



Morbidity and Mortality Weekly Report

www.cdc.gov/mmwr

Weekly

August 14, 2009 / Vol. 58 / No. 31

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.†

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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^{*}Additional information available at http://www.uhms.org/cdc/tabid/418/default.aspx.

[†] Additional information available at http://www.cdc.gov/biosense.

The MMWR series of publications is published by the Coordinating Center for Health Information and Service, Centers for Disease Control and Prevention (CDC), U.S. Department of Health and Human Services, Atlanta, GA 30333.

Suggested Citation: Centers for Disease Control and Prevention. [Article title]. MMWR 2009;58:[inclusive page numbers].

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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. §

Poison Center Calls

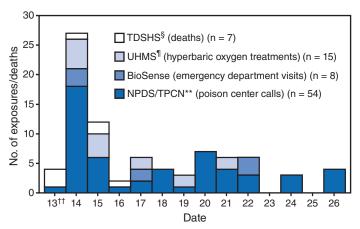
Calls to poison centers regarding 54 storm-related CO exposures were reported to CDC during September 13–26 (Figure). The median age of the exposed persons was 24 years (range: 1 month–71 years), and most (64.8%) were women (Table). Headache (63%), nausea (44%), and vomiting (28%) were the most commonly 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

[§] Chief complaints could include "carbon monoxide," "CO exp," "CO intox," "CO poisoning," "CO₂ poisoning," "COpoisoning," "exposicion a monoxido de carbono," "monoxido de carbono," and "O₂ poisoning."

FIGURE. Number of storm-related carbon monoxide exposures/deaths after Hurricane Ike, by date and data source[†] — 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.
- [†] 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.
- 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.
- †† 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 well-ventilated 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

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

	(poison c	/TPCN [§] enter calls) = 54)	oxygen tr	nyperbaric eatments) = 15)	departme	emergency ent visits) = 8)	(dea	6HS** aths) = 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	(0)
Race		` ,		` ,		` '		(-)
Black	§§		5	(33)	_		0	(0)
White	_		10	(67)	_		3	(43)
Unknown	_		0	(0)	_		4	(57)
Ethnicity			· ·	(0)			•	(0.)
Hispanic	_		3	(20)	_		5	(71)
Non-Hispanic			12	(80)			2	(29)
•	_		12	(00)	_		2	(23)
Primary language			44	(70)				
English	_		11	(73)	_		_	
Spanish	_		2	(13)	_		_	
Unknown	_		2	(13)	_		_	
Exposure source								
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¶¶	19	(35)	_	` ,	_	, ,	_	
Other	2	(4)	_		_			
Unknown	6	(11)	5	(33)	0	(0)		

^{*} 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.

[†] 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.

 $[\]P$ Undersea and Hyperbaric Medical Society.

^{**} Texas Department of State Health Services.

^{††} Percentages might not sum to 100% because of rounding.

^{§§} Data not collected.

 $[\]P\P$ 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.

Acknowledgments

The findings in this report are based, in part, on contributions by J Wiersema, PhD, S Derrick, PhD, J Coston, B Begay, Harris County Medical Examiner Office; S Pustilnik, MD, Galveston County Medical Examiner Office; D Wiltz-Beckham, DVM, Galveston County Health District; T Brown, MD, P Moore, MD, S Jones, Southeast Texas Forensic Center; participating hospitals; V Harris, K Shofner, T Haywood, R Taylor, PhD, A Valadez, MD, members of the Disaster Surveillance Workgroup, Texas Dept of State Health

Svcs; and T Bayleyegn MD, National Center for Environmental Health, CDC.

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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

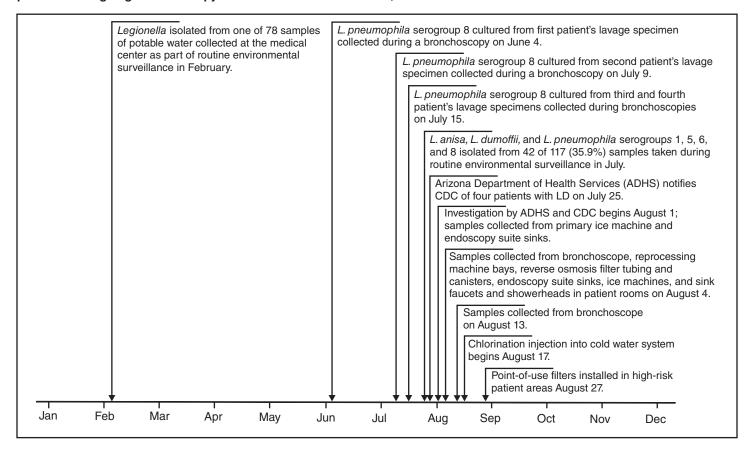
The diagnosis of LD in the four patients was based on isolation of Legionella pneumophila from lavage specimens that had been collected as part of routine Legionella surveillance (Table 1). None of the patients had urine antigen or serologic testing for LD. All patients had undergone bronchoscopy using 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,

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

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	L. pneumophila 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	L. pneumophila 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,† viridans group Streptococcus,† yeast	Levofloxacin	Legionellosis
4	41	Male	Pneumonia, infiltrates§	Persistent pneumonia	July 15	Lung infiltrates detected on chest radiograph	L. pneumophila serogroup 8 [†]	None	Pneumonia, infiltrates§

^{*} Methicillin-resistant Staphylococcus aureus.

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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Editorial Note: Water stagnation, low residual disinfection, and warm temperatures can promote Legionella colonization in large, complex potable water systems at hospitals and other facilities (4). Persons of advanced age, or who smoke, have chronic pulmonary disease, immunosuppression, malignancy, or certain other underlying conditions (e.g., end-stage renal disease or diabetes mellitus) are at increased risk for LD (2). This investigation determined that none of the four patients had LD and that the most likely cause of the pseudo-outbreak was the use of contaminated, nonsterile ice for cooling salinefilled syringes during bronchoalveolar lavage. Taken alone, certain radiographic evidence from the patients could be suggestive of LD; each had a pulmonary abnormality (e.g., infiltrate or nodule) or pneumonia diagnosis on admission that was an indication for the bronchoscopy. However, the clinical presentations and courses of illness for each patient were inconsistent with LD. None of the patients had high fever and severe illness, which are hallmarks of LD. Patient 1 did not have a definitive discharge diagnosis (i.e., acute and chronic respiratory failure), and her illness was not compatible with a diagnosis of LD. Patients 2 and 4 also had courses inconsistent with LD; patient 4 did not receive specific antimicrobial treatment for LD and subsequently was not admitted to the center's health-care system. Although patient 3 received a discharge diagnosis of legionellosis based on findings from the bronchoalveolar lavage specimen, he did not have a clinical course or radiographic findings compatible with LD. In addition, the isolation of multiple pathogens in patients 1 and 3 and scant

[†] Scant growth.

[§] Outpatient visit.

TABLE 2. Legionella culture results from environmental sampling at a medical center — Arizona, August 2008

			· •	
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 [†]	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 [†]	Swab, water	Not detected

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

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).

[†]L. pneumophila (serogroup 6) was detected in sterile water flushed through the bronchoscope and collected on July 25.

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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

^{*}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.

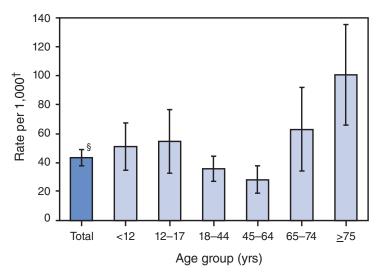
Reference

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

QuickStats

FROM THE NATIONAL CENTER FOR HEALTH STATISTICS

Annual Rate of Nonfatal, Medically Attended Fall Injury Episodes,* by Age Group — National Health Interview Survey, United States, 2007



- * A medically attended injury is one for which a health-care professional was contacted either in person or by telephone for advice or treatment. An injury episode refers to a traumatic event in which the person experienced one or more injuries because of an external cause. Based on household interviews of a sample of the civilian, noninstitutionalized U.S. population.
- † Age group populations based on 2000 U.S. Census and quarterly updates.
- § 95% confidence interval.

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.

TABLE 2. Reported cases of notifiable diseases,* by geographic division and area — United States, 2008

	Total resident			Botul	ism		
Area	population (in thousands)	AIDS†	Total	Foodborne	Infant	Other§	- Brucellosis
Jnited 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 Magazahuaatta	1,317 6,450	30 622		_		_	_
Massachusetts New Hampshire	1,316	30		_		_	_
Rhode Island	1,058	88	1	_	1	_	_
Vermont	621	10	_	_	_	_	_
/lid. 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 1	_	1 2
Pennsylvania	12,433	1,244	18	_	18	_	2
.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
					_	_	
V.N. Central Iowa	20,051 2,988	913 71	5 1	1	4 1	_	4 2
Kansas	2,776	122	<u>'</u>	_	<u>.</u>	_	_
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	_		<u></u>	_	
District of Columbia	588	767	_	_	_	_	1
Florida	18,251	5,064	1	_	1	_	10
Georgia Maryland	9,545 5,618	2,153 2,389		_	<u> </u>	_	<u>1</u>
North Carolina	9,061	1,384	1	_	1	_	1
South Carolina	4,408	723	1	_	i	_	i
Virginia	7,712	698	3	-	3	_	_
West Virginia	1,812	67	2	1	1	_	_
E.S. Central	17,945	1,640	_	_	_	_	1
Alabama Kentucky	4,628 4,241	402 293	_	_	_	_	_
Mississippi	2,919	356	_	_	_	_	_
Tennessee	6,157	589	_	_	_	_	1
V.S. Central	34,649	4,001	8	_	8	_	10
Arkansas	2,835	100	_	_	_	_	_
Louisiana	4,293	903	_	_	_	_	1
Oklahoma Texas	3,617 23,904	137 2,861	8	_	<u> </u>	 N	9
/lountain Arizona	21,361 6,339	1,486 570	19 4	1 1	17 2	1 1	9 3
Colorado	4,862	343	3		3		2
Idaho	1,499	31	1	_	1	_	_
Montana	958	48	3	_	3	_	_
Nevada New Mexico	2,565 1,970	307 109		_		N	1
Utah	2,645	65	5	_	5	_	i
Wyoming	523	13	1	_	1	_	1
acific	48,735	5,539	67	10	39	18	29
Alaska	684	27	7	7	_	_	_
California	36,553	4,818	55	3	36	16	23
Hawaii Oregon	1,283 3,747	97 207		_		_	4 1
Washington	6,468	390	3	_	1		i
merican Samoa	64	_	_		<u>.</u>	_	
C.N.M.I.	59	1	_	_	_	_	_
Guam	174	7	_	U	U	U	U
Puerto Rico J.S. Virgin Islands	3,942	704	_	_	_	_	_
	110	12					

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.

[†] 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.

[¶] Includes 672 cases of AIDS in persons with unknown state or area of residence that were reported in 2008.

