode Island <sup>§</sup> Vermont <sup>§</sup>	_	2	11 6	87 35	53 53	_	0	1 6		7 10	_	0	1 2	8	8 2
Mid. Atlantic	53	91	182	2,432	3,146	5	6	19	130	282	38	55	76	1,668	1,422
New Jersey New York (Upstate)	32	12 24	44 66	221 691	758 733	5	1 3	5 12	21 66	92 80	8	16 5	35 23	344 131	445 391
New York City		19	49	589	696	—	1	5	37	32	_	9	23	233	478
Pennsylvania E.N. Central	21 46	29 96	66 156	931 2.747	959 2,919	3	0 14	5 74	6 357	78 405	30 33	21 77	58 132	960 1,719	108 2,045
Illinois	<del>40</del>	25	50	661	865	_	1	10	62	75		13	34	334	594
Indiana Michigan	8	11 18	50 38	313 547	324 540	_	2 3	13 43	55 78	42 79	2	2 5	21 24	52 136	448 70
Ohio Wisconsin	38	27 12	52 30	873 353	763 427	3	3 3	15 16	71 91	96 113	31	39 11	80 42	883 314	715 218
W.N. Central	62	52	109	1,551	1,612	15	12	37	358	476	8	15	49	522	553
lowa Kansas	6	7 7	16 19	241 213	261 255	3	2 1	13 7	95 25	128 26	_	2 3	12 11	45 145	97 15
Minnesota Missouri	17 25	13 11	51 48	366 311	429 407	10	2 2	14 10	110 62	94 109	8	3 3	14 39	48 264	176 158
Nebraska <sup>§</sup> North Dakota	6	5	41 30	235 40	144 27	2	2	12 28	49 3	88	_	0	3	15	2 30
South Dakota	o 	4	22	145	89	_	0	20 5	14	30	_	0	1	2	75
S. Atlantic Delaware	266 1	262 2	457 8	6,055 54	5,875 86	7	13 0	48 2	349 8	420 8	36 3	47 0	85 8	1,380 55	1,964 7
District of Columbia	189	0 103	2 180	2,803	42 2.473	5	0 2	1 10	 94	5 86		0 9	2 24	269	11 558
Florida Georgia	41	39	96	1,092	1,143	_	1	8	37	48	6	13	30	395	754
Maryland <sup>§</sup> North Carolina	19 6	16 27	35 106	400 749	473 504	1	2 2	11 21	47 70	67 47	4	6 6	13 27	222 240	48 63
South Carolina <sup>§</sup> Virginia <sup>§</sup>	 10	16 19	57 88	357 480	508 519	_	0 3	3 27	16 62	26 107	5	4 5	17 59	71 123	397 105
West Virginia		4	23	120	127	1	0	3	15	26	_	0	3	5	21
E.S. Central Alabama <sup>§</sup>	47 8	52 16	140 49	1,342 380	1,648 453	4 1	5 1	12 4	129 30	156 42	4	21 4	58 12	530 94	1,233 293
Kentucky	17 6	10 12	18 57	281 290	255 525	2	2 0	7	44 6	46 4	2	2	25 6	134 17	203 257
Mississippi Tennessee <sup>§</sup>	16	14	62	391	415	1	2	6	49	64	2	12	48	285	480
W.S. Central Arkansas <sup>§</sup>	56 20	96 12	1,333 38	2,023 322	3,307 363	1	3 1	139 5	70 20	192 31	39 5	66 9	967 21	1,620 212	2,464 301
Louisiana	18	18	54	404	574	_	Ó	1	_	6	2	5	20	95	426
Oklahoma Texas <sup>§</sup>	18	14 51	102 1,204	324 973	374 1,996	1	0 2	82 55	14 36	18 137	11 21	5 46	61 889	160 1,153	66 1,671
Mountain Arizona	22	57 19	103 43	1,568 509	1,880 547	8	10 1	40 4	256 30	293 40	4	27 17	54 40	651 479	474 217
Colorado	18	12	26	377	442	6	3	18	100	83	3	2	11	55	56
Idaho <sup>§</sup> Montana <sup>§</sup>	2	3 2	9 7	95 72	99 65		2 0	15 3	42 14	53 24	_	0 0	2 5	5 13	6 4
Nevada <sup>§</sup> New Mexico <sup>§</sup>	1	4 6	12 22	145 166	137 356	_	0 1	3 4	16 18	13 32	1	1 2	13 12	37 51	125 47
Utah Wyoming <sup>§</sup>	1	6 1	15 6	161 43	191 43	_	1 0	7	31 5	38 10	_	1 0	3	11	16 3
Pacific	121	125	537	43 3,426	43 2,824	11	9	2 31	5 208	184	21	28	82	659	3 785
Alaska California	88	2 95	9 516	68 2,621	27 2,052	4	0 5	1 15	129	4 95	13	0 24	1 75	3 528	678
Hawaii	4	5	13	146	157	_	0	1	2	11	3	0	3	19	25
Oregon <sup>§</sup> Washington	29	7 11	20 85	216 375	247 341	7	1 3	7 16	16 61	25 49	5	1 3	10 11	21 88	40 42
American Samoa C.N.M.I.	_	0	1	_	1	_	0	0	_	_	_	0	_2	3	1
Guam Puerto Rico	3	0 11	2 40	 188	8 377		0	0	_	_	_	0 0	1 4	5	14 15
U.S. Virgin Islands		0	40	- 100	- 377	_	0	0	_	_	_	0	4	- -	

