Centers for Disease Control and Prevention

Weekly / Vol. 59 / No. 19

Morbidity and Mortality Weekly Report

May 21, 2010

Locally Acquired Dengue — Key West, Florida, 2009–2010

Dengue is the most common vector-borne viral disease in the world, causing an estimated 50-100 million infections and 25,000 deaths each year (1). During 1946-1980, no cases of dengue acquired in the continental United States were reported. Since 1980, a few locally acquired U.S. cases have been confirmed along the Texas-Mexico border, temporally associated with large outbreaks in neighboring Mexican cities (2-4). On September 1, 2009, a New York physician notified the Monroe County (Florida) Health Department (MCHD) and the Florida Department of Health (FDOH) of a suspected dengue case in a New York state resident whose only recent travel was to Key West, Florida. CDC confirmed the diagnosis, and a press release was issued to notify the public and Key West physicians of the potential risk for locally acquired dengue infections. In the next 2 weeks, two dengue infections in Key West residents without recent travel were reported and confirmed. Subsequently, enhanced and active surveillance identified 24 more Key West cases during 2009. On April 13, 2010, another Key West dengue case was reported to FDOH, bringing the total to 28. This report describes the first three dengue cases reported in 2009, briefly summarizes the 2010 case, highlights preliminary findings from the ongoing investigation, and outlines measures used to mitigate and control the outbreak. Clinicians should include dengue in the differential diagnosis of acute febrile illnesses in patients who live in or have recently traveled to subtropical areas of the United States or to the tropics.

Case Reports

Case 1. On August 11, 2009, a previously healthy woman aged 34 years from Rochester, New York, went to her primary-care provider after 1 day of fever, headache, malaise, and chills. A urine analysis revealed bacteruria and hematuria, and she was treated for a presumptive urinary tract infection. Two days later, on August 13, she returned to her primary-care provider with a worsening headache, retro-orbital pain exacerbated by eye movement, and complaints of feeling light-headed, although her fever had resolved. Physical examination determined that

she was alert and oriented but had substantial discomfort from her headache; further neurologic evaluation determined that the patient had the Romberg sign. She was referred to a local emergency department for further evaluation and management. At the emergency department, she had a temperature of 98.8°F (37.1°C), heart rate of 85 beats per minute, blood pressure of 117/96 mmHg, and respiratory rate of 16 breaths per minute. A complete blood cell (CBC) count revealed a low white blood cell count of 3,900/ μ L (normal: 4,500–10,500/ μ L), a normal hematocrit of 43%, and a low platelet count of 115,000/ μ L (normal: >150,000/ μ L). Her evaluation included an unremarkable computed tomography scan of the head and lumbar puncture. The patient's light-headedness resolved, and she was discharged to home after a 7.5-hour stay in the emergency department.

On August 17, the woman returned to her primary-care provider, saying, "I don't feel right." On examination she had a temperature of 98.8°F (37.1°C), heart rate of 76 beats per minute, blood pressure of 122/60 mmHg, trace pedal edema bilaterally, and petechiae on her lower extremities. During this third visit, a consulting infectious-disease specialist raised the possibility of dengue infection, despite no recent travel by the patient to a known dengue-endemic area. However, on the day of illness onset, she had returned from a 1-week trip to Key West, where she had received multiple mosquito bites. Testing

INSIDE

- 582 Violations Identified from Routine Swimming Pool Inspections — Selected States and Counties, United States, 2008
- 588 Eye-Care Utilization Among Women Aged ≥40 Years with Eye Diseases — 19 States, 2006–2008
- 592 Notice to Readers
- 593 Announcements
- 595 QuickStats





of a serum specimen at a private laboratory revealed dengue immunoglobulin M (IgM) antibodies. After her physician notified MCHD of the test result, the patient's serum specimen from August 17, a cerebral spinal fluid (CSF) specimen from August 13, and a repeat serum specimen from September 3 were sent to CDC for confirmatory testing. Both serum specimens were positive for dengue IgM antibodies by IgM-capture enzyme-linked immunosorbent assay (MAC ELISA). Dengue virus serotype 1 (DENV-1) was detected by reverse transcription-polymerase chain reaction (RT-PCR) from the CSF specimen. The patient had improved when she returned to her primary-care provider on August 19, and she had completely recovered when interviewed by MCHD on September 1.

Case 2. On August 31, 2009, a man aged 48 years from Key West who reported no recent travel outside Florida went to a clinic with a febrile illness that began August 25. The fever was accompanied by headache, myalgia, arthralgia, vomiting, and a truncal maculopapular rash. Laboratory results on that visit included a white blood cell count of $4,900/\mu$ L (normal: $4,500-10,500/\mu$ L), an elevated hematocrit

of 51.1% (normal: 39%-50%), a low platelet count of $82,000/\mu$ L (normal: >150,000/ μ L), aspartate aminotransaminase (AST) of 59 U/dL (normal: 15-41 U/dL), and alanine aminotransaminase (ALT) of 78 U/dL (normal: 15–41 U/dL). The patient was diagnosed with a viral syndrome and instructed to return to the clinic in 2 days. He returned on September 2, at which time he requested diagnostic testing for dengue because he had learned of possible dengue transmission in the area. Testing of a serum specimen at a private laboratory identified dengue IgM antibody. Serum from this specimen and a repeat specimen obtained on September 23 were positive at CDC for dengue IgM by MAC ELISA. All of the man's symptoms, except for minor fatigue, resolved and his hemoglobin and platelet counts normalized by September 15.

Case 3. While following up on the second case, a nurse at MCHD learned that the patient's wife, aged 46 years, had a similar febrile illness beginning on September 9. Her symptoms included headache, eye pain, pruritic truncal rash, nausea and vomiting, chills, and abdominal pain. A diagnosis of dengue sub-

The *MMWR* series of publications is published by the Office of Surveillance, Epidemiology, and Laboratory Services, Centers for Disease Control and Prevention (CDC), U.S. Department of Health and Human Services, Atlanta, GA 30333.

Suggested citation: Centers for Disease Control and Prevention. [Article title]. MMWR 2010;59:[inclusive page numbers].

Centers for Disease Control and Prevention

Thomas R. Frieden, MD, MPH, Director Peter A. Briss, MD, MPH, Acting Associate Director for Science James W. Stephens, PhD, Office of the Associate Director for Science Stephen B. Thacker, MD, MSc, Deputy Director for Surveillance, Epidemiology, and Laboratory Services

MMWR Editorial and Production Staff

Frederic E. Shaw, MD, JD, Editor, MMWR Series

Christine G. Casey, MD, *Deputy Editor*, MMWR Series Robert A. Gunn, MD, MPH, Associate Editor, MMWR Series Teresa F. Rutledge, *Managing Editor*, MMWR Series Douglas W. Weatherwax, *Lead Technical Writer-Editor* Donald G. Meadows, MA, Jude C. Rutledge, *Writer-Editors* Martha F. Boyd, *Lead Visual Information Specialist* Malbea A. LaPete, Stephen R. Spriggs, Terraye M. Starr *Visual Information Specialists* Quang M. Doan, MBA, Phyllis H. King *Information Technology Specialists*

MMWR Editorial Board

William L. Roper, MD, MPH, Chapel Hill, NC, Chairman

Virginia A. Caine, MD, Indianapolis, IN Jonathan E. Fielding, MD, MPH, MBA, Los Angeles, CA David W. Fleming, MD, Seattle, WA William E. Halperin, MD, DrPH, MPH, Newark, NJ King K. Holmes, MD, PhD, Seattle, WA Deborah Holtzman, PhD, Atlanta, GA John K. Iglehart, Bethesda, MD Dennis G. Maki, MD, Madison, WI Patricia Quinlisk, MD, MPH, Des Moines, IA Patrick L. Remington, MD, MPH, Madison, WI Barbara K. Rimer, DrPH, Chapel Hill, NC John V. Rullan, MD, MPH, San Juan, PR William Schaffner, MD, Nashville, TN Anne Schuchat, MD, Atlanta, GA Dixie E. Snider, MD, MPH, Atlanta, GA John W. Ward, MD, Atlanta, GA sequently was confirmed by CDC with detection of dengue IgM in a serum specimen by MAC ELISA.

Latest reported case. On April 9, 2010, a man aged 41 years from Key West was hospitalized with hematuria, leukopenia, and thrombocytopenia. His symptoms had begun April 5 with onset of myalgia, arthralgia, and fever, followed by development of a petechial rash and gingival bleeding on April 7. The patient previously had traveled to dengue-endemic regions but reported no travel outside the United States in 18 months. Initial testing at FDOH laboratories of a serum specimen collected April 13 detected IgM antibodies against both dengue and West Nile virus. Subsequent testing at CDC confirmed the serologic results and additionally confirmed the diagnosis of a recent dengue infection by detecting the presence of dengue-specific nonstructural protein 1 (NS-1) in the serum specimen.

Control Measures and Investigation

In response to the three cases of locally acquired dengue, the Florida Keys Mosquito Control District (FKMCD) increased the frequency of truck and aerial spraying to control adult mosquito populations and initiated an intense door-to-door campaign to find and eliminate mosquito breeding sites. Larvicide and handheld adulticide foggers were used when mosquitoes and larvae were found, and ovitrapping and collection of adult mosquitoes was enhanced. During September–December 2009, a total of 407 pools of adult female Aedes aegypti mosquitoes from throughout Key West were collected and tested for dengue by PCR at FDOH. Two mosquito pools collected in mid-October tested positive for DENV-1. Testing of mosquito pools in Key West for the presence of dengue is ongoing, and FKMCD and CDC also are testing Ae. aegypti mosquitoes in Key West for evidence of insecticide resistance. A public education campaign was conducted by MCHD and FKMCD to emphasize the importance of eliminating mosquito breeding sites and to encourage personal prevention measures against mosquito bites. In addition, FDOH and CDC are providing physician education in south Florida regarding the early identification, prevention, and treatment of dengue.

To determine the extent of dengue infection in the Key West community, a serosurvey was conducted by FDOH and CDC, using randomly selected households, during September 23–27, 2009. Of 240

What is already known on this topic?

Dengue is a worldwide vector-borne disease with the potential to cause outbreaks in the United States.

What is added by this report?

Twenty-eight cases acquired in Key West, Florida, represent the first outbreak of dengue in the continental United States outside of the Texas-Mexico border since 1945 and demonstrate the benefit of timely notification of suspected dengue for initiation of appropriate investigation and control measures.

What are the implications for public health practice?

Further education of the public and U.S. health-care providers regarding the possible risk for acquiring dengue is needed; clinicians should include dengue in the differential diagnosis of acute febrile illness in patients who live in or have recently traveled to subtropical areas of the United States or to the tropics.

participants tested, 13 (5.4%) had evidence of recent dengue infection. In addition, Key West physicians were contacted by MCHD and asked to send serum specimens to CDC from all patients with signs and symptoms consistent with dengue. Of 21 specimens submitted during September 23-November 27, nine (42.9%) were positive by either dengue RT-PCR (three), NS-1 assay (one), or IgM ELISA (five). For additional case finding, medical records from three acute health-care facilities in Key West were reviewed for patients treated during July 15-September 15 who had symptoms consistent with dengue infection. Of six persons considered to have dengue-like illnesses and contacted for testing, four were positive for recent dengue infection. Because two of the four cases also had been counted in the serosurvey, the total number of dengue cases acquired in Key West in 2009 was 27, including the index case in the traveler from New York and the 26 cases in Key West residents.

Onset dates in the 27 Key West residents ranged from July 22, 2009, to April 5, 2010 (Figure), indicating that transmission began occurring before the August 10, 2009, onset of symptoms in the New York resident and continued for months afterward. The 28 patients ranged in age from 15 to 73 years (median: 47 years). Fever was reported by all 28; headache, myalgia, arthralgia, eye pain, and rash also were commonly reported (Table). Six patients reported some type of bleeding; four had blood in their urine, two reported gingival bleeding, one reported excessive vaginal bleeding, and one reported epistaxis.



FIGURE. Number of locally acquired dengue cases (N = 28), by week of illness onset and method of identification — Key West, Florida, 2009–2010

*Two cases identified in both household serosurvey and medical record review are shown as record review cases.

⁺ Week of illness onset in index patient.

Reported by

A Trout, MD, Rochester General Hospital, New York. G Baracco, MD, M Rodriguez, Miami Veterans Affairs Healthcare System; J Barber, Monroe County Health Dept; A Leal, Florida Keys Mosquito Control District; E Radke, MPH, K Weis, PhD, D Stanek, DVM, L Stark, PhD, C Blackmore, DVM, PhD, Florida Dept of Health. G Gallagher, E Hunsperger, PhD, K Tomashek, MD, Div of Vector-Borne Diseases, National Center for Emerging and Zoonotic Infectious Diseases (proposed); C Gregory, MD, E Sauber-Schatz, PhD, EIS officers, CDC.

Editorial Note

The outbreak described in this report represents the first dengue cases acquired in the continental United States outside of the Texas-Mexico border since 1945 and the first locally acquired cases in Florida since 1934. Concern about the potential for emergence of dengue in the continental United States has increased in recent years (5). Reported dengue cases in South America, Central America, Mexico, and the Caribbean increased fourfold, from 1,033,417 during 1980–1989 to 4,759,007 during 2000–2007 (6). Rapid urbanization with a proliferation of man-made containers able to serve as mosquito-breeding sites, increased international travel, and lack of effective vector-control measures likely have been major factors in the spread of dengue. TABLE. Characteristics of patients (N = 28) with locally acquired dengue — Key West, Florida, 2009–2010

Characteristic	No.	(%)*
Sex		
Male	19	(68)
Female	9	(32)
Age group (yrs)		
<20	1	(4)
21–40	11	(39)
41–60	11	(39)
>60	5	(18)
Race		
White	24	(86)
Black	3	(11)
Asian/Pacific Islander	1	(4)
Ethnicity		
Non-Hispanic	25	(89)
Hispanic	3	(11)
Symptoms		
Fever	28	(100)
Headache	22	(79)
Myalgia	23	(82)
Arthralgia	18	(64)
Eye pain	14	(50)
Rash	15	(54)
Bleeding	6	(21)

* Percentages might not add to 100% because of rounding.

Since 1980, seven localized outbreaks have occurred along the Texas-Mexico border (2–4). The most efficient mosquito vector, *Ae. aegypti*, is found in the southern and southeastern United States. A secondary vector, *Ae. albopictus*, has spread throughout the southeastern United States since its introduction in 1985 and was responsible for a dengue outbreak in Hawaii in 2001, likely after the virus was introduced by a Hawaii resident returning from Tahiti (7).

Cases of dengue in returning U.S. travelers have increased steadily during the past 20 years (8). Dengue is now the leading cause of acute febrile illness in U.S. travelers returning from the Caribbean, South America, and Asia (9). Many of these travelers are still viremic upon return to the United States and potentially capable of introducing dengue virus into a community with competent mosquito vectors. Because of concerns over the increasing number of travel-associated dengue infections, the risk for local transmission upon introduction of the virus, and the risk for potential transmission of the virus by blood transfusion (10), the Council of State and Territorial Epidemiologists (CSTE) made dengue a nationally notifiable disease in 2009.

Many dengue infections, particularly in children, cause no symptoms or a nonspecific febrile illness, but dengue infection also can cause classic dengue fever or severe life-threatening disease (e.g., dengue hemorrhagic fever or dengue shock syndrome). Laboratory confirmation of dengue infection can be obtained by viral isolation or identification of dengue virus by dengue-specific PCR in a specimen collected within the first 5 days of illness (an acute phase specimen), or seroconversion demonstrated between a paired acute phase specimen and a convalescent phase specimen (collected within 6-30 days of illness onset). Dengue NS-1 also can be detected within the first 10 days after symptom onset by an assay that is currently not approved by the Food and Drug Administration. Probable recent dengue cases are defined by identification of dengue IgM antibodies in a single specimen. The dengue case definition and additional information regarding dengue diagnosis and reporting are available at http://www.cste.org/ ps2009/09-id-19.pdf.

Why dengue has reemerged in Florida at this time is unknown. Dengue might have been present in the community earlier and is only now being detected. The environmental and social conditions for dengue transmission have long been present in south Florida: the potential for introduction of virus from returning travelers and visitors, the abundant presence of a competent mosquito vector, a largely nonimmune population, and sufficient opportunity for mosquitoes to bite humans. The increased volume of international travel has been implicated in the spread of dengue globally, and the popularity of south Florida as a tourist destination enhances the likelihood of virus introduction and subsequent local transmission. The volume of domestic visitors to the area also might increase the risk for localized transmission in other parts of the United States with competent mosquito vectors. The reemergence of dengue in Florida as well as the threat posed to the United States from other emerging mosquito-borne arboviruses (e.g., chikungunya) emphasizes the necessity for strong vector-borne surveillance and mosquito control infrastructure to rapidly identify and control outbreaks of dengue or other mosquito-borne diseases.

The timely reporting of dengue in the index patient from New York illustrates that, despite an absence of compatible travel history, clinicians throughout the United States should consider appropriate laboratory testing based upon clinical presentation. Had the index patient not been evaluated promptly and reported, the cases in Key West residents likely would not have been diagnosed. Dengue should be included in the differential diagnosis of acute febrile illnesses for patients who live in or have recently traveled to subtropical areas in the United States or to the tropics. This is particularly important when signs and symptoms such as thrombocytopenia, leukopenia, hemoconcentration, rash, or eye pain are present. Prompt reporting of suspected dengue cases to public health authorities can facilitate a coordinated response resulting in detection of locally acquired cases or helping to define new areas of transmission. Additional information regarding dengue prevention, diagnosis, and management is available at http://www.cdc.gov/ dengue.

References

- 1. Gibbons RV, Vaughn DW. Dengue: an escalating problem. BMJ 2002;324:1563-6.
- CDC. Dengue fever at the US-Mexico border, 1995–1996. MMWR 1996;45:841–4.
- CDC. Dengue hemorrhagic fever—US-Mexico border, 2005. MMWR 2007;56:785–9.
- 4. CDC. Underdiagnosis of dengue—Laredo, Texas, 1999. MMWR 2001;50:57–9.
- Morens DM, Fauci AS. Dengue and hemorrhagic fever: a potential threat to public health in the United States. JAMA 2008;299:214–6.
- 6. San Martin JL, Brathwaite O, Zambrano B, et al. The epidemiology of dengue in the Americas over the last three decades: a worrisome reality. Am J Trop Med Hyg 2010;82:12–35.
- 7. Effler PV, Pang L, Kitsutani P, et al. Dengue fever, Hawaii, 2001–2002. Emerg Infect Dis 2005;11:742–9.
- Wilder-Smith A, Schwartz E. Dengue in travelers. N Engl J Med 2005;353:924–32.
- Freedman DO, Weld LH, Kozarsky PE, et al. Spectrum of disease and relation to place of exposure among ill returned travelers. N Engl J Med 2006;354:119–30.
- Mohammed H, Linnen JM, Muñoz-Jordan JL, et al. Dengue virus in blood donations, Puerto Rico, 2005. Transfusion 2008;48:1348–54.

Violations Identified from Routine Swimming Pool Inspections — Selected States and Counties, United States, 2008

Swimming is the third most popular U.S. sport or exercise activity, with approximately 314 million visits to recreational water venues, including treated venues (e.g., pools), each year (1). The most frequently reported type of recreational water illness (RWI) outbreak is gastroenteritis, the incidence of which is increasing (2). During 1997–2006, chlorineand bromine-susceptible pathogens (e.g., Shigella and norovirus) caused 24 (23%) of 104 treated venue-associated RWI outbreaks of gastroenteritis, indicating lapses in proper operation of pools (2). Pool inspectors help minimize the risk for RWIs and injuries by enforcing regulations that govern public treated recreational water venues. To assess pool code compliance, CDC analyzed 2008 data from 121,020 routine pool inspections conducted by a convenience sample of 15 state and local agencies. Because pool codes and, therefore, inspection items differed across jurisdictions, reported denominators varied. Of 111,487 inspections, 13,532 (12.1%) resulted in immediate closure because of serious violations (e.g., lack of disinfectant in the water). Of 120,975 inspections, 12,917 (10.7%) identified disinfectant level violations. Although these results likely are not representative of all pools in the United States, they suggest the need for increased public health scrutiny and improved pool operation. The results also demonstrate that pool inspection data can be used as a potential source for surveillance to guide resource allocation and regulatory decision-making. Collecting pool inspection data in a standardized, electronic format can facilitate routine analysis to support efforts to reduce health and safety risks for swimmers.

Prevention of RWIs at treated venues requires pool operators to 1) maintain appropriate disinfectant and pH levels to maximize disinfectant effectiveness and 2) ensure optimal water circulation and filtration. Pool codes, promulgated by individual state or local public health agencies, govern pool operation.

CDC selected a convenience sample of 15 health agencies in four states and 11 counties or cities* to participate in an analysis of pool inspection data. For inclusion, data from inspections had to be in an electronic format and the agency had to provide \geq 1,000 pool and spa inspection records[†] for 2008. Each agency's pool inspection data were standardized for analysis and included information on water chemistry, circulation and filtration system, policy and management, and pool setting and type. A violation was defined as an inspection item that did not meet standards set by the jurisdiction's pool code. CDC developed an algorithm based on facility name to classify pool setting (e.g., "hotel A" was coded as "hotel/motel"). Facility-identifying data then were deleted, and data from individual agencies were aggregated. Denominators in this report vary because pool codes, and therefore inspection items, differed across jurisdictions.

During 2008, inspectors in the 15 jurisdictions conducted a total of 121,020 routine pool inspections. Among the 121,020 inspections, the number of code violations identified ranged from 0 to 28 (median: 1), and 73,953 (61.1%) inspections identified one or more violations. A total of 13,532 (12.1%) of 111,487 inspections identified serious violations that threatened the public's health and resulted in immediate pool closure. Of 120,975 inspections, 12,917 (10.7%) identified disinfectant level violations; of

^{*}The 15 participating agencies and their total number of routine pool inspections conducted in 2008: Florida Department of Health (52,752), Nebraska Department of Health and Human Services (1,132), New York State Department of Health (7,384), South Carolina Department of Health and Environmental Control (22,111), Columbus (Ohio) Public Health (2,117), DeKalb County (Georgia) Board of Health (2,755), Jefferson County (Alabama) Department of Health (982), King County (Washington) Public Health (2,300), Los Angeles County (California) Environmental Health (7,890), Maricopa County (Arizona) Environmental Services Department (15,075), Mecklenburg County (North Carolina) Health Department (1,248), Oklahoma City-County (Oklahoma) Health Department (1,802), Sacramento County (California) Environmental Management Department (1,016), Taney County (Missouri) Health Department (549), Tulsa (Oklahoma) Health Department (1,907).

[†] Although data from the agencies included hot tub inspection records, this report focused only on pool inspection data.

113,597 inspections, 10,148 (8.9%) identified pH level violations. Other water chemistry violations§ were documented during 12,328 (12.5%) of 98,907 inspections, with the number identified per inspection ranging from zero to four. Circulation and filtration violations[¶] were documented during 35,327 (35.9%) of 98,361 inspections, with the number identified per inspection ranging from zero to nine. The following violations also were identified: improperly maintained pool log (12,656 [10.9%] of 115,874 inspections), unapproved water test kit used (2,995 [3.3%] of 90,088 inspections), valid pool license not provided and/or posted (741 [2.7%] of 28,007 inspections), and operator training documentation not provided and/or posted (1,542 [18.3%] of 8,439 inspections).