TABLE 2. (Continued) Reported cases of notifiable diseases,* by geographic division and area — United States, 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	_	12,519	_	N	41	4
Maine	_	2,608	_	N	46	Ñ
Massachusetts	<u>4</u>	17,503	_	N 1	172 60	5 1
New Hampshire Rhode Island	_	2,109 3,317	_		10	
Vermont	<u> </u>	1,190	_	N	64	N
	0		4			
Mid. Atlantic New Jersey	<u>2</u>	152,997 22,405	1 1	N	742 40	33 9
New York (Upstate)	2	31,881		N	269	6
New York City	_	56,478	_	N	107	18
Pennsylvania	_	42,233	_	N	326	N
.N. Central	1	194,359	1	44	2,163	9
Illinois	<u>.</u>	59,169	i	Ň	205	4
Indiana	_	22,154	_	N	203	2
Michigan	_	44,923	_	31	280	1
Ohio	1	47,117	_	13	689	1
Wisconsin	_	20,996	_	N	786	1
N.N. Central	_	68,198	_	3	1,002	4
lowa	_	9,372	_	N	284	_
Kansas Minnesota	_	9,208 14,351	_	<u>N</u>	84 236	3
Missouri	_	24,817	_	3	181	<u> </u>
Nebraska	_	5,573	_	Ň	113	N
North Dakota	_	1,921	_	Ň	16	N
South Dakota	_	2,956	_	N	88	1
S. Atlantic	5	247,480	_	5	1,071	70
Delaware	_	3,868	_	2	12	_
District of Columbia	_	6,924	_	_	15	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	i
Virginia	<u>.</u>	31,218	_	Ň	81	2
West Virginia	_	3,316	_	N	25	_
E.S. Central	_	86,214	_	_	174	3
Alabama	_	24,760	_	N	74	Ň
Kentucky	_	12,163	_	N	36	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	_	22,659	1	3	67	_
Oklahoma	8	14,803	<u> </u>	N N	143	<u> </u>
Texas		100,870			2,240	
Mountain	2	77,774	_	4,870	580	3
Arizona Colorado		24,769 19,180	_	4,768 N	89 112	
Idaho		4,194	_	N N	72	N N
Montana	_	3,101	_	N	44	N
Nevada	_	9,670	_	52	17	Ň
New Mexico	_	9,262	_	35	175	2
Utah	_	6,021	_	12	48	_
Wyoming	_	1,577	_	3	23	_
Pacific	3	191,787	1	2,597	443	1
Alaska	_	4,861	_	N	3	_
California	2	148,798	_	2,597	275	_
Hawaii	_	5,982	_	N	2 64	_
Oregon Washington	_ 1	10,744 21,402	1	N N	64 99	1
•	1	21,702	_			
American Samoa	_	_	_	N	N	N
C.N.M.I. Guam	_	687	U	 U	U	U
Puerto Rico	_	6,874	_	Ň	N	N
querto Rico						

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

TABLE 2. (Continued)	<u> </u>			Domestic arboviral				
		ı serogroup disease	Eastern equine encephalitis virus disease	Powassan virus disease	encer	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 Vermont	_	_	_	_		_	1	_
Mid. Atlantic	5	1	_	1		1	50	20
New Jersey	_	_	_		_		6	4
New York (Upstate)	5	1	_	1	_	_	24	7
New York City Pennsylvania	_	_	_	_		<u> </u>	8 12	7 2
E.N. Central	13	2	_	_	_		44	20
Illinois	_	_	_	_	_	_	12	8
Indiana	_	_	_	_	_	_	3	1
Michigan Ohio	9	_	_	_		_	11 14	6 1
Wisconsin	4	2	_	_	_	_	4	4
W.N. Central	1	_	_	1	_	1	51	134
lowa	_	_	_	_	_	_	3	3
Kansas Minnesota	<u> </u>	_	_	<u> </u>	_	_	14 2	17 8
Missouri		_	_	<u>.</u>	_	1	12	3
Nebraska	_	_	_	_	_	_	7	40
North Dakota South Dakota	_		_	_	_	_	2 11	35 28
S. Atlantic	27	1	2	_	3	_	20	20
Delaware	_		_	_	_	_	<u> 20</u>	1
District of Columbia	_	_	-	_	_	_	4	4
Florida Georgia		1	1	_		_	3 4	_ 4
Maryland	_	_	_	_	_	_	6	8
North Carolina	9	_	1	_	3	_	2	1
South Carolina Virginia		_	_	_		_	_	1 1
West Virginia	14	_	_	_	_	_	1	
E.S. Central	8	3	1	_	_	_	48	57
Alabama	_	_	1	_	_	_	11	7
Kentucky Mississippi	1 1	_ 3	_	_	_	_	3 22	<u> </u>
Tennessee	6	_	_	_	_	_	12	7
W.S. Central	1	_	_	_	5	2	69	62
Arkansas	_	_	_	_	4	_	7	2
Louisiana Oklahoma	1	_	_	_	1	2	18 4	31 5
Texas	_	_	_	_	_	_	40	24
Mountain	_	_	_	_	_	_	103	184
Arizona Colorado	_	_	_	_	_	_	62	52 54
Idaho	_	_	_	_	_	_	17 4	35
Montana	_	_	_	_	_	_	_	5
Nevada New Mexico	_	_	_	_	_	_	9 5	7 3
Utah	_	_	_	_	_	_	6	20
Wyoming	_	_	_	_	_	_	_	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.

†† 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**	
Inited States	957	9	1,009	132	18,908	336,742	
ew England	42	_	197	1	1,660	5,470	
Connecticut	2	_	45	_	334	2,801	
Maine Massachusetts	1 21	_	17 85	_	188 678	96 2,129	
New Hampshire	7	_	14	_	160	100	
Rhode Island	11	_	36	1	90	307	
/ermont	_	_	_	_	210	37	
id. Atlantic	123	1	303	10	3,532	33,477	
New Jersey	54	_	45	3	520	5,298	
New York (Upstate) New York City	61 5	<u> </u>	239 17	3	1,282 851	6,615 10,493	
Pennsylvania	3		2	4	879	11,071	
.N. Central	58	_	205	31	2,743	69,397	
Illinois	28	_	3	3	705	20,674	
ndiana	4	_	_	_	N	8,769	
Michigan	3	_	_	_	611	17,064	
Ohio Missonsin	11		1	 28	904 523	16,803	
Wisconsin	12		201			6,087	
/.N. Central lowa	212 N	6 N	281 N	69 N	2,106 326	17,003 1,700	
Kansas				<u> </u>	162	2,274	
Minnesota	14	1	278	43	769	3,037	
Missouri	195	5	1	26	468	8,014	
Nebraska	3	Ŋ	1	N	209	1,460	
North Dakota South Dakota	N 	N 	N 1	<u>N</u>	36 136	143 375	
. Atlantic Delaware	207 19	1 1	15 4	<u>5</u>	3,119 42	86,462 1,045	
District of Columbia	N N	N	N N	N	72	2,656	
Florida	10		2		1,391	23,326	
Georgia	19	_	1	_	691	16,272	
Maryland	61	_	4	1	284	6,666	
North Carolina South Carolina	34 1	_	2	4	N 136	15,972 9,442	
Virginia	63	_	2	_	432	10,337	
West Virginia	_	_	_	_	71	746	
.S. Central	86	_	_	14	506	30,562	
Alabama	9	_	N	Ň	281	9,740	
Kentucky	13	_	_	_	N	4,548	
Mississippi Tennessee	<u> </u>	_	_	 14	N 225	7,494 8,780	
I.S. Central Arkansas	229 87	1	8 N	N	473 143	51,353 4,514	
Louisiana	-	1	<u></u>		150	9,455	
Oklahoma	114	_	7	_	180	5,185	
Гехаѕ	28	_	1	_	N	32,199	
ountain	_	_	_	2	1,661	11,691	
Arizona	N	N	N	2 N	142 564	3,449	
Colorado daho	N N	N N	N N	N N	564 211	3,757 187	
Montana	N	N	N	N	93	122	
Nevada	N	N	N	N	121	2,172	
New Mexico	N	N	N	N	107	1,403	
Jtah Myoming	_	_	_	_	374 49	477 124	
Vyoming	_	_	_	_			
acific	NI NI				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	Ň	Ň	42	610	
Oregon	_	_	_	_	455	1,225	
Vashington	N	N	N	N	486	3,127	
merican Samoa	N	N	N	N	_	=	
N.M.I.	 U		U				
uam uerto Rico	U N	U N	U N	U N	227	109 273	
10110 11100	N	N	N	N	££1	120	

N: Not reportable.

U: Unavailable.

—: No reported cases.

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

		Haemophilus inf	<i>luenzae,</i> 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	1	10	2	8		15
Connecticut	54	_	4	_	3	N	5
Maine Massachusetts	21 83	_ 1	2 3	<u> </u>	N 5	_	1 6
New Hampshire	12		_	i	_	_	1
Rhode Island	17	_	1	_	_	_	_
Vermont	9	_	_	_	N	_	2
Mid. Atlantic	554	2	16	38	9	_	15
New Jersey	98	_	45	10	1	_	3
New York (Upstate) New York City	171 90	2	15	2 9	N 8	_	7 5
Pennsylvania	195	_	1	17	_	_	Ň
E.N. Central	483	8	35	30	3	_	28
Illinois	157	_	_	16	1	_	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 Iowa	211 2	<u>5</u>	<u>5</u>	21 —	4 1	2 1	48 16
Kansas	20	_	_	2	<u>.</u>	<u>.</u>	3
Minnesota	71	5	5	2	1	_	11
Missouri	72	_	_	15	1	_	13
Nebraska	30 16	_	_	2	N	<u> </u>	1 1
North Dakota South Dakota	——————————————————————————————————————	_	_	_	1		3
S. Atlantic	714	4	77	22	11		36
Delaware	8	4		2	-	_	- 30
District of Columbia	8	_	_	_	_	_	_
Florida	191	1	22	2	10	_	5
Georgia	149 97	_ 1	14 12	10	<u>N</u>	_	19 1
Maryland North Carolina	81	1	11		_	_	7
South Carolina	62	<u>.</u>	8	3	1	_	2
Virginia	92	1	8	3	_	_	2
West Virginia	26	_	2	_	N	_	_
E.S. Central	1 <u>51</u>	2	7	11	_		25
Alabama	25	1	2	<u> </u>	_	N	5 N
Kentucky Mississippi	10 14	1	_ 1		_	_	<u>N</u>
Tennessee	102	<u>.</u>	4	10	_	_	20
W.S. Central	132	2	11	4	3	2	69
Arkansas	132 15	_	3	1	_	_	5
Louisiana	13	_	1	3	2	2	_1
Oklahoma Texas	93 11		7	_	1	_	51 12
Mountain Arizona	297 107	5 3	49 23	16 3	4	12 1	32 6
Colorado	60	_	6	2	1	6	6
Idaho	12	_	3	3		_	4
Montana	5	_	1	2	_	2	_
Nevada	16 50	_	1	_	_		N
New Mexico Utah	50 43	1 1	3 12	6	1 2	1	6 10
Wyoming	43		_	_	_		-
Pacific	148	1	34	19	38	2	62
Alaska	21		_	8	_	N	N
California	46	1	32	6	20	_	46
Hawaii	22	_	_	1	18	_	1
Oregon	57 2	_		4	N N		13 2
Washington	2	_	2	_			
American Samoa C.N.M.I.	_	_	_	_	1_	<u>N</u>	<u>N</u>
Guam		U	U	U	U	U	U
Puerto Rico	1	_	_	_	_	Ň	Ň
ruello nico							

N: Not reportable.

U: Unavailable.

—: No reported cases.
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

	Нера	titis, viral,	acute	Influenza- associated pediatric				Lyme disease¶	1	
Area	Α	В	С	mortality§§	Legionellosis	Listeriosis	Total	Confirmed	Probable	Malaria
United States	2,585	4,033	877	90	3,181	759	35,198	28,921	6,277	1,255
New England	128	81	37	9	231	63	11,601	9,205	2,396	61
Connecticut Maine	26 18	30 15	19 3	2 1	47 11	16 5	3,896 908	2,738 780	1,158 128	14 1
Massachusetts	58	21	13	4	91	30	4,582	3,960	622	33
New Hampshire Rhode Island	12 12	8 4	N 1	1	30 47	6 5	1,601 210	1,211 186	390 24	5 3
Vermont	2	3	1	1	5	1	404	330	74	5 5
Mid. Atlantic	333	448	131	13	1,061	168	15,097	12,773	2,324	337
New Jersey New York (Upstate)	86 66	118 73	61	1 3	150 360	34 48	3,485 6,986	3,214 5,203	271	65 42
New York City	113	100	43 —	5	143	30	808	5,203	1,783 270	188
Pennsylvania	68	157	27	4	408	56	3,818	3,818	_	42
E.N. Central Illinois	335 112	536 184	195 10	12 6	667 121	104 28	2,321 108	1,759 108	562 —	152 77
Indiana	20	67	13	1	60	10	42	42	=	5
Michigan	119	149	129	1	179	20	92	76	16	18
Ohio Wisconsin	51 33	118 18	40 3	1 3	268 39	29 17	45 2,034	40 1,493	5 541	31 21
W.N. Central	255	107	27	5	145	31	1,438	1,172	266	72
lowa	109 15	24 9	_ 1	2	21 2	1 6	109 16	85 16	24	12 9
Kansas Minnesota	49	25	22	3	25	8	1,282	1,046	236	29
Missouri	35	38	2	_	70	11	6	6	_	14
Nebraska North Dakota	41 2	9 2	2	_	21 3	4	12 10	8 8	4 2	8
South Dakota	4	_	_	_	3	1	3	3	_	_
S. Atlantic	393	981	150	13	508	147	4,331	3,732	599	303
Delaware District of Columbia	7 U	U U	U U		13 16	2	772 74	772 71	3	3 7
Florida	146	344	32	4	148	50	88	72	16	65
Georgia	57 44	187 85	16 22	4 1	43 143	26 17	35 2,218	35 1,746	— 472	57 80
Maryland North Carolina	63	81	46	1	37	25	47	1,746	31	31
South Carolina	19	71	4	_	12	7	29	14	15	9
Virginia West Virginia	51 6	130 83	8 22	3	66 30	17 3	933 135	886 120	47 15	49 2
E.S. Central	81	409	109	7	119	29	46	19	27	27
Alabama	12	109	13	_	18	4	9	6	3	5
Kentucky Mississippi	30 7	101 50	68 —	1 4	58 1	7 4	5 1	5 1	_	6 1
Tennessee	32	149	28	2	42	14	31	7	24	15
W.S. Central	294	852	89	12	117	60	158	109	49	97
Arkansas Louisiana	10 12	67 94	1 9	1	14 11	5 11	3	3	_	1 4
Oklahoma	13	129	20	2	11	7	2	1	1	5
Texas	259	562	59	9	81	37	153	105	48	87
Mountain Arizona	219 118	202 80	62 —	9 2	100 26	28 8	65 8	32 2	33 6	36 15
Colorado	36	33	14	2	14	8	3	2	1	5
Idaho Montana	17 1	12 2	3 6	_	3 4	1	9 17	5 6	4 11	3
Nevada	13	43	22	2	13	i	12	9	3	5
New Mexico Utah	18 13	12 14	5 12	1 2	11 29	5 2	8 5	4 3	4 2	3 5
Wyoming	3	6	<u></u>	_		2	3	1	2	_
Pacific	547	417	77	10	233	129	141	120	21	170
Alaska California	5 446	10 303	 29	1 6	3 185	3 88	6 74	6 74	_	6 125
Hawaii	20	7	_	_	8	3	N	_	_	3
Oregon Washington	25 51	41 56	23 25	1 2	18 19	6 29	38 23	18 22	20 1	4 32
Washington American Samoa				_	N	29 N	23 N		_	- -
C.N.M.I.	_	_	_	_	_	_	_	_	_	_
Guam Puerto Rico	U 27	U 50	<u>U</u>	_	<u>U</u>	U	U N	_	_	U 2
U.S. Virgin Islands	_	_	_	_	_	_	N	_	_	_
N: Not reportable	U: Unavailabl		No reported case	- 011111	Commonwealth of N	arthara Mariana				

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.