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending August 8, 2009, and August 2, 2008 (31st week)\*

C.N.M.I.: Commonwealth of Northern Mariana Islands. U: Unavailable. —: No reported cases. N: Not reportable. Cum: Cumulative year-to-date counts. Med: Median. Max: Maximum. \* Incidence data for reporting year 2008 and 2009 are provisional. † Includes *E. coli* O157:H7; Shiga toxin-positive, serogroup non-O157; and Shiga toxin-positive, not serogrouped. § Contains data reported through the National Electronic Disease Surveillance System (NEDSS).

	9	diseases. inv	asive, group A		Streptococc	us pneumonia	ae, invasive di Age <5 years	sease, nondru	ig resistant†	
		Prev	ious	uorro, group A			Prev	ious		
Reporting area	Current week	52 w Med	eeks Max	Cum 2009	Cum 2008	Current week	52 w Med	eeks Max	Cum 2009	Cum 2008
United States	64	102	239	3,663	3,786	12	36	122	1,100	1,147
New England	10	5	28	219	282	1	1	12	40	57
Connecticut	9	0	21	62	78	_	Ó	11	_	_
Maine <sup>§</sup> Massachusetts	1	0 3	2 10	13 91	20 134	1	0 1	1 4	3 28	1 42
New Hampshire	_	1	4	31	18	_	0	2	20 7	42
Rhode Island <sup>§</sup>	—	0	2	9	20	—	0	2	_	7
Vermont§	—	0	3	13	12	—	0	1	2	_
Mid. Atlantic New Jersev		19 3	43 6	732 92	781 142	3	4 1	33 4	165 28	149 44
New York (Upstate)	2	7	25	243	247	3	2	17	79	68
New York City	_	4	12	139	141	_	0	31	58	37
Pennsylvania	3	6	18	258	251	N	0	2	N	N
E.N. Central Illinois	_5	17 5	42 12	752 182	743 199	_	6 1	18 5	168 19	209 60
Indiana	_	3	23	182	96	_	0	13	32	21
Michigan		3	11	109	127	_	1	5	45	55
Ohio	3	4	13	173	205	—	1	6	48	37
Wisconsin	2	2	10	103	116		1	4	24	36
W.N. Central lowa	15	6 0	37 0	306	281	4	2 0	11 0	97	57
Kansas	_	1	5	37	32	Ν	õ	1	Ν	N
Minnesota	14	0	34	139	136	4	0	10	54	14
Missouri Nebraska§	1	2 1	8 3	67 32	64 25	_	1 0	4 1	29 5	26 6
North Dakota	_	0	4	11	8	_	0	3	4	5
South Dakota	_	0	3	20	16	_	0	2	5	6
S. Atlantic	16	22	47	798	760	—	6	16	205	220
Delaware District of Columbia	_	0 0	1 2	9	6 8	N	0 0	0 0	N	N
Florida	5	6	12	190	170		1	6	48	41
Georgia	3	5	13	188	174	_	2	6	49	59
Maryland <sup>§</sup>	3	3	12	128	136		1	4	46	43
North Carolina South Carolina <sup>§</sup>	2	2 2	12 5	81 49	96 43	N	0	0 6	N 32	N 37
Virginia§	_	3	9	120	98	_	ò	4	18	35
West Virginia	3	1	4	33	29	—	0	3	12	5
E.S. Central	3	4	10	138	128		1	6	42	59
Alabama§ Kentucky	N 2	0 1	0 5	N 25	N 28	N N	0 0	0 0	N N	N N
Mississippi	Ń	ò	ő	Ň	Ň	_	õ	2		8
Tennessee§	1	3	9	113	100	_	1	6	42	51
W.S. Central	9	9	79	299	322	3	6	46	187	177
Arkansas <sup>§</sup> Louisiana	1	0 0	2 3	14 9	7 13	_	0 0	4 3	19 13	10 10
Oklahoma	5	3	20	103	74	1	1	7	36	48
Texas <sup>§</sup>	3	6	59	173	228	2	4	34	119	109
Mountain	1	10	22 7	314	397	1	4	16	161	185
Arizona Colorado	1	3 3	7 9	102 104	140 100	1	2 1	10 4	82 31	85 41
Idaho§	_	ŏ	2	4	12	_	Ó	2	6	3
Montana§	N	0	0	N	N	N	0	0	N	N
Nevada <sup>§</sup> New Mexico <sup>§</sup>	_	0 2	1 7	5 58	6 97	_	0 0	1 4	15	3 25
Utah	_	1	6	40	36	_	0	5	27	27
Wyoming§	—	0	1	1	6	_	0	1	—	1
Pacific	—	4	10	105	92	—	1	6	35	34
Alaska California	N	1 0	3 0	28 N	23 N	N	0	5 0	29 N	22 N
Hawaii	IN	3	8	77	69		0	2	6	12
Oregon <sup>§</sup>	N	0	0	N	N	N	0	0	N	N
Washington	N	0	0	N	Ν	N	0	0	N	N
American Samoa	—	0	0	—	30	Ν	0	0	Ν	N
C.N.M.I. Guam	_	0		_	_	_	0		_	_
Puerto Rico	N	0	0	N	N	N	0	0	N	N
U.S. Virgin Islands		0	0			N	0	0	N	N

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending August 8, 2009, and August 2, 2008 (31st week)\*

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

 U: Unavailable. —: No reported cases. N: Not reportable. Cum: Cumulative year-to-date counts. Med: Median. Max: Maximum.
 \* Incidence data for reporting year 2008 and 2009 are provisional.
 \* Includes cases of invasive pneumococcal disease, in children aged <5 years, caused by *S. pneumoniae*, which is susceptible or for which susceptibility testing is not available. (NNDSS event code 11717). § Contains data reported through the National Electronic Disease Surveillance System (NEDSS).