Of the 121,020 inspection records, 59,890 (49.5%) included pool setting data. Among venues with known pool settings, child-care pool inspections had the highest percentage of immediate closures (17.2%), followed by hotel/motel and apartment/ condominium pool inspections (15.3% and 12.4% respectively) (Table 1). Apartment/condominium and hotel/motel pool inspections had the highest percentage of disinfectant level violations (13.1% and 12.8%, respectively). Child-care and apartment/ condominium pool inspections had the highest percentage of pH level violations (11.8% and 10.0%, respectively). Approximately 35% of inspections of apartment/condominium pools, hotel/motel pools, and water parks identified circulation and filtration violations.

Of the 121,020 inspection records, 113,632 (93.9%) included pool type data. Interactive fountain inspections had the highest percentage of immediate closures (17.0%) (Table 2). Kiddie/wading pool inspections had the highest percentage of disinfectant level violations (13.5%), followed by interactive fountain inspections (12.6%). Therapy pool inspections had the lowest percentage of disinfectant and pH level violations but the highest percentage of other water chemistry violations (43.9%). Interactive fountain

inspections identified the lowest percentage of circulation and filtration violations (12.8%).

Reported by

L Hendrix, Jefferson County Dept of Health, Alabama. D Ludwig MPH, Maricopa County Environmental Svcs Dept, Arizona. B Franklin, Los Angeles County Environmental Health; C Maitoza, Sacramento County Environmental Management Dept, California. N Doxford, Florida Dept of Health. SE Ford, MD, DeKalb County Board of Health, Georgia. J Compton, Taney County Health Dept, Missouri. BF Buss, DVM, Career Epidemiology Field Officer Program, Office of Public Health Preparedness and Response, Nebraska Dept of Health and Human Svcs. D Sackett, New York State Dept of Health. D Salmen, Mecklenburg County Health Dept, North Carolina. K Krinn, MA, Columbus Public Health, Ohio. S Campbell, MES, Oklahoma City-County Health Dept, R Roth, Tulsa Health Dept, Oklahoma. E Florom, South Carolina Dept of Health and Environmental Control. T Clements, MS, King County Public Health, Washington. D Newell, Garrison Enterprises, Charlotte, North Carolina. EC Ailes, PhD, SA Collier, MPH, Atlanta Research and Education Foundation, Atlanta Veterans Admin Medical Center, Georgia. C Otto, Div of Emergency and Environmental Health Svcs, National Center for Environmental Health; IM Roberts, MA, Div of Parasitic Diseases, Center for Global Health; MC Hlavsa, MPH, MJ Beach, PhD, Div of Foodborne, Waterborne and Environmental Diseases (proposed), National Center for Zoonotic and Emerging Infectious Diseases (proposed); EL Dunbar, MPH, CDC/Assoc of Schools of Public Health Fellow, CDC.

Editorial Note

This report is the second to examine pool code compliance in multiple U.S. jurisdictions. The first report analyzed aggregated pool inspection data collected during May 1-September 1, 2002, from six jurisdictions (3). This report examined data from more jurisdictions and for an entire year, resulting in a sample more than five times larger than reported previously. The conclusions from the two reports are similar: pool operation violations and immediate closures appear to be common in the United States. Although the sampled jurisdictions are not necessarily representative of the United States, the results underscore the public health importance of pool inspections. The results also underscore the potential for inspection data to better inform and direct public health decision-making regarding swimmer health and safety, particularly if these data are standardized.

Pool inspections are a key part of ensuring pool code compliance (4). This report indicates that routine pool inspections resulted in a high percentage (12.1%) of immediate closures because of serious

[§]Aggregated, dichotomous variable indicating whether at least one of the following inspection items was found to be in violation: cyanurate levels, algae, bacterial quality, disinfectant/pH chemical feeders, total alkalinity, calcium hardness, total dissolved solids, saturation index, and oxidation reduction potential.

Aggregated, dichotomous variable indicating whether at least one of the following inspection items was found to be in violation: turbidity, cross connections, flow meter, water level, turnover, skimmer/gutter, weirs, filter, gauges, and pipe labeling.

TABLE 1. Number of routine pool inspections (N = 121,020) and percentage of those inspections with identified violations of state and/or local pool codes, by pool setting and violation type — selected states and counties,* United States, 2008

	Apartr cono miniu	nent/ do- um [†]	Ca gro	mp- und [§]	Ca	mp¶	C ca	hild ire**	Hos	pital ⁺⁺	Hot mote	el/ el ^{§§}	Memb clu	ership b ^{¶¶}	Munic	ipal***	Sch univer	ool/ sity ^{†††}	W pa	/ater rk ^{§§§}	Unknov	wn ^{¶¶¶}	Over	all
Type of violation	No.	(%)	No.	(%)	No.	(%)	No.	(%)	No.	(%)	No.	(%)	No.	(%)	No.	(%)	No.	(%)	No.	(%)	No.	(%)	No.	(%)
Serious (pools closed immediately)	32,818	(12.4)	322	(8.7)	199	(10.6)	58	(17.2)	180	(6.7)	15,245	(15.3)	3,666	(9.9)	843	(9.6)	900	(9.0)	326	(6.4)	56,930	(11.4)	111,487	(12.1)
Water chemistry																								
Disinfectant level	34,492	(13.1)	466	(6.0)	706	(6.1)	91	(9.9)	207	(6.3)	16,561	(12.8)	4,401	(9.5)	1,020	(11.5)	1,577	(6.6)	343	(10.8)	61,111	(9.0)	120,975	(10.7)
pH level	33,476	(10.0)	322	(3.7)	199	(5.5)	68	(11.8)	199	(4.0)	15,597	(9.0)	3,806	(7.9)	844	(5.8)	913	(6.2)	326	(5.5)	57,847	(8.5)	113,597	(8.9)
Other water chemistry****	32,205	(13.5)	278	(11.2)	683	(8.2)	82	(12.2)	161	(19.9)	11,318	(13.6)	3,467	(11.2)	907	(7.4)	1,504	(10.4)	226	(8.0)	48,076	(11.8)	98,907	(12.5)
Circulation and filtration system ^{††††}	32,095	(38.4)	278	(25.9)	681	(24.2)	82	(26.8)	153	(26.1)	11,143	(36.2)	3,407	(28.6)	907	(23.5)	1,504	(21.0)	216	(35.2)	47,895	(35.6)	98,361	(35.9)
Policy and manger	nent																							
Pool log improperly maintained	32,234	(12.0)	465	(2.6)	698	(5.7)	84	(2.4)	195	(7.7)	15,559	(10.1)	4,070	(8.4)	1,013	(6.9)	1,541	(6.8)	320	(1.6)	59,695	(11.1)	115,874	(10.9)
Unapproved water test kit used	28,657	(3.5)	276	(2.9)	675	(4.7)	74	(6.8)	96	NA ^{§§§§}	9,729	(2.8)	2,938	(2.7)	893	(2.4)	1,390	(2.4)	184	(1.1)	45,176	(3.4)	90,088	(3.3)
Pool license	7,980	(3.8)	167	(1.8)	543	(0.6)	38	(2.6)	35	NA	2,963	(0.9)	1,318	(1.1)	457	(1.5)	844	(0.8)	21	NA	13,641	(2.8)	28,007	(2.7)
Operator training documentation not provided and/or posted	6,553	(21.9)	0	_	0	_	0	_	26	(7.7)	893	(4.0)	299	(11.4)	227	(0.9)	128	(7.0)	95	NA	218	(12.4)	8,439	(18.3)

* Florida, Nebraska, New York, South Carolina, Columbus (Ohio), DeKalb County (Georgia), Jefferson County (Alabama), King County (Washington), Los Angeles County (California), Maricopa County (Arizona), Mecklenburg County (North Carolina), Oklahoma City-County (Oklahoma), Sacramento County (California), Taney County (Missouri), and Tulsa (Oklahoma).

[†] Apartment/condominium inspections (n = 34,504) include venue titles containing: apartment, apt, condo, home owners association, property owners association, residents association, townhome, and townhouse.

§ Campground inspections (n = 466) include venue titles containing: campground, camping, campsite, and campground chain names.

[¶] Camp inspections (n = 706) include venue titles containing: camp, day camp, overnight camp, summer program, and summer camp.

** Child care inspections (n = 92) include venue titles containing: daycare, preschool, and nursery school.

⁺⁺ Hospital inspections (n = 207) include venue titles containing: hospital, medical, physical therapy, and rehabilitation.

§§ Hotel/motel inspections (n = 16,569) include venue titles containing: motel, hotel, resort, and hotel and motel chain names

^{¶¶} Membership club inspections (n = 4,405) include venue titles containing: athletic club, fitness, gym, sports club, country club, and certain national clubs and health associations.

*** Municipal inspections (n = 1,020) include venue titles containing: city of, city pool, county, municipal, parks and recreation, public bath, public pool, town of, and civic association.

*** School/university inspections (n = 1,578) include venue titles containing: public school, college, university of, univ., and elementary, middle, and high schools.

\$\$\$ Water park inspections (n = 343) include venue titles containing: adventure, amusement park, water park, and waterslide.

^{¶¶¶} Unknown inspections (n = 61,130) include venues where setting algorithim could not identify setting based on facility name.

**** Aggregated, dichotomous variable indicating whether at least one of the following inspection items was found to be in violation: cyanurate levels, algae, bacterial quality, disinfectant/ pH chemical feeders, total alkalinity, calcium hardness, total dissolved solids, saturation index, and oxidation reduction potential.

++++ Aggregated, dichotomous variable indicating whether at least one of the following inspection items was found to be in violation: turbidity, cross connections, flow meter, water level, turnover, skimmer/gutter, weirs, filter, gauges, and pipe labeling.

§§§§ Not applicable; no violations found.

code violations. Moreover, disinfectant and pH level violations were identified during 10.7% and 8.9% of pool inspections, respectively. Such violations are particularly important because improper disinfectant and pH levels can result in transmission of chlorine-and bromine-susceptible pathogens. Reduced chlorine levels and lower inspection scores have been associated with positive microbiologic water testing results (5). In this report, 18.3% of inspections noted that operator training documentation was not provided and/or posted as required. Pool operator training has been associated with decreased water quality violations (6).

This analysis suggests that efforts to prevent RWIs should focus on certain pool settings (i.e., apartment/condominium, hotel/motel, and child care) or types (i.e., kiddie/wading pools and interactive fountains). In pool settings where swimming is not the primary activity, the person responsible for pool operation likely has other competing responsibilities (e.g., heating and air conditioning maintenance). Requiring operator training for staff responsible for pool operation might improve water quality, and should be considered for these and other pool settings. Among pool types, maintaining adequate disinfectant levels at kiddie/wading pools and interactive fountains is challenging because shallow depth, aeration, sunlight, and organic material (e.g., feces, urine, sweat, and dirt) from young children deplete disinfectant. Disinfectant and pH levels should be measured and adjusted more frequently at these pool types, particularly when bather load is high.

	Interactive fountain [†]		Kiddie/ Wading [§]		Other pool type [¶]		¶ Pool**		Therapy ^{††}		Unknown ^{§§}		Overall	
Type of violation	No.	(%)	No.	(%)	No.	(%)	No.	(%)	No.	(%)	No.	(%)	No.	(%)
Serious (pools closed immediately)	94	(17.0)	5,898	(15.8)	2,043	(8.1)	103,349	(12.0)	99	(8.1)	4	(50.0)	111,487	(12.1)
Water chemistry														
Disinfectant level	95	(12.6)	5,897	(13.5)	2,041	(9.6)	105,455	(10.7)	99	(8.1)	7,388	(7.8)	120,975	(10.7)
pH level	95	(8.4)	5,898	(9.9)	2,041	(9.5)	105,460	(8.9)	99	(2.0)	4	(25.0)	113,597	(8.9)
Other water chemistry ^{¶¶}	47	(8.5)	2,728	(11.4)	1,584	(8.5)	87,094	(12.8)	66	(43.9)	7,388	(9.5)	98,907	(12.5)
Circulation and filtration system***	47	(12.8)	2,682	(28.2)	1,581	(22.3)	86,606	(38.0)	57	(36.8)	7,388	(16.9)	98,361	(35.9)
Policy and mangement														
Pool log improperly maintained	79	(7.6)	5,477	(4.0)	2,022	(3.0)	100,818	(11.9)	90	(16.7)	7,388	(5.3)	115,874	(10.9)
Unapproved water test kit used	19	NA ⁺⁺⁺	2,080	(1.6)	1,500	(1.1)	79,094	(3.4)	7	NA	7,388	(3.9)	90,088	(3.3)
Pool license	15	NA	405	(0.5)	467	(0.2)	19,732	(3.1)	0	_	7,388	(1.8)	28,007	(2.7)
Operator training documentation not provided and/or posted	4	NA	174	(8.6)	145	(2.1)	8,116	(18.8)	0	_	0	_	8,439	(18.3)

TABLE 2. Number of routine pool inspections (N = 121,020) and percentage of those inspections with identified violations of state and/or local pool codes, by pool type and violation type — selected states and counties,* United States, 2008

* Florida, Nebraska, New York, South Carolina, Columbus (Ohio), DeKalb County (Georgia), Jefferson County (Alabama), King County (Washington), Los Angeles County (California), Maricopa County (Arizona), Mecklenburg County (North Carolina), Oklahoma City-County (Oklahoma), Sacramento County (California), Taney County (Missouri), and Tulsa (Oklahoma).
 † Interactive fountain inspections (n = 95) include splash parks, spray pads, and wet decks.

⁵ Kiddie/wading inspections (n = 5,900).

Other pool type inspections (n = 2,043) include special purpose pools, water attractions, water activity, water slides, and lazy rivers.

** Pool inspections (n = 105,495) include traditional swimming pools and exclude interactive fountains, kiddie/wading pools, other pool types, or therapy pools.

⁺⁺ Therapy inspections (n = 99) include therapy pools.

^{§§} Unknown inspections (n = 7,388) include pools where type was not recorded at inspection.

^{¶¶} Aggregated, dichotomous variable indicating whether at least one of the following inspection items was found to be in violation: cyanurate levels, algae, bacterial quality, disinfectant/ pH chemical feeders, total alkalinity, calcium hardness, total dissolved solids, saturation index, and oxidation reduction potential.

** Aggregated, dichotomous variable indicating whether at least one of the following inspection items was found to be in violation: turbidity, cross connections, flow meter, water level, turnover, skimmer/gutter, weirs, filter, gauges, and pipe labeling.

⁺⁺⁺ Not applicable; no violations found.

The findings in this report are subject to at least three limitations. First, the results of these inspections might not be representative of inspections conducted by agencies nationwide. Second, some jurisdictions combined multiple inspection items into a single variable (to increase efficiency of data entry), which could lead to an underestimate of the actual total number of violations. Finally, pool setting was specified for <50% of inspections, limiting interpretation of these stratified results.

If pool inspection data were available in a standardized electronic format within a jurisdiction, routine analysis would be facilitated, which could better inform and direct public health decision-making at the state and local level, especially in an era of budget cuts and furloughs (7). For example, inspection programs might boost their effectiveness by targeting educational and regulatory enforcement activities at venues where inspection data indicate violations are disproportionately high. State and local agencies also could use inspection data for program evaluation (e.g., assessing closure and violation trends or differences in results by inspector), as demonstrated with other inspection data (8).

In 2005, federal, state, and local public health officials and aquatic sector representatives met to identify factors contributing to the increasing incidence of reported RWI outbreaks in the United States (2). They identified the variability of pool codes (2). across jurisdictions as a key barrier to RWI prevention. Since 2007, CDC has sponsored a national, state, and local public health and aquatic sector effort to create a Model Aquatic Health Code (MAHC). MAHC will include national standards for pool design, construction, operation, and maintenance and guidance for inspections that are based on scientific evidence or best practices to reduce the risk for RWI and injury at public treated venues (9). Voluntary state and local adoption of MAHC could promote standardization of pool codes nationally and, in turn, could result in standardized pool inspection data by defining how and which elements are collected (Box). Standardized, electronic pool inspection data across jurisdictions would supply needed baseline data and enable future monitoring and evaluation

Recommendation Analysis outcome or rationale Provide a unique identifier for each venue (e.g., permit number or Generates a violation history for each venue. facility title). Provide a unique identifier for each body of treated recreational water Generates a violation history for each body of treated recreational water at the venue. This allows tracking of specific high-risk areas at at a venue. larger venues (e.g., kiddie pools). Provide a unique identifier for each inspection of each individual body of Allows analysis of inspection data by body of treated water over time. treated recreational water at an aquatic venue (i.e., do not include multiple bodies in one inspection record). Specify pool setting (e.g., hotel/motel or apartment/condominium). Allows identification of differences in risk for recreational water illnesses and injuries by pool setting. Specify pool type (e.g., pool, wading pool, therapy pool, or interactive Allows identification of differences in risk for recreational water fountain). illnesses and injuries by pool type. Specify water location (i.e., indoor or outdoor). Allows identification of differences in maintaining water and air quality by location. Specify type of inspection conducted (e.g., routine inspection or Directs program planning and evaluation and provides census of inspection in response to public complaint). mandatory inspections. Identify inspector who conducted inspection. Allows identification of differences among inspectors and helps ensure uniformity of program inspections. Limit each data field to one inspection item (e.g., do not combine Facilitates data interpretation and analysis. multiple violations into one field). Set value limits for data entry for each inspection item. Reduces data entry errors and facilitates data analysis. Differentiate among inspected items found to be in compliance, out of Allows determination of the number of inspections in the compliance, corrected on the spot, not observed, or not applicable. denominator of the proportion of inspections with identified violations. Proportions can be used to track trends over time. Standardize inspector notes (e.g., provide a pick list). Facilitates data entry and analysis. Inspector's notes (e.g., "pH is too low and needs to be raised") provide detailed information. Differentiates among disinfectants, which have different required Specify disinfectant type. minimum and/or maximum levels. Include actual numeric values measured for total and free disinfectant, Allows analysis of critical variables, particularly those with upper and lower limits, to determine which limits were violated. Total and free cyanurate, and pH or note that no reading was taken. (Limit this field to disinfectant levels can be used to calculate combined disinfectant numeric data only. Including characters such as "<" or ">" increases the need for data cleaning.) levels. If data entry is too resource intensive, prioritize by order of importance Facilitates data entry and analysis. (e.g., inspection items that if found to be in violation would result in closure). Specify inspection outcome (e.g., pool closed due to serious violations, Directs program planning and evaluation. pool passed inspection, or reinspection needed). Log time required for inspection. Assesses resource requirements and guides resource allocation. Design database that is flexible and allows data fields to change over time. Allows database to be altered with changes in pool code and program needs. (Changes to data collection or entry can preclude analysis of trends over time.) * CDC recommends that before creating a pool inspection database, agencies should establish the objectives of data collection, entry, analysis,

BOX. Recommendations for pool inspection data collection and database creation with supporting rationale*

* CDC recommends that before creating a pool inspection database, agencies should establish the objectives of data collection, entry, analysis, interpretation, and dissemination. The objectives will determine how and which data are collected and entered. Electronic data facilitate 1) data analysis and 2) use of these data for public health decision-making. Entering electronic data at point of observation (e.g., via a handheld computer) is ideal but not always possible. Another option is to scan data collection forms to reduce resource burdens. Electronic data also can facilitate public access if inspection reports are uploaded to the Internet. (Adapted from http://www.cdc.gov/healthywater/swimming/pools/regulation/ recommendations-pool-inspection-data-collection.html.)

What is already known on this topic?

Pool inspection programs are important in assessing and enforcing compliance with pool codes aimed at minimizing the risk for recreational water illness and injury.

What is added by this report?

Analysis of routine pool inspection data from a convenience sample of 15 jurisdictions with 121,020 inspections found that almost one out of eight inspections conducted in 2008 resulted in immediate closure because of serious code violations (e.g., lack of disinfectant in the water).

What are the implications for public health practice?

Pool inspection data can be used as a potential source for surveillance to guide resource allocation and regulatory decision-making to reduce health and safety risks for swimmers; the Model Aquatic Health Code can facilitate systematic collection of pool inspection data.

of MAHC as a public health resource for state and local jurisdictions in their efforts to promote swimmer health and safety.

Acknowledgments

This report is based, in part, on contributions by E Wright, Jefferson County Dept of Health, Alabama; G Epperson, Maricopa County Environmental Svcs Dept, Arizona; M Davin, Pueblo City-County Health Dept, S Evans, Weld County Dept of Public Health and Environment, Colorado; R Vincent, P Anderson, Florida Dept of Health; B Trundle, Catoosa County Environmental Health, R Cira, MPH, S Gaines, DeKalb County Board of Health, D Hornsby, L Westcott, Gwinnett County Environmental Health, Georgia; M Mettler, Environmental Public Health Div, K Harrington, R Hooton, St. Joseph County Health Dept, Indiana; L Linnenbrink, Scott County Health Dept, Iowa; G Edwards, A Georgeson, Minnesota Dept of Health; C Fernandez, Environmental Health Dept, City of Minneapolis, Minnesota; L Hunter, L Randolph, Taney County Health Dept, Missouri; T Huffman, J Daniel, Nebraska Dept of Health and Human Svcs; T Wilson, New Hampshire Dept of Environmental Svcs; D Mead, T Shay, New York State Dept of Health; C Stilwell, Mecklenburg County Health Dept, North Carolina; K Madden, Columbus Public Health, Ohio; M Rockey, C Li, Oklahoma City-County Health Dept, Oklahoma; SB Keifer, E Van Ess, Oregon Dept of Human Svcs; J Kawaguchi, Multnomah County Environmental Health, Oregon; D Cinpinski, Allegheny County Health Dept, Pennsylvania; JL Ridge, South Carolina Dept of Health and Environmental Control; T Vyles, MA, Plano Health Dept, G Rothbarth, W Turpen, Tarrant County Public Health, Texas; RM Mason, L Wood, Tennessee Div of General Environmental Health; S Hughes, Alexandria Dept of Health, C Gordon, Virginia Dept of Health; M McGinn, Clark County Environmental Public Health, S Main, Spokane County Health Dept, B Petek, Kitsap County Health District, D DeLong, Tacoma-Pierce County, G Fraser, Office of Environmental Health, Safety, and Toxicology, Washington; N Bloomenrader, Wyoming Dept of Agriculture; and C Nolan, Garrison Enterprises, Charlotte, North Carolina.