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

					Men	ingococcal disea	ise	
Area	Total	Measles Indigenous	Imported***	All serogroups	Serogroup A, C, Y, and W-135	Serogroup B	Other serogroup	Serogroup unknown
United States	140	115	25	1,172	330	188	38	616
New England	2	1	1	38	15	20	_	3
Connecticut	_	_	_	1	1	_	_	_
Maine Massachusetts		<u>_</u>	<u> </u>	6 24	3 8	3 14	_	
New Hampshire	_	_	_	5	1	3	_	1
Rhode Island Vermont	_	_	_	2	2	_	_	_
Mid. Atlantic	32	23	9	128	 27	12	_	89
New Jersey	1		1	17	_	- IZ	_	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 Mishigan	4	4	_	27 35	18 15	8 4	<u>_</u>	1 15
Michigan Ohio	_	_	_	40	23	11	1	5
Wisconsin	6	4	2	21	8	9	1	3
W.N. Central	1	1	_	105	39	23	2	41
lowa Kansas	_	_	_	19 8	12 1	6	_	1 7
Minnesota	_	_	_	30	13	13	1	3
Missouri	1	1	_	26	8	_	_	18
Nebraska North Dakota	_	_	_	13 6	<u>4</u>	<u>3</u>	<u>1</u>	5 6
South Dakota	_	_	_	3	1	1	_	1
S. Atlantic	4	1	3	157	64	43	10	40
Delaware District of Columbia	<u>_</u>	<u>_</u>	_	2				2
Florida	1		1	 51	24	 16	2	9
Georgia	1	_	1	18	6	10	_	2 5
Maryland North Carolina	_	_	_	19 16	8 6	3 2	3 2	5 6
South Carolina	_	_	_	22	6	10	3	3
Virginia	1		1	24 5	9 5	2	_	13
West Virginia	_	_	_		11	- 7	— 10	 27
E.S. Central Alabama	_	_	_	55 10	2	2	4	27
Kentucky	_	_	_	10	_	_	_	10
Mississippi Tennessee	_	_	_	12 23	7 2	1 4	4 2	 15
W.S. Central	3	2	1	131	58	28	9	36
Arkansas	2	2	_	16	6	2	1	7
Louisiana	1	_	1_	26 19	9 9	4 4	1 6	12
Oklahoma Texas	_	_	_	70	34	18	1	 17
Mountain	15	14	1	60	36	10	3	11
Arizona	14	13	1	9	6	2	_	1
Colorado Idaho	_	_	_	16 6	12 1	4 1	_	4
Montana	_	_	_	4	1	<u>.</u>	_	3
Nevada New Maying	<u>_</u>	_	_	7	3 7	1	1	2
New Mexico Utah		<u>1</u>	_	8 8	6	<u>_</u>	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	1		1	39			_	39
Washington	19	19	_	31	16	11	1	3
American Samoa C.N.M.I.	_	_	_	_	_	_	_	_
Guam	U	U	U	U	U	U	U	U
Puerto Rico U.S. Virgin Islands	_	_	_	3	_	_	_	3
N: Not reportable	II: Unavailable	· No reporte	-	Commonwealth of Nort			_	

^{—:} No reported cases.
C.N.M.I.: Commonwealth of Northern Mariana Islands.

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.

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 Maine	 5	_	55 49	1	<u>N</u>	_	_	_	202 64	_
Massachusetts	7	_	800	_	1	_	_	_	_	_
New Hampshire	5	_	49	_	_	_	N	N	58	_
Rhode Island Vermont		_	87 12	_	1 —	_	N	 N	34 75	_
Mid. Atlantic	71	_	1,311	_	1	17	15	2	944	_
New Jersey	13	_	246	_	1	2	2	_	_	_
New York (Upstate) New York City	19 18	_	456 114	_	_	9 6	7 6	2	500 19	_
Pennsylvania	21	_	495	_	_	_	_	_	425	_
E.N. Central	151	_	2,252	_	_	7	6	1	256	_
Illinois	91 2	_	628 270	_	_	_ 1	_	<u> </u>	104	_
Indiana Michigan	22	_	317	_	_	2	2		10 78	_
Ohio	23	_	845	_	_	1	1	_	64	_
Wisconsin	13		192	_	_	3	3	_	N	
W.N. Central lowa	50 24	<u>1</u>	2,327 257	_	_	15 —	15 N	 N	323 29	1
Kansas	2	_	106	_	_	2	2	<u></u>	68	_
Minnesota	9 8	_	1,034 561	_		5 5	5 5	_	70 64	_ 1
Missouri Nebraska	4	_	277	_	_	2	2	_	34	
North Dakota	2	-	25	_	_	_	_	_	34	_
South Dakota	1	1	67	_	_	1	1	_	24	_
S. Atlantic Delaware	49 1	_	1,068 18	_	3	9	7	2	1,650	_
District of Columbia	2	_	7	_	_	1	1	_	_	_
Florida	16 3	_	314	_	2	1 2	1 2	_	138	_
Georgia Maryland	11	_	115 164	_	_	1	1	_	386 420	_
North Carolina	6	_	94	_	-	2	2	_	N	_
South Carolina Virginia	9	_	147 198	_	1		_		620	_
West Virginia	1	_	11	_	_	_	_	_	86	_
E.S. Central	7	_	473	-	_	3	3	_	181	_
Alabama Kentucky	5 —		69 183	N		2 1	2 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 Arizona	26 5	_	885 218	2 1	_	19 4	16 3	3 1	108 N	_
Colorado	8	_	161	_	_	5	5	_	_	_
ldaho Montana	2 1	_	40 84	_	_	1	1 1	_	11 13	_
Nevada	6	_	28	_	_	2	2	_	12	_
New Mexico	_	_	94	1	_	3	3	_	30	_
Utah Wyoming	4	_	242 18	_	_	3	1	<u>2</u>	14 28	_
Pacific	55	_	1,472	_	2	24	22	2	207	1
Alaska	5	_	277	_	_	_	_	_	15	_
California Hawaii	31 4	_	534 20	_	<u>1</u>	20 3	18 3	2	179	1
Oregon	1	_	181	_	1	1	1	_	13	_
Washington	14	_	460	_	_	_	_	_	_	_
American Samoa	25	_	_	_	N	_	_	N	N	N
C.N.M.I. Guam	U	U	U	U	U	_	U	U	U	U
Puerto Rico	3	_	_	_	Ň	_	_	_	59	_
U.S. Virgin Islands	_						_		N	
N. Not reportable	U: Unavailable	 — No reporte 	00000 0	NIMI. Com	monwealth of Nort	thorn Marian	lalanda			

N: Not reportable.

U: Unavailable.

—: No reported cases.

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

	Rocky	Mountain spot	ted fever†††			Shiga		Streptococcal disease,	Streptococcal
Area	Total	Confirmed	Probable	 Rubella	Salmonellosis	toxin-producing E. Coli (STEC)§§§	Shigellosis	invasive, group A	toxic-shock syndrome
United States	2,563	190	2,367	16	51,040	5,309	22,625	5,674	157
New England	7	_	7	2	2,244	264	243	397	23
Connecticut Maine	_ 1	_	_ 1	1	491 159	47 26	40 20	118 28	21 N
Massachusetts	2	_	2	1	1,227	117	160	176	ï
New Hampshire	1	_	1	_	155	34	6	30	_
Rhode Island Vermont	3	_	3	_	115 97	10 30	12 5	29 16	_ 1
Mid. Atlantic	154	5	149	4	5,827	476	2,572	1,097	23
New Jersey	85	3	82	_	1,297	138	925	191	4
New York (Upstate) New York City	43 11	1 1	42 10		1,491 1,276	187 58	596 738	347 207	18
Pennsylvania	15	<u>.</u>	15	3	1,763	93	313	352	1
E.N. Central	150	9	141	2	5,252	876	4,339	1,018	61
Illinois Indiana	110 6	3 6	107	=	1,522 652	135 96	990 607	279 150	36 10
Michigan	3	_	3		960	219	257	186	1
Ohio	31	_	31	_	1,366	204	1,923	262	13
Wisconsin	_	_	_	2	752	222	562	141	1
W.N. Central lowa	439 8	22 1	417 7	<u>1</u>	2,878 425	837 208	953 214	401 —	10
Kansas	_	_	_	_	467	52	67	41	_
Minnesota Missouri	407	12	395	_	748 764	191 153	311 227	185 96	6 2
Nebraska	20	7	13	_	243	150	16	44	2
North Dakota	1	1	_	1	79	30	42	12	_
South Dakota	3	1	2	_	152	53	76	23	_
S. Atlantic Delaware	961 33	109 1	852 32	3	12,837 148	844 15	3,248 12	1,177 11	19 2
District of Columbia	6	3	3	_	62	6	21	15	_
Florida Georgia	19 78	1 78	18	3	5,312 2,302	146 88	801 1,103	275 273	<u>N</u>
Maryland	92	8	84	_	884	128	1,103	198	N
North Carolina	511	10	501	_	1,570	142	275	136	6
South Carolina Virginia	57 155	7 1	50 154	_	1,185 1,165	46 241	554 310	78 150	_
West Virginia	10	<u>.</u>	10	_	209	32	34	41	11
E.S. Central	338	13	321	_	3,533	286	1,959	197	4
Alabama Kentucky	93 1	2 1	91 —	_	1,013 485	65 100	427 264	N 46	N 4
Mississippi	11		11	_	1,087	5	296	N	Ň
Tennessee	233	10	219	_	948	116	972	151	_
W.S. Central Arkansas	465 129	17 2	448 127	_	8,401 797	535 59	6,127 585	598 11	
Louisiana	6	2	4	_	1,115	9	640	19	_
Oklahoma Texas	268 62	10 3	258 59	_	906 5,583	135 332	237 4,665	142 426	<u>N</u>
Mountain	46	12	32	_	3,425	635	1,261	606	 17
Arizona	17	11	6	_	1,154	69	650	204	_
Colorado	1	_	1	_	718	204	150	150	1_
Idaho Montana	1 3	_	1 3	_	200 130	149 38	14 8	16 N	 N
Nevada	3	1	2	_	241	19	228	13	3
New Mexico Utah	4 7	_	4 6	_	521 377	52 91	161 42	148 66	 13
Wyoming	10	_	9	_	84	13	8	9	_
Pacific	3	3	_	4	6,643	556	1,923	183	_
Alaska California	<u>N</u>		_	1 3	58 5,034	6 280	1 1,665	41 N	N
Hawaii	N	=	=	_	269	13	46	142	_
Oregon	3	3	_	_	436	68	95 116	N	N
Washington		_	_	_	846	189	116	N	N
American Samoa C.N.M.I.	<u>N</u>	_	_	<u>1</u>	3	_	<u>1</u>	30	<u>N</u>
Guam	U N	_	_	U	U 947	U	U	U	U
Puerto Rico U.S. Virgin Islands	N N	_	_	_	847 —	_	31 —	N —	N —
	U: Unavailabl		enorted cases			rthern Mariana Island			

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

††† Revision of National Surveillance Case Definition distinguishing between confirmed and probable cases. Total count includes six unknown case status reports.