#### **MMWR**

		Streptococcus pneumoniae, invasive disease, drug resistant <sup>†</sup>														
			All ages				Aç	ged <5 yea	irs		Syphilis, primary and secondary					
		Prev						/ious					vious			
Reporting area	Current week	Med	eeks Max	Cum 2009	Cum 2008	Current week	Med	veeks Max	Cum 2009	Cum 2008	Current week	Med	veeks Max	Cum 2009	Cum 2008	
United States	10	61	276	1,967	2,093	3	9	21	301	315	119	261	452	7,546	7,425	
New England	_	1	48	33	45	_	0	5	2	6	7	5	15	195	191	
Connecticut Maine <sup>§</sup>	_	0	48 2	8	14	_	0 0	5 1	_	_	3	1 0	5 1	39 1	17 8	
Massachusetts	_	0	1	2	—	_	0	1	2	_	4	4	11	134	137	
New Hampshire Rhode Island <sup>§</sup>	_	0	3 6	5 7	18	_	0 0	0 1	_	4	_	0	2 5	11 10	10 14	
Vermont§	_	Ő	2	11	13	_	Ő	Ö	_	2	_	0	2	_	5	
Mid. Atlantic New Jersev	1	4 0	14 0	112	217	_	0 0	3 0	19	18	25 1	35 4	51 13	1,111 136	990 129	
New York (Upstate)	_	1	10	49	46	_	0	2	10	6	2	2	8	73	85	
New York City Pennsylvania	1	0 1	4 8	3 60	90 81	_	0 0	2 2	9	1 11	19 3	23 6	40 12	700 202	606 170	
E.N. Central	3	12	41	503	455	2	- 1	7	68	62	10	24	44	608	674	
Illinois Indiana	N	0 4	0 32	N 224	N 158	N	0 0	0 6	N 27	N 19	6 3	8 2	19 10	180 90	265 79	
Michigan	_	0	2	18	15	_	0	1	2	2	—	3	18	141	124	
Ohio Wisconsin	3	7 0	18 0	261	282	2	1 0	4 0	39	41	1	6 1	15 4	170 27	176 30	
W.N. Central	_	2	161	90	150	_	0	3	20	30	_	6	14	172	242	
lowa Kansas	_	0	0 5	38	58	_	0	0 2	13	3	_	0	2 3	12 18	12 19	
Minnesota	_	ò	156	—	22	_	Ō	3	—	22	_	2	6	40	61	
Missouri Nebraska <sup>§</sup>	_	1 0	5 0	40	64	_	0 0	1 0	5	_2	_	3 0	10 3	83 15	143 7	
North Dakota South Dakota	_	0 0	3 2	10 2	2 4	_	0 0	0 2	2	3	_	0 0	1 1	3 1	_	
S. Atlantic	4	26	53	894	834	_	4	14	133	133	40	63	262	1,860	1,617	