References

- 1. US Census Bureau. Recreation and leisure activities: participation in selected sports activities 2007. Available at http://www. census.gov/compendia/statab/2010/tables/10s1212.pdf. Accessed May 17, 2010.
- 2. CDC. Surveillance for waterborne disease and outbreaks associated with recreational water use and other aquatic facilityassociated health events—United States, 2005–2006. MMWR 2008;57(No. SS-9):1–33.
- CDC. Surveillance data from swimming pool inspections selected states and counties, United States, May–September, 2002. MMWR 2003;52:513–6.
- 4. van Weerdenburg K, Mitchell R, Wallner F. Backyard swimming pool safety inspections: a comparison of management approaches and compliance levels in three local government areas in NSW. Health Promot J Austr 2006;17:37–42.
- 5. Hadjichristodoulou C, Mouchtouri V, Vousoureli A, et al. Waterborne disease prevention: evaluation of inspection scoring system for water sites according to water microbiological tests during the Athens 2004 pre-Olympic and Olympic period. J Epidemiol Community Health 2006;60:829–35.
- Buss BF, Safranek TJ, Magri JM, Török TJ, Beach MJ, Foley BP. Association between swimming pool operator certification and reduced pool chemistry violations—Nebraska, 2005–2006. J Environ Health 2009;71:36–40.
- National Association of County and City Health Officials. LDH budget cuts and job losses: 2010 data confirm job losses and program cuts in LHDs continue. Washington, DC: National Association of County and City Health Officials; 2010. Available at http://www.naccho.org/advocacy/lhdbudget. cfm. Accessed May 17, 2010.
- Cramer EH, Blanton CJ, Otto CM. Shipshape: sanitation inspections on cruise ships, 1990–2005, Vessel Sanitation Program, Centers for Disease Control and Prevention. J Environ Health 2008;70:15–21.
- 9. CDC. Model Aquatic Health Code. Atlanta, GA: US Department of Health and Human Services, CDC; 2010. Available at http://www.cdc.gov/healthywater/swimming/ pools/mahc. Accessed May 10, 2010.

Eye-Care Utilization Among Women Aged ≥40 Years with Eye Diseases — 19 States, 2006–2008

Diabetic retinopathy (DR), glaucoma, and agerelated macular degeneration (ARMD) are major causes of vision loss and blindness (1). Women have been found to have a higher prevalence of vision loss than men (2,3). Early detection and timely treatment by eye-care providers are necessary to delay disease progression and prevent vision loss. To assess the use of professional eye care among women aged \geq 40 years, CDC analyzed data from the Behavioral Risk Factor Surveillance System (BRFSS) for 19 U.S. states for the period 2006-2008. This report summarizes the results of that analysis, which indicated that 21% of women with self-reported DR, 12% of women with self-reported glaucoma, and 8% of women with selfreported ARMD did not visit an eye-care provider in the recommended follow-up period. Women who did not have insurance coverage for eye care or who did not receive routine medical check-ups were more likely to report not having the recommended followup eye care. The two most commonly cited reasons for not having an eye-care visit were cost or not having insurance (range across diseases: 40%-46%) and having no reason to go for follow-up (range: 20%–29%). Compliance with obtaining eye examinations at recommended intervals among women aged \geq 40 years with eye diseases might be enhanced by improving access to health care and implementing and expanding existing educational programs to raise awareness regarding the importance of routine follow-up eye examinations.

BRFSS is a state-based, random-digit-dialed telephone survey of the noninstitutionalized U.S. civilian population aged ≥ 18 years. With approximately 350,000 adults participating in the interview each year, BRFSS provides local, state, and national estimates of important information on sociodemographics, chronic illness, health behaviors, and access to health care. CDC analyzed data from the pooled respondents of 7,377 women aged ≥ 40 years with self-reported DR (322), glaucoma (356), or ARMD (244) by using results from the BRFSS Visual Impairment and Access to Eye Care Module for the period 2006–2008. Nineteen states* included the vision module in at least 1 year of their regular BRFSS survey during these years. Among the 19 states, the median Council of American Survey Research Organizations (CASRO) response rate (cooperation rate)[†] was 49.0% (73.5%) for 2006, 48.2% (69.0%) for 2007, and 52.8% (73.3%) for 2008. Respondents were classified as having an eye disease if they answered "yes" to any one of the relevant questions regarding presence of DR, glaucoma, and/or ARMD.[§]

For this study, the recommended follow-up period for visiting an eye-care provider was defined as the maximum recommended follow-up period stated in disease-specific guidelines in effect during the reporting period from the American Academy of Ophthalmology (for all three diseases), the American Optometric Association (for all three diseases), and the American Diabetes Association (for DR only). For DR and glaucoma, this period is within 12 months of the most recent eye examination; for ARMD, the period is within 24 months of the most recent eye examination. The BRFSS vision module also incorporated questions related to use of eye-care services. Women were classified as not having visited an eye-care professional in the recommended follow-up period if they answered other than "within the past month" or "within the past year" (for the 12-month period) or "within the past month," "within the past year," or "within the past 2 years (for the 24-month period) to the question, "When was the last time you

^{*} The 19 states using the BRFSS vision module at least once during the years 2006–2008 include Alabama, Arizona, Colorado, Connecticut, Florida, Georgia, Indiana, Iowa, Kansas, Missouri, Nebraska, New Mexico, New York, North Carolina, Ohio, Tennessee, Texas, West Virginia, and Wyoming.

[†]The response rate is the percentage of persons who completed interviews among all eligible persons, including those who were not successfully contacted. The cooperation rate is the percentage of persons who completed interviews among all eligible persons who were contacted.

^{§ &}quot;Have you ever been told by an eye doctor or other health-care professional that you had glaucoma?" "Have you ever been told by an eye doctor or other health-care professional that you had macular degeneration?" DR was identified (from the BRFSS diabetes module) if respondents with diabetes answered "yes" to the question, "Has a doctor ever told you that diabetes has affected your eyes or that you had retinopathy?"

had your eyes examined by any doctor or eye-care provider?" In addition, respondents were asked to select the one main reason they had not visited an eye-care professional in the previous year.

Statistical software was used to account for the complex sampling design. All analyses were weighted to make estimates representative of the age, race, and sex of the civilian, noninstitutionalized population in the 19 states. In instances where a state had more than 1 year of data available, average weights for the number of years available were used. CDC used predictive margin probabilities and corresponding 95% confidence intervals to make comparisons among the levels of each factor while adjusting for differences in the distributions of all other factors. The crude rate represents the weighted proportion of persons who did not report receiving recommended follow-up eye care. Adjusted percentages were estimated using logistic regression models predicting eye-care utilization as a function of the following factors: age, race/ ethnicity, marital status, education, income, diabetes status, eye-care insurance coverage, and general health care (Table 1).

The weighted BRFSS data indicated that 21% of women with DR, 12% of women with glaucoma, and 8% of women with ARMD did not visit an eyecare provider in the recommended follow-up period (Table 1). Women without eye-care insurance were more likely than those with insurance to report not having obtained recommended eye-care visits for DR, glaucoma, and ARMD (predictive margin probabilities: 34% versus 14%, 18% versus 10%, and 12% versus 6%, respectively). Women who did not have a routine medical check-up in the preceding 12 months were more likely than those who did so to report not having made the recommended eye-care visits (36% versus 20%, 21% versus 12%, and 16% versus 7%, respectively). Additionally, women aged 40-64 years with glaucoma or ARMD were more likely to report not having obtained recommended eye care than those aged ≥ 65 years (25% versus 5% and 18% versus 4%, respectively). Cost and not having eye-care insurance (range: 40%-46% for the three eye diseases) and

What is already known on this topic?

Early detection and timely treatment of diabetic retinopathy, glaucoma, and age-related macular degeneration by eye-care providers are necessary to delay disease progression and prevent vision loss.

What is added by this report?

During 2006–2008, an estimated 8%–21% of women aged ≥40 years did not receive recommended follow-up eye care despite self-reported diagnoses of diabetic retinopathy, glaucoma, or age-related macular degeneration; most attributed this to cost/lack of insurance or having no reason to go.

What are the implications for public health practice?

Compliance with obtaining eye examinations at recommended intervals among women aged ≥40 years with eye diseases might be enhanced by improving access to health care and implementing and expanding existing educational programs (e.g., to raise awareness regarding the importance of routine follow-up eye examinations).

having no reason to go (range: 20%–29%) were the two most commonly cited reasons women with eye diseases reported for not having visited an eye-care provider (Table 2).

Reported by

AF Elliott, PhD, CF Chou, PhD, X Zhang, MD, PhD, JE Crews, DPA, JB Saaddine, MD, GL Beckles, MD, MD Owens-Gary, PhD, Div of Diabetes Translation, National Center for Chronic Disease Prevention and Health Promotion, CDC.

Editorial Note

These findings from 19 states implementing the BRFSS vision module during 2006-2008 demonstrated that 8%–21% of women aged ≥40 years with serious, generally progressive eye diseases did not report receiving eye-care follow-up as recommended by national professional organizations. Eye care is especially important for maintaining current vision and preventing further vision loss from each of these eye diseases. For example, a study of Medicare beneficiaries found that the predicted probability of low vision/blindness among persons with diabetes was reduced by nearly 11 percentage points over 3 years among persons who received recommended levels of eye care compared with those who did not (4).

In this analysis, 20%–29% of women who did not seek eye-care follow-up reported having no reason to go. These findings point to the critical role

⁹ Responses for this question for persons with ARMD did not include persons who had received care within 12–23 months of their most recent eye examination. The specific question was stated, "What is the main reason you have not visited an eye-care professional in the past 12 months?" Respondents were presented a list of options from which they chose the one best answer. The "other" option was coded in the same manner as all other possible selections; it was not analyzed as an open-ended question.

		Diabetic r	etinopathy			Glau	coma		Age-related macular degeneration				
	Crude rate Rate (%) (95% CI**)		Predict	ive margin	Cru	de rate	Predict	ive margin	Cru	de rate	Predict	ive margin	
Characteristic	Rate (%)	(95% Cl**)	Rate (%)	(95% CI)	Rate (%)	(95% CI)	Rate (%)	(95% CI)	Rate (%)	(95% CI)	Rate (%)	(95% CI)	
Age group (yrs)													
40–64	24.3	(20.1–29.2)	24.3	(19.6–29.0)	24.3	(20.2–28.9)	25.1	(20.2-30.0)	14.6	(11.5–18.4)	17.8	(12.1–23.5)	
≥65	17.8	(14.2–22.0)	18.3	(13.2–23.4)	5.4	(4.3–6.9)	4.9	(3.5–6.3)	4.0	(3.0–5.4)	4.0	(2.4–5.6)	
Race/Ethnicity													
White, non-Hispanic	22.4	(19.2–26.2)	23.8	(19.7–27.9)	11.6	(9.7–13.9)	13.8	(11.1–16.5)	7.6	(6.2–9.4)	9.6	(7.2–12.0)	
Black, non-Hispanic	21.0	(15.8–27.3)	18.8	(12.9–24.7)	13.2	(9.6–18.0)	12.7	(8.4–17.0)	11.9	(7.2–19.1)	10.2	(4.5–15.9)	
Hispanic	19.5	(10.7–33.1)	18.3	(8.1–28.5)	12.6	(6.8–22.3)	9.4	(2.0–16.8)	8.0	(3.4–17.8)	4.9	(0.8–9.0)	
Other	22.2	(11.3–39.1)	22.3	(6.0–38.6)	19.1	(8.5–37.5)	14.9	(3.9–25.9)	12.5	(6.7–22.0)	6.9	(1.6–12.2)	
Marital status													
Married	21.1	(16.5–26.6)	22.2	(16.3–28.1)	11.5	(9.2–14.2)	11.0	(8.5–13.5)	8.1	(6.2–10.5)	9.0	(6.5–11.5)	
Not married	21.7	(18.3–25.6)	21.4	(17.3–25.5)	13.0	(10.6–15.9)	15.4	(12.1–18.7)	7.7	(5.9–10.0)	9.0	(6.3–11.7)	
Educational attainment													
<high diploma<="" school="" td=""><td>23.7</td><td>(17.3–31.6)</td><td>24.2</td><td>(17.3–31.1)</td><td>16.2</td><td>(12.1–21.5)</td><td>17.0</td><td>(11.7–22.3)</td><td>10.6</td><td>(6.8–16.1)</td><td>10.6</td><td>(5.9–15.3)</td></high>	23.7	(17.3–31.6)	24.2	(17.3–31.1)	16.2	(12.1–21.5)	17.0	(11.7–22.3)	10.6	(6.8–16.1)	10.6	(5.9–15.3)	
High school diploma	22.0	(17.8–26.9)	19.0	(14.5–23.5)	11.3	(9.0-14.0)	12.0	(8.9–15.1)	8.3	(5.9–11.6)	9.5	(6.0–13.0)	
More than a high school	19.3	(15.3–24.2)	22.6	(16.9–28.3)	11.3	(8.6–14.7)	12.5	(9.0–16.0)	6.9	(5.4-8.7)	8.2	(6.0–10.4)	
diploma													
Annual household income													
<\$35,000	24.1	(20.1–28.7)	23.4	(19.1–27.7)	15.3	(12.6–18.6)	14.7	(11.6–17.8)	10.6	(8.3–13.5)	12.4	(8.9–15.9)	
≥\$35,000	15.8	(11.1–22.0)	17.1	(10.6–23.6)	10.4	(7.6–14.1)	10.6	(7.3–13.9)	6.2	(4.4–8.5)	5.2	(3.2–7.2)	
Diabetes status													
Yes	21.5	(18.6–24.6)	21.8	(18.3–25.3)	12.2	(8.4–17.5)	12.1	(7.4–16.5)	5.9	(3.9–9.0)	6.7	(3.4–10.0)	
No	0.0	_	0.0	_	12.3	(10.4–14.4)	13.6	(11.2–16.0)	8.2	(6.7–10.1)	9.4	(7.2–11.6)	
Eye-care insurance coverage													
Coverage	14.1	(11.2–17.7)	14.4	(10.7–18.1)	8.1	(6.4–10.1)	9.9	(7.5–12.3)	5.1	(3.7–7.1)	6.4	(4.0-8.8)	
No coverage	33.7	(28.5–39.4)	33.5	(27.2–39.8)	18.9	(15.4–23.0)	18.4	(14.3–22.5)	11.6	(9.2–14.5)	12.1	(9.2–15.0)	
General health care													
Check up in the past year	18.9	(16.1–22.1)	19.7	(16.2–23.2)	9.8	(8.0–11.8)	11.6	(9.1–14.1)	6.2	(4.9–7.9)	7.3	(5.3–9.3)	
No check up in the past year	42.2	(31.3–53.9)	36.2	(24.4–48.0)	29.3	(23.3–36.0)	20.7	(14.4–27.0)	17.0	(12.5–22.6)	16.0	(11.3–20.7)	
Total	21.5	(18.6–24.6)			12.3	(10.6–14.2)			7.9	(6.5–9.5)			

TABLE 1. Crude rate* and predictive margin for women aged \geq 40 years not receiving recommended follow-up care[†] for three major eye-related diseases, [§] by selected characteristics — 19 states, Behavioral Risk Factor Surveillance System (BRFSS), 2006–2008[¶]

* The crude rate represents the weighted proportion of persons who did not report receiving recommended follow-up eye care.

⁺ The recommended follow-up period for visiting an eye-care provider was defined as the maximum recommended follow-up period stated in disease-specific guidelines in effect during the reporting period from the American Academy of Ophthalmology (for all three diseases), the American Optometric Association (for all three diseases), and the American Diabetes Association (for diabetic retinopathy only). For diabetic retinopathy and glaucoma, this period is within 12 months of the most recent eye examination; for age-related macular degeneration, the period is within 24 months of the most recent eye examination.

[§] Respondents were classified as having an eye disease if they answered "yes" to any one of the relevant questions regarding presence diabetic retinopathy, glaucoma, and/or age-related macular degeneration. Respondents were classified as not having visited an eye-care professional in the recommended follow-up period if they answered other than "within the past month" or "within the past year" (for the 12-month period) or "within the past month," "within the past year," or "within the past 2 years (for the 24-month period) to the question, "When was the last time you had your eyes examined by any doctor or eye-care provider?"

The 19 states using the BRFSS vision module at least once in the years 2006–2008 include Alabama, Arizona, Colorado, Connecticut, Florida, Georgia, Indiana, Iowa, Kansas, Missouri, Nebraska, New Mexico, New York, North Carolina, Ohio, Tennessee, Texas, West Virginia, and Wyoming.

** Confidence interval.

of strengthening patient education through healthcare providers and public health efforts to inform women with eye diseases about the importance of routine follow-up once an eye condition is diagnosed. Public health interventions that increase patient awareness of diabetic retinopathy can substantially increase its screening (5); Project DIRECT (Diabetes Intervention Reaching and Educating Communities Together) found that providing eye-care education was independently associated with receipt of dilated eye examinations (6). To preserve the vision of women who are not receiving the recommended follow-up care, the public health community, including CDC, state health departments, and federally funded programs, should increase awareness of the importance of regular follow-up eye care. The Diabetes Prevention and Control Program reports to CDC the number of dilated eye examinations received in states. Additionally, the finding that 40%–46% of these women reported that cost and/or insurance concerns hindered their follow-up care underscores the need for public health to play a role in addressing eye-care cost and insurance needs, and to implement policy changes more directly related to the clinical-care system. One study found that even among persons with insurance, the cost of copayments might still be a factor limiting access of eye care (7). Cost-reducing interventions, such as providing services at reduced rates or eliminating the cost entirely, have been effective at increasing use of cataract surgery (8).

The findings in this report are subject to at least four limitations. First, all data gathered by BRFSS are self-reported and might be subject to reporting errors. Self-reported responses for both presence of disease and obtaining an eye examination might differ from objective clinical data. Second, several groups of persons might be unrepresented or underrepresented in these population estimates, including persons without telephones (because the data are collected by telephone survey); institutionalized populations, who are not included in BRFSS; and persons with severe disabilities, including vision loss, who might be less likely to respond to a telephone survey. BRFSS questions also might not reflect respondents who are following their own doctor's recommendations regarding follow-up care, which might differ from the national guidelines. Third, although data were adjusted to be representative of surveyed states, they are not nationally representative because only 19 states used the BRFSS vision module in this study. Finally, the response rates for these survey years were low, increasing the risk for nonresponse bias.

CDC continues to provide resources and technical assistance to state health departments to increase surveillance of visual impairment and eye diseases. The findings in this report can be used to help public health agencies plan, implement, and evaluate programs on vision-loss prevention and eye-health promotion at national, state, and local levels and can help allocate scarce resources and target effective intervention activities to similar populations.

References

- 1. Congdon N, O'Colmain B, Klaver CC, et al. Causes and prevalence of visual impairment among adults in the United States. Arch Ophthalmol 2004;122:477–84.
- 2. CDC. Visual impairment and eye care among older adults—five states, 2005. MMWR 2006;55:1321–5.
- 3. International Agency for the Prevention of Blindness. World sight day 2009 report. Gender and eye health: equal access to care. Available at http://www.vision2020.org/documents/ world_sight_day_2009/wd09_downloads/wsd_report_2009_ final_v2.pdf. Accessed May 13, 2010.
- Sloan FA, Grossman DS, Lee PP. Effects of receipt of guidelinerecommended care on onset of diabetic retinopathy and its progression. Ophthalmology 2009;116:1515–21.
- Zhang X, Norris SL, Saaddine J, et al. Effectiveness of interventions to promote screening for diabetic retinopathy. Am J Prev Med 2007;33:318–35.

TABLE 2. Reasons given by women aged \geq 40 years for not receiving recommended follow-up care* for three major eye-related diseases[†] — 19 states, Behavioral Risk Factor Surveillance System (BRFSS), 2006–2008[§]

Reason	Diabetic retinopathy (N = 322) (%)	Glaucoma (N = 356) (%)	Age-related macular degeneration (N = 244) (%)¶
Cost/Insurance	43	46	40
No reason to go	20	23	29
Do not have/know an eye doctor	2	1	2
Too far/No transportation	4	1	1
Could not get an appointment	5	3	3
Have not thought of it	5	7	3
Other**	21	19	23

* The recommended follow-up period for visiting an eye-care provider was defined as the maximum recommended follow-up period stated in disease-specific guidelines in effect during the reporting period from the American Academy of Ophthalmology (for all three diseases), the American Optometric Association (for all three diseases), and the American Diabetes Association (for diabetic retinopathy only). For diabetic retinopathy and glaucoma, this period is within 12 months of the most recent eye examination; for age-related macular degeneration, the period is within 24 months of the most recent eye examination.

- [†] Respondents were classified as having an eye disease if they answered "yes" to any one of the relevant questions regarding presence diabetic retinopathy, glaucoma, and/or agerelated macular degeneration. Respondents were classified as not having visited an eye-care professional in the recommended follow-up period if they answered other than "within the past month" or "within the past year" (for the 12-month period) or "within the past month," "within the past year," or "within the past 2 years (for the 24-month period) to the question, "When was the last time you had your eyes examined by any doctor or eye-care provider?" In addition, respondents were asked to select the one main reason they had not visited an eye-care professional in the previous year. Responses for this latter question for persons with age-related macular degeneration did not include persons who had received care within 12–23 months of their most recent eye examination. The specific question asked was stated, "What is the main reason you have not visited an eye-care professional in the past 12 months?" The question presented a list of options from which respondents chose the one best answer.
- [§] The 19 states using the BRFSS vision module at least once in the years 2006–2008 include Alabama, Arizona, Colorado, Connecticut, Florida, Georgia, Indiana, Iowa, Kansas, Missouri, Nebraska, New Mexico, New York, North Carolina, Ohio, Tennessee, Texas, West Virginia, and Wyoming.
- [¶] Percentages do not sum to 100% because of rounding.
- ** The "other" option was coded in the same manner as all other possible selections; it was not analyzed as an open-ended question.
- Zhang X, Williams DE, Beckles GL, et al. Diabetic retinopathy, dilated eye examination, and eye care education among African Americans, 1997 and 2004. J Natl Med Assoc 2009;101:1015–21.
- 7. Ellish NJ, Royak-Schaler R, Passmore SR, Higginbotham EJ. Knowledge, attitudes, and beliefs about dilated eye examinations among African-Americans. Invest Ophthalmol Vis Sci 2007;48:1989–94.
- Brilliant GE, Lepkowski JM, Zurita B, Thulasiraj RD. Social determinants of cataract surgery utilization in South India. Arch Ophthalmol 1991;109:584–9.

Notice to Readers

Examining the Effect of Previously Missing Blood Lead Surveillance Data on Results Reported in *MMWR*

During 2000–2003, the District of Columbia (DC) experienced very high concentrations of lead in drinking water. In February 2004, the DC Department of Health requested assistance from CDC to assess health effects of elevated lead levels in residential tap water. CDC reviewed available blood lead surveillance data for the period 1998–2003 and reported the findings of a longitudinal analysis and cross-sectional study in *MMWR* on April 2, 2004 (*1*).

A substantial number of blood lead test results from blood specimens collected in 2003 were unavailable for the analysis published in the 2004 *MMWR* report. In 2009, CDC acquired all known 2003 blood lead test results for DC residents and completed a reanalysis to determine whether the addition of the previously missing tests altered the previously reported results. The complete reanalysis is available at http:// www.cdc.gov/nceh/lead/leadinwater.

The reanalysis included the 9,765 tests used in the original analysis, plus 1,753 tests reported in surveillance data after the *MMWR* report was published, and 12,168 tests that had not been included in the surveillance files. The reanalysis showed that addition of the missing test data led to a decrease in the percentage of tests with elevated blood lead levels $\geq 5 \ \mu g/dL$ or $\geq 10 \ \mu g/dL$ in 2003, regardless of the type of service line supplying water to the home (Table). These results do not change CDC's original conclusions that "the percentage of test results $\geq 10 \ \mu g/dL$ and the percentage of test results $\geq 5 \ \mu g/dL$ at addresses with lead service pipes were higher than at addresses without lead service pipes."