§§§ 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

	pneui invasive	ococcus moniae, e disease,	Streptococcus pneumoniae,		Syphilis**				
Area	All ages	Age <5 yrs	invasive disease, nondrug-resistant age <5 yrs	All stages ¹⁹⁹	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	_	_	66	479	_	216	_	1	_
New Hampshire Rhode Island	31	8	11 10	41 55	_	20 18	_	2	_
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	i
New York City	127	6	91	4,737	18	1,071	_	_	1
Pennsylvania	110	17	N	902	8	272	4	5	_
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 Wisconsin	395	54 —	67 55	763 187	3 1	351 65	_	4	_
						65			
W.N. Central	368	44	124	1,053 75	2	402	2	10 1	2
lowa	— 79	<u> </u>	N		_	16 30	_	1	_
Kansas Minnesota	185	32	51	125 265	_	116	1	4	1
Missouri	93	3	39	542	2	224		2	
Nebraska	_	_	9	36	_	15	1	1	_
North Dakota	2	_	12	4	_	_	_	_	1
South Dakota	9	3	13	6	_	1	_	1	_
S. Atlantic	1,378	254	375	11,178	68	3,162	2	1	3
Delaware	3		_	59		16	_	_	_
District of Columbia	N	N	N	370	_	146	_	_	_
Florida	792	161	70	4,585	17	1,044	2	N	1
Georgia	462	79	106	2,833	11	914	_		N
Maryland	7	1	62	1,088	23	378	_	N	1
North Carolina	N	N	N 72	998	10 2	287 98	_	_	_
South Carolina Virginia	N	N	72 52	412 789	4	266	_	_	1
West Virginia	114	13	13	44	1	13		_	
E.S. Central	350	61	96	3,424	23	1,139	_	9	_
Alabama	350 N	N	N N	1,187	12	449		1	
Kentucky	80	11	Ň	218	1	93	_	2	N
Mississippi	44	14	12	736	<u> </u>	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	5	17	508	9	206	_	1	N
Louisiana	85	11	17	2,024	23	707	1	_	_
Oklahoma	N	N	76	257	3	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	_
Idaho	N	N	6	26	_	7	1	2	_
Montana Nevada	1 55	6	N 6	10 325	9	7 77	_'	N 2	_
New Mexico		_	40	189	4	44	_		
Utah	73	12	37	40		25	_	_	_
Wyoming	3		2	9	_	3	_	_	_
Pacific	2	2	49	7,521	62	2,441	4	10	30
Alaska	_	_	29	9	_	_, 1		Ň	_
California	N	N	N	6,909	62	2,204	4	10	30
Hawaii	2	2	20	68	_	29	_	N	_
Oregon	N	N	N	.97	_	26	_	N	_
Washington	N	N	N	438	_	181	_	N	_
American Samoa	N	N	N	_	_	_	_	N	N
C.N.M.I.				-	_	_			
Guam Buorto Bioo	U	U	U N	45 707	_	6	Ũ	U	U
Puerto Rico	_	_	N N	797 1	8	167	3	N	N
U.S. Virgin Islands			IN	I		— — — — — — — — — — — — — — — — — — —			

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	ricella	
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 New Hampshire	261 19	19	16 2	7 N	280	_	
Rhode Island	36	_	1	<u> </u>	200	_	
Vermont	6	_	i	_	323	_	
Mid. Atlantic	2,009	3	124	22	2,409	2	22
New Jersey	422	2	31	N	Ň	N	17
New York (Upstate)	305	-	12	6	N	1	N
New York City	895	1	57	16	0.400	1	5 N
Pennsylvania	387	_	24	_	2,409	_	N
E.N. Central Illinois	1,056	2	44	11	7,805	_	30
Indiana	469 118	1	18 1	2 N	1,489	_	11 5
Michigan	188	_	9	6	3,053	_	Ň
Ohio	213	_	8	3	2,403	_	9
Wisconsin	68	1	8	_	860	_	5
W.N. Central	476	45	25	4	1,418	_	8
Iowa	49	_	6		N	N	N
Kansas	57	2	2	N	481	_	N
Minnesota Missouri	211 107	2 21	7 2	3 1	— 774	_	8 N
Nebraska	33	7	3		Ň	N	N
North Dakota	3	3	3	_	108	_	Ň
South Dakota	16	10	2	_	55	_	N
S. Atlantic	2,630	5	78	7	4,863	_	205
Delaware	23	_	4		47	_	4
District of Columbia	54	_		N	24	_	2
Florida Georgia	954 478	_	18 9	3 1	1,735 N	N	94 18
Maryland	278	1	17	Ň	Ň	<u> </u>	33
North Carolina	335	3	6	3	Ň	N	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 Kentucky	176 101		4	N N	1,113 N	N	23
Mississippi	118	_	_	2	14	N	2 7
Tennessee	282	2	3	_	Ň		10
W.S. Central	1,911	18	39	2	8,688	_	63
Arkansas	83	11	4	_	777	_	N
Louisiana	227	_	_	_	72	_	_
Oklahoma Texas	100	7	3 32	_	N 7 920	N	6 57
	1,501			2	7,839	_	
Mountain Arizona	544 227	17	10 3	3 2	2,203	_	24 14
Colorado	103		4	N	874	_	8
Idaho	11	2	<u>.</u>	Ň	N	N	Ň
Montana	9		1	N	336	_	N
Nevada	102	2	_	_	N	N	N
New Mexico Utah	60 27	1	1	N	219	_	2
Wyoming	5	8 2	1	1 —	763 11	_	_
Pacific	3,172	10	99	3	144		175
Alaska	50	-	1	N N	76	N	1/5
California	2,695	2	75	Ň	_		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	N	N	N	N
C.N.M.I.	34 90	U	U	U		1	
Guam Puerto Rico	90 95	-	-	0	600	N	N N

N: Not reportable. U: Unavailable. —: No reported cases. C.N.M.I.: Commonwealt **** Totals reported to the Division of Tuberculosis Elimination, NCHHSTP, as of May 15, 2009. C.N.M.I.: Commonwealth of Northern Mariana Islands.

^{††††} 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)*

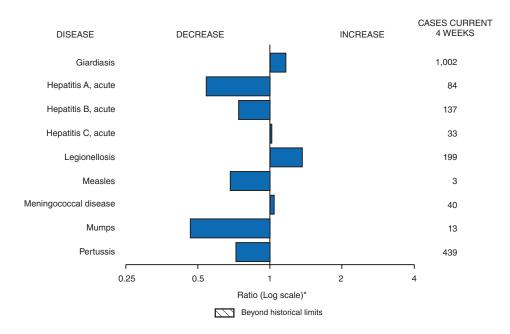
week chaing August 6, 2005 (01st week)	Current	Cum	5-year weekly			ases re		İ	States reporting cases
Disease	week	2009	average†	2008	2007	2006	2005	2004	during current week (No.)
Anthrax			_		1	1	_		
Botulism:									
foodborne	_	11	0	17	32	20	19	16	
infant	_	29	2	109	85	97	85	87	0.4 (4)
other (wound and unspecified) Brucellosis	1	14 57	1 3	19 80	27 131	48	31	30	CA (1)
Chancroid	3 1	23	0	25	23	121 33	120 17	114 30	CA (3) WA (1)
Cholera		23	0	5	7	9	8	6	WA (1)
Cyclosporiasis§	_	79	5	139	93	137	543	160	
Diphtheria	_	_	_	_	_	_	_	_	
Domestic arboviral diseases ^{§,¶} :									
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§,**:	40		c=	4				000	NV (4) OH (4) NO (6) 112 (2) TH (7) 12 (1)
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 17	260	1	1 026	834	646	 796	— 527	MO (1) NY (16), OH (1)
Anaplasma phagocytophilum undetermined		260 73	26 6	1,026 180	337	231	786 112	537 59	· //
Haemophilus influenzae,††	1	13	O	100	33/	231	112	39	MO (1)
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	2	80	101	66	87	105	
Hantavirus pulmonary syndrome§	_	6	1	18	32	40	26	24	
Hemolytic uremic syndrome, postdiarrheal§	6	111	7	330	292	288	221	200	CT (1), OH (3), MN (1), CA (1)
Hepatitis C viral, acute	6	972	16	878	845	766	652	720	NY (2), MO (1), MD (1), CO (1), CA (1)
HIV infection, pediatric (age <13 years) ^{§§}	_	_	3	_	_	_	380	436	
Influenza-associated pediatric mortality [§] ,¶¶	3	102	0	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†††:	0	177	4	220	205	010	007		NC (0) TV (1)
A, C, Y, and W-135 serogroup B	3	177 100	4 2	330 188	325 167	318 193	297 156	_	NC (2), TX (1)
other serogroup	_	18	0	38	35	32	27	_	
unknown serogroup	3	289	8	616	550	651	765	_	ND (1), CA (2)
Mumps	3	206	14	454		6,584	314	258	MO (1), CO (1), CA (1)
Novel influenza A virus infections	_	§§§	0	2	4	N	N	N	(1), 55 (1), 51 (1)
Plague	_	4	Ō	3	7	17	8	3	
Poliomyelitis, paralytic	_	_	_	_	_	_	1	_	
Polio virus infection, nonparalytic§	_	_	_	_	_	N	N	N	
Psittacosis§	_	7	0	8	12	21	16	12	
Q fever total [§] ,¶¶:	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	
Rubella ****	_	3	0	16	12	11	11	10	
Rubella, congenital syndrome SARS-CoV [§] ,††††	_	1	_	_	_	1	1	_	
Smallpox§		_	_	_	_	_	_	_	
Streptococcal toxic-shock syndrome§	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	5 · (=), 5 · · (·), · · · · (·)
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)
Tularemia	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§	_				_ 2	1	3	1	
Vibriosis (noncholera Vibrio species infections)§	10	204	11	492	549	N	N	N	MN (1), VA (1), GA (1), FL (1), CA (5), HI (1)
Yellow fever	_	_	_						

See Table I footnotes on next page.

TABLE I. (Continued) Provisional cases of infrequently reported notifiable diseases (<1,000 cases reported during the preceding year) — United States, week ending 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.
- † Calculated by summing the incidence counts for the current week, the 2 weeks preceding the current week, and the 2 weeks following the current week, for a total of 5 preceding years. The total sum of incident cases is then divided by 25 weeks. Additional information is available at http://www.cdc.gov/epo/dphsi/phs/files/5yearweeklyaverage.pdf.
- § Not reportable in all states. Data from states where the condition is not reportable are excluded from this table, except starting in 2007 for the domestic arboviral diseases and influenza-associated pediatric mortality, and in 2003 for SARS-CoV. Reporting exceptions are available at http://www.cdc.gov/epo/dphsi/phs/infdis.htm.
- Includes both neuroinvasive and nonneuroinvasive. Updated weekly from reports to the Division of Vector-Borne Infectious Diseases, National Center for Zoonotic, Vector-Borne, and Enteric Diseases (ArboNET Surveillance). Data for West Nile virus are available in Table II.
- ** The names of the reporting categories changed in 2008 as a result of revisions to the case definitions. Cases reported prior to 2008 were reported in the categories: Ehrlichiosis, human monocytic (analogous to *E. chaffeensis*); Ehrlichiosis, human granulocytic (analogous to *Anaplasma phagocytophilum*), and Ehrlichiosis, unspecified, or other agent (which included cases unable to be clearly placed in other categories, as well as possible cases of *E. ewingil*).
- †† Data for H. influenzae (all ages, all serotypes) are available in Table II.
- §§ Updated monthly from reports to the Division of HIV/AIDS Prevention, National Center for HIV/AIDS, Viral Hepatitis, STD, and TB Prevention. Implementation of HIV reporting influences the number of cases reported. Updates of pediatric HIV data have been temporarily suspended until upgrading of the national HIV/AIDS surveillance data management system is completed. Data for HIV/AIDS, when available, are displayed in Table IV, which appears quarterly.
- III 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.
- ††† Data for meningococcal disease (all serogroups) are available in Table II.
- SSS CDC discontinued reporting of individual confirmed and probable cases of novel influenza A (H1N1) viruses infections on July 24, 2009. CDC will report the total number of novel influenza A (H1N1) hospitalizations and deaths weekly on the CDC H1N1 influenza website (http://www.cdc.gov/h1n1flu).
- 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 Willie J. Anderson Jose Aponte Lenee Blanton Rosaline Dhara Michael S. Wodajo Pearl C. Sharp