Delaware District of Columbia	N	0	2	13 N	3 N	N	0 0	0	N	N	_	0	3	22 96	10 83	
Florida	2	15	36	526	461		2	13	84	85	1	19	31	581	612	
Georgia Maryland <sup>§</sup>	_	8 0	25 1	271 4	284 4	_	1 0	5 0	42	40 1	4 6	14 6	227 16	409 176	343 198	
North Carolina	Ν	0	0	Ν	N	Ν	0	0	Ν	Ν	17	8	19	325	162	
South Carolina§ Virginia§	N	0 0	0	N	N	N	0	0	N	N	1 11	2 5	6 16	62 185	51 151	
West Virginia	2	2	13	80	82	—	0	3	7	7	—	0	2	4	7	
E.S. Central Alabama <sup>§</sup>	1 N	5 0	25 0	187 N	230 N	N	1 0	3 0	27 N	42 N	13	22 8	36 16	674 257	632 266	
Kentucky	1	1	5	52	56	—	0	2	7	9	5	1	10	36	50	
Mississippi Tennessee§	_	0 3	3 23	135	28 146	_	0 0	1 3	20	8 25	8	3 8	18 19	122 259	89 227	
W.S. Central	_	1	6	66	73	_	0	3	14	12	18	50	80	1,459	1,246	
Arkansas <sup>§</sup> Louisiana	_	0 1	5 5	37 29	13 60	_	0	3 1	9 5	3 9	_	4 13	35 40	123 298	98 324	
Oklahoma	Ν	0	0	N	N	N	0	0 0	N	N	1	1 31	7	35	46	
Texas <sup>§</sup> Mountain	1	0 2	0 7	80	88	1	0	3	17	11	17 2	7	46 18	1,003 170	778 392	
Arizona	_	0	0	_	_	_	0	0	_	_	_	2	8	22	200	
Colorado Idaho <sup>§</sup>	N	0 0	0 1	N	N	N	0 0	0 1	N	N	1	1 0	5 2	55 3	97 2	
Montana <sup>ş</sup> Nevada <sup>ş</sup>		0 1	1 4	 29	43		0 0	0 2	7	5	1	0 1	7 7	60	50	
New Mexico§	_	Ó	0	—	_	_	0	0	_	_	_	1	5	28	25	
Utah Wyoming <sup>§</sup>	_	1 0	6 2	42 9	44 1	_	0 0	3 1	9 1	6	_	0 0	2 1	2	16 2	
Pacific	_	0	1	2	1	_	0	1	1	1	4	46	67	1,297	1,441	
Alaska California	N	0	0	N	N	N	0 0	0	N	N	2	0 41	0 59	1,193	1 1,305	
Hawaii	_	0	1	2	1	_	0	1	1	1	—	0	3	18	14	
Oregon <sup>§</sup> Washington	N N	0 0	0 0	N N	N N	N N	0 0	0 0	N N	N N	2	1 2	4 8	26 60	8 113	
American Samoa	N	0	0	Ν	Ν	Ν	0	0	N	Ν	_	0	0		_	
C.N.M.I. Guam	_			_	_	_		0	_	_	_	0		_	_	
Puerto Rico	_	0	0	_	—	_	0	0	—	—	1	3	11	121	91	
U.S. Virgin Islands	_	0	0		_		0	0	_	_	_	0	0			