In the 2004 MMWR report, the first sentence of the Editorial Note referred to a cross-sectional study of homes with very high lead levels in drinking water and stated that "no children were identified with blood lead $\geq 10 \,\mu g/dL$, even in homes with the highest water lead levels." This sentence was misleading because it referred only to data from the cross-sectional study and did not reflect findings of concern from the separate longitudinal study that showed that children living in homes serviced by a lead water pipe were more than twice as likely as other DC children to have had a blood lead level $\geq 10 \,\mu g/dL$. CDC reiterates here a key message from the 2004 report: "because no threshold for adverse health effects in young children has been demonstrated," no safe blood level has been identified, and all sources of lead exposure for children should be controlled or eliminated. "Lead concentrations in drinking water should be below the U.S. Environmental Protection Agency's action level of 15 ppb."

Reference

1. CDC. Blood lead levels in residents of homes with elevated lead in tap water—District of Columbia, 2004. MMWR 2004;53:268–70.

	Surveillance data set used in 2004 <i>MMWR</i> report [†]	All known blood lead tests [§]	Surveillance data set used in 2004 <i>MMWR</i> report [†]	All known blood lead tests [§]
Water service line type	%	%	%	%
	≥10 μg/dL	≥10 µg/dL	≥5 μg/dL	≥5 µg/dL
Lead service line	7.6	6.8	31.2	30.2
No lead service line	2.8	2.3	15.6	14.9

TABLE. Percentage of tests with elevated blood lead levels, by type of water service line* and data set — District of Columbia, 2003

* Water service line type was unknown for 2,670 tests.

⁺ **Source:** CDC. Blood lead levels in residents of homes with elevated lead in tap water—District of Columbia, 2004. MMWR 2004;53:268–70; n = 9,683.

[§] n = 21,016.

Announcements

Recreational Water Illness Prevention Week — May 24–30, 2010

Although swimming is a physical activity that offers numerous health benefits (I), recreational water (e.g., water in pools) can also transmit pathogens that cause illness. May 24–30 marks the sixth annual National Recreational Water Illness Prevention Week. The goal of this observance is to highlight simple steps that swimmers and pool operators can take to reduce health and safety risks to swimmers.

Recreational water illnesses are transmitted by ingesting, breathing in the mists or aerosols of, or having contact with contaminated water in pools, water parks, interactive fountains, water play areas, hot tubs, lakes, rivers, springs, ponds, streams, and oceans. During 2005–2006, recreational water illness outbreaks affected 4,412 persons, resulting in 116 hospitalizations and five deaths (2). This year, Recreational Water Illness Prevention Week focuses on the importance of pool inspections and encourages swimmers to follow the Triple A's of Healthy Swimming (awareness, action, and advocacy).*

References

- Chase NL, Sui X, Blair SN. Swimming and all-cause mortality risk compared with running, walking, and sedentary habits in men. International Journal of Aquatic Research and Education 2008;2:213–23.
- 2. CDC. Surveillance for waterborne disease and outbreaks associated with recreational water use and other aquatic facilityassociated health events—United States 2005–2006. MMWR 2008;57(No. SS-9):1–33.

Click It or Ticket Campaign — May 24–June 6, 2010

In 2008, motor-vehicle crashes resulted in 26,689 deaths to motor-vehicle occupants (excluding motorcyclists), and approximately 2.5 million occupants were treated for injuries in emergency departments in the United States (1,2). Using a seat belt is one of the most effective means of preventing serious injury and death in the event of a crash. Although seat belt use in the United States is now estimated at nearly 84% and has prevented approximately 13,000 deaths in 2008, millions of persons still continue to travel unrestrained (1,3). Some groups, including men and young adults (i.e., persons aged 18-34 years), are less likely to use seat belts than others (4). Consequently, young adult males have high rates of crash fatalities (2). If every person had worn a seat belt in 2008, an additional 4,152 lives could have been saved (1).

Click It or Ticket (observed May 24–June 6, 2010) is an annual, national campaign coordinated by the National Highway Traffic Safety Administration (NHTSA) to increase the proper use of seat belts. Law enforcement agencies across the nation participate by conducting intensive, high-visibility enforcement of seat belt laws. This year, the campaign continues its focus on young adult males and includes daytime and nighttime enforcement activities. Additional information about Click It or Ticket activities is available from NHTSA at http://www.nhtsa.gov. Additional information about preventing motor-vehicle crash injuries is available from CDC at http://www.cdc. gov/motorvehiclesafety.

References

- National Highway Traffic Safety Administration. Traffic safety facts 2008. Washington, DC: US Department of Transportation; 2009. Available at http://www-nrd.nhtsa.dot. gov/Pubs/811170.pdf. Accessed May 11, 2010.
- 2. CDC. WISQARS (Web-based Injury Statistics Query and Reporting System). Atlanta, GA: US Department of Health and Human Services, CDC; 2010. Available at http://www. cdc.gov/injury/wisqars. Accessed May 11, 2010.
- National Highway Traffic Safety Administration. Seat belt use in 2009—overall results. Washington, DC: US Department of Transportation; 2009. Available at http://www-nrd.nhtsa.dot. gov/pubs/811100.pdf. Accessed May 11, 2010.
- 4. Beck LF, Shults RA, Mack KA, Ryan GW. Associations between sociodemographics and safety belt use in states with and without primary enforcement laws. Am J Public Health 2007;97:1619–24.

^{*} Available at http://www.cdc.gov/healthywater/swimming/pools/ triple-a-healthy-swimming.html.

Errata

Vol. 59, No. 5

In the report, "Update: Mumps Outbreak — New York and New Jersey, June 2009–January 2010," an error occurred in the second footnote on page 125. The footnote should read as follows: [§]ACIP recommends 2 doses of mumps-containing vaccine for all school-aged children (i.e., grades K–12) and for adults at high risk for disease (i.e., persons who work in health-care facilities, international travelers, and students at post–high school educational institutions). Health-care **personnel** born in or after 1957 without **presumptive** evidence of immunity (**documentation of 2 doses of mumps-containing vaccine or** laboratory evidence of immunity **or history of** laboratory-confirmed disease) should receive 2 doses of mumps-containing vaccine, and those born before 1957 without presumptive evidence of immunity should consider receiving 2 doses. During mumps outbreaks, a second dose of mumps-containing vaccine should be considered for children aged 1–4 years and adults who have received 1 dose, and 2 doses should be recommended for all health-care personnel (8; http://www.cdc.gov/vaccines/recs/ provisional/downloads/mmr-evidence-immunityaug2009-508.pdf).

FROM THE NATIONAL CENTER FOR HEALTH STATISTICS

Percentage of Adults Aged ≥18 Years Who Had A Lot of Trouble Hearing or Who Were Deaf,* by Race/Ethnicity[†] — National Health Interview Survey, United States, 2004–2008[§]



- * Respondents were asked, "Without the use of hearing aids or other listening devices, is your hearing excellent, good, a little trouble hearing, moderate trouble, a lot of trouble, or are you dea??""A lot of trouble" and "deaf" were combined into one category. Unknowns were not included in the denominators when calculating percentages.
- ⁺ Race refers only to persons who indicated a single race group. The four racial groups only include persons who are non-Hispanic. Hispanics might be of any race.
- [§] Estimates were age adjusted using the projected 2000 U.S. population as the standard population and using four age groups: 18–24 years, 25–44 years, 45–64 years, and ≥65 years. Estimates were based on household interviews of a sample of the civilian, noninstitutionalized U.S. population.
- [¶] 95% confidence interval.
- ** Includes other races not shown separately and multiple race.
- ^{+†} American Indian/Alaska Native.

During 2004–2008, 2.8% of adults aged \geq 18 years had a lot of trouble hearing or were deaf. American Indians/Alaska Natives (5.5%) were more likely than whites (3.2%) and more than twice as likely as Hispanics (1.9%), Asians (1.5%), and blacks (1.2%) to have a lot of trouble hearing or to be deaf.

Source: Barnes PM, Adams PF, Powell-Griner E. Health characteristics of the American Indian and Alaska Native adult population, United States, 2004–2008. Natl Health Stat Rep 2010(20).

Notifiable Diseases and Mortality Tables

TABLE I. Provisional cases of infrequently reported notifiable diseases (<1,000 cases reported during the preceding year) — United States, week ending May 15, 2010 (19th week)*

	c .	6	5-year		Total of for pr	ases re revious	ported years		States and still a second
Disease	Current	2010	weekly average [†]	2009	2008	2007	2006	2005	during current week (No.)
Anthrax				1	_	1	1	_	
Botulism, total	1	22	2	116	145	144	165	135	
foodborne			0	11	17	32	20	19	
infant	_	17	1	80	109	85	97	85	
other (wound and unspecified)	1	2	1	25	19	27	48	31	CA (1)
Brucellosis	3	31	3	115	80	131	121	120	(A (3))
Chancroid	_	22	0	33	25	23	33	17	
Cholera	_	22	0	10	5	7	9	8	
Cyclosporiasis [§]	1	23	16	141	139	93	137	543	FL (1)
Diphtheria	_	_	_	_		_		_	
Domestic arboviral diseases [§] , [¶]									
California serogroup virus disease	_	_	0	55	62	55	67	80	
Eastern equine encephalitis virus disease	_	_	_	4	4	4	8	21	
Powassan virus disease	_	_	0	6	2	7	1	1	
St. Louis encephalitis virus disease	_	_	0	12	13	9	10	13	
Western equine encephalitis virus disease	_	_	_	_	_	_	_	_	
<i>Haemophilus influenzae</i> , ^{**} invasive disease (age <5 yrs):									
serotype b	_	7	0	27	30	22	29	9	
nonserotype b	2	65	4	225	244	199	175	135	VA (1), FL (1)
unknown serotype	2	89	4	200	163	180	179	217	NE (1), TN (1)
Hansen disease [§]	_	15	1	79	80	101	66	87	
Hantavirus pulmonary syndrome ⁸	_	2	1	14	18	32	40	26	
Hemolytic uremic syndrome, postdiarrheal [§]	1	39	4	239	330	292	288	221	NY (1)
HIV infection, pediatric (age <13 yrs) ^{$++$}	_	_	2	_	_	_	_	380	
Influenza-associated pediatric mortality ^{9,99}	_	48	2	360	90	77	43	45	
Listeriosis	4	174	10	856	759	808	884	896	NY (1), MO (2), FL (1)
Measles	3	19	2	67	140	43	55	66	OH (1), MO (1), NE (1)
Meningococcal disease, invasive***:									
A, C, Y, and W-135	4	96	6	288	330	325	318	297	GA (1), WA (3)
serogroup B	1	42	3	156	188	167	193	156	TX (1)
other serogroup	1	5	1	23	38	35	32	27	FL (1)
unknown serogroup	8	160	13	513	616	550	651	765	ME (1), OH (1), NE (1), FL (1), TN (1), WA (1), CA (2)
Mumps	154	1,239	104	2,068	454	800	6,584	314	NY (6), NYC (141), NE (2), TX (3), AZ (1), CA (1)
Novel influenza A virus infections	_	_	0	43,771	2	4	NN	NN	
Plague	_	_	0	8	3	7	17	8	
Poliomyelitis, paralytic	_	_	—	_	—	—		1	
Polio virus Infection, nonparalytic	_				_	_	NN	NN	
Psittacosis	_	4	0	9	8	12	21	16	
Q fever, total '	_	21	3	101	120	171	169	136	
acute	_	14	2	81	106	_	_	_	
Chronic Rabias human	_	/	0	20	14				
Ruballa 999	_	1	_	3	10	12	3	2	
Rubella concenital syndrome	_	1	0	2 1	10	12	11	1	
SARS-CoV [§] .****	_	_	0	1	_	_	'	1	
Smallpox [§]	_	_							
Streptococcal toxic-shock syndrome [§]		61	3	160	157	132	125	120	MN (2) KY (1) NV (1)
Symplify congenital (age $< 1 \text{ yr}$)	-	56	7	/10	/31	/30	3/0	320	
Tetanus		50	,	18	10	28	41	229	
Toxic-shock syndrome (staphylococcal) [§]	_	30	1	78	71	920	101	90	
Trichinellosis	_	1	0	12	39	5	15	16	
Tularemia	_	6	2	95	123	137	95	154	
Typhoid fever	1	121	7	401	449	434	353	324	CA (1)
Vancomycin-intermediate <i>Staphylococcus aureus</i> [§]	. 2	21	1	78	63	37	6	2	OH (2)
Vancomycin-resistant Staphylococcus aureus	_	1	_			2	1	3	
Vibriosis (noncholera Vibrio species infections) [§]	7	64	4	795	588	549	NN	NN	MN (1), MD (1), FL (3), CA (2)
Viral hemorrhagic fever ^{\$§§§}	_	1	_	NN	NN	NN	NN	NN	···· · · · · · · · · · · · · · · · · ·
Yellow fever	_	_	_	_	_	_	_	_	

See Table I footnotes on next page.

TABLE I. (*Continued*) Provisional cases of infrequently reported notifiable diseases (<1,000 cases reported during the preceding year) — United States, week ending May 15, 2010 (19th week)*

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

- * Incidence data for reporting years 2009 and 2010 are provisional, whereas data for 2005 through 2008 are finalized.
- ⁺ Calculated by summing the incidence counts for the current week, the 2 weeks preceding the current week, and the 2 weeks following the current week, for a total of 5 preceding years. Additional information is available at http://www.cdc.gov/ncphi/disss/nndss/phs/files/5yearweeklyaverage.pdf.
- ⁵ Not reportable in all states. Data from states where the condition is not reportable are excluded from this table, except starting in 2007 for the domestic arboviral diseases and influenzaassociated pediatric mortality, and in 2003 for SARS-CoV. Reporting exceptions are available at http://www.cdc.gov/ncphi/disss/nndss/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.
- ** Data for H. influenzae (all ages, all serotypes) are available in Table II.
- ⁺⁺ Updated monthly from reports to the Division of HIV/AIDS Prevention, National Center for HIV/AIDS, Viral Hepatitis, STD, and TB Prevention. Implementation of HIV reporting influences the number of cases reported. Updates of pediatric HIV data have been temporarily suspended until upgrading of the national HIV/AIDS surveillance data management system is completed. Data for HIV/AIDS, when available, are displayed in Table IV, which appears quarterly.
- ^{§§} Updated weekly from reports to the Influenza Division, National Center for Immunization and Respiratory Diseases. Since April 26, 2009, a total of 282 influenza-associated pediatric deaths associated with 2009 influenza A (H1N1) virus infection have been reported. Since August 30, 2009, a total of 273 influenza-associated pediatric deaths occurring during the 2009–10 influenza season have been reported. A total of 134 influenza-associated pediatric deaths occurring during the 2008–09 influenza season have been reported.
- ^{¶¶} The three measles cases reported for the current week were imported. *** Data for meningococcal disease (all serogroups) are available in Table II.
- **** CDC discontinued reporting of individual confirmed and probable cases of 2009 pandemic influenza A (H1N1) virus infections on July 24, 2009. CDC will report the total number of 2009 pandemic influenza A (H1N1) hospitalizations and deaths weekly on the CDC H1N1 influenza website (http://www.cdc.gov/h1n1flu). In addition, three cases of novel influenza A virus infections, unrelated to the 2009 pandemic influenza A (H1N1) virus, were reported to CDC during 2009.
- ^{§§§} In 2009, Q fever acute and chronic reporting categories were recognized as a result of revisions to the Q fever case definition. Prior to that time, case counts were not differentiated with respect to acute and chronic Q fever cases.
- ^{¶¶¶} No rubella cases were reported for the current week.
- **** Updated weekly from reports to the Division of Viral and Rickettsial Diseases, National Center for Zoonotic, Vector-Borne, and Enteric Diseases.
- ⁺⁺⁺⁺ Updated weekly from reports to the Division of STD Prevention, National Center for HIV/AIDS, Viral Hepatitis, STD, and TB Prevention.
- SSSS There was one case of viral hemorrhagic fever reported during week 12. The one case report was confirmed as lassa fever. See Table II for dengue hemorrhagic fever.

FIGURE I. Selected notifiable disease reports, United States, comparison of provisional 4-week totals May 15, 2010, with historical data



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

 Notifiable Disease Data Team and 122 Cities Mortality Data Team

 Patsy A. Hall-Baker

 Deborah A. Adams
 Rosaline Dhara

 Willie J. Anderson
 Pearl C. Sharp

 Jose Aponte
 Michael S. Wodajo

 Lenee Blanton
 Vertice State

TABLE II. Provisional cases of selected notifiable diseases, United States, weeks ending May 15, 2010, and May 16, 2009 (19th week)*

		Chlamydia	a trachomatis	infection		Cryptosporidiosis						
	Current	Previous 5	52 weeks	Cum	Cum	Current	Previous 5	2 weeks	Cum	Cum		
Reporting area	week	Med	Max	2010	2009	week	Med	Max	2010	2009		
United States	9,924	23,409	27,343	352,421	461,555	75	122	287	1,679	1,772		
New England	833	735	1,396	13,181	14,536	2	5	28	85	133		
Connecticut	112	215	736	3,155	4,281	1	0	24	24	38		
Massachusetts	579	376	75	7.175	6.778		1	15	19	39		
New Hampshire	13	35	60	250	774	1	1	6	18	20		
Rhode Island ⁺	72	67	130	1,279	1,308	_	0	8	8	2		
Vermont	—	23	63	405	447		1	9	16	24		
Mid. Atlantic	3,094	3,097	4,619	60,738	59,164	9	14	38	202	213		
New York (Upstate)	445 687	44 I 629	2.530	7,996	9,513	4	0	5 16	46	48		
New York City	1,432	1,179	2,286	24,210	22,391	_	1	5	17	35		
Pennsylvania	530	841	1,055	16,548	16,330	5	9	19	139	119		
E.N. Central	723	3,526	4,413	37,922	76,463	8	29	73	355	425		
Illinois	_	1,068	1,322	146	23,467	_	3	8	53	42		
Indiana Michigan	603	336 884	602 1 405	4,247 18 253	8,679 17,863	1	4	11	40	94 78		
Ohio	120	920	1,039	12,482	18,337	7	7	16	120	110		
Wisconsin	—	377	466	2,794	8,117	—	8	39	42	101		
W.N. Central	31	1,311	1,713	21,496	26,759	25	20	62	260	247		
lowa	15	178	252	3,636	3,726	4	4	13	62	57		
Kansas Minnesota	15	175	573	2,745	3,942	1	2	6 31	26	23		
Missouri	_	498	638	8,613	9,799	2	3	12	41	44		
Nebraska [†]	—	92	237	1,685	1,996	2	2	9	32	25		
North Dakota	—	30	93	405	632	—	0	5	3	1		
South Dakota		49	82		1,139		2	13	6	52		
S. Atlantic	2,473	4,473	6,098	60,189	94,014	13	20	50	318	300		
District of Columbia	94	114	178	1,589	2.672	_	0	1	2	3		
Florida	715	1,397	1,669	25,661	27,674	5	8	24	128	96		
Georgia	1	564	1,323	1,501	15,689	5	6	31	126	119		
Maryland ¹	322	444	1,031	7,387	8,018	1	1	5	10	16		
South Carolina [†]	516	523	1,291	10.007	10,132	_	1	7	13	17		
Virginia [†]	749	600	924	11,084	10,844	2	1	7	22	17		
West Virginia	76	65	137	1,350	1,505	—	0	2	5	5		
E.S. Central	_	1,664	2,264	26,115	33,825	3	4	13	65	58		
Alabama	—	455	606	7,822	9,642	_	1	5	21	16		
Mississinni	_	290 430	642 640	5,032 4,813	3,930	_	2	4	22	9		
Tennessee [†]	_	561	734	8,448	11,148	3	1	5	18	19		
W.S. Central	587	2,953	5,784	52,387	59,013	1	9	40	89	85		
Arkansas [†]	314	271	416	5,473	5,614	—	1	5	12	10		
Louisiana		400	1,055	2,922	11,150	1	1	6	11	9		
Texas [†]	275	240	3,229	38.352	39,543		6	30	52	43		
Mountain	675	1 492	2 1 1 8	21 615	25 420	7	10	25	148	126		
Arizona	156	469	713	4,686	9,250	, 1	0	3	10	11		
Colorado	247	435	709	6,699	3,539	3	2	10	47	30		
Idaho ^T	18	61	185	931	1,358	1	2	7	27	15		
Nontana' Nevada [†]	210	50 169	478	1,085	3,925		0	4	18	13		
New Mexico [†]		176	453	2,213	2,926	_	2	8	23	34		
Utah		113	171	1,847	2,434	_	1	4	13	5		
Wyoming [⊤]	11	35	70	690	749	—	0	2	5	11		
Pacific	1,508	3,451	5,314	58,778	72,361	7	13	27	157	185		
California	1,258	2.677	4,406	∠,085 45,782	2,037 55,534	5	U 9	20	92	2 96		
Hawaii		115	143	1,779	2,285	_	0	0	<i>92</i>	1		
Oregon	—	184	468	1,367	4,035	2	2	10	42	66		
Washington	250	397	638	7,765	8,470	—	2	8	22	20		
American Samoa	—	0	0	—	—	Ν	0	0	Ν	N		
C.N.M.I.	—	1		 5 1	_	_			_	_		
Puerto Rico	83	118	331	2.125	2,747	N	0	0	N	N		
U.S. Virgin Islands	_	9	21	52	180	_	0	0	_	_		