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

		(Chlamyd	ia [†]			Cocc	idiodomy	cosis			Cry	ptosporidi	osis	
		Prev					Prev						rious		
B	Current	52 w		Cum	Cum	Current	52 w		Cum	Cum	Current		veek	Cum	Cum
Reporting area United States	week 13,102	Med 22,674	Max 25,706	2009 656,489	2008 697,499	week 62	Med 149	Max 474	2009 6,033	2008 3,934	<u>week</u> 116	Med 126	Max 482	2009 3,372	2008 3,076
New England	690	770	1,655	23,753	21,485	—	0	4/4	0,033	3,934	2	5	25	178	212
Connecticut	133	228	1,306	6,873	6,008	N	0	Ô	Ň	Ň	_	0	18	18	41
Maine [§] Massachusetts	448	48 323	72 945	1,416 11,644	1,463 10,485	N N	0	0 0	N N	N N		0 2	6 13	16 73	16 80
New Hampshire	2	37	63	980	1,189	_	0	Ĭ	1	1	_	1	4	33	39
Rhode Island [§] Vermont [§]	78 29	61 21	244 53	2,148 692	1,636 704	 N	0	0 0	N	N	_	0 1	3 7	4 34	4 32
Mid. Atlantic	2,652	2,887	6,734	91,406	87,251	_	0	0	_	_	20	13	35	390	364
New Jersey	213	429	846	12,944	13,196	N	0	0	N	N	_	0	4	8	20
New York (Upstate) New York City	579 1,297	571 1,137	4,563 3,130	17,462 35,804	16,009 33,535	N N	0 0	0 0	N N	N N	6	4 1	17 8	99 39	111 57
Pennsylvania	563	812	1,072	25,196	24,511	N	Ö	Ö	N	N	14	7	17	244	176
E.N. Central	1,415	3,517	4,382	98,382	114,141	N	0	4	22	32	13	30	126	826	809
Illinois Indiana	418 269	1,092 413	1,356 713	30,303 13,407	34,604 12,887	N N	0 0	0 0	N N	N N	_	2 5	13 18	69 184	88 95
Michigan	533	858	1,332	27,104	26,878	_	0	3	11	25	. 1	5	13	139	132
Ohio Wisconsin	84 111	785 363	1,300 494	17,391 10,177	26,996 12,776	 N	0	2 0	11 N	7 N	11 1	9 8	59 46	237 197	164 330
W.N. Central	294	1,330	1,586	37,852	39,328	_	0	1	4	1	28	18	68	504	436
lowa	207	192 171	256 549	5,746	5,136	N N	0	0	N N	N	7	4 1	30 8	118 47	112
Kansas Minnesota	4	267	338	5,189 7,191	5,432 8,525		0	0		<u>N</u>	8	4	19	141	38 97
Missouri		500	633	14,723	14,327	<u> </u>	0	1	4	1	9	3	13	88	93
Nebraska [§] North Dakota	18 12	95 22	219 60	2,611 617	3,185 1,088	N N	0 0	0 0	N N	N N	3 1	2 0	8 10	49 7	60 2
South Dakota	53	58	85	1,775	1,635	N	0	0	N	N	_	2	9	54	34
S. Atlantic Delaware	2,482 74	4,309 81	5,670 180	114,839 2,821	141,048 2,204	_	0	1	5 1	3 1	20	21 0	49 1	549 2	465 9
District of Columbia	- /4 	128	227	3,849	4,171	_	0	Ó			_	0	2	_	9
Florida	556 2	1,403 753	1,597 1,909	43,045 16,869	42,557 24,810	N N	0	0	N N	N N	12 6	8 6	35 20	185 219	195 132
Georgia Maryland [§]	422	431	772	12,713	13,603		0	1	4	2	_	1	5	22	21
North Carolina		0	1,309	14.544	17,934	N N	0	0	N N	N	_	1	16	58 24	17
South Carolina [§] Virginia [§]	582 812	543 616	1,424 924	14,544 18,796	15,564 18,307	N	0	0	N	N N	_	1	6 4	30	28 40
West Virginia	34	69	101	2,202	1,898	N	0	0	N	N	2	0	3	9	14
E.S. Central Alabama§	1,043	1,735 476	2,184 624	53,728 14,173	49,234 15.090	N	0	0	N		4 1	3	10 6	105 35	78 32
Kentucky	369	253	458	7,476	6,713	N	0	0	N	N	2	1	4	30	17
Mississippi Tennessee§	— 674	444 569	841 809	14,026 18,053	11,429 16,002	N N	0	0	N N	N N	_ 1	0 1	2 5	5 35	7 22
W.S. Central	2,035	2,913	5,308	91,216	88,919		0	1	1	2	11	10	271	199	212
Arkansas§	328	275	418	8,420	8,463	N	0	Ó	Ń	N	1	1	10	21	19
Louisiana Oklahoma	192 281	422 177	1,134 2.737	13,172 8.442	12,941 7.824	 N	0 0	1 0	1 N	2 N	1 4	1 2	5 16	18 53	31 26
Texas§	1,234	1,965	2,527	61,182	59,691	Ň	0	Ö	N	N	5	7	258	107	136
Mountain	815	1,268	2,145	35,024	43,857	_	99	368	4,505	2,641	12	9	38	263	273
Arizona Colorado	106 360	390 342	627 728	7,212 9,668	14,617 10.474	 N	97 0	364 0	4,442 N	2,572 N	10	1 2	6 12	22 79	42 50
Idaho§	_	67	314	1,999	2,248	N	0	0	N	N	1	1	7	44	37
Montana [§] Nevada [§]	41 128	56 175	88 366	1,769 5,732	1,843 5,811	N —	0 1	0 3	N 35	N 36	_	0 0	4 4	23 11	32 8
New Mexico§	107	167	540	4,894	4,464	_	0	2	8	22	_	2	23	57	69
Utah Wyoming [§]	33 40	106 33	251 97	2,536 1,214	3,544 856	_	0	2 1	20	9 2	1	0	6 2	12 15	22 13
Pacific	1,676	3,660	4,763	110,289	112,236	62	40	172	1,495	1,254	6	11	22	358	227
Alaska	· —	116	233	4,923	2,785	N	0	0	N	N	_	0	2	5	2
California Hawaii	1,222	2,815 118	3,599 247	85,890 3,469	87,222 3,434	62 N	40 0	172 0	1,495 N	1,254 N	5	6 0	15 1	202 1	129 1
Oregon§	138	198	631	5,712	6,007	N	0	0	N	N	_	2	8	106	46
Washington	316	377	557	10,295	12,788	N	0	0	N	N	1	1	7	44	49
American Samoa C.N.M.I.	_		0	_	73 —	<u>N</u>	0	0	<u>N</u>	<u>N</u>	<u>N</u>	0	0	<u>N</u>	N
Guam		3	8	4 000	103	_	0	0	_	_		0	0	_	_
Puerto Rico U.S. Virgin Islands	180	133 8	333 17	4,686 205	4,201 423	N	0 0	0 0	N	N —	N	0 0	0 0	N —	N
			riana Ielai		423			U				U			

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).

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

			Giardiasi	s				Gonorrhe	ea		Hae		s <i>influenz</i> s, all sero		ive
			/ious					vious					rious		
Reporting area	Current week	Med	veeks Max	Cum 2009	Cum 2008	Current week	Med	veeks Max	Cum 2009	Cum 2008	Current week	Med Med	eeks 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 [§]	<u> </u>	6 4	14 12	149 109	188 81	28	46 2	275 9	1,318 78	1,345 54	3	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 0	2 7	7 3	8
Vermont§	1	3	15	66	77	1	1	4	27	22	_	Ö	1	3	7
Mid. Atlantic	50	58	116	1,661	1,794	559	588	1,138	18,129	19,400	8	11	25 7	385	339
New Jersey New York (Upstate)	34	6 24	21 81	108 699	293 592	37 111	91 102	127 664	2,626 3,059	3,185 3,604	6	2 3	20	73 90	55 97
New York City		16	30	413	485	286	210	577	6,789	6,048	_	2 4	11	82	59
Pennsylvania E.N. Central	16 23	16 44	46 90	441 1,233	424 1,458	125 532	186 1,106	267 1,627	5,655 30.471	6,563 40,718	2	8	10 27	140 255	128 299
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	3 5	17	26 40	12	16 50	37 88	542 1.524	681 1.544	_	0	1 2	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	N	0	0	N	N	_	0	542	3,307	7,978	9	1	17	57	45
South Carolina§ Virginia§	<u> </u>	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	_	Ö	3	21	18
E.S. Central	5	8	22	201	249	324	521	714	15,473	17,863	1	3	9	103	92
Alabama [§] 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§	3	4	13	107	107	213	160	273	4,958	5,072	1	2	6	63	60
W.S. Central Arkansas§	8 3	9 2	22 8	228 72	217 69	544 91	875 83	1,382 134	26,491 2,578	30,711 2,785	<u>1</u>	2	22 2	75 13	86 11
Louisiana Oklahoma	1 4	2	8 18	73 83	84 64	50 60	155 69	420 613	4,270 2,947	5,744 2,886	_ 1	0 1	1 20	11 50	8 60
Texas§	N	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§ Nevada§	1	2 2	10 8	66 57	46 66	1 26	2 31	6 86	47 1,008	69 1,415	_	0	1 2	1 12	2 11
New Mexico§	_	1	8	50	55	23	24	52	632	828	_	0	3	15	31
Utah Wyoming [§]	_	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	4 3	20 20	14 38
Hawaii	_	0	4	8	23	_	13	19	376	359	_	0	3	18	13
Oregon [§] 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	195	192	_	43	0	1,123	1,946	_	0	0	_	_
C.N.M.I.	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Guam Puerto Rico	_	0 2	0 15	<u>-</u>	109	<u> </u>	1 4	15 24	161	45 164	_	0	0 1		_
U.S. Virgin Islands	_	0	0	_	_	_	2	7	63	80	N	0	0	N	N

C.N.M.I.: Commonwealth of Northern Mariana Islands.
U: Unavailable. —: No reported cases. N: Not reportable. Cum: Cumulative year-to-date counts. Med: 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.

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

				Hepat	itis (viral,	acute), by	type†								
			Α					В				Le	gionellos	is	
		Prev						vious					/ious		
Reporting area	Current week	Med Med	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	16	37	89	1,091	1,601	32	67	197	1,845	2,243	56	49	110	1,411	1,578
New England	_	2	8	52	77	_	1	4	20	48	2	3	18	71	95
Connecticut Maine§	_	0	4 5	14 1	14 4	_	0 0	3 2	8 7	18 9	2	1 0	5 2	31 2	16 4
Massachusetts	_	1	3	29	41	_	0	2	3	14	_	1	6	25	41
New Hampshire Rhode Island [§]	_	0	2 2	3 3	6 10	_	0	2 1	2	3	_	0	4 14	7 4	15 14
Vermont§	_	0	1	2	2	_	0	1	_	1	_	0	1	2	5
Mid. Atlantic	_	5	13	124	177	_	7	17	190	279	21	15	57	514	482
New Jersey New York (Upstate)	_	1 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	<u>-</u>	1	13	241	45
Indiana Michigan	_	0 1	3 5	16	12 78		1 3	18	70 83	23 80	_ 1	1 2	5 10	18 52	32 110
Ohio	_	i	4	39 26	76 27	_	2	8 13	60	66	13	4	17	142	166
Wisconsin	_	0	3	5	22	_	0	4	22	14	_	0	6	5	18
W.N. Central lowa	_	2 1	16 3	76 22	192 90	5	2 0	16 3	90 16	48 13	2	2 0	8 2	46 13	75 9
Kansas	_	0	1	7	12	_	0	2	4	6	_	0	1	2	1
Minnesota Missouri	_	0 0	12 3	13 16	26 23	3 2	0 1	11 5	17 41	4 19	_ 1	0 1	3 5	6 17	8 41
Nebraska [§]	_	0	3	16	39	_	Ö	2	11	5	i	Ö	1	7	15
North Dakota South Dakota	_	0 0	2 1	_	_	_	0	1 1	_ 1	1	_	0	3 1	1	_ 1
S. Atlantic	4	7	15	245	214	7	18	32	564	561	12	9	22	267	255
Delaware	_	0	1	3	6	U	0	1	U	U	_	0	5	8	6
District of Columbia Florida	U 3	0 4	0 8	U 115	U 84	U 5	0 6	0 11	U 184	U 196	<u> </u>	0 3	2 7	91	9 82
Georgia	1	1	4	40	29	1	3	9	91	105	_	1	5	32	20
Maryland [§] North Carolina	_	1 1	4 7	26 24	28 35	_	1 1	5 19	44 128	52 51	3 3	2	10 7	61 39	72 12
South Carolina§	_	0	3	22	7	_	1	4	24	45	_	0	1	3	6
Virginia [§] 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 [§] Kentucky	1 1	0	2 2	7 5	8 16	1	2 2	7 7	55 46	60 57	_	0 1	1 3	6 27	10 38
Mississippi		0	1	7	4		0	3	8	23	_	Ó	1	1	1
Tennessee§	_	0	4	8	19	_	2	6	64	85	_	1	4	25	27
W.S. Central Arkansas§	1	3 0	43 1	99 4	155 4	6	11 1	99 5	267 23	450 32	_	1 0	21 2	42 3	45 6
Louisiana	1	0	2	3	8	_	1	4	26	56	_	0	1	2	8
Oklahoma Texas§	_	0 3	6 37	1 91	7 136	4 2	2 6	17 76	56 162	62 300	_	0 1	6 19	3 34	3 28
Mountain	3	3	8	96	145	1	3	7	77	124	1	2	8	59	46
Arizona	3	2	6	44	75	_	1	4	28	48	_	0	3	24	13
Colorado Idaho [§]	_	0 0	5 1	30 2	26 14	_	0 0	2 2	15 4	21 5	_	0 0	2 1	6 1	3 2
Montana [§] Nevada [§]	_	0	1 3	2 5	_ 5	_ 1	0	1	 17	1	_ 1	0	2	4	2
New Mexico§	_	0	1	6 5	15		0	3 2	5	28 7		0	2 2	9	6 3
Utah Wyoming§	_	0	2	4	7	_	0	3 2	5 3	9 5	_	0	4 1	14 1	15
Pacific	6	7	18	218	373	9	7	36	200	215	2	3	13	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	=	Ö	3	23	28	_	0	2	7	12
Washington	1	1	4	29	35	4	1	8	23	26		0	4	14	14
American Samoa C.N.M.I.	_	0		_	_	_		_0	_	_	<u>N</u>	0	_0	<u>N</u>	N
Guam	_	0	0			_	0	0	_	_	_	0	0	_	_
Puerto Rico U.S. Virgin Islands	_	0 0	2 0	15 —	18	_	0 0	5 0	10	31	_	0 0	0 0	_	_
C.C. Thymnolanas															

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).