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending August 8, 2009, and August 2, 2008 (31st week)\*

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

U: Unavailable. —: No reported cases. N: Not reportable. Cum: Cumulative year-to-date counts. Med: Median. Max: Maximum.
 \* Incidence data for reporting year 2008 and 2009 are provisional.
 † Includes cases of invasive pneumococcal disease caused by drug-resistant *S. pneumoniae* (DRSP) (NNDSS event code 11720).
 § Contains data reported through the National Electronic Disease Surveillance System (NEDSS).

	West Nile virus disease <sup>†</sup>														
		Varic	ella (chick	enpox)		Neuroinvasive Nonneuroinvasive <sup>§</sup>									
			vious					vious					vious		
Reporting area	Current week	Med	weeks Max	Cum 2009	Cum 2008	Current week	Med	eeks Max	Cum 2009	Cum 2008	Current week	Med	veeks Max	Cum 2009	Cum 2008
United States	43	490	1,035	13,799	19,858		1	75	41	158		0	77	16	210
New England	_	11	46	184	1,075	_	0	2	_	_	_	0	1	_	2
Connecticut Maine <sup>¶</sup>	_	0 0	21 11	_	546 172	_	0	2 0	_	_	_	0 0	1 0	_	2
Massachusetts	_	Ō	1	1	_	_	Ō	1	_	_	_	0	Ō	_	_
New Hampshire Rhode Island <sup>¶</sup>	_	4 0	11 1	136 4	170	_	0 0	0 1	_	_	_	0 0	0	_	_
Vermont <sup>¶</sup>	—	3	17	43	187	—	0	Ó	—	—	—	0	Ō	—	—
Mid. Atlantic New Jersey	8 N	38 0	58 0	989 N	1,576 N	_	0 0	8 2	1	6	_	0 0	4	_	1 1
New York (Upstate)	N	0	Ō	N	N	_	0	5	1	2	_	0	2	_	—
New York City Pennsylvania	8	0 38	0 58	989	1,576	_	0	2 2	_	3 1	_	0	2 1	_	_
E.N. Central	13	157	254	4,209	4,828	_	0	8	_	5	_	0	3	_	5
Illinois Indiana	_	33 0	73 35	835 332	670	_	0	4	_	1	_	0 0	2 1	_	3
Michigan	3	48	90	1,288	2,055	_	0	4	_	1	_	0	2	_	_
Ohio Wisconsin	8 2	42 13	91 55	1,380 374	1,556 547	_	0 0	3 2	_	2	_	0 0	1	_	2
W.N. Central	4	22	114	654	784	_	0	6	2	15	_	0	21	3	50
lowa Kansas	N	0 6	0 22	N 176	N 308	_	0	1 2	_	2 5	_	0 0	1 3	_	2 6
Minnesota	_	0	0	_	—	—	0	2	1	_	—	0	2	—	5
Missouri Nebraska <sup>¶</sup>	2 N	10 0	51 0	421 N	446 N	_	0	3 1	_	1 1	_	0 0	1 6	1	9
North Dakota	2	0	108	57	_	_	0	0	_	2	_	0	11	_	15
South Dakota S. Atlantic	14	0 56	4 146	 1,376	30 3,225	_	0 0	5 4	1	4 4	_	0 0	5 4	2	13 3
Delaware	—	0	4	8	26	_	Õ	0	_	_	_	0	1	—	—
District of Columbia Florida	8	0 28	3 67	905	18 1,146	_	0	2 2	_	1	_	0 0	1 0	_	_
Georgia	N	0	0	N	Ń	_	0	1	_	_	_	0	1	_	2
Maryland <sup>¶</sup> North Carolina	N N	0 0	0	N N	N N	_	0 0	2 1	_	1 1	_	0 0	3 1	_	_
South Carolina <sup>¶</sup>	—	4	54	154	575	—	0	0	—	—	—	0	1	—	_
Virginia <sup>¶</sup> West Virginia	6	2 9	119 32	28 281	981 479	_	0 0	0 0	_	1	_	0 0	0 0	_	1