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

					Dengue Vi	irus Infection				
			Dengue Feve	r			Dengue I	Hemorrhagic F	ever†	
	Current	Previous	52 weeks	Cum	Cum	Current	Previous	52 weeks	Cum	Cum
Reporting area	week	Med	Max	2010	2009	week	Med	Max	2010	2009
United States	—	0	1	3	NN	—	0	0	—	NN
New England	_	0	1	2	NN	—	0	0	_	NN
Connecticut Maine [§]	_	0	0		NN	_	0	0	_	NN
Massachusetts	_	0	0		NN	_	0	0	_	NN
New Hampshire	_	Ő	Õ	_	NN	_	Ő	Ő	_	NN
Rhode Island [§]	_	0	0	_	NN	—	0	0	_	NN
Vermont ⁹	_	0	0	_	NN	—	0	0	_	NN
Mid. Atlantic	—	0	1	1	NN	—	0	0	—	NN
New Jersey New York (Upstate)	_	0	0	_	NIN	_	0	0	_	
New York City	_	0	0	_	NN	_	0	0	_	NN
Pennsylvania	_	0	1	1	NN	—	0	0	_	NN
E.N. Central	_	0	0	_	NN	_	0	0	_	NN
Illinois	—	0	0	—	NN	—	0	0		NN
Indiana	—	0	0	—	NN	—	0	0	—	NN
Michigan	_	0	0	_		_	0	0	_	NN
Wisconsin	_	0	0	_	NN	_	0	0	_	NN
W.N. Control	_	0	0		NIN		0	0		NN
lowa	_	0	0	_	NN	_	0	0	_	NN
Kansas	_	0	0	_	NN	_	0	0	_	NN
Minnesota	—	0	0	—	NN	—	0	0		NN
Missouri Nobracka [§]	—	0	0	—	NN	—	0	0		NN
North Dakota	_	0	0	_	NN	_	0	0	_	NN
South Dakota	_	Ő	Ő	_	NN	_	Ő	Ő	_	NN
S. Atlantic	_	0	0	_	NN	_	0	0	_	NN
Delaware	_	Ő	Õ	_	NN	_	Ő	Ő	_	NN
District of Columbia	_	0	0	_	NN	—	0	0	_	NN
Florida	_	0	0	_	NN	—	0	0	_	NN
Maryland [§]	_	0	0	_	NN		0	0	_	NN
North Carolina	_	0	0	_	NN	_	0	0	_	NN
South Carolina [§]	_	0	0	_	NN	_	0	0		NN
Virginia ^s	—	0	0	—	NN	—	0	0	—	NN
west virginia	_	0	0	_	ININ	_	0	0	_	ININ
E.S. Central	—	0	0	—	NN	—	0	0	—	NN
Kentucky	_	0	0	_	NN	_	0	0	_	
Mississippi	_	0	0	_	NN	_	0	0	_	NN
Tennessee [§]	—	0	0	—	NN	—	0	0		NN
W.S. Central	_	0	0	_	NN	_	0	0	_	NN
Arkansas [§]	_	0	0	_	NN	_	0	0	—	NN
Louisiana	_	0	0	_	NN	—	0	0	_	NN
Okianoma Texas [§]	_	0	0	_	NN	_	0	0	_	
Mountain		0	ů O		NIN		0	0		NN
Arizona	_	0	0	_	NN	_	0	0	_	NN
Colorado	_	Ő	Ő	_	NN	_	Ő	Ő	_	NN
Idaho [§]	_	0	0	_	NN	_	0	0	—	NN
Montana ⁹	_	0	0	—	NN	_	0	0	—	NN
Nevada ³ New Mexico [§]	_	0	0	_	NIN	_	0	0	_	
Utah	_	Ő	0	_	NN	_	0	0	_	NN
Wyoming [§]	_	0	0	_	NN	_	0	0	_	NN
Pacific	_	0	0	_	NN	_	0	0	_	NN
Alaska	_	Ō	0	_	NN	—	Ō	0	_	NN
California	_	0	0	_	NN	—	0	0	_	NN
Hawaii Orogon	—	0	0	—	NN	—	0	0		NN
Washington	_	0	0	_	NN		0	0	_	NN
American Samoa		0	0		NN		0	0	_	NINI
C.N.M.I.	_		_	_	NN	_		_	_	NN
Guam	_	0	0	_	NN	_	0	0	_	NN
Puerto Rico	—	0	0	—	NN	—	0	0	_	NN
U.S. Virgin Islands	_	0	0	_	NN	_	0	0	_	NN

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending May 15, 2010, and May 16, 2009 (19th week)*

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

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

TABLE II. (Continued) Provisional cases of selected notifiable diseases	United States, weeks ending May 15, 2010, and May 16, 2009 (19th week)*
---	---

							Ehrlichio	sis/Anapla	smosis [†]						
	Ehrlichia chaffeensis						Anaplasma	a phagocyt	ophilum			Und	etermined		
	Current	Previous	52 weeks	Cum	Cum	Current	Previous !	52 weeks	Cum	Cum	Current	Previous 5	52 weeks	Cum	Cum
Reporting area	week	Med	Max	2010	2009	week	Med	Max	2010	2009	week	Med	Max	2010	2009
United States	4	12	132	39	81	1	14	300	13	69	_	2	37	5	29
New England	_	0	4	1	4	_	2	21	5	19	_	0	1	_	_
Connecticut	—	0	0	1	_	—	0	13			—	0	0	_	—
Maine ³ Massachusetts	_	0	0		_	_	0	3	2	2	_	0	0	_	_
New Hampshire	_	0	1	_	_	_	0	3	1	5	_	0	1		_
Rhode Island [§]	—	0	4	—	4	—	0	20	2	12	_	0	1	_	—
Vermont [§]	_	0	1	_	—	—	0	0	—	—	_	0	0	—	_
Mid. Atlantic	_	3	15	8	22	1	3	27	2	24	_	0	4	1	10
New Jersey	_	1	8		13	1	0	7		8	_	0	0	1	1
New York City	_	0	2	3	1	_	2	20		1	_	0	1	_	
Pennsylvania	_	0	5	1	3	_	0	1	_	_	_	0	3	_	9
E.N. Central	_	0	8	_	17	_	3	23	1	23	_	1	7	1	8
Illinois	—	0	4	—	8	—	0	1	_	1	_	0	1	_	1
Indiana	_	0	0	_	—	—	0	0	_	—	_	0	6	1	4
Nichigan	_	0	2	_	2	_	0	0	_	_	_	0	0	_	_
Wisconsin	_	0	2	_	7	_	3	22	1	22	_	0	4	_	3
W N Central	2	2	23	4	6	_	0	261			_	0	30	2	3
lowa	_	0	0	_	_	_	0	0	_	_	_	0	0	_	_
Kansas	_	0	2	_	_	_	0	1	_	_	_	0	0	_	_
Minnesota		0	6			—	0	261	—	—	—	0	30		2
Missouri Nobrocko [§]	2	1	22	4	6	_	0	2	_	—	—	0	4	2	1
North Dakota	_	0	0	_	_	_	0	0	_	_	_	0	0	_	_
South Dakota	_	Ő	Ő	_	_	_	Ő	Ő	_	_	_	Ő	Ő	_	_
S. Atlantic	_	3	14	19	21	_	0	2	5	2	_	0	2	_	_
Delaware	_	0	2	3	3	_	0	1	1	_	_	0	0	_	_
District of Columbia	_	0	0	_	_	—	0	0	—	—	_	0	0	—	_
Florida	_	0	1	2	2	_	0	1	1	—	—	0	0		_
Maryland [§]	_	1	4	4	7	_	0	1	1	2	_	0	0	_	_
North Carolina	_	0	3	7	_	_	0	1	1	_	_	0	0	_	_
South Carolina [§]	_	0	1	_	2	—	0	0	_	—	_	0	0	—	_
Virginia ⁹	_	0	13	_	2	_	0	1	1	—	—	0	2		_
west virginia	-	1	11			_	0	1	_	1	_	0	1		
E.S. Central	2	0	3	0	0	_	0	1	_	_		0	0		0
Kentucky	_	0	2	_	_	_	0	Ó	_	_	_	0	1	_	_
Mississippi	_	0	2	_	_	_	0	0	_	_	_	0	0	_	_
Tennessee§	2	1	10	5	8	—	0	1	—	1	—	0	5	1	8
W.S. Central	—	0	97	1	1	—	0	16	—	—	—	0	3	_	_
Arkansas [§]	—	0	11	—	_	—	0	0	_	—	—	0	3	_	—
Oklahoma	_	0	84	_	1	_	0	15	_	_	_	0	0	_	_
Texas [§]	_	Ő	2	1	_	_	Ő	1	_	_	_	0	Ő	_	_
Mountain	_	0	0	_	_	_	0	0	_	_	_	0	1	_	_
Arizona	_	0	0	_	_	_	0	0	_	_	_	0	1	_	_
Colorado	—	0	0	_		—	0	0	—	—	—	0	0	_	_
Idaho ^s Montana [§]	_	0	0	_	_	_	0	0	_	_	_	0	0	_	_
Nevada [§]	_	0	0	_	_	_	0	0	_	_	_	0	0	_	_
New Mexico [§]	_	0	0	_	_	_	0	0	_	_	_	0	0	_	_
Utah	—	0	0	—	—	—	0	0	—	—	—	0	0	—	—
Wyoming ⁹	_	0	0	_		_	0	0	_	—	—	0	0		_
Pacific	—	0	1	—	2	—	0	0	_	—	—	0	0	_	—
Alaska	_	0	0	_		_	0	0	_	_	_	0	0	_	_
Hawaii	_	0	0	_		_	0	0	_	_	_	0	0	_	_
Oregon	_	õ	õ	_	_	_	õ	õ	_	_	_	Ő	õ	_	_
Washington	_	0	0	_	_	_	0	0	_	_	_	0	0	_	_
American Samoa	_	0	0	_	_	_	0	0	_	_	_	0	0	_	_
C.N.M.I.	_		_	—	_	_		_	_	_	_	_	_	_	_
Guam Puerto Rico	_	0	0	_	_	_	0	0	_	_	—	0	0	_	_
I S Virgin Islands	_	0	0	_	_	_	0	0	_	_	_	0	0	_	_

C.N.M.I.: Commonwealth of Northern Mariana Islands. U: Unavailable. —: No reported cases. N: Not reportable. NN: Not Nationally Notifiable. Cum: Cumulative year-to-date counts. Med: Median. Max: Maximum. * Incidence data for reporting years 2009 and 2010 are provisional. † Cumulative total *E. ewingii* cases reported as of this week = 0. § Contains data reported through the National Electronic Disease Surveillance System (NEDSS).

MMWR Morbidity and Mortality Weekly Report

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending May 15, 2010, and May 16, 2009 (19th week)*

			Giardiasi	5		Gonorrhea						Haemophilus influenzae, invasive [†] All ages, all serotypes					
	Current	Previous	52 weeks	Cum	Cum	Current	Previous 5	52 weeks	Cum	Cum	Current	Previous 5	2 weeks	Cum	Cum		
Reporting area	week	Med	Max	2010	2009	week	Med	Max	2010	2009	week	Med	Max	2010	2009		
United States	206	332	651	5,299	5,710	2,165	5,505	6,930	78,973	110,420	27	56	168	1,034	1,192		
New England	4	27	65	275	464	79	92	197	1,783	1,748	—	3	21	23	78		
Connecticut Maine [§]	2	6 4	15 13	94 67	89 70	27	45	170 11	859 77	810 56	_	0	15 2	9	23 11		
Massachusetts		10	36		195	48	39	81	686	700	_	1	8		37		
New Hampshire	1	3	11	40	39		2	7	54	40	—	0	2	6	4		
Rhode Island ³ Vermont [§]	1	1	6 14	19 55	21 50	3	6 0	19	98	23	_	0	2	4	1		
Mid Atlantic	34	62	112	879	1,101	655	621	941	11,794	11,317	4	12	34	231	210		
New Jersey	_	6	15	1	161	93	89	132	1,628	1,744	_	2	7	30	34		
New York (Upstate)	20	24	84	368	381	111	97	422	1,875	1,994	2	3	20	62	52		
Pennsylvania	7	16	25 37	271	240	280 171	215	396 277	4,330	4,020	2	2	10	47 92	26 98		
E.N. Central	17	44	80	730	829	238	1,088	1,536	10,649	24,019	7	8	18	145	178		
Illinois	—	12	22	162	193	—	354	441	48	7,660	—	3	9	41	66		
Indiana Michigan	N	0	7	N 215	N		100	183	1,214	2,838	1	1	5	27	34		
Ohio	5 14	15	25	304	225	203	246 307	302	3,704	5,636	6	2	4 6	50	37		
Wisconsin	_	8	23	49	135	_	93	115	573	2,018	_	1	5	13	30		
W.N. Central	14	27	158	500	530	9	269	369	4,307	5,588	5	2	22	67	68		
lowa	2	6	15	85	87	2	31	46	562	634	—	0	1	1	10		
Minnesota	4	0	135	136	137		40	64	674	855	4	0	17	21	10		
Missouri	6	8	27	120	161	—	123	172	2,138	2,445		1	6	29	29		
Nebraska ⁹ North Dakota	2	4	9	71	51	_	22	55 11	372	518	1	0	3	4	11		
South Dakota	_	1	10	6	42	_	4	16		141	_	0	0	_			
S. Atlantic	58	73	144	1,328	1,254	637	1,341	1,774	16,638	27,334	5	14	27	263	340		
Delaware	1	0	3	10	11	23	19	37	369	298	—	0	1	3	3		
District of Columbia Florida		1 37	4 87	10 643	23 656	215	44 383	86 482	616 6 823	1,044 7 877		0	1	 82	1		
Georgia	3	14	52	337	266	215	193	494	584	5,206	_	3	9	67	67		
Maryland [§]	9	5	12	111	96	64	126	237	2,027	2,117	—	1	6	18	41		
North Carolina South Carolina [§]	N 1	0	0	N 36	N 37	146	230 160	386 394	2 908	5,217	_	1	6 7	20 38	42		
Virginia [§]	8	9	37	168	149	181	161	271	3,133	2,415	1	2	5	27	29		
West Virginia		1	5	13	16	8	8	19	178	222		0	5	8	15		
E.S. Central	1	7	22	91	128	_	472	649	7,262	9,647	3	3	12	68	78		
Kentucky	N	4	13	49 N	62 N	_	84	187	2,445	2,721	_	0	2	11	22		
Mississippi	N	Ő	Ő	N	N	_	129	198	1,356	2,763	_	Ő	2	6	9		
Tennessee [§]	1	3	18	42	66	_	144	206	2,182	3,008	3	2	10	44	40		
W.S. Central	2	9	18	109	130	154	879	1,554	13,908	16,968	2	2	20	53	55		
Louisiana	_	2	10	32 39	41 65	93	87 132	343	910	3,595	_	0	3	11	10		
Oklahoma	2	3	10	38	24	61	69	616	1,459	963	2	1	15	31	33		
Texas ⁹	N	0	0	N	N	_	565	964	9,990	10,760	_	0	2	4	2		
Mountain	27	31	64 7	516	452	80	168	266	2,498	3,216	_	5	14	140	116		
Colorado	22	12	26	258	131	23	51	109	888	932	_	1	6	37	35		
Idaho [§]	3	4	10	75	43		1	8	24	38	_	0	2	6	2		
Montana ^s Nevada [§]	- 2	3	11	43	37	1	2	6 04	43	35 717	_	0	1	1	1		
New Mexico [§]		1	8	20	39		19	41	238	344	_	1	5	20	10		
Utah	—	5	13	33	84	_	6	14	75	120	_	1	4	12	14		
Wyoming ⁹		1	5	15	19		1	7	11	20		0	2	5			
Pacific	49	53	132	8/1	822	313	539	65 I 36	10,134	10,583	1	2	3	44	69		
California	29	34	61	543	579	274	446	544	8,399	8,639	_	0	4	1	25		
Hawaii	_	0	2		7	—	10	24	207	252		0	3		17		
Oregon Washington	7 13	9 8	17 75	177 110	120 94	20	15 42	43 84	106 927	428 032	1	1	5 4	29 3	21 २		
American Samoa		0	0				د ب	0	<i>JZ1</i>		_	0	 0	_			
C.N.M.I.	_	_	_	_	_	_		_	_	_	_	_	_	_	_		
Guam	_	0	1	1		_	0	3	4		_	0	0	_	_		
Puerto Kico	_	1	10	9	55	5	4	24	97	75		0	1	1	1		
U.J. VILYIII ISIdHUS	_	U	U	_	_	_	1	/	Ó	20	IN	0	U	IN	IN		

C.N.M.I.: Commonwealth of Northern Mariana Islands. U: Unavailable. —: No reported cases. N: Not reportable. NN: Not Nationally Notifiable. Cum: Cumulative year-to-date counts. Med: Median. Max: Maximum. * Incidence data for reporting years 2009 and 2010 are provisional. † Data for *H. influenzae* (age <5 yrs for serotype b, nonserotype b, and unknown serotype) are available in Table I. § Contains data reported through the National Electronic Disease Surveillance System (NEDSS).

MMWR Morbidity and Mortality Weekly Report

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending May 15, 2010, and May 16, 2009 (19th week)*

							Hepatitis (viral, acute	e), by type	e							
			А					В			с						
	Current	Previous	52 weeks	Cum	Cum	Current	Previous	52 weeks	Cum	Cum	Current	Previous 5	2 weeks	Cum	Cum		
Reporting area	week	Med	Max	2010	2009	week	Med	Max	2010	2009	week	Med	Max	2010	2009		
United States	19	33	66	469	715	23	57	201	919	1,264	14	15	41	255	286		
New England	1	1	5	16	41	_	1	4	19	24	_	1	5	9	21		
Connecticut	1	0	2	9	9	_	0	3	5	5	_	1	4	9	17		
Maine' Massachusetts	_	1	4	- 3	23	_	0	2	9	5 11	_	0	1	_	3		
New Hampshire	_	0	1	_	4	_	Ő	2	4	3	_	0	0	_	_		
Rhode Island [†]	_	0	4	4	3	_	0	0	_	—	—	0	0	_	_		
Vermont [™]	_	0	1		1	_	0	1	1	_	_	0	0	_	1		
Mid. Atlantic	2	4	10	67	89	3	5	10	100	154	3	2	4	31	33		
New Jersey New York (Upstate)	1	1	5	8 18	28 16	2	1	4	21	52 25	2	0	2	19	5 17		
New York City	1	2	5	23	20		1	4	31	28		0	1		1		
Pennsylvania	_	1	6	18	25	1	1	5	30	49	1	0	4	10	10		
E.N. Central	_	4	19	56	111	1	7	14	122	181	—	2	5	45	37		
Illinois	—	1	13	12	44	—	2	6	22	39	—	0	1	_	3		
Indiana Michigan	_	0	4	5	8 28	_	1	5	18	31	_	0	3	8 35	5 11		
Ohio	_	0	4	12	20	1	2	4	40	50	_	0	3	2	16		
Wisconsin	_	0	2	5	11	_	0	3	_	9	_	0	1	_	2		
W.N. Central	_	1	9	20	45	1	3	15	49	47	_	0	10	10	4		
lowa	_	0	3	4	13	_	1	3	8	10	—	0	4	1	2		
Kansas	_	0	2	6	4	_	0	2	2	4	—	0	0		1		
Minnesota Missouri	_	0	8	1	8	1	0	13	2	10 14	_	0	9	5	_		
Nebraska [†]	_	0	3	1	8	_	0	2	8	8	_	0	1	_	1		
North Dakota	_	0	1	_	_	_	0	0	_	_	_	0	1	_	_		
South Dakota	_	0	1	_	1		0	1	_	1	_	0	1	1	_		
S. Atlantic	7	7	14	112	166	12	15	39	279	340	4	3	8	53	82		
Delaware District of Columbia		0	0	4 U	2	0	0	2	U	U	U	0	0	U	0		
Florida	3	3	8	41	79	9	5	11	112	120	3	1	4	19	10		
Georgia	3	1	3	16	13	_	3	7	54	53	—	0	2	4	18		
Maryland [†]	1	0	4	9	17	—	1	6	22	41	1	0	3	9	17		
South Carolina [†]	_	1	5 4	18	14	_	1	4	13	49	_	0	4	9	1		
Virginia [†]	_	1	3	12	12	1	2	14	38	29	_	Ő	2	6	6		
West Virginia	_	0	2	1	_	2	0	19	25	21	—	0	3	6	13		
E.S. Central	—	1	3	15	19	—	7	13	98	148	2	2	6	47	42		
Alabama [†]	_	0	2	4	2	_	1	5	22	42	1	0	2	1	5		
Mississinni	_	0	2	8	11	_	2	0 5	33	33 20	_	0	5	35	23		
Tennessee [†]	_	0	2	3	5	_	2	6	35	53	1	0	3	11	14		
W.S. Central	2	3	19	49	67	4	10	108	121	198	4	1	13	20	18		
Arkansas [†]	_	0	3	—	4	—	0	4	3	21	—	0	1	—	1		
Louisiana	—	0	1	3	1	1	1	5	13	22		0	1	2	4		
Texas [†]	2	3	5 18	46	61	3	2	87	84	40 115	2	0	4	9	11		
Mountain	2	3	8	54	52	1	2	6	32	53	1	1	4	16	20		
Arizona	1	1	5	30	18	_	0	3	11	23	_	0	0	_	_		
Colorado	1	1	4	9	16	_	0	2	1	11	—	0	3	2	12		
Idaho [†]	—	0	1	2		—	0	2	3	2	1	0	2	6	1		
Nevada [†]	_	0	2	5	5	1	0	3	13	7	_	0	1	1	1		
New Mexico [†]	_	Ő	1	3	5	_	Ő	1	2	4	_	Ő	2	5	4		
Utah	—	0	2	1	3	—	0	1	2	4	—	0	1	2	2		
Wyoming		0	1			_	0	2		2	_	0	0	_	_		
Pacific	5	5	16	80	125	1	6	20	99	119	_	1	6	24	29		
California	5	0 4	0 15		ک ۵٦	_	0	1 16	1 72	2 85	_	0	2	7	13		
Hawaii		0	1		6	_	0	1		3	_	0	0	_			
Oregon	_	0	2	8	5	—	1	4	15	15	_	0	3	10	8		
Washington	—	0	4	6	18	1	0	4	11	14	—	0	6	7	8		
American Samoa	—	0	0	—	—	—	0	0	—	—	—	0	0	—	—		
C.N.M.I. Guam	_	0	6	7	_	_	1	6	20	_	_	1		12	_		
Puerto Rico	_	0	2	2	13	_	0	5	7	11	_	0	0		_		
U.S. Virgin Islands	_	0	0	_	_	_	0	0	_	_	_	0	0	_	_		

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

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending Ma	ay 15, 2010, and May 16, 2009 (19th week)
---	---