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

			yme disea	se				Malaria			ivie	/	cal diseas All groups		
	C		vious veeks	O	O	C	Prev 52 w	rious reeks	O	0	C		rious reeks	O	O
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	_	0	4	20	23
Connecticut Maine [§]	— 62	0 8	105 73	374	2,698 165	_	0	4 1	4 1	7 1	_	0	1 1	2	1
Massachusetts	5	30	175	1,041	3,213	_	0	4	16	15	_	0	3	11	15
New Hampshire	_	14	57	452	1,060	_	0	1	1	3	_	0	1	1	2
Rhode Island§ Vermont§	<u> </u>	0 5	78 35	54 174	114 166	_	0	1 1	1 2	2 4	_	0	1 1	2 1	1
Mid. Atlantic	369	240	1.401	8.045	7,322	1	5	17	132	161	_	2	5	62	85
New Jersey	1	37	225	2,080	2,495	_	0	4	_	38	_	0	2	8	11
New York (Upstate) New York City	227	87 1	1,368 40	2,177 7	2,114 434	1	1 3	10 11	28 75	15 85	_	0	2 2	16 9	22 18
Pennsylvania	141	53	444	3,781	2,279	_	1	4	29	23	_	1	4	29	34
.N. Central	6	21	115	927	1,504	3	3	6	85	99	_	3	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	2 3	11 17	4 11	_	0	6 5	35 17	17 23
Ohio	i	i	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
V.N. Central	_	6	336	113	294	_	1	7	32	36	1	1	9	45	72
Iowa Kansas	_	1 0	10 4	49 13	82 6	_	0	3 2	5 3	3 3	_	0	1 2	6 8	14 3
Minnesota		1	326	39	197	_	Ö	7	13	17		0	4	9	21
Missouri	_	0	2	4	2	_	0	2	7	7	_	0	2	14	22
Nebraska [§] North Dakota	_	0 0	3 10	7	4	_	0	1 0	3	6	 1	0	1 3	5 1	10 1
South Dakota		0	1	1	3		Ö	1	1	_		Ö	1	2	i
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	2	2	_	0	1	2	1
District of Columbia Florida	3	0 1	5 6	 26	41 26	_	0 1	2 7	— 59	2 27	_	0 1	0 4	 39	40
Georgia	5	Ó	6	34	26	5	i	4	43	39	_	Ó	2	20	14
Maryland [§]	39	30	163	936	966	_	1	8	48	47	_	0	1	.5	12
North Carolina South Carolina§	14	1 0	7 3	52 15	6 15	_	0	5 1	21 1	17 6	2	0 0	5 1	18 8	10 17
Virginia [§]	10	13	61	280	324		1	4	24	26		0	2	9	16
West Virginia	_	1	17	64	95	_	0	1	2	1	_	0	2	5	4
E.S. Central	_	0	3	13	30	_	1	3	21	11	_	0	3	19	38
Alabama [§] Kentucky	_	0 0	1	2 1	8 4	_	0	3 2	6 8	3 3	_	0	1 1	5 4	5 7
Mississippi	_	ő	Ó		1	_	Ö	0	_	1	_	Ő	i	1	9
Tennessee§	_	0	3	10	17	_	0	3	7	4	_	0	1	9	17
N.S. Central	_	1	21	18	56	_	1	10	25	36	1	1	12	52	86
Arkansas§ Louisiana		0 0	0 1		1	_	0	1	1		_	0	2 3	5 10	13 19
Oklahoma	_	ő	2	_		_	Ö	2	2	2	_	Ö	3	4	10
Texas§	_	1	21	18	55	_	1	10	21	32	1	1	9	33	44
Mountain	1	1	13	24	28	1	0	4	15	17	_	1	4	44	43
Arizona Colorado	1	0 0	2 1	2	4 2	1	0	2 3	3 7	6 3	_	0	2 2	10 13	5 9
Idaho§		Ö	2	8	5		Ö	1	1	_	_	Ö	1	5	4
Montana [§]	_	0	13	2	2	_	0	1	1	_	_	0	2	4	4
Nevada [§] New Mexico [§]	_	0	2 2	8	5 6	_	0	1 1	_	4 2	_	0	2 1	4 3	7 6
Utah	_	ő	1	_	2	_	ő	2	3	2	_	ő	i	1	6
Wyoming§	_	0	1	1	2	_	0	0	_	_	_	0	2	4	2
Pacific	10	3	13	116	60	4	3	10	79	80	2	4	14	127	212
Alaska California	10	0 2	2 7	3 103	3 35	3	0 2	1 8	3 58	3 60		0 2	2 8	2 82	5 157
Hawaii	N	0	ó	N	N	_	0	1	1	2	_	0	1	3	4
Oregon§	_	0	3	7	18		0	2	7	4	_	0	7	27	25
Washington	_	0	12	3	4	1	0	3	10	11	_	0	6	13	21
American Samoa C.N.M.I.	N	0	0	N	N	_	0	0	_	_	_	0	0	_	_
Guam	_	0	0	_	=	_	0		=	1	_	0	0	_	_
Puerto Rico	N	0	0	N	N	_	0	1	1	2	_	0	1	_	2
J.S. Virgin Islands	N	0	0	N	N	_	0	0	_	_	_	0	0	_	_

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

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

			Pertussis	<u> </u>			Ra	bies, anin	nal		R	ocky Mou	ıntain spo	tted feve	r
	_		vious veeks					rious eeks					rious reeks		
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 [†]	_	0 1	4 10	19 63	37 21	_	3 1	10 5	85 33	107 31	_	0 0	0 2	4	_
Massachusetts	1	10	26	224	451	_	0	0	_	_	_	0	1	3	1
New Hampshire Rhode Island [†]	_	1 0	7 5	49 11	20 45	_	1 1	7 3	23 27	24 19	_	0	0 2	_	1 1
Vermont [†]	_	0	2	8	7	2	i	4	33	44	_	0	0	_	
Mid. Atlantic	18	24	64	642	576	12	15	27	359	533	_	1	29	36	78
New Jersey New York (Upstate)	7	4 5	12 41	111 115	119 205	12	0 8	0 20	241	278	_	0 0	6 29	<u> </u>	55 10
New York City	_	0	21	48	49	_	0	2	_	11	_	0	4	20	6
Pennsylvania	11	12	33	368	203	_	5 2	17	118	244	_	0 2	2	11	7
E.N. Central Illinois	44	50 13	238 45	1,578 260	851 143	9 5	1	28 20	120 50	108 37	_	1	15 9	42 27	87 66
Indiana	_	5	158	186	28	_	0	12	12	3	_	0	3	2	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	78	71	N	0	0	N	N	_	0	0	_	_
W.N. Central lowa	9	33 6	872 21	1,086 112	422 66	6	5 0	17 5	157 9	170 12	7	4 0	24 1	126 2	275 6
Kansas	_	4	12	118	33	_	1	6	55	44	_	0	1	1	_
Minnesota Missouri	7	0 18	808 51	165 568	126 140	3 3	0 1	11 8	32 30	33 26	<u> </u>	0 3	0 24	 116	 254
Nebraska [†]	1	4	32	93	39	_	Ó	2	_	25	1	0	2	7	12
North Dakota South Dakota	1	0	24 10	16 14	1 17	_	0 0	9 4	4 27	16 14	_	0 0	1 0	_	3
S. Atlantic	23	27	71	942	476	20	25	111	922	1,074	11	14	54	331	345
Delaware	_	0	3	8	7	_	0	0	_	· —	_	0	3	6	21
District of Columbia Florida	 18	0 8	2 32	326	1 136	_	0 0	0 95	104	138	_	0 0	0 3	4	6 5
Georgia	_	3	11	106	52	_	3	71	225	238	1	1	5	27	50
Maryland [†] North Carolina	4	3 0	10 65	67 199	62 77	 N	6 2	13 4	184 N	270 N	9	1 9	7 36	27 212	44 124
South Carolina†	_	3	16	128	66	_	0	0	_	_	_	0	9	14	18
Virginia† West Virginia	1	4 0	24 5	94 14	69 6	18 2	10 2	24 6	338 71	367 61	1	2	9 1	38 3	71 6
E.S. Central	7	14	33	450	180	2	2	7	67	109	5	4	19	145	177
Alabama†	_	3	19	169	23	_	0	0	_	_	4	1	6	34	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 [†]	1	3	14	111	42	_	2	6	34	82	1	3	17	106	123
W.S. Central	1	53 4	389	1,270 126	718	_	0	7 5	31 23	66 39	4	2	161	98 44	131
Arkansas [†] Louisiana	1	2	38 7	69	51 47	_	0	0	_		3	0	61 2	2	16 3
Oklahoma Texas [†]	_	0 41	45 304	18 1,057	19 601	_	0	6 1	7 1	25 2	1	0	98 6	41 11	86 26
Mountain	7	17	31	503	517	1	2	9	54	44		1	3	17	22
Arizona	_	3	8	107	143	Ň	0	Ö	Ň	N	_	Ö	2	3	7
Colorado Idaho [†]	5 1	5 1	12 5	175 47	91 22	_	0	0 2	_	<u> </u>	_	0	0 0	_	1 1
Montana [†]	_	0	4	12	64	_	0	4	15	4	_	0	2	8	3
Nevada† New Mexico†	1	0 1	3 10	8 33	21 28	_	0	5 2	3 15	3 21	_	0	2	1	_
Utah	_	4	19	113	138	1	0	6	4	2	_	0	1	1	3
Wyoming [†]	_	0	5	8	10	_	0	4	17	8	_	0	2	3	5
Pacific Alaska	12	22 4	98 21	496 56	675 70	7	4 0	13 4	143 19	116 12	N	0	1 0	2 N	2 N
California	_	6	19	128	326	7	4	12	122	99	_	0	1	2	_
Hawaii Oregon [†]	1 —	0 3	3 14	19 125	6 102	_	0 0	0 2			N	0 0	0 1	N	N 2
Washington	11	6	76	168	171	_	0	0	_	_	_	0	0	_	_
American Samoa C.N.M.I.	_	0	0	_	_	N	0	0	N	N	N	0	0	N	N
Guam	_	0	0	_	_	_	0	0	_	_	N	0	0	N	N
Puerto Rico	_	0	1	1	_		1	3	24	37	N	0	0	N	N
U.S. Virgin Islands		0	0			N	0	0	N	N	N	0	0	N	N