E.S. Central	_	14	28	372	829	_	0	7	8	10	_	0	7	3	24
Alabama <sup>¶</sup> Kentucky	N	14 0	28 0	370 N	819 N	_	0 0	3 1	_	_	_	0 0	2 0	_	3
Mississippi	_	0	1	2	10	—	0	4	7	6	—	0	7	3	17
Tennessee <sup>1</sup> W.S. Central	N	0 122	0 747	N 4,991	N 6,021	_	0 0	2 8	1 14	4 20	_	0 0	3 6	1	4 26
Arkansas <sup>¶</sup>	—	4	47	96	468	_	Ō	ĩ	1	5	_	Ō	0	_	2
Louisiana Oklahoma	N	1 0	6 0	58 N	55 N	_	0	3 1	3	3 2	_	0 0	5 1	_	9 4
Texas <sup>¶</sup>	—	115	721	4,837	5,498	—	0	6	10	10	—	0	4	1	11
Mountain Arizona	4	33 0	83 0	918	1,438	_	0	12 10	13 6	21 9	_	0	22 8	7 1	50 5
Colorado	4	13	44	349	575	—	0	4	1	4	—	0	10	3	17
Idaho¶ Montana¶	N	0 2	0 20	N 105	N 216	_	0	1	1	2	_	0 0	6 2	_	13 2
Nevada¶	Ν	0	0	N	N	—	0	2	3	4	—	0	3	3	3
New Mexico <sup>¶</sup> Utah	_	3 12	20 31	134 330	153 484	_	0 0	1 2	_	1 1	_	0 0	1 5	_	8
Wyoming <sup>¶</sup>	—	0	1	—	10	—	0	1	1	—	—	0	2		2
Pacific Alaska	_	3 2	12 11	106 83	82 41	_	0	38 0	3	77	_	0 0	23 0	2	49
California	—	0	0	—	_	—	0	37	3	77	_	0	18	2	46
Hawaii Oregon <sup>¶</sup>	N	1 0	4 0	23 N	41 N	_	0 0	0 2	_	_	_	0 0	0 4	_	3
Washington	Ν	0	0	Ν	N	—	0	1	—	—	—	0	1	—	_
American Samoa C.N.M.I.	N	0	0	N	N	_	0	0	_	_	_	0	0	_	_
Guam		1	3		55	—	0	0	—	_	_	0	0	_	—
Puerto Rico U.S. Virgin Islands	2	8 0	23 0	276	389	_	0 0	0 0	_	_	_	0 0	0	_	_
		0					0	0				0	0		

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending August 8, 2009, and August 2, 2008 (31st week)\*

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

U: Unavailable. —: No reported cases. N: Not reportable. Cum: Cumulative year-to-date counts. Med: Median. Max: Maximum. \* Incidence data for reporting year 2008 and 2009 are provisional. Data for HIV/AIDS, AIDS, and TB, when available, are displayed in Table IV, which appears quarterly. † Updated weekly from reports to the Division of Vector-Borne Infectious Diseases, National Center for Zoonotic, Vector-Borne, and Enteric Diseases (ArboNET Surveillance).

Data for California serogroup, eastern equine, Powassan, St. Louis, and western equine diseases are available in Table I.

<sup>§</sup> Not reportable in all states. Data from states where the condition is not reportable are excluded from this table, except starting in 2007 for the domestic arboviral diseases and influenza-associated pediatric mortality, and in 2003 for SARS-CoV. Reporting exceptions are available at http://www.cdc.gov/epo/dphsi/phs/infdis.htm. <sup>1</sup> Contains data reported through the National Electronic Disease Surveillance System (NEDSS).