	Legionellosis						Ly	me diseas	e	Malaria					
	Current	Previous	52 weeks	Cum	Cum	Current -	Previous	52 weeks	Cum	Cum	Current	Previous 5	52 weeks	Cum	Cum
Reporting area	week	Med	Max	2010	2009	week	Med	Max	2010	2009	week	Med	Max	2010	2009
United States	26	58	174	574	601	107	440	2,335	3,092	4,697	13	27	87	343	386
New England	_	3	18	16	24	14	123	853	345	1,687	_	1	4	4	15
Connecticut Maino [†]	_	1	5	8	6		38	295	6 112	737	—	0	3	1	1
Massachusetts	_	1	9		16		37	397		607	_	0	3	_	11
New Hampshire	—	0	3	1	_	—	20	95	184	233	—	0	1	1	1
Rhode Island ¹ Vermont [†]	_	0	4	5	1		2	29 45	10 32	11 39	_	0	1	1	1
Mid Atlantic	11	18	73	131	159	56	199	999	1.868	1.786	3	7	17	92	109
New Jersey	_	3	14	_	28	3	42	429	427	690	_	1	5	_	30
New York (Upstate)	4	5	29	44	53	38	53	577	404	466	2	1	4	23	17
Pennsylvania	7	3 6	25	30 57	59	15	65	58 475	1.035	469	1	3 1	4	49 20	49 13
E.N. Central	1	11	41	101	122	_	23	258	62	266	_	2	12	31	48
Illinois	—	1	11	7	14	_	1	12	4	11	—	1	4	14	21
Indiana Michigan	—	1	5	8	15	—	1	6	9	10	—	0	4	2	7
Ohio	1	5	17	57	54	_	1	5	5	4	_	0	6	11	12
Wisconsin	_	1	6	2	19	—	18	239	41	237	_	0	2	_	2
W.N. Central	—	2	18	23	21	2	4	1,380	9	41	—	1	11	21	17
lowa Kansas	_	0	3	2	8	1	0	15	2	7	_	0	1	6	4
Minnesota	_	0	16	9		_	0	1,380	_	26	_	0	11	3	8
Missouri	—	1	5	6	5		0	1	1	1	—	0	1	3	3
Nebraska' North Dakota	_	0	2	2	4	_	0	3	3	_	_	0	2	6	_
South Dakota	_	0	1	_	_	_	0	0	_	1	_	0	0	_	1
S. Atlantic	6	11	24	128	126	27	69	255	691	845	3	6	15	97	122
Delaware District of Columbia	_	0	5	5	1	2	12	65	182	186	—	0	1	2	1
Florida	2	4	10	57	47	3	2	11	25	11	3	2	7	44	32
Georgia	_	1	4	16	17		0	6	3	9	_	0	6	2	24
Maryland ¹ North Carolina	3	2	12	2/	25 17	15	29 1	134	301 12	449 27	_	1	13	20	32 14
South Carolina [†]	_	0	2	1	2	_	1	3	10	9	_	Ő	1	1	1
Virginia [†]	1	1	6	17	12	7	13	79	141	115	—	1	5	18	12
E Control	_	2	12	2	 27	_	1	55 4	14	55 7	1	0	2 4	6	12
Alabama [†]	_	2	2	3	5	_	0	1		, 1	_	0	3	1	2
Kentucky	—	1	3	8	11	_	0	1	1	1	—	0	3	2	3
Mississippi Tennessee [†]	_	0	4	2	 11	_	0	0	 11		1	0	2		
W S Central	2	2	14	24	32	2	4	44	18	18	2	1	31	40	10
Arkansas [†]	_	0	1	1	2	_	0	0	_	_	_	0	1	1	_
Louisiana	—	0	3	1	3	—	0	0	—	—	—	0	1		3
Oklanoma Texas [†]	2	1	4 10	22	26	2	0	42	18	18	2	0	30	2 37	7
Mountain	_	3	8	32	36	_	1	4	4	9	1	1	6	14	11
Arizona	_	1	4	13	14	_	0	1	_	_	1	0	2	7	1
Colorado Idaho [†]	_	0	4	2	4	_	0	1	1		_	0	3	1	8
Montana [†]	_	0	1	1	4	_	0	1	_	1	_	0	3	1	_
Nevada [†]	—	0	2	10	6	—	0	2	1	3	—	0	1	2	—
New Mexico	_	0	2	2	6	_	0	1	1	2	_	0	0	3	2
Wyoming [†]	_	0	2	1	1	—	0	1	_	_	_	0	0	_	_
Pacific	6	4	19	96	54	6	4	10	83	38	3	2	19	38	42
Alaska California	6	0	0 10	 QQ	1		0	1 0	1	2	2	0	1 12	2 27	1 20
Hawaii		0	0		40	N	0	0	N	N		2	0		1
Oregon	_	0	3	1	3		1	4	26	13	_	0	1	3	6
Washington		0	4	7	3	1	0	3	1	1	—	0	5	6	4
American Samoa C.N.M.I.	IN			IN	IN	IN			IN	IN	_			_	_
Guam	_	0	0	_	_	_	0	0	_	_	_	0	0	_	_
Puerto Rico	—	0	1	—	—	N	0	0	N	N	—	0	2	1	1
U.S. Virgin Islands	—	0	0	_	—	N	0	0	N	N	—	0	0	—	_

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

MMWR Morbidity and Mortality Weekly Report

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending May 15, 2010, and May 16, 2009 (19th week)*

Image Period No. Corrent Period No.			Meningoco	occal disea All groups	se, invasive S	e [†]			Pertussis				Rabi	ies, animal		
Repering area week Made Alas 2010 2000 Week Made Alas 2010 United States 1 0 2 4 12 1/16 3256 4,754 21 63 114 829 Maine ⁵ - 0 0 1 - 7 4 24 21 - 1 0 2 3 3 - - 1 0		Current	Previous	52 weeks	Cum	Cum	Current	Previous	52 weeks	Cum	Cum	Current	Previous	52 weeks	Cum	Cum
United States 14 16 42 203 499 110 271 1/746 3.256 4/754 21 63 114 899 Connection - 0 2 - 2 - 1 44 13 - 1 122 36 Mand ^A - 0 1 - 0 - 1 - 1 4 13 - 0 1 - 1 - 1 3 0 1 3 - 0 1 - 1 - 0 1 3 1 - 0 1 3 1 0 1 3 3 - 0 1 1 2 <th>Reporting area</th> <th>week</th> <th>Med</th> <th>Max</th> <th>2010</th> <th>2009</th> <th>week</th> <th>Med</th> <th>Max</th> <th>2010</th> <th>2009</th> <th>week</th> <th>Med</th> <th>Max</th> <th>2010</th> <th>2009</th>	Reporting area	week	Med	Max	2010	2009	week	Med	Max	2010	2009	week	Med	Max	2010	2009
New England 1 0 2 4 16 - 7 24 29 20 1 5 24 29 36 Mane ³ - 0 1 1 2 - 0 10 5 13 - 1 4 13 - 1 4 13 - 0 1 - 1 4 10 3 - 0 1 3 1 - 0 1 3 1 0 1 3 1 1 3 6 0 1 3 3 1 1 3 3 - 0 1 3 3 - 0 1 0 0 - 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 1 1 0	United States	14	16	42	303	439	116	271	1,746	3,256	4,754	21	63	114	859	1,354
$\begin{array}{c} \mbox{connecticut} & - & 0 & 2 & - & 2 & - & 1 & 4 & 14 & 13 & - & - & 1 & 22 & 38 \\ \mbox{connecticut} & - & 0 & 1 & - & 1 & - & 0 & 1 & 3 & - & - & 0 & 0 & 3 & - & 3 \\ \mbox{remma}^3 & - & 0 & 1 & - & 1 & - & 0 & 1 & 3 & 6 & 1 & 1 & 5 & 3 \\ \mbox{remma}^3 & - & 0 & 1 & 3 & 1 & - & 0 & 1 & 3 & 6 & 1 & 1 & 5 & 3 \\ \mbox{remma}^4 & - & 0 & 2 & 8 & 6 & - & 4 & 10 & 23 & 22 & 0 & 2 & - & 0 & 0 & 2 & - & 0 \\ \mbox{remma}^4 & - & 0 & 2 & 8 & 6 & - & - & 4 & 10 & 23 & 23 & 0 & - & 0 & 0 & 0 & 2 & - & 0 \\ \mbox{remma}^4 & - & 0 & 2 & 2 & 8 & 6 & - & - & 4 & 10 & 23 & 23 & 0 & - & 0 & 0 & 0 & 0 & - & - & 0 & 11 & 2 & 3 & 35 & - & 0 & 0 & 0 & - & 0 & 0 & - & - & 0 & 11 & 2 & 3 & 35 & - & 0 & 0 & 0 & - & - & 0 & 11 & 1 & 3 & 1 & - & 0 & 1 & 1 & 3 & 35 & - & 0 & 0 & 0 & - & - & 0 & 11 & 1 & 3 & 1 & - & 0 & 1 & 1 & 3 & 35 & - & 0 & 0 & 0 & - & - & 0 & 11 & 1 & 3 & 1 & - & 0 & 1 & 1 & 10 & 0 & 10 & - & 0 & 0 & - & 0 & 0 & - & 0 & 0 & $	New England	1	0	2	4	16	—	7	24	29	240	1	5	24	79	117
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Connecticut Maino [§]	1	0	2	1	2	—	1	4	14	13	—	1	22	36	44
New Hempshie - 0 1 - 1 - 1 - 1 0 3 3 3 Vermont ¹ - 0 1 3 1 - 0 1 3 6 1 1 5 13 Mew Ares - 0 1 3 1 - 0 1 3 6 1 1 5 11 3 6 1 1 5 10 10 22 22 10 <td>Massachusetts</td> <td>_</td> <td>0</td> <td>1</td> <td></td> <td>2</td> <td>_</td> <td>4</td> <td>10</td> <td></td> <td>158</td> <td>_</td> <td>0</td> <td>4</td> <td></td> <td></td>	Massachusetts	_	0	1		2	_	4	10		158	_	0	4		
Bhode Ishand* _ 0 1 _ 1 _ 0 8 4 8 _ 0 5 3 Mid. Atamic _ 2 4 30 48 10 20 42 225 43 9 00 23 220 New Vork City _ 0 2 8 6 - 4 10 23 55 - 0 1 220 10 221 10 235 - 0 10 10 229 23 39 222 102 225 - 0 0 - - 10	New Hampshire	_	0	1	_	1	_	1	7	3	24	_	0	3	3	16
$ \begin{array}{c} \text{Vertion} \\ \text{Match Atlantic} \\ - 0 & 1 & 3 & 1 & - & 0 & 1 & 3 & 0 & 1 & 1 & 3 & 18 \\ \text{Mole Atlantic} \\ - & 0 & 2 & 8 & 6 & - & - & 6 & 10 & 28 & 66 & - & 9 & 0 & 23 & - & 20 \\ \text{Now Vork (C)} \\ - & 0 & 2 & 7 & 10 & - & 0 & 11 & 3 & 25 & - & 0 & 0 & 0 & - & - & - & - & - & -$	Rhode Island ⁹	—	0	1		1	—	0	8	4	8	1	0	5	3	13
	vermont	_	0	1	20	1	10	20	12	225	421	0	10	2	220	20
iew vork (Lipstele) 0 3 6 9 7 5 27 92 63 9 9 22 100 Pernsylvania 1 2 9 23 3 9 22 102 223 0 01 160 Pernsylvania 0 4 7 19 9 23 10 44 7 1 9 55 100 1 9 55 100 1 9 15 46 60 116 1 0 6 7 1 0 6 7 1 0 1 1 1 0 1 1 1 0 1	Mid. Atlantic New Jersey	_	2	4	8	40		20	42	223	96		0	23		211
hew York City 0 11 3 35 0 11 6 EN. Central 1 3 7 45 78 55 54 105 809 964 3 2 19 17 EN. Central 1 3 7 45 78 55 54 105 809 944 34 2 19 17 19 -6 16 60 10 2 1 1 9 25 31 1 0 7 7 - 6 16 60 32 21 6 7 7 - 0 1 7 - 0 1 33 7 46 16 20 33 - 1 16 21 33 1 2 16 33 1 1 33 1 2 16 33 1 1 40 34 34 34 34	New York (Upstate)	_	Ő	3	6	9	7	5	27	92	65	9	9	22	160	109
Premsyvania — I 2 9 23 3 9 22 102 223 — 0 0 0 — I 1 1 1 7 7 6 54 105 809 964 3 2 19 17 1 11 10 10 1 4 10 247 — 1 9 5 11 11 10 1 1 1 0 1 1 1 0 1 1 1 0 1 1 1 0 1 1 1 0 1 1 0 1 1 0 1 1 0 1 0 1 1 0 0 0 1 0 1 0 0 0 1 0 1 0 0 0 1 0 1 0 0 0 0 1 0	New York City	—	0	2	7	10	_	0	11	3	35	—	0	11	60	2
E.H. Central I is i s i s i s i s i s i s i s i s i	Pennsylvania	1	1	2	9	23	3	9	22	102	225	-	0	10	17	100
	E.N. Central	-	3	/	45	78 10	22	54	105	809 104	964 247	3	2	19	5	28 13
Michigan 0 5 7 11 9 16 41 255 204 2 1 6 7 Wisconsin 0 1 3 12 2 12 5 51 N 0 0 N Wisconsin 0 2 3 3 4 12 66 3 6 14 4 22 Kinssur 0 2 3 3 4 12 66 166 168 1 0 9 13 7 14 2 7 1 6 15 15 Missouri 0 12 35 102 452 1 1 6 21 3 30 1 10 9 13 30 North Dakota 0 12 0 12 16 311 50 5 3 30 30 30 31 Delsvictof Columbia	Indiana	_	0	3	11	17	_	6	16	60	116	_	0	7		4
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Michigan		0	5	7	11	9	16	41	255	204	2	1	6	7	11
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Ohio Wisconsin	1	1	2	17	19	46	19	49	385	346	1 N	0	5	5	
		1	1	6	10	33		2	626	2/1	866	3	6	14	74	110
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	lowa	_	0	2	3	3	_	20	12	62	70	_	0	4		9
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Kansas	_	Ő	2	1	6	_	3	12	40	83	_	1	4	22	37
	Minnesota	—	0	2	2	8	6	0	601	6	168	1	0	9	13	18
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Missouri Nebraska [§]	1	0	3	8	10	1	12	35	102	452 81	1	1	5	15	13
South Dakota - 0 2 - 3 - 1 6 3 10 - 0 1 - S. Atlantic 3 2 7 63 87 9 22 63 311 508 2 25 43 350 District of Columbia - 0 0 - - 0 2 3 - 0 2 3 - 0 0 - 0 0 - 0 0 - 0 0 - 0 0 0 - 0 0 - 0 0 - 0 0 - 0 0 - 0 0 0 - 0 0 0 - 0 0 0 - 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	North Dakota	_	0	1	_	_	_	0	12		2	_	0	7	3	4
S.Atlantic 3 2 7 63 87 9 22 63 311 508 2 25 43 350 Delaware — 0 1 2 - 5 — 0 0 0 — District of Columbia — 0 0 1 - 2 - 5 - 0 0 0 District of Columbia — 0 0 1 - 2 - 6 14 - 4 8 64 101 - 5 16 - 0 30 51 Georgia 1 0 2 6 14 - 4 8 64 101 - 5 16 - 18 15 130 North Carolina - 0 2 5 23 - 1 9 - 76 N 0 4 15 19 North Carolina - 0 2 1 0 8 2 4 15 42 53 - 0 0 - 0 0 - Vrigina - 0 2 1 4 5 1 4 18 77 55 - 0 0 4 N South Carolina - 0 2 2 1 4 - 6 7 5 2 28 2 - 10 26 141 West Virginia - 0 2 2 1 4 - 15 19 - 16 31 255 281 2 1 7 4 24 Alabama - 0 2 2 5 3 - 4 15 93 90 - 0 2 - 0 2 - 6 28 ES. Central 1 0 4 15 19 - 16 31 255 281 2 1 7 4 24 Alabama - 0 2 2 5 3 - 4 15 93 90 - 0 2 - 0 2 - Mississippi - 0 2 2 5 3 - 4 15 93 90 - 0 2 - 0 2 - Mississippi - 0 2 2 5 8 - 4 10 78 59 - 0 0 6 - 29 MS. Central 1 1 9 3 55 35 11 70 754 932 744 - 0 17 10 Alabama - 0 2 7 - 18 - 4 10 78 59 - 0 10 6 - 29 MS. Central 1 1 7 7 12 2 - 0 4 10 8 65 - 0 10 - 0 - 0 - Mississippi - 0 3 7 7 12 2 - 0 4 10 8 65 - 0 0 0 0 Mississippi - 0 3 7 7 12 2 - 0 4 10 8 65 - 0 0 - 0 0 Mississippi - 0 3 7 7 12 2 - 0 4 10 8 65 - 0 0 0 - 0 - 0 Mahama - 0 3 7 12 2 - 0 4 10 8 9 73 - 0 0 10 6 - 0 Nahama - 0 3 7 7 12 2 - 0 4 10 8 9 73 - 0 0 10 - 0 Mahama - 0 0 7 12 2 - 7 7 - 6 12 108 71 N 0 5 N Colorado - 0 0 1 4 2 3 - 1 19 - 1 6 2 681 889 573 - 0 0 0 0 Missisana - 0 0 2 - 7 7 7 - 6 12 108 71 N 0 0 - 0 4 - N New dexico ³ - 0 0 1 - 1 1 - 3 11 0 6 6 2 6 - 0 0 1 - N New dexico ³ - 0 0 1 - 0 4 1 - 2 6 27 30 - 0 0 2 - 1 Mahama - 0 0 7 12 2 - 0 4 1 1 2 6 - 0 2 - 0 - 0 4 - 0 - N New dexico ³ - 0 0 1 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0	South Dakota	_	0	2	_	3	—	1	6	3	10	—	0	1	—	4
	S. Atlantic	3	2	7	63	87	9	22	63	311	508	2	25	43	350	687
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Delaware District of Columbia	_	0	1	1	2	_	0	2		5	_	0	0	_	_
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Florida	2	1	5	34	28	6	0	29	2 78	3 164	_	0	30	51	161
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Georgia	1	0	2	6	14	_	4	8	64	101	_	5	16		164
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Maryland [§]	—	0	1	2	3	—	3	8	41	46	_	8	15	130	131
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	North Carolina South Carolina [§]	_	0	2	5	23	1	1	9 18	77	/6 55	N	0	4	N	N
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Virginia [§]	_	0	2	10	8	2	4	15	42	53	_	10	26	141	195
E.S. Central1041519163125528121742Alabama ⁵ 0234519668320413Kentucky0253415939002Tennessee ⁵ 1025841078590629W.S. Central1193535117075493274401710Arkansas ⁵ 023553030970106Louisiana071220415900Oklahoma071220412673922815Arizona027761210871N05NColorado01332119543700NewAizo ⁵ 013321195437021NewAizo ⁵ 0133211	West Virginia	_	0	2	1	4	_	0	6	7	5	2	2	6	28	36
Alabama ³ - 0 2 3 4 - 5 19 66 83 2 0 4 13 Kentucky - 0 2 5 3 - 4 15 93 90 - 0 2 - - Mississippi - 0 2 2 4 - 2 12 18 49 - 0 2 - - Mississippi - 0 2 2 4 - 2 12 18 49 - 0 2 - - 0 7 19 0 16 30 97 - 0 16 10 66 20 0 17 10 66 65 - 0 0 - - 0 0 - - 0 0 - - 0 0 - 0 0 - - 0 0 - - 0 0 - - 0 0 -	E.S. Central	1	0	4	15	19	—	16	31	255	281	2	1	7	42	58
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Alabama ⁹ Kontuslar	—	0	2	3	4	—	5	19	66	83	2	0	4	13	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Mississippi	_	0	2	2	5 4	_	4	13	95 18	90 49	_	0	2	_	22
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Tennessee§	1	0	2	5	8	_	4	10	78	59	_	0	6	29	34
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	W.S. Central	1	1	9	35	35	11	70	754	932	744	_	0	17	10	15
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Arkansas [§]	—	0	2	3	5	—	5	30	30	97	—	0	10	6	11
Texas ⁵ 1 1 7 12 2 1 6 7 13 19 11 62 61 889 53 — 0 0 — Mountain — 1 4 24 35 8 17 41 267 392 — 2 8 15 Arizona — 0 2 7 7 — 6 12 108 71 N 0 5 N Colorado — 0 1 3 3 2 1 19 54 37 — 0 0 — . Idaho ⁵ — 0 1 3 3 2 1 19 54 37 — 0 0 0 2 . . 10 . <td>Louisiana Oklahoma</td> <td>_</td> <td>0</td> <td>3</td> <td>12</td> <td>9</td> <td>_</td> <td>1</td> <td>10 41</td> <td>85</td> <td>65 Q</td> <td>_</td> <td>0</td> <td>0 15</td> <td></td> <td></td>	Louisiana Oklahoma	_	0	3	12	9	_	1	10 41	85	65 Q	_	0	0 15		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Texas [§]	1	1	7	13	19	11	62	681	889	573	_	0	0	_	_
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Mountain	_	1	4	24	35	8	17	41	267	392	_	2	8	15	39
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Arizona	_	0	2	7	7	—	6	12	108	71	Ν	0	5	N	Ν
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Colorado Idabo§	—	0	3	6	11	4	3	13	42	101	—	0	0	1	—
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Montana§	_	0	2	1	3	1	1	6	6	10	_	0	4	_	11
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Nevada§	_	0	1	4	3	1	0	6	2	6	_	0	1	_	_
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	New Mexico [§]	_	0	1	2	3	_	1	6	27	30	—	0	3	4	14
Pacific 6 3 16 68 88 16 26 18 11 26 14 12 52 Pacific 6 3 16 68 88 16 26 186 187 338 1 4 12 52 Alaska 0 2 3 0 4 11 26 0 2 11 California 2 2 13 48 54 5 12 162 27 121 1 3 11 37 Hawaii 0 1 3 0 3 11 0 0 0 3 11 0 0 0 3 11 0 0 0 0 0 0 0 0 11 11 11<	Utan Wyoming [§]	_	0	1		4	_	2	6	27	123	_	0	2	10	13
Alaska 0 2 3 0 4 11 26 0 2 11 California 2 2 13 48 54 5 12 162 27 121 1 3 11 37 Hawaii 0 1 3 0 3 11 0 0 Oregon 0 5 12 162 27 121 1 3 11 37 Hawaii 0 1 3 0 3 11 0 0	Pacific	6	3	16	68	88	16	26	186	187	338	1	4	12	52	80
California 2 2 13 48 54 5 12 162 27 121 1 3 11 37 Hawaii 0 1 3 0 3 11 0 0 Oregon 0 5 12 19 4 5 12 98 81 0 2 4 Washington 4 0 7 8 9 7 5 24 51 99 0 0 American Samoa 0 0 0 0 0 0 N 0 0 N N 0 0 N <th< td=""><td>Alaska</td><td>_</td><td>0</td><td>2</td><td></td><td>3</td><td></td><td>20</td><td>4</td><td>11</td><td>26</td><td>_</td><td>0</td><td>2</td><td>11</td><td>14</td></th<>	Alaska	_	0	2		3		20	4	11	26	_	0	2	11	14
Hawaii 0 1 0 3 11 0 0 Oregon 0 5 12 19 4 5 12 98 81 0 2 4 Washington 4 0 7 8 9 7 5 24 51 99 0 0 American Samoa 0 0 0 0 0 0 N 0 0 N C.N.M.I. 0 0 0 0 N 0 0 N C.N.M.I.	California	2	2	13	48	54	5	12	162	27	121	1	3	11	37	66
Washington 4 0 7 8 9 7 5 24 51 99 — 0 0 — American Samoa — 0 0 — — 0 0 — N 0 0 N C.N.M.I. — — — — — — — — — — — —	Hawaii Oregon	_	0	1	10	3		0	3		11	—	0	0		—
American Samoa — 0 0 — — 0 0 N 0 0 N C.N.M.I. — …	Washington	4	0	5	12	9	4 7	5	24	98 51	99	_	0	2 0	4	_
C.N.M.I	American Samoa		0	0	_	_	_	0	0	_	_	Ν	0	0	Ν	N
	C.N.M.I.	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Guam — 0 0 — — — 0 0 — — — 0 0 — — — 0 0 — — — 0 0 — — 0 0 — — 0 0 — 0 0 — 0 0 — 0 0 0 — 0	Guam	—	0	0	—	—	—	0	0	—		—	0	0		
ruento кісо — U I — — — U U — I — I З 19 US Virgin Islands — D D — — — D D — — N D O N	Puerto KICO	_	0	1	_		_	0	0		1	N	1	3 0	19 N	18

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

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

TABLE II. (Continued) Provisional cases of selected notifiable disease	, United States, weeks ending May	15, 2010, and May 16, 2009 (19th week)*
--	-----------------------------------	---