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

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

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

Perfect Perf			s	almonello	sis		Shi	ga toxin-pı	roducing	E. coli (S1	EC)†			Shigellosis		
Reporting area																
United States	Reporting area															
New Figure New																
Maine# 2 2 2 7 77 89 0 3 10 7 0 6 3 11 Massachusetts 5 2 2 4 6 8 6 6 1 6 4 7 4 5 7 Photoe Island* 2 4 1 8 8 8 1 6 4 7 4 5 Photoe Island* 3 8 8 8 Photoe Island* 1 6 35 5 5 6 19 130 282 38 55 76 1,688 1,422 Mid. Attantic 53 91 182 2,432 3,146 5 6 19 130 282 38 55 76 1,688 1,422 Mid. Attantic 53 91 182 2,432 3,146 5 6 19 130 282 38 55 76 1,688 1,422 Mid. Attantic 53 91 182 2,432 3,146 5 6 19 130 282 38 55 76 1,688 1,422 Mid. Attantic 53 91 182 2,432 3,146 5 6 19 130 282 38 55 76 1,688 1,422 Mid. Attantic 53 91 182 2,432 3,146 5 6 19 130 282 38 55 76 1,688 1,422 Mid. Attantic 5 2 96 331 599 0 5 6 6 78 30 2 1 5 6 6 10 Pennsylvania 21 20 66 391 599 0 5 6 78 30 2 1 5 6 6 1 9 Pennsylvania 21 20 66 391 599 0 5 6 78 30 2 1 5 6 6 Pennsylvania 21 20 66 391 599 0 5 6 78 30 2 1 5 6 6 E.N. Central 46 96 156 2,747 2,919 3 14 74 357 445 33 77 132 1,719 2,045 Illinois 25 50 661 865 1 10 62 75 1 3 4 4 4 Wisconsin 12 30 353 427 3 16 91 113 11 42 314 344 344 Wisconsin 12 30 353 427 3 16 91 113 11 42 314 218 Wisconsin 12 30 353 427 3 16 91 113 11 42 314 218 Wisconsin 12 30 353 427 3 16 91 113 11 42 314 218 Wisconsin 12 30 353 427 3 16 91 113 11 42 314 218 Wisconsin 2 1 3 5 4 4 4 4 4 5 5 4 6 6 6 6 6 6	New England		32	264	1,252	1,435		3	43	123	159		3	28	143	141
Massachusetts 5																
Phode Island#	Massachusetts	5	22	41	631	661		1	6	41	74		2	15	101	76
Mindanite		1								21 —						
New Jork (Upstatel) 32		_		6	35	53	_	0	6	8	10	_	0			
New York (Upstalet) 32		53										38				
Pennsylvania 21 29 66 931 959 — 0 5 6 6 78 30 21 58 960 108 EN. Central 46 96 156 2,747 2,919 3 14 74 357 405 33 77 132 1,719 2,045 Illinois — 25 50 661 865 — 1 1 10 62 75 — 13 34 334 594 Illinois — 18 50 861 865 — 1 1 10 62 75 — 13 34 334 594 Illinois — 18 50 861 865 — 1 1 10 62 75 — 13 34 334 594 Illinois — 18 50 813 38 24 — 2 1 3 55 42 — 2 2 21 5 24 48 Michigan — 18 50 313 75 75 — 3 3 44 77 — 3 16 17 76 8 11 3 9 1 13 4 14 14 14 18 Illinois — 11 50 86 41 24 12 14 14 14 14 14 14 14 14 14 14 14 14 14	New York (Upstate)	32	24	66	691	733	5	3	12	66	80	8	5	23	131	391
EN. Centrel Hole		<u> </u>										30				
Indiana	•		96	156	2,747	2,919	3		74	357	405		77	132	1,719	2,045
Michigan		_														
Wissonsin — 12 30 953 427 — 3 16 91 113 — 11 42 314 218 W.N. Central 66 7 16 241 261 3 2 13 95 128 — 2 12 45 97 Kansas — 7 19 213 255 — 1 7 25 26 — 3 11 148 311 145 97 Missour 25 11 48 311 447 20 10 2 14 110 94 — 3 14 48 176 Mebrascus 6 5 11 48 311 47 25 41 20 20 14 20 20 14 20 3 11 48 31 30 — 0 3 15 20 20 20 20 2	Michigan		18	38	547	540	_	3	43	78	79	2	5	24	136	70
W.N. Central		38														
Kansas — 7 1 19 213 255 — 1 7 7 25 26 — 3 11 145 15 15 Minnesota 17 13 51 366 429 10 2 14 110 94 — 3 114 48 176 Missouri 25 11 48 311 407 — 2 10 62 109 8 3 39 264 158 Missouri 25 11 48 311 407 — 2 10 62 109 8 8 — 0 3 15 22 North Dakota 8 0 32 40 27 — 0 28 13 1 — 0 9 9 3 30 264 158 South Dakota — 4 22 145 89 — 0 5 14 30 — 0 0 9 3 3 15 22 North Dakota — 4 22 145 89 — 0 5 14 30 — 0 0 1 2 75 S. Atlantic 266 262 457 6,055 5,875 7 13 48 349 420 36 47 85 1,380 1,964 Delaware 1 2 2 2 4 82 — 0 2 8 4 82 — 0 2 8 3 1 — 0 0 2 8 5 1 1	W.N. Central		52	109	1,551	1,612		12	37	358	476		15	49	522	553
Minnesota																
Nebraska\(^6\) 5	Minnesota	17	13	51	366	429		2	14	110	94	_	3	14	48	176
North Dakota 8 0 30 40 27 — 0 28 3 1 1 — 0 9 9 3 30 South Dakota — 4 22 145 89 — 0 0 5 14 30 — 0 0 1 2 75 5. Alantic 266 262 457 6,055 5,875 7 13 48 349 420 36 47 85 1,380 1,964 Delaware 1 2 8 54 86 — 0 0 1 1 — 5 — 0 2 2 — 11 Florida 189 103 180 2,803 2,473 5 2 110 94 86 18 9 24 269 558 Georgia 41 39 96 1,092 1,143 — 1 8 37 48 6 13 30 395 754 Marylandin 19 16 35 400 473 1 2 11 47 67 4 6 13 222 48 North Carolinas 6 27 106 749 504 — 2 21 70 47 — 6 27 240 63 South Carolinas 6 27 106 749 504 — 2 21 70 47 — 6 27 240 63 South Carolinas 6 70 37 508 — 0 3 16 26 — 4 17 73 397 Virginia 6 10 19 88 480 519 — 3 27 62 107 5 5 5 9 123 105 West Virginia — 4 23 120 127 1 0 3 15 26 — 0 3 3 5 21 Es. Central 47 52 140 1,342 1,648 4 5 12 129 156 4 21 58 500 1,233 Kentucky 17 10 18 281 281 285 2 2 7 7 44 46 2 2 25 134 203 Kentucky 17 10 18 281 281 283 83 12 1 4 6 4 2 1 1 6 4 4 1 1 7 7 1 1 3 1 3 1 6 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1																
S.Atlantic 266	North Dakota		0	30	40	27	_	0	28	3	1		0	9	3	30
Delaware		266												-		
Florida	Delaware	1	2	8		86	_	0	2		8	3	0	8	55	7
Georgia 41 39 96 1,092 1,143 — 1 8 37 48 6 13 30 395 754 Maryland® 19 16 35 400 473 1 2 111 47 67 4 6 6 13 222 48 North Carolina® — 16 57 357 508 — 2 0 3 16 26 — 4 17 71 397 Virginia® 10 19 88 480 519 — 3 27 62 107 5 5 59 123 105 West Virginia — 4 23 120 127 1 0 3 27 62 107 5 5 59 123 105 West Virginia — 4 23 120 127 1 0 3 3 15 26 — 0 3 3 5 21 E.S. Central 47 52 140 1,342 1,648 4 5 12 129 156 4 21 58 530 1,233 Alabama® 8 16 49 380 453 1 1 4 30 42 — 4 12 94 293 Mississippi 6 12 57 290 525 — 0 1 6 4 — 1 6 17 257 Tennessee® 16 14 62 391 415 1 2 6 4 9 64 2 12 88 5480 Ws. Central 56 6 96 1,333 2,023 3,307 1 3 139 70 192 39 66 967 1,620 2,464 Arkansas® 20 12 38 322 363 — 1 1 5 20 31 15 9 21 12 2 2 3 12 1 2 1 2 1 1 1 1 1 1 1 1										94						
North Carolina 6 27 106 749 504 — 2 2 21 70 47 — 6 27 240 63 South Carolina 5 — 16 57 357 508 — 0 3 16 26 — 4 17 71 397 Virginia 5 10 19 88 480 519 — 3 27 62 107 5 5 5 59 123 105 West Virginia — 4 23 120 127 1 0 3 15 26 — 0 3 15 26 — 0 3 5 5 21 2	Georgia	41	39	96	1,092	1,143	_	1	8		48	6	13	30	395	754
Virginials 10 19 88 480 519 — 3 27 62 107 5 5 59 123 105 West Virginia — 4 23 120 127 1 0 3 15 26 — 0 3 5 21 E.S. Central 47 52 140 1,342 1,648 4 5 12 129 156 4 21 58 530 1,233 Alabamash 8 16 49 380 453 1 1 4 30 42 — 4 12 94 293 Mentucky 17 10 18 281 255 2 2 7 44 46 2 1 2 4 4 2 1 2 4 4 2 1 2 4 4 2 1 2 2 1 1 2	North Carolina					504		2	21							
West Virginia							_									
Alabama® 8 16 49 380 453 1 1 4 30 42 — 4 12 94 293 Kentucky 17 10 18 281 255 2 2 7 44 46 2 2 25 134 203 Mississippi 6 12 57 290 525 — 0 1 6 4 — 1 6 17 257 18 20 12 48 285 480 W.S. Central 56 96 1,333 2,023 3,307 1 3 139 70 192 39 66 96 1,620 2,44 Arkansas® 20 12 38 322 363 — 1 5 20 31 56 9 21 1212 301 Louisiana 18 14 102 324 374 1 0							1									
Kentucky																
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Montana§ — 2 7 72 65 — 0 3 14 24 — 0 5 13 4 New Mexico§ — 6 22 166 356 — 1 4 18 32 — 2 12 125 145 140 140 1				26											55	56
New Mexicos Page		_					_					_				
Utah 1 6 15 161 191 — 1 7 31 38 — 1 3 11 16 Wyoming§ — 1 6 43 43 — 0 2 5 10 — 0 1 — 3 Pacific 121 125 537 3,426 2,824 11 9 31 208 184 21 28 82 659 785 Alaska — 2 9 68 27 — 0 1 — 4 — 0 1 3 — California 88 95 516 2,621 2,052 4 5 15 129 95 13 24 75 528 678 Hawaii 4 5 13 146 157 — 0 1 2 11 3 0 3 19 25		1														
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Oregon\$ — 7 20 216 247 — 1 7 16 25 — 1 10 21 40 Washington 29 11 85 375 341 7 3 16 61 49 5 3 11 88 42 American Samoa — 0 1 — 1 — 0 0 — — — 0 2 3 1 C.N.M.I. —																
American Samoa — 0 1 — 1 — 0 0 — — — 0 2 3 1 C.N.M.I. — 14 Puerto Rico 3 11 40 188 377 — 0 0 — — — 0 4 5 15	Oregon§	_	7	20	216	247	_	1	7	16	25	_	1	10	21	40
C.N.M.I. —<	•	29			375					61	49					
Puerto Rico 3 11 40 188 377 — 0 0 — — — 0 4 5 15	C.N.M.I.	_	_	_	_	_		_	_	_	_		_	_		_
					199					_	_					
0.0. virgin islantes — 0 0 — — — 0 0 — — — 0 0 — — —	U.S. Virgin Islands	_	0	0	—	- -	_	0	0	_	_	_	0	0	_	_

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

* 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).

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

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

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

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

* Incidence data for reporting year 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).