#### TABLE III. Deaths in 122 U.S. cities,\* week ending August 8, 2009 (31st week)

		All cau	uses, by a	age (yea	rs)				All causes, by age (years)						
Reporting area	All Ages	≥65	45–64	25–44	1–24	<1	P&I <sup>†</sup> Total	Reporting area	All Ages	≥65	45–64	25–44	1–24	<1	P&I <sup>†</sup> Total
New England	427	276	91	39	9	12	39	S. Atlantic	1,168	728	320	79	16	24	77
Boston, MA	132	75	36	13	1	7	9	Atlanta, GA	137	86	41	7	1	2	12
Bridgeport, CT	40	26	8	2	1	3	9	Baltimore, MD	122	67	39	12	3	1	6
Cambridge, MA	9	9	_	_	_	—	1	Charlotte, NC	118	70	38	6	2	2	10
Fall River, MA	26	22	2	2	_	—	2	Jacksonville, FL	169	116	36	10	2	4	11
Hartford, CT Lowell, MA	53 22	33 16	10 4	8 2	2	_	5	Miami, FL Norfolk, VA	109 48	65 30	27 13	10 3	4 1	3 1	9 3
Lynn, MA	22	6	4	2	_	_	_	Richmond, VA	40 49	30 24	18	3	1	3	3
New Bedford, MA	31	23	7		1	_	1	Savannah, GA	53	34	13	4	_	2	4
New Haven, CT	13	8	4	1	_	_	2	St. Petersburg, FL	52	34	15	3	_		5
Providence, RI	Ŭ	Ŭ	U	Ŭ	U	U	Ū	Tampa, FL	185	120	50	13	_	2	10
Somerville, MA	3	1	1	1			_	Washington, D.C.	110	70	27	7	2	4	2
Springfield, MA	24	8	9	4	1	2	_	Wilmington, DE	16	12	3	1	_	_	2
Waterbury, CT	21	16	4	1	_	—	4	E.S. Central	802	513	200	54	25	10	61
Worcester, MA	44	33	5	3	3	_	6	Birmingham, AL	155	102	29	15	4	5	11
Mid. Atlantic	1,674	1,133	367	101	43	30	72	Chattanooga, TN	89	65	13	6	5	—	9
Albany, NY	39	26	8	2	3	—	3	Knoxville, TN	110	74	28	7	_	1	11
Allentown, PA	31	25	6	_	_		2	Lexington, KY	69	41	24	3		1	5
Buffalo, NY	82	43	27	7	4	1	6	Memphis, TN	104	63	32	5	4	_	8
Camden, NJ	28	18	6	1	2	1	—	Mobile, AL	77	47	21	5	3	1	3
Elizabeth, NJ	14	12	1	1	1	_	2	Montgomery, AL	39	24	11	1	2	1	4
Erie, PA	46 29	33 19	9 9	3 1	1	_	2	Nashville, TN W.S. Central	159	97	42 298	12 85	7 31	1 26	10 47
Jersey City, NJ New York City, NY	29 907	615	9 199	59	19	15	2 36	Austin. TX	1,066 67	626 41	298 17	85 4	3	20 2	47
Newark, NJ	907 34	14	199	59	3	15		Baton Rouge, LA	70	41	17	3	1		
Paterson, NJ	4	3		_	_	1	_	Corpus Christi, TX	52	37	12	3	_	_	5
Philadelphia, PA	117	63	37	6	7	4	2	Dallas, TX	168	96	49	9	9	5	9
Pittsburgh, PA§	35	24	5	2	1	3	1	El Paso, TX	69	42	15	6	4	2	1
Reading, PA	37	31	4	2	_	_	5	Fort Worth, TX	Ŭ	Ü	Ŭ	Ŭ	Ů	Ū	Ů
Rochester, NY	111	91	13	3	1	3	4	Houston, TX	243	108	93	26	5	11	8
Schenectady, NY	18	13	4	1	_	_	2	Little Rock, AR	78	44	26	6	1	1	3
Scranton, PA	25	21	3	1	—	—	1	New Orleans, LA	U	U	U	U	U	U	U
Syracuse, NY	71	54	12	4	_	1	4	San Antonio, TX	168	116	33	12	3	4	10
Trenton, NJ	20	11	6	1	2	—	—	Shreveport, LA	59	35	16	6	2	—	5