	Salmonellosis					Shig	a toxin-pı	oducing <i>l</i>	E. coli (STEC	Shigellosis					
	Current	Previous	52 weeks	Cum	Cum	Current	Previous	52 weeks	Cum	Cum	Current	Previous 5	52 weeks	Cum	Cum
Reporting area	week	Med	Max	2010	2009	week	Med	Max	2010	2009	week	Med	Max	2010	2009
United States	488	973	1,515	8,949	12,392	49	88	173	757	1,126	173	280	500	4,032	5,675
New England	1	25	125	237	1,033	_	2	30	24	113	_	3	28	25	110
Connecticut Maine [§]	_	0	120	120	430 38	_	0	10 3	10 3	67	_	0	14	14	43
Massachusetts	_	17	47		350	_	1	6		24	_	2	27		53
New Hampshire	_	3	9	47	149	_	1	3	9	12	_	0	5	3	2
Rhode Island ³ Vermont [§]		2	11	33 15	47 19	_	0	26 3	2	5	_	0	/	4	3
Mid. Atlantic	58	91	208	1,206	1,418	1	7	24	95	124	9	41	90	554	1,122
New Jersey		18	47	155	293	—	1	5	5	40		6	23	78	304
New York (Upstate)	36	24	78	320	317	_	3	17	43	29	1	4	19 15	59	61 177
Pennsylvania	16	29	67	423	481	1	2	8	38	31	8	23	63	321	580
E.N. Central	45	78	167	950	1,581	2	10	30	88	199	12	30	233	668	1,158
Illinois	_	25	52	311	460	_	2	6	9	68	_	9	227	496	274
Indiana Michigan	2	10	30 34	36 205	144 328	1	1	10	32	22	2	1	5 10	62	31 103
Ohio	43	23	52	364	439	1	3	11	32	32	10	9	46	91	581
Wisconsin		11	30	34	210	—	2	11	6	46	—	4	23	12	169
W.N. Central	59	45	87	614	890	33	10	40	137	133	57	42	88	965	232
lowa Kansas	35	/ 7	16 20	88 95	129	_	2	14	19	32 16	5	0	5 14	15 77	38 74
Minnesota	32	10	31	177	201	7	2	17	31	31	_	1	6	14	23
Missouri	18	13	29	188	152	26	2	10	63	30	49	34	75	849	84
Nebraska ³ North Dakota		4	12	51	166	_	0	6	13	20	3	0	3	10	10
South Dakota	_	1	10	7	131	_	0	13	1	3	_	0	2	_	2
S. Atlantic	148	286	503	2,568	2,744	3	13	22	143	199	23	40	73	576	840
Delaware District of Columbia	_	3	9	27	19	_	0	2	1	5	_	3	10	30	18
Florida	100	132	277	1,249	1,173	2	3	7	58	58	13	10	18	222	154
Georgia	16	42	105	383	458	_	1	4	16	18	6	12	23	203	219
Maryland ⁹ North Carolina	16	14 34	32	214	227	_	1	6	19	26 45	1	4	17	34	143
South Carolina [§]	5	16	66	171	205	_	0	3	2	8	_	1	6	25	61
Virginia [§]	11	20	68	217	233	1	3	13	38	31	3	3	15	37	68
West Virginia		4	23	58	50		0	5	3	7		0	2	175	5
E.S. Central Alabama [§]	16	14	40	403	832 216		4	10	43	08 10	14	12	47	1/5	339 70
Kentucky	7	7	18	103	137	2	1	4	4	19	13	3	25	77	72
Mississippi		25	87	61	302	1	0	1	6	12	1	1	8	9	22
Tennessee ³	42	14	53	160	1//	1	1	52	22	2/	22	5	16	626	1/5
Arkansas [§]	42	10	25	54	1,195	_	0	4	5	/3		40	105	12	1,094
Louisiana	_	22	46	160	234	_	0	3	4	11	_	2	7	36	87
Oklahoma Toxas [§]	16	10	30	105	154	1	0	12	1	6	10	6	19	111	68 021
Mountain	20	51	133	659	905	1	8	26	20 84	116	6	15	48	171	368
Arizona		18	50	224	318	_	1	4	18	13	1	11	42	90	250
Colorado	18	11	33	193	188	_	2	11	16	58	2	2	6	28	31
ldaho ^s Montana [§]	1	3	10	40 31	55 45	1	1	7	12	8	1	0	1	5 4	1
Nevada [§]	5	4	13	60	87	_	0	4	7	6	2	1	7	11	28
New Mexico [§]		5	26	70	88	—	1	3	10	13	—	1	9	29	37
Utan Wyoming [§]	_	5	9	27	102	_	0	2	6	12	_	0	4	4	10
Pacific	94	122	300	1,448	1,796	5	9	46	107	101	20	21	64	272	412
Alaska	_	1	7	25	19	_	0	0	_	_	_	0	2	_	1
California	71	92	227	1,054	1,363	2	5	35	57	64	13	16	51	226	320
Oregon	1	4	43	205	138	_	1	2 11	10	3 9	_	1	4	22	22
Washington	22	14	61	164	193	3	3	19	40	25	7	2	9	24	60
American Samoa	_	1	1	1	_	_	0	0	_	_	_	1	1	1	3
C.N.M.I.	_			_	_	_			_	_	—	_	_	_	_
Puerto Rico	_	8	39	67	182	_	0	0	_	_	_	0	1	_	5
U.S. Virgin Islands	_	0	0	_	_	_	0	0	_	_	_	0	0	_	_

C.N.M.I.: Commonwealth of Northern Mariana Islands. U: Unavailable. —: No reported cases. N: Not reportable. NN: Not Nationally Notifiable. Cum: Cumulative year-to-date counts. Med: Median. Max: Maximum. * Incidence data for reporting years 2009 and 2010 are provisional. † Includes *E. coli* 0157:H7; Shiga toxin-positive, serogroup non-O157; and Shiga toxin-positive, not serogrouped. § Contains data reported through the National Electronic Disease Surveillance System (NEDSS).

				Spot	ted Fever Rickett	siosis (including RN	1SF) [†]			
			Confirmed					Probable		
Dentification	Current	Previous	52 weeks	Cum	Cum	Current	Previous	52 weeks	Cum	Cum
Reporting area	week	Med	Max	2010	2009	week	Med	Max	2010	2009
United States	1	2	12	15	26	9	11	317	104	272
New England	—	0	1	—	—	—	0	1	1	4
Connecticut Maino [§]	—	0	0	—	—	—	0	0	1	
Massachusetts	_	0	1	_	_	_	0	1	_	5
New Hampshire	_	Ő	ò	_	_	_	Ő	1	_	_
Rhode Island [§]	_	0	0	_	_	—	0	0	_	_
Vermont ⁹	—	0	1	—	—	—	0	0	_	—
Mid. Atlantic	—	0	2	3	—	1	1	7	11	24
New York (Lipstate)	_	0	1	_	_	1	0	4	2	18
New York City	_	0	1	_	_	_	0	2	7	2
Pennsylvania	—	0	2	3	—	—	0	2	2	3
E.N. Central	_	0	2	_	3	_	0	7	_	16
Illinois	—	0	1	_	_	—	0	6	_	9
Indiana Michigan		0	2	_	2	_	0	2	_	1
Ohio	_	0	0	_	_	_	0	4	_	6
Wisconsin	_	0	1	_	_	—	0	1	_	_
W.N. Central	_	0	3	1	2	5	2	23	19	29
lowa	_	0	1	_	_	_	0	1	_	1
Kansas	—	0	1	_	—	—	0	0	_	_
Minnesota Missouri	_	0	1	1	_	5	2	22	19	28
Nebraska§	_	Ő	2	_	2	_	0	1	_	
North Dakota	—	0	0	—	—	—	0	0	_	—
South Dakota	—	0	0	—	—	—	0	0	—	—
S. Atlantic	1	1	7	8	16	2	4	31	46	119
Delaware District of Columbia	_	0	0		_	_	0	3 1	4	3
Florida	1	Ő	1	1	_	_	Ő	1	2	1
Georgia	—	0	6	5	14	—	0	0		
Maryland ⁹	—	0	1	1	1	—	0	3	3	17
South Carolina [§]	_	0	2		1	_	2	25	27	12
Virginia [§]	_	Ő	1	_	_	2	0	5	8	17
West Virginia	—	0	0	—	—	—	0	1	_	—
E.S. Central	—	0	2	2	1	1	3	16	21	58
Alabama ^s	—	0	1	1	—	—	1	7	3	9
Mississippi	_	0	0		1	_	0	4	1	2
Tennessee§	_	0	2	1	_	1	2	14	17	47
W.S. Central	_	0	3	1	_	_	1	309	6	15
Arkansas [§]	_	0	0	_	_	—	0	48	_	2
Louisiana	—	0	0	—	—	—	0	1		1
Texas [§]	_	0	1	1	_	_	0	11	4	10
Mountain	_	0	2	_	3	_	0	3	_	7
Arizona	_	0	2	_	1	_	0	2	_	2
Colorado	—	0	1	—	—	—	0	0		—
Idaho ³ Montana [§]	_	0	0	_		_	0	1	_	
Nevada [§]	_	0	0	_		_	0	1	_	_
New Mexico [§]	—	0	0	—	—	—	0	0	—	1
Utah Wummin n [§]	_	0	0	_	_	—	0	0	_	1
wyoming ⁹	_	0	1	_	_	—	0	1	_	_
Alaska	_	0	1	_	1	_	0	0	_	_
California	_	0	1	_	1	_	0	0	_	_
Hawaii	—	0	0	—	—	—	0	0		—
Oregon	—	0	0	—	—	—	0	0		—
washington	—	0	0	_	—	—	0	0	_	—
American Samoa		0	0			_	0	0	-	_
Guam	_	0	0	_		_	0	0	_	_
Puerto Rico	_	0	0	_	_	_	0	0	_	_
U.S. Virgin Islands	_	0	0	_	_	—	0	0	_	_

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending May 15, 2010, and May 16, 2009 (19th week)*

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

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

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

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

MMWR Morbidity and Mortality Weekly Report

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending May 15, 2010, and May 16, 2009 (19th week)*

			2	Streptococ	cus pneumo	<i>nia</i> e,† invasi	ive disease	5								
			All ages					Age <5			Syphilis, primary and secondary					
	Current	Previous	52 weeks	Cum	Cum	Current	Previous	52 weeks	Cum	Cum	Curront	Previous 5	52 weeks	Cum	Cum	
Reporting area	week	Med	Max	2010	2009	week	Med	Max	2010	2009	week	Med	Max	2010	2009	
United States	195	60	424	6,226	1,558	24	48	158	1,001	1,126	63	238	414	3,535	5,089	
New England	3	2	97	321	27	_	1	23	25	34	5	6	22	149	125	
Connecticut		0	94	139		_	0	22	14	_		1	10	27	26	
Maine ⁹ Massachusotts	3	1	6	51	7	_	0	2	5		1	0	3	14	1	
New Hampshire	_	0	7	54	_	_	0	2	3	5		0	1	5	9	
Rhode Island [§]	_	0	7	40	11	—	0	1	2	1	1	0	5	11	4	
Vermont ⁹		0	6	37	8	_	0	1	1	2	-	0	2	2		
Mid. Atlantic	19	5	44	438	89	6	6 1	52	125	134	26	33 1	4/	613 83	692	
New York (Upstate)	7	2	12	84	37	5	2	19	60	65	5	2	11	35	39	
New York City	4	0	15	92	3	—	1	28	17	38	16	18	39	368	428	
Pennsylvania	8	2	21	222	49	1	0	5	25	7	2	7	14	127	130	
E.N. Central	9	13	75	873	349	2	8	18	157	184	1	26	43	230	510	
Illinois	_	0	7	43	142	_	1	5	37	29	_	13	20	7	249	
Michigan	2	1	20	306	142	_	1	6	39	30	_	3	13	73	88	
Ohio	7	8	19	206	191	2	2	6	46	68	1	7	13	114	87	
Wisconsin	—	0	20	91	_	_	0	2	9	19	_	0	2	_	23	
W.N. Central	54	4	182	449	99	8	3	12	84	88	_	5	12	71	117	
lowa	1	0	0			_	0	0			_	0	2	2	10	
Kansas Minnesota	46	0	179	53 257	40	6	0	10	10 41	13	_	0	3 4	4	32	
Missouri	5	1	8	58	33	2	0	3	24	31	_	3	8	49	61	
Nebraska [§]	2	0	7	61	—	—	0	2	8	3	_	0	2	3	5	
North Dakota	—	0	10	16	6	—	0	1		4	—	0	1	_	2	
South Dakota		0	142	4	2		0	2	1	8	10	0	0		1 1	
S. Atlantic	4/	28	142	1,071	10	Z	12	2/	273	283	10	59	218	921	1,100	
District of Columbia		0	3	15		_	0	1	4	_	_	3	8	41	68	
Florida	29	16	89	806	420	1	4	18	102	106	1	18	31	319	427	
Georgia	5	8	28	259	201	_	4	12	75	69	6	13	167	135	208	
Maryland ⁹	8	0	25	229	4	1	1	7	30	44	1	6	12	95 171	103	
South Carolina [§]	3	0	25	265	_	_	1	4	28	26	4	9	6	48	44	
Virginia§	_	Ő	4	26	_	_	1	4	24	27	4	5	22	109	113	
West Virginia	—	1	21	54	60	—	0	4	10	11	—	0	2	—	4	
E.S. Central	11	5	50	583	168	1	3	9	55	74	—	19	40	262	444	
Alabama ^s	_	0	0			_	0	0	_		—	6	18	88	181	
Kentucky Mississioni	_	1	15	70 28	46	_	0	2	5	15	_	ן ז	13	29	22 74	
Tennessee§	11	2	44	485	95	1	2	7	45	52	_	7	15	109	167	
W.S. Central	23	4	88	842	61	1	6	39	136	152	8	45	75	561	1,028	
Arkansas [§]	_	1	8	63	30	_	0	4	9	19	8	6	16	91	58	
Louisiana	_	1	8	38	31	—	0	3	12	15	—	8	27	64	328	
Uklanoma Texas [§]	23	0	5 81	29 712	_	1	1	5 34	29 86	26 92	_	20	6 46	387	36 606	
Mountain	25	3	82	922	68	4	5	12	129	161	3	9	18	101	199	
Arizona	10	0	51	446		1	2	7	57	72	_	3	10	20	97	
Colorado	14	0	20	270	_	2	1	4	36	25	_	2	5	41	36	
Idaho [§]	1	0	1	6	—	1	0	2	3	4	—	0	1	2	2	
Montana ⁹	_	0	1	8		_	0	0		6		0	1	20		
New Mexico [§]	1	0	8	79		_	0	4	12	19		1	4	50	19	
Utah	_	1	9	71	34	_	1	4	15	34	_	0	2	1	8	
Wyoming [§]	—	0	2	8	7	—	0	1	2	1	—	0	1	—	_	
Pacific	3	0	14	127	2	_	0	7	17	16	4	40	59	627	808	
Alaska		0	9	54	—	—	0	5	14	9		0	0			
California Hawaii	3	0	12	/3	2	_	0	2	3		3	35	54 3	545 11	16	
Oregon	_	0	0	_		_	0	0	_	_	_	1	5	6	16	
Washington	—	0	0	_	—	—	0	0	—	_	1	3	7	65	59	
American Samoa	—	0	0	—	—	—	0	0	—	_	—	0	0	_	—	
C.N.M.I.	—			_	—	—			—	—	—			_	_	
Puerto Rico	_	0	0	_	_	_	0	0	_	_	6	U 3	17	73		
U.S. Virgin Islands	_	0	0	_	_	_	0	0	_	_	_	0	0		_	

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

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

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending May 15, 2010, and May 16, 2009 (19th week)*

Verteelle (akieleen en)§							West Nile virus disease [†]									
		Varice	lla (chicker	npox) [§]			Nei	uroinvasive	e		Nonneuroinvasive [¶]					
	Current	Previous	52 weeks	Cum	Cum	Current	Previous !	52 weeks	Cum	Cum	Current	Previous 5	52 weeks	Cum	Cum	
Reporting area	week	Med	Max	2010	2009	week	Med	Max	2010	2009	week	Med	Max	2010	2009	
United States	181	311	747	5,854	10,846	—	1	46	2	3	—	0	49	—	2	
New England	5	17	39	260	449	_	0	0	_	_	—	0	0	_	—	
Connecticut Maine [§]	4	/	23 15	95 96	204	_	0	0	_	_	_	0	0	_	_	
Massachusetts		0	0		2	_	0	0	_	_	_	0	0	_	_	
New Hampshire	1	3	10	49	89	_	0	0	_	—	—	0	0	_	_	
Rhode Island [§]	_	0	3	8	4	_	0	0	_	_	_	0	0	_	_	
vermont ³	_	1	10	12	08		0	0	_	_	_	0	0	_	_	
Mid. Atlantic	14 N	23	56 7	411 N	807 N	_	0	2	_	_	_	0	1	_	_	
New York (Upstate)	N	0	0	N	N	_	0	1	_	_	_	0	1	_	_	
New York City	_	0	0	_	_	_	0	1	_	_	_	0	0	_	_	
Pennsylvania	14	23	56	411	807	—	0	0	—	—	—	0	0	—	_	
E.N. Central	70	108	206	2,248	3,519	—	0	4	_	_	—	0	3	—	—	
Illinois Indiana [§]	10	27	56	597	896	_	0	3	_	_	_	0	0	_	_	
Michigan	23	35	84	735	983	_	0	1	_	_	_	0	0	_	_	
Ohio	33	28	69	632	1,133	_	Ő	0	_	_	_	0	2	_	_	
Wisconsin	_	7	57	69	260	_	0	1	—	—	—	0	0	—	—	
W.N. Central	6	12	40	235	787	_	0	5	_	_	_	0	11	_	_	
lowa	N	0	0	N	N		0	0	—	—	—	0	1	_	_	
Kansas ^s Minnosota	3	5	18	82	350	_	0	1	_	_	_	0	2	_	_	
Minnesota Missouri	3	6	24	128	360	_	0	2	_	_	_	0	1	_	_	
Nebraska§	Ň	Ő	0	N	N	_	Ő	2	_	_	_	Ő	6	_	_	
North Dakota	_	0	26	23	38	—	0	0	_	—	—	0	1	—	_	
South Dakota	_	0	7	2	39		0	3	_	_	—	0	2	_	_	
S. Atlantic	54	33	123	892	1,393		0	4	—	—	—	0	2	_	_	
Delaware ³	_	0	3 4	10	2	_	0	1	_	_	_	0	0	_	_	
Florida [§]	30	15	54	476	699	_	0	1	_	_	_	0	1	_	_	
Georgia	Ν	0	0	Ν	Ν	_	0	1	—	—	—	0	0	—	_	
Maryland [§]	N	0	0	N	N	_	0	0	_	_	_	0	1	_	_	
North Carolina	N	0	24	N 65	N 154	_	0	0	_	_	_	0	0	_	_	
Virginia [§]	14	9	65	147	309	_	0	2	_	_	_	0	0	_	_	
West Virginia	8	8	26	188	209	_	0	0	_	_	_	0	0	_	_	
E.S. Central	5	6	30	113	318	_	0	6	2	_	_	0	4	_	_	
Alabama§	5	6	27	112	312	_	0	0	_	_	_	0	0	_	_	
Kentucky	N	0	0	N 1	N		0	1		_	—	0	0	_	_	
Tennessee [§]	N	0	0	N N	N	_	0	2		_	_	0	4	_	_	
W.S. Central	24	75	285	1 1 9 8	2 3 9 1	_	0	19	_	2	_	0	6	_		
Arkansas [§]	24 —	5	50	69	2,351	_	0	1	_	1	_	0	0	_	_	
Louisiana		2	8	20	54	—	0	2	_	—	—	0	4	—	_	
Oklahoma Toyoo§	N 24	0	0	N	N 2.096		0	2	_	1	—	0	2	_	_	
Texas	24	20	272	1,109	2,000	_	0	10	_	I	_	0	4	_		
Arizona	3	26	69 0	482	1,121	_	0	12	_	_	_	0	1/	_		
Colorado [§]	_	11	41	193	585	_	Ő	7	_	_	_	0	14	_	_	
Idaho [§]	Ν	0	0	Ν	N	_	0	3	_	—	—	0	5	_	_	
Montana ^s	1	2	19	87	120	_	0	1	—	—	—	0	1	—	_	
Nevada ³	2	1	7	IN 45	IN 78	_	0	2	_	_	_	0	1	_	_	
Utah		6	22	148	338	_	0	1	_	_	_	0	0	_	1	
Wyoming [§]	_	0	3	9	_	_	0	1	_	_	_	0	2	_	1	
Pacific	_	1	5	15	61	_	0	12	_	1	_	0	12	_	_	
Alaska	—	0	4	15	34		0	0	—	_	—	0	0	_	_	
California	_	0	0	_		—	0	8	—	1	_	0	6	—	—	
Oregon	N	0	0	N	27 N	_	0	1	_	_	_	0	0 4	_	_	
Washington	N	0	Ő	N	N	_	Ő	6	_	_	_	Ő	3	_	_	
American Samoa	Ν	0	0	Ν	Ν	_	0	0	_	_		0	0	_	_	
C.N.M.I.	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	
Guam	_	0	2	4	_	_	0	0	_	_	—	0	0	_	_	
Puerto Rico	—	6	30	101	238	—	0	0	—	—	—	0	0	—	—	
U.S. Virgin Islands	_	0	0		_	—	0	0	_	_	_	0	0	_	_	

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

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

Incidence data for reporting years 2009 and 2010 are provisional. Data for HIV/AIDs, AiDS, And 1B, when available, are displayed in Table IV, which appears quarteriy.
 [†] Updated weekly from reports to the Division of Vector-Borne Infectious Diseases, National Center for Zoonotic, Vector-Borne, and Enteric Diseases (ArboNET Surveillance). Data for California serogroup, eastern equine, Powassan, St. Louis, and western equine diseases are available in Table I.
 [§] Contains data reported through the National Electronic Disease Surveillance System (NEDSS).
 [§] Not reportable in all states. Data from states where the condition is not reportable are excluded from this table, except starting in 2007 for the domestic arboviral diseases and influenza-

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

TABLE III. Deaths in 122 U.S. cities,* week ending May 15, 2010 (19th week)