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

		S	treptococ	cus pneui	moniae, ir	vasive dis	ease, dru	g resistan	t [†]						
			All ages					ged <5 yea	ırs		Sy			d seconda	ry
	0	Prev 52 w	ious eeks	0	0	0		rious reeks	0	0	0		rious reeks	0	0
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	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 [§]	_	0 0	48 2	8	14	_	0 0	5 1	_	_	3	1 0	5 1	39 1	17 8
Massachusetts New Hampshire	_	0	1 3	2 5	_	_	0	1 0	2	_	4	4 0	11 2	134 11	137 10
Rhode Island§	_	0	6	7	18	_	0	1	_	4	_	0	5	10	14
Vermont§		0	2	11	13	_	0	0	_	2	_	0	2	_	5
Mid. Atlantic New Jersey	1 —	4 0	14 0	112	217 —	_	0	3 0	19	18	25 1	35 4	51 13	1,111 136	990 129
New York (Upstate) New York City	_	1 0	10 4	49 3	46 90	_	0	2 2	10	6 1	2 19	2 23	8 40	73 700	85 606
Pennsylvania	1	1	8	60	81	_	0	2	9	11	3	6	12	202	170
E.N. Central	3	12	41	503	455	2	1	7	68	62	10	24	44	608	674
Illinois Indiana	<u>N</u>	0 4	0 32	N 224	N 158	<u>N</u>	0 0	0 6	N 27	N 19	6 3	8 2	19 10	180 90	265 79
Michigan Ohio		0 7	2 18	18 261	15 282		0	1 4	2 39	2 41	_	3 6	18 15	141 170	124 176
Wisconsin	_	ó	0	_		_	Ö	0	_	_	1	1	4	27	30
W.N. Central	_	2	161	90	150	_	0	3	20	30	_	6	14	172	242
Iowa Kansas	_	0 1	0 5	38	 58	_	0 0	0 2	13	3	_	0 0	2 3	12 18	12 19
Minnesota	_	0 1	156	_	22	_	0	3	 5	22	_	2	6	40 83	61
Missouri Nebraska [§]	_	Ö	5 0	40 —	64 —	_	Ö	0	-	_2	_	0	10 3	15	143 7
North Dakota South Dakota	_	0	3 2	10 2	2 4	_	0	0 2	_	3	_	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	3 N	N	0	0	N	N	_	0	3	22 96	10 83
Florida	2	15	36	N 526	461	<u> </u>	2	13	84	85	1	19	31	581	612
Georgia Maryland [§]	_	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	N	0	0	Ň	Ň	N	0	0	N	Ń	17	8	19	325	162
South Carolina [§] Virginia [§]	N	0	0 0	N	N	N	0	0 0	N	N	1 11	2 5	6 16	62 185	51 151
West Virginia	2	2	13	80	82	_	Ö	3	7	7	_	Ö	2	4	7
E.S. Central Alabama [§]	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	_	Ö	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 [§] Louisiana	_	0 1	5 5	37 29	13 60	_	0 0	3	9 5	3 9	_	4 13	35 40	123 298	98 324
Oklahoma	N	Ö	0	N	N	N	0	Ó	N	N	1	1	7	35	46
Texas [§]	_	0 2	0 7	_	_	_	0	0 3	 17	_	17	31 7	46	1,003 170	778
Mountain Arizona	<u>1</u>	0	0	80	88 —	<u>1</u>	0 0	0	17 —	11 —		2	18 8	22	392 200
Colorado Idaho [§]	N	0	0	N	N	N	0	0	N	 N	1	1 0	5 2	55 3	97 2
Montana§	_	0	į	_	_	_	0	Ó	_	_	_	0	7	_	_
Nevada [§] New Mexico [§]	1	1 0	4 0	29 —	43	1	0 0	2 0	7	5	1	1	7 5	60 28	50 25
Utah	_	1	6	42 9	44 1	_	0	3	9 1	6	_	0	2		16 2
Wyoming [§] Pacific	_	0	1	2	1	_	0	1	1	1	4	46	67	1,297	1,441
Alaska	_	0	Ô	_	_	_	0	0	_	_	_	0	0	· —	1
California Hawaii	N —	0 0	0 1	N 2	N 1	N —	0 0	0 1	N 1	N 1	2	41 0	59 3	1,193 18	1,305 14
Oregon§	N	0	0	N	N	N N	0	0	N	N		1	4	26 60	8
Washington American Samoa	N N	0	0	N N	N N	N N	0	0	N N	N N	_	2 0	0		113
C.N.M.I.	<u></u>	_	_				_	_			_	_	_	=	=
Guam Puerto Rico	_	0	0	_	_	_	0	0 0	_	_	<u>_</u>	0 3	0 11	121	91
U.S. Virgin Islands	_	0	0	_	_	_	0	0	_	_	_	0	0	_	_

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

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

† Incidence data for reporting year 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).

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

				_						st Nile vi	rus disease		-		
			ella (chick	enpox)				uroinvasi	ve				euroinvas	ive§	
	Comment		vious veeks	Cum	C	Command	Previ		C	C	Cumant		rious reeks	C	C
Reporting area	Current week	Med	Max	2009	Cum 2008	Current week	Med	Max	Cum 2009	Cum 2008	Current week	Med	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 [¶]	_	0 0	21 11	_	546 172	_	0 0	2	_	_	_	0	1 0	_	
Massachusetts	_	Ö	1	1	_	_	ő	1	_	_	_	0	0	_	_
New Hampshire	_	4 0	11	136	170	_	0	0	_	_	_	0	0	_	_
Rhode Island [¶] Vermont [¶]	_	3	1 17	4 43	187	_	0 0	1 0	_	_	_	0 0	0	_	_
Mid. Atlantic	8	38	58	989	1,576	_	0	8	1	6	_	0	4	_	1
New Jersey	N	0	0	N	N	_	0	2 5	_		_	0	1	_	1
New York (Upstate) New York City	N —	0	0	N	N	_	0 0	2	1	3	_	0	2 2	_	_
Pennsylvania	8	38	58	989	1,576	_	0	2	_	1	_	0	1	_	_
E.N. Central Illinois	13	157 33	254 73	4,209 835	4,828 670	_	0	8	_	5	_	0	3 2	_	5
Indiana	_	0	73 35	332	670	_	0	4 1	_	1 1	_	0	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	1 1	_	_
W.N. Central	4	22	114	654	784	_	0	6	2	15	_	0	21	3	50
Iowa	Ň	0	0	N	N	_	Ö	1	_	2	_	0	1	_	2
Kansas Minnesota	_	6 0	22 0	176	308	_	0	2 2	_ 1	5	_	0	3 2	_	6 5
Missouri	2	10	51	421	446	_	Ö	3		1	_	Ö	1	_	_
Nebraska [¶]	N	0	0	N	N	_	0	1	_	1	_	0	6	1	9
North Dakota South Dakota	2	0 0	108 4	57	30	_	0 0	0 5		2 4	_	0	11 5		15 13
S. Atlantic	14	56	146	1,376	3,225	_	0	4	_	4	_	0	4	_	3
Delaware	_	0	4	8	26	_	0	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	N	_	0	1	_	_	_	0	1	_	2
Maryland¶ North Carolina	N N	0 0	0	N N	N N	_	0 0	2 1	_	1 1	_	0	3 1	_	_
South Carolina [¶]	_	4	54	154	575	_	Ö	Ó	_			Ö	i	_	_
Virginia [¶]	_	2	119	28	981	_	0	0	_	_	_	0	0	_	1
West Virginia E.S. Central	6	9 14	32 28	281 372	479 829	_	0	0 7	 8	1 10	_	0 0	0 7	3	 24
Alabama [¶]	_	14	28	372	819	_	Ö	3	_	_		Ö	2	_	3
Kentucky	N	0	0	N	N	_	0	1	_	_	_	0	0	_	
Mississippi Tennessee [¶]	N	0 0	1 0	2 N	10 N	_	0 0	4 2	7 1	6 4	_	0	7 3	3	17 4
W.S. Central	_	122	747	4,991	6,021	_	0	8	14	20	_	0	6	1	26
Arkansas¶	_	4	47	96	468	_	0	1	1	5	_	0	0	_	2
Louisiana Oklahoma	N	1 0	6 0	58 N	55 N	_	0 0	3 1	3	3 2	_	0 0	5 1	_	9 4
Texas [¶]	_	115	721	4,837	5,498	_	0	6	10	10	_	0	4	1	11
Mountain	4	33 0	83 0	918	1,438	_	0	12	13	21	_	0	22	7 1	50
Arizona Colorado	4	13	44	349	 575	_	0	10 4	6 1	9 4	_	0	8 10	3	5 17
Idaho¶	N	0	0	N	N	_	Ō	1	1	2	_	Ō	6	_	13
Montana ¹¹ Nevada ¹ 1	N	2 0	20 0	105 N	216 N	_	0 0	1 2	1 3	4	_	0	2 3	3	2 3
New Mexico [¶]	_	3	20	134	153	_	Ö	1	_	1	_	Ö	1	_	_
Utah	_	12	31	330	484	_	0	2	_	1	_	0	5	_	8
Wyoming [¶] Pacific	_	0 3	1 12	106	10 82	_	0	1 38	1 3	— 77	_	0 0	2 23	2	2 49
Alaska	_	2	11	83	82 41	=	0	0	_	_	_	0	23 0	_	_
California	_	0	0	_		_	0	37	3	77	_	0	18	2	46
Hawaii Oregon¶	N	1 0	4 0	23 N	41 N	_	0 0	0 2	_	_	_	0 0	0 4	_	3
Washington	N	0	0	N	N	_	0	1	_	_	_	0	1	_	_
American Samoa	N	0	0	N	N	_	0	0	_	_	_	0	0	_	_
C.N.M.I. Guam	_		3	_	 55	_			_	_	_			_	_
Puerto Rico	2	8	23	276	389	_	0	0	_	_	_	0	0	_	_
U.S. Virgin Islands	_	0	0	_	_	_	0	0	_	_	_	0	0	_	_

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

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

* Incidence data for reporting year 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.

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

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

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

All causes, by age (years)					All causes, by age (years)										
Reporting area	All Ages	≥65	45–64	25–44	1–24	<1	P&I [†] Total	Reporting area	All Ages	≥65	45–64	25–44	1–24	<1	P&I [†] Total
New England	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 4	10
Fall River, MA Hartford, CT	26 53	22 33	10	2 8	_	_	2 5	Jacksonville, FL Miami, FL	169 109	116 65	36 27	10 10	2 4	3	11 9
Lowell, MA	22	16	4	2	_		_	Norfolk, VA	48	30	13	3	1	1	3
Lynn, MA	9	6	1	2	_	_	_	Richmond, VA	49	24	18	3	i	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	U	U	U	U	U	U	U	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 Albany, NY	1,674 39	1,133 26	367 8	101 2	43 3	30	72 3	Chattanooga, TN Knoxville, TN	89 110	65 74	13 28	6 7	5	_ 1	9 11
Allentown, PA	39	25 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	i	_	Mobile. AL	77	47	21	5	3	1	3
Elizabeth, NJ	14	12	1	1	_	_	_	Montgomery, AL	39	24	11	1	2	1	4
Erie, PA	46	33	9	3	1	_	2	Nashville, TN	159	97	42	12	7	1	10
Jersey City, NJ	29	19	9	1	_	_	2	W.S. Central	1,066	626	298	85	31	26	47
New York City, NY	907	615	199	59	19	15	36	Austin, TX	67	41	17	4	3	2	3
Newark, NJ	34	14	11	5	3	1	_	Baton Rouge, LA	70	49	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 4	2	1	3	1	El Paso, TX	69 U	42	15	6 U	4 U	2 U	1 U
Reading, PA Rochester, NY	37 111	31 91	13	2	1	3	5 4	Fort Worth, TX Houston, TX	243	U 108	U 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	i	_	_	1	New Orleans, LA	Ü	Ü	Ü	Ŭ	ΰ	Ü	Ü
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	402	186	120 30	60 9	21 6	15 4	33 9	Denver, CO	67	37 150	19	8	2	1 5	5 17
Cincinnati, OH Cleveland, OH	113 180	64 125	43	8	1	3	10	Las Vegas, NV Ogden, UT	228 35	150 24	50 9	17 1	5	ວ 1	4
Columbus, OH	199	146	33	8	9	3	18	Phoenix, AZ	165	91	51	12	4	7	7
Dayton, OH	107	75	25	3	_	4	5	Pueblo, CO	35	21	10	4			3
Detroit, MI	U	Ü	Ü	Ū	U	Ú	Ü	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 U	1 U	U	U	Long Beach, CA	69	48	17	2	1	10	8
Peoria, IL Rockford. IL	U 47	U 34	U 10	2	1	_	2	Los Angeles, CA Pasadena, CA	237 11	150 8	45 3	21 —	11	10	26 1
South Bend, IN	35	27	6	1	1	_	2	Portland, OR	112	76	28	<u> </u>	2	1	6
Toledo, OH	102	76	23	2		1	2	Sacramento, CA	155	113	32	6	1	3	9
Youngstown, OH	46	42	2	2	_		5	San Diego, CA	149	106	28	7	3	4	9
W.N. Central	489	321	103	34	13	17	13	San Francisco, CA	90	54	26	4	1	5	9
Des Moines, IA	U	U	U	U	U	U	U	San Jose, CA	154	121	22	7	3	1	11
Duluth, MN	22	17	5	_	_	_	1	Santa Cruz, CA	27	15	8	3	1	_	1
Kansas City, KS	23	10	9	3	_	1	_	Seattle, WA	116	76	32	4	1	3	6
Kansas City, MO	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	18	11	2		5
Minneapolis, MN	58	41	8	5	2	2	4	Total [¶]	9,982	6,441	2,383	679	250	224	610
Omaha, NE	53	34	11	5	_	3	3								
St. Louis, MO	87	55	17	6	4	4	_	1							
St. Paul, MN	43	30	10	2	_	1	2	1							
Wichita, KS	59	39	8	4	6	2		<u> </u>							

U: Unavailable. —:No reported cases.

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

† Pneumonia and influenza.

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

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☆ U.S. Government Printing Office: 2009-523-019/41194 Region IV ISSN: 0149-2195