Utica, NY	11	8	2	1	—	—	1	Tulsa, OK	92	58	20	10	3	1	3
Yonkers, NY	15	9	5	1			1	Mountain	1,031	655	245	81	28	20	56
E.N. Central	1,799	1,143	436	119	52	49	117	Albuquerque, NM	104	64	21	13	4	2	2
Akron, OH	56	28	18	4	2	4	1	Boise, ID	27	18	7	2	_		1
Canton, OH	36	24	9	3			2	Colorado Springs, CO	167	108	40	9	9	1	9
Chicago, IL Cincinnati, OH	402 113	186 64	120 30	60 9	21 6	15 4	33 9	Denver, CO	67 228	37 150	19 50	8 17	2 5	1 5	5 17
Cleveland, OH	180	125	43	8	1	4	10	Las Vegas, NV Ogden, UT	35	24	50 9	1	5	1	4
Columbus, OH	199	146	33	8	9	3	18	Phoenix, AZ	165	24 91	51	12	4	7	7
Dayton, OH	107	75	25	3	_	4	5	Pueblo, CO	35	21	10	4	_	_	3
Detroit, MI	Ű	Ű	Ū	Ŭ	U	Ů	Ŭ	Salt Lake City, UT	87	57	17	7	3	3	5
Evansville, IN	41	36	4	1	_	_	3	Tucson, AZ	116	85	21	8	1	_	3
Fort Wayne, IN	63	40	19	3	_	1	2	Pacific	1,526	1,046	323	87	33	36	128
Gary, IN	9	8	_	_	_	1	3	Berkeley, CA	9	6	3	_	_	_	1
Grand Rapids, MI	38	24	8	1	3	2	2	Fresno, CA	135	98	24	7	4	2	20
Indianapolis, IN	195	123	45	9	7	11	15	Glendale, CA	36	25	10	1	_	_	6
Lansing, MI	39	28	10	1	_	_	3	Honolulu, HI	73	43	13	8	3	6	7
Milwaukee, WI	91	57	31	2	1	—	—	Long Beach, CA	69	48	17	2	1	1	8
Peoria, IL	U	U	U	U	U	U	U	Los Angeles, CA	237	150	45	21	11	10	26
Rockford, IL	47	34	10	2	1	—	2	Pasadena, CA	11	8	3	_	_		1
South Bend, IN	35	27	6	1	1	_	2	Portland, OR	112	76	28	5	2	1	6
Toledo, OH	102	76	23	2	_	1	2 5	Sacramento, CA	155	113	32	6	1	3	9
Youngstown, OH W.N. Central	46 489	42 321	2 103	2 34	13	 17	5 13	San Diego, CA San Francisco, CA	149 90	106 54	28 26	7 4	3 1	4 5	9 9
Des Moines, IA	489 U	321 U	103 U	34 U	U	U	U	San Francisco, CA San Jose, CA	90 154	54 121	20 22	4	3	э 1	9 11
Duluth, MN	22	17	5				1	Santa Cruz, CA	27	121	22	3	3		1
Kansas City, KS	22	10	9	3		1	_	Seattle, WA	116	76	32	4	1	3	6
Kansas City, NO	109	69	28	8	_	4	2	Spokane, WA	52	37	14	1	_	_	3
Lincoln, NE	35	26	7	1	1	-	1	Tacoma, WA	101	70	14	11	2	_	5
Minneapolis, MN	58	41	8	5	2	2	4	Total <sup>¶</sup>	9,982	6,441	2,383	679	250	224	610
Omaha, NE	53	34	11	5	_	3	3		0,002	-,	_,500				515
St. Louis, MO	87	55	17	6	4	4	_	1							
St. Paul, MN	43	30	10	2	_	1	2								

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

<sup>5</sup> Because of changes in reporting methods in this Pennsylvania city, these numbers are partial counts for the current week. Complete counts will be available in 4 to 6 weeks. <sup>1</sup> Total includes unknown ages.

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