All All <th></th> <th></th> <th>All ca</th> <th>uses, by a</th> <th>ge (years)</th> <th>)</th> <th></th> <th colspan="6">All causes, by age (yea</th> <th colspan="6">s, by age (years)</th>			All ca	uses, by a	ge (years))		All causes, by age (yea						s, by age (years)					
Internet Spin Spin M Spin M Altanic Labora Mathematic Labora	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			
Baston, MA 110 74 24 7 2 3 14 Altanta, GA 165 110 77 12 5 1 11 Dellagepert, TA 13 14 3 - - - 3 10 Baltmace MP 146 80 36 13 14 3 12 Fall Brew, MA 18 16 1 - - - 3 10 Mam, R. 94 71 18 3 2 4 1 - 1 0 Decksomelle R. 10 14 1 - 1 0 Decksomelle R. 10 14 1 - - 3 Tamp, R. 14 14 1 2 3 1 2 3 10 3 11 2 3 11 2 3 10 3 11 2 3 11 2 3 11 11 30 30 3	New England	515	364	101	37	4	9	59	S. Atlantic	1,262	830	294	81	33	24	106			
Bridgeport, CT. 24 17 4 3 3 Cambridge, MA. 19 9 4 1 3 Cambridge, MA. 19 9 4 1 - 1 3 Cambridge, MA. 19 18 16 1 1 3 Cambridge, MA. 20 16 4 1 Lynn, MA. 20 16 4 1 Symmetrike, MA. 21 18 4 1 12 1 Lynn, MA. 20 16 4 1 Symmetrike, MA. 21 18 4 1 12 1 Lynn, MA. 21 16 4 1 Norde, MA. 57 37 13 4 1 2 1 Symmetrike, MB. 1 1 Norde, MA. 68 1 8 10 3 1 Symmetrike, MB. 1 1 Norde, MA. 68 1 8 10 3 1 Norde, MA. 1 1 Norde, MA. 68 1 8 10 3 1 Norde, MA. 1 1 Norde, MA. 68 1 8 10 3 1 1 Symmetrike, MB. 1 1 Norde, MB. 7 12 1 4 3 3 3 1 Symmetrike, MB. 1 1 Norde, MB. 1 1 Norde, MB. 7 14 19 2 16 15 5 1 1 5 March, MA. 19 2 16 15 5 1 1 - 1 2 March, MA. 19 2 16 15 5 1 1 - 1 4 March, MA. 19 2 16 15 3 - 1 1 3 March, MA. 19 2 16 15 3 - 1 1 1 March, MA. 19 2 16 15 3 - 1 1 1 March, MA. 19 2 16 15 3 1 1 Alternow, PA. 30 20 8 12 1 1 ELS. Central, 1 - 1 4 4 Krowelle, M. 11 7 3 1 1 1 March, M. 11 7 3 1 1 1 March, M. 11 7 2 3 1 1 2 Norde, MB. M. 11 7 2 3 1 1 2 Norde, MB. M. 11 7 2 3 1 1 1 March, M. 11 7 2 3 1 1 2 Norde, MB. M. 11 7 2 3 1 1 2 Norde, MB. M. 11 7 7 3 1 1 2 Norde, MB. M. 11 7 7 3 - 1 1 4 10 Data 1 2 1 Elsolete, NJ 11 7 7 32 7 10 16 4 1 2 1 Elsolete, NJ 11 8 1 0 1 March, M. 11 7 7 3 1 1 3 1 0 1 March, M. 11 7 7 3 1 1 0 1 March, M. 11 7 7 3 1 1 0 1 Norde, MB. 12 7 9 38 11 0 1 Norde, MB. 12 7 9 38 12 0 1 1 0 1 Norde, MB. 12 7 9 38 12 0 1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Boston, MA	110	74	24	7	2	3	14	Atlanta, GA	165	110	37	12	5	1	11			
Cambridge MA 10 9 9 1 2 Charlotte NC 116 71 25 15 4 4 1 10 10 10 9 11 25 15 4 4 1 15 11 10 116 116 116 117 117 117 115 116 116 116 117 117 115 116 116 117 117 115 116 116 117 117 115 116 116 117 117 117 115 116 116 117 117 117 115 116 116 117 117 117 117 116 116 117 117	Bridgeport, CT	24	17	4	3	—	—	3	Baltimore, MD	146	80	46	13	4	3	21			
Fall Berry, MA 19 16 3 5 Markarbar, CT 54 12 12 7 10 Mark, FL 191 13 1 4 3 2 - 1 1 Lyn, MA 20 16 4 2 Mark, FL 191 14 4 3 4 2 - 1 3 Warkender, MA 27 22 0 5 1 1 - 3 St. Petersburg, FL 60 40 12 3 3 - 2 7 New Hender, MA 27 22 0 5 1 1 - 3 St. Petersburg, FL 60 40 12 3 3 - 2 7 New Hender, MA 27 11 16 4 5 St. Petersburg, FL 60 40 12 3 3 - 2 7 New Hender, MA 27 22 10 5 1 1 - 3 St. Petersburg, FL 60 40 12 3 3 - 2 7 New Hender, MA 27 22 1 - 2 3 - 1 1 - 3 Warshow, CC 22 1 - 2 3 - 7 7 10 Warshow, CL 22 1 2 3 Warshow, CL 22 1 2 3 - 1 1 - 5 Warshow, CL 22 1 2 3 - 1 1 - 5 Warshow, CL 22 1 2 3 - 1 1 - 3 Mark Atlantic 128 - 1 1 - 4 Mark Atlantic 128 - 1 1 - 4 Mark Atlantic 128 - 1 1 - 4 Mark Atlantic 128 - 1 - 1 - 1 - 4 Mark Atlantic 128 - 1 - 1 - 1 - 4 Mark Atlantic 128 - 1 - 1 - 1 - 4 Mark Atlantic 128 - 1 - 1 - 1 - 4 Mark Atlantic 128 - 1 - 1 - 1 - 4 Mark Atlantic 128 - 1 - 1 - 1 - 4 Mark Atlantic 128 - 1 - 1 - 1 Mark Mark Atlantic 128 - 1 - 1 - 1 - 4 Mark Atlantic 128 - 1 - 1 - 1 - 4 Mark Atlantic 128 - 1 - 1 - 1 - 4 Mark Atlantic 128 - 1 - 1 - 1 - 4 Mark Atlantic 128 - 1 - 1 - 1 - 4 Mark Mark Atlantic 128 - 1 - 1 - 1 - 4 Mark Mark Atlantic 128 - 1 - 1 - 1 - 4 Mark Mark Atlantic 128 - 1 - 1 - 1 - 4 Mark Mark Atlantic 128 - 1 1 - 4 Mark Mark Atlantic 138	Cambridge, MA	10	9	1	—	—	—	2	Charlotte, NC	116	71	25	15	4	1	10			
Hardmark CT 3-6 3 4 32 12 7 3 100 Main, Lo 44 97 118 4 1 - 5 Main, Lo Main, Lo 44 7 18 4 1 - 5 Main, Lo Main, Lo 44 7 18 4 1 - 5 Main, Lo 44 7 18 1 - 5 Main, Lo 44 7 12 1 1 Savannah, CA 70 82 14 4 5 Savannah, CA 70 82 14 4 5 Savannah, CA 70 82 14 4 5 Savannah, CA 70 84 7 21 12 3 3 2 7 Tampa, FL 214 14 5 2 11 2 3 3 19 Savannah, CA 70 84 7 21 1 2 3 3 19 Savannah, CA 70 84 7 21 1 2 3 3 19 Savannah, CA 70 84 7 21 1 2 3 19 Savannah, CA 70 84 7 21 1 1 2 3 19 Savannah, CA 70 84 7 21 1 1 2 3 19 Savannah, CA 70 19 15 5 1 - 1 1 2 Savannah, CA 70 19 15 5 1 - 1 1 5 Savannah, CA 70 19 15 5 1 - 1 1 5 Savannah, CA 70 19 15 5 1 - 1 1 5 Savannah, CA 70 19 15 5 1 - 1 1 5 Savannah, CA 70 19 15 5 1 - 1 1 5 Savannah, CA 70 19 15 5 1 - 1 1 5 Savannah, CA 70 19 19 10 1 2 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Fall River, MA	19	16	3	_	—	_	5	Jacksonville, FL	191	140	36	9	5	1	13			
Lowel, MA Lowel,	Hartford, CT	54	32	12	7	—	3	10	Miami, FL	94	71	18	4	1	_	5			
$ \begin{array}{c} \mbox{trans} tran$	Lowell, MA	18	16	1	1	_	_	2	Norfolk, VA	58	31	18	3	2	4	1			
New Texnol, Clim 27 50 5 1 -	Lynn, MA	20	16	4		_	_	1	Richmond, VA	5/	5/	13	4	I	2	1			
$ \begin{array}{c} \mbox dense, \mbox dens$	New Bearord, MA	27	21	4	2	_	1	3	Savannan, GA	70	52	14	4	~ ~	2	с 7			
$ \begin{array}{c} \text{converview} \begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	Providence RI	65	20 48	10	6	1	_	3	Tampa Fl	214	146	52	11	2	2	19			
Springfield, MA 52 31 15 5 - 1 5 - 1 5 - 1 5 - 1 5 - 1 5 - 1 5 - 1 5 - 1 5 2 1 - 2 2 5 1 8 33 4 4 1 1 1 4 1 7 3 9 7 1 - 1	Somerville MA	1	-10		_	_	_	_	Washington DC	82	45	22	3	5	7	10			
$ \begin{array}{c} \hline \\ \mbox{rester}, M \\ \mbox{rester}, M \\ \mbox{rester}, M \\ \mbox{rester}, M \\ \mbox{schematrix}, M \\ \mb$	Springfield, MA	52	31	15	5	_	1	5	Wilmington, DF	9		1	_	1	_	3			
Worecaster, MA 61 44 13 3 - 1 9 Filt of the state of t	Waterbury, CT	27	19	5	2	1	_	2	E.S. Central	773	479	216	55	15	8	53			
Mid. Ablami,	Worcester, MA	61	44	13	3	_	1	9	Birmingham, AL	151	98	43	4	4	2	12			
Albany, NY 39 33 4 - 1 1 4 Knowlie, TV 99 69 69 25 5 - - 1 Buffalo, NY 73 46 21 2 3 1 3 Memphis, TN 153 22 23 1 1 1 Buffalo, NY 73 46 21 2 3 1 - - 1 Memphis, TN 153 92 40 18 3 2 1	Mid. Atlantic	1,836	1,247	421	107	37	23	87	Chattanooga, TN	58	38	16	3	1	_	5			
Allentown, PA 30 20 8 2 - - - 1 Lexington, KY 99 32 23 2 1 <t< td=""><td>Albany, NY</td><td>39</td><td>33</td><td>4</td><td>_</td><td>1</td><td>1</td><td>4</td><td>Knoxville, TN</td><td>99</td><td>69</td><td>25</td><td>5</td><td>_</td><td>_</td><td>10</td></t<>	Albany, NY	39	33	4	_	1	1	4	Knoxville, TN	99	69	25	5	_	_	10			
Butfielo, NY 73 466 21 2 3 1 3 Memphis, TN 155 92 40 18 3 2 12 Elizabeth, NJ 11 7 3 1 - - - - Mobile, AL 73 42 19 0 2 - 2 Elizabeth, NJ 11 7 3 1 - - - 2 Mobile, AL 73 42 19 2 2 - - 2 Mobile, AL 73 42 19 2 1 1 39 Austin, TX 190 20 11 8 Austin, TX 190 20 15 18 1 1 8 Battor finatory, AL 30 3 2 2 4 4 10 1 7 20 13 3 3 3 3 3 3 3 3 3 3 3 3 3 <th< td=""><td>Allentown, PA</td><td>30</td><td>20</td><td>8</td><td>2</td><td>_</td><td>_</td><td>1</td><td>Lexington, KY</td><td>59</td><td>32</td><td>23</td><td>2</td><td>1</td><td>1</td><td>1</td></th<>	Allentown, PA	30	20	8	2	_	_	1	Lexington, KY	59	32	23	2	1	1	1			
	Buffalo, NY	73	46	21	2	3	1	3	Memphis, TN	155	92	40	18	3	2	12			
Elizabeth, NJ 11 7 3 1 - - 1 Martgomery, AL 49 29 14 5 - 1 5 Jersey City, NJ 19 13 4 2 - - 2 Naskwille, TM 129 72 23 29 68 8 1 8 8 1 8 8 1 8 8 1 8 8 1 8 8 1 8 8 1 8 8 1 8 8 1 8 1 8 8 1 8 8 1 8 8 1 8 1 8 1 8 1 8 1 8 1 1 8 1 1 1 1 10 <td< td=""><td>Camden, NJ</td><td>17</td><td>12</td><td>4</td><td>—</td><td>1</td><td>_</td><td>—</td><td>Mobile, AL</td><td>73</td><td>42</td><td>19</td><td>10</td><td>2</td><td>—</td><td>2</td></td<>	Camden, NJ	17	12	4	—	1	_	—	Mobile, AL	73	42	19	10	2	—	2			
Eric, PA 41 29 8 - 3 1 2 Navirolic, TN 129 79 36 8 4 2 6 New York City, NY 986 660 220 53 11 11 39 Austin, TX 90 62 18 8 1 1 8 New York City, NY 986 660 220 53 11 14 10 Baton Rouge, LA 63 48 9 5 1 - - - Corpus Christi, TX 173 75 50 7 9 9 Phitadelphi, PA 26 12 9 4 1 - 2 El Paso, TX 172 10 0 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 11 10 <t< td=""><td>Elizabeth, NJ</td><td>11</td><td>7</td><td>3</td><td>1</td><td>_</td><td>—</td><td>1</td><td>Montgomery, AL</td><td>49</td><td>29</td><td>14</td><td>5</td><td>_</td><td>1</td><td>5</td></t<>	Elizabeth, NJ	11	7	3	1	_	—	1	Montgomery, AL	49	29	14	5	_	1	5			
Jersey City, NJ 19 13 4 2 2 W.S. Central 1, 17 754 291 72 31 29 68 New York City, NV 26 12 10 2 2 Baton Rouge, LA 63 48 9 5 1 Corpus Circisti, TX 59 38 1 1 8 1 Corpus Circisti, TX 59 38 12 5 3 1 5 Corpus Circisti, TX 17 9 9 9 9 2 4 4 1 Corpus Circisti, TX 10 0	Erie, PA	41	29	8	_	3	1	2	Nashville, TN	129	79	36	8	4	2	6			
New York City, NY 986 690 220 53 11 11 39 Austin, TX 90 62 18 8 1 1 8 Paterson, NJ 26 13 6 5 2 - - Baton Rouge, LA 63 48 9 5 1 - - - Baton Rouge, LA 63 48 9 5 1 - - - Groups Christ, TX 59 38 12 5 3 1 - - - 3 Fort Work, TX U	Jersey City, NJ	19	13	4	2	—	—	2	W.S. Central	1,177	754	291	72	31	29	68			
Newark, NJ 26 12 10 2 2 - <	New York City, NY	986	690	220	53	11	11	39	Austin, TX	90	62	18	8	1	1	8			
Paterson, NJ 26 13 6 5 2 2 - 1 Corpus Christi, K 59 38 12 5 3 1 5 Philadelphi, PA 24 135 76 21 11 4 10 Dallas, TX 173 97 50 10 7 9 9 Pritsburgh, PA 28 23 3 2 3 FortWorth, TX 120 89 20 5 2 4 4 Reading, PA 28 4 62 16 2 1 3 8 Houston, TX 172 105 45 12 4 6 14 Schenectady, NV 21 16 4 1 1 Little Rock, AR 70 39 24 3 1 3 3 Scranton, PA 22 14 5 3 2 Syracuse, NY 82 64 11 5 1 1 7 San Antonio, TX 234 142 66 18 5 3 13 Trenton, NU 28 18 7 2 - 1 1 - Shreveport, LA 73 49 20 1 3 - 3 Streveport, LA 73 49 20 1 3 - 3 Streveport, LA 73 49 20 1 3 - 3 Streveport, LA 73 49 20 1 3 - 3 Little, NY 11 10 1 1 2 Tulso, OK 123 85 27 5 4 2 9 Yonkers, NY 19 18 1 1 3 Colrado Springs, CO 88 49 27 8 3 1 8 Akron, OH 37 30 7 3 Colrado Springs, CO 88 49 27 8 3 1 8 Akron, OH 37 30 7 3 Clando Springs, CO 88 49 27 8 3 1 8 Paterson, OH 37 30 7 3 Colrado Springs, CO 88 49 27 6 13 5 2 1 1 Charago, IL 28 18 7 2 2 15 0 Qden, UT 30 27 1 9 18 70 Carado Springs, CO 88 49 27 6 13 5 2 1 1 Charado, SI 3 4 13 1 2 3 4 Boise, ID 200 88 6 1 9 Derver, CO 88 49 22 6 2 2 8 Akron, OH 37 30 7 3 Colrado Springs, CO 88 49 22 6 2 7 8 1 1 Charado, IL 28 16 7 1 28 6 1 9 Derver, CO 88 49 22 6 2 7 8 1 1 Charado, SI 3 4 13 1 2 2 10 Charado, SI 3 4 13 2 2 10 Charado, SI 3 4 13 2 2 15 0 Qden, UT 30 27 5 1 4 2 19 Clausing, OH 194 140 36 8 6 4 1 18 Phoenix, AZ 113 82 24 10 43 4 2 19 Clausing, OH 194 140 36 8 6 4 18 Phoenix, AZ 113 82 24 10 4 12 1 1 Darton, OH 194 140 36 8 6 14 18 Phoenix, AZ 113 82 24 14 1 1 Earwordle, IN 13 81 10 2 - 2 4 Freeno, CA 140 25 154 85 44 1 7 2 5 14 Darton, OH 194 140 36 18 6 14 18 Phoenix, AZ 113 82 24 14 1 1 Earwordle, IN 29 7 51 14 4 1 1 Earwordle, IN 29 7 51 14 4 1 1 Earwordle, IN 39 17 9 7 1 1 2 - 2 5 South Bandi, MI 43 94 82 1 Lawarden, CA 140 29 8 3 3 - 9 Tadadon, CA 140 12 2 2 South Band, MI 35 99 8 1 2 San Diego, CA 151 107 29 8 2 4 10 Dervind, IN 34 11 1 1 Earwordle, A 14 12 2 2 San Diego, CA 151	Newark, NJ	26	12	10	2	2	_	_	Baton Rouge, LA	63	48	9	5	1	_	_			
Philadephile, PA 247 135 7.6 21 11 4 10 Datas, IX 173 97 50 10 7 9 9 Pritsburgh, PA 28 23 3 2 - - 3 Baso, TX 120 89 20 5 2 4 4 Reading, PA 28 23 3 2 - - 3 Baso, TX 120 85 22 4 4 Schenetzdy, NY 21 16 4 1 - - 1 Nov Orleans, LA U	Paterson, NJ	26	13	6	5	2	_	1	Corpus Christi, IX	59	38	12	5	3	1	5			
Prittsburgin, Pro- Reading, PA 26 12 9 4 1 — 2 EPPaso, IA 120 89 20 5 2 4 4 Reading, PA 28 28 23 3 2 — — 3 Bornov File 10 U	Philadelphia, PA	247	135	/6	21	11	4	10	Dallas, IX	1/3	97	50	10	/	9	9			
neading, PA 20 23 3 2 - - 3 Foll, Wint, A 0<	Pittsburgh, PA ³	26	12	9	4	I	_	2	El Paso, TX	120	89	20	5	2	4	4			
$ \begin{array}{c} \mbox{resch}, \mbox{n}, \mbox{h}, \mbox{n}, \mbox{h}, \mbox{n}, \mbo$	Reduilig, PA Pochostor NV	20	25 62	5 16	2	1	2	2	Houston TY	172	105	15	12	0	6	14			
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Schenectady NV	04 21	02 16	10	2	_	2	0	Little Rock AR	70	30	45	12	4	3	14			
Syracuse, NY8264115117San Antonio, TX23414266185313Trenton, NU281872-12Sineweport, LA73492013-3Yonkers, NY191811Mountain1,04169623077191870EN. Central1,861,27734234Abron, OH5334131234Boise, ID4438424Chicago, IL2821767128619Derver, CO8249236228Cincinnati, OH25618455132215Ogden, UT302252-11Colurado Springs, CH13810333492252-11Detroit, MUU <td>Scranton PA</td> <td>21</td> <td>14</td> <td>5</td> <td>3</td> <td>_</td> <td>_</td> <td>_</td> <td>New Orleans LA</td> <td>10</td> <td>1</td> <td>24</td> <td>U U</td> <td>ů.</td> <td>U U</td> <td>U U</td>	Scranton PA	21	14	5	3	_	_	_	New Orleans LA	10	1	24	U U	ů.	U U	U U			
Trenton, NU 28 18 0 7 2 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 2 1 2 2 2 1 2 2 2 1 2 2 2 1 2 2 2 1 2 2 2 1 2 2 2 2 1 2 2 2 1 2 2 2 2 1 2 2 2 2 2 1 2 2 2 2 2 1 2 2 2 2 2 2 1 2 2 2 2 2 2 2 1 2	Svracuse, NY	82	64	11	5	1	1	7	San Antonio, TX	234	142	66	18	5	3	13			
Utica, NY 11 10 1 2 Turkers, NY 123 85 27 5 4 2 9 Yonkers, NY 19 18 1 1 Mountain 1,041 669 230 77 19 18 70 EM. Central 1,886 1,279 432 100 45 30 134 Albouquerque, NM 106 69 27 8 3 1 8 Carton, OH 53 34 13 1 2 3 4 9 Decore do Springs, CO 82 49 23 6 2 2 8 1 1 2 1 1 Colorado Springs, CO 82 49 23 6 2 2 8 4 17 2 5 1 1 1 1 1 1 1 1 1 1 18 1 14 9 1 1 1 1 1 1 1 1 1 1 1	Trenton, NJ	28	18	7	2	_	1	_	Shreveport, LA	73	49	20	1	3	_	3			
Yonkers, NY 19 18 1 1 Montain 1,041 696 230 77 19 18 70 E.N. Central 1,88 1,279 432 100 45 30 13 1 2 3 4 Albuquerque, NM 108 69 27 8 3 1 8 Canton, OH 37 30 7 3 Colorado Springs, CO 77 56 13 5 2 1 1 1 Colorado Springs, CO 77 56 13 5 2 1	Utica, NY	11	10	1	_	_	_	2	Tulsa, OK	123	85	27	5	4	2	9			
E.N. Central 1,886 1,279 432 100 45 30 134 Mupugerque, NM 108 69 27 8 3 1 8 Akron, OH 33 34 13 1 2 3 4 Bois, ID 44 38 4 2 4 Canton, OH 37 30 7 3 Colorado Springs, CO 77 56 13 5 2 1	Yonkers, NY	19	18	1	_	_	_	1	Mountain	1,041	696	230	77	19	18	70			
Akron, OH 53 34 11 2 3 4 Boise, ID 44 38 4 2 - - 4 Canton, OH 37 30 7 - - - 3 4 9 Colorado Springs, CO 77 56 13 5 2 1 1 Chicago, IL 282 176 71 28 6 1 9 Colorado Springs, CO 77 56 13 5 2 2 1 Celumbus, OH 194 140 36 8 6 4 18 Pheenix, AZ 154 85 44 17 2 5 14 Dayton, OH 126 89 29 3 4 1 2 Pueblo, CO 39 27 8 4 2 2 4 10 Evansville, IN 71 74 79 7 3 1 6 Pacific 1/644 1/13 82 24 3 2 2 4 Grand Rajots, MI 33 <td>E.N. Central</td> <td>1,886</td> <td>1,279</td> <td>432</td> <td>100</td> <td>45</td> <td>30</td> <td>134</td> <td>Albuquerque, NM</td> <td>108</td> <td>69</td> <td>27</td> <td>8</td> <td>3</td> <td>1</td> <td>8</td>	E.N. Central	1,886	1,279	432	100	45	30	134	Albuquerque, NM	108	69	27	8	3	1	8			
Canton, OH 37 30 7 3 Colorado Springs, CO 77 56 13 5 2 1 1 Chicago, IL 282 176 71 28 6 1 9 Denver, CO 82 49 23 6 2 2 8 Clincinnati, OH 256 184 55 13 2 2 15 Ogden, UT 30 22 5 2 - 1 1 Detroit, MI 104 36 8 6 4 18 Phoenis, AZ 113 82 22 12 4 4 0 Evansville, IN 51 38 10 3 - - 3 1 Cevelay, CA 33 3 - - - 1 1 Gary, IN 21 6 11 3 - 1 2 Berkeley, CA 3 3 - - - 1 1 - 1 1 - 1 1 -	Akron, OH	53	34	13	1	2	3	4	Boise, ID	44	38	4	2	_	_	4			
Chicago, IL 282 176 71 28 6 1 9 Denver, CO 82 49 23 6 2 2 8 Cincinati, OH 77 46 21 3 3 4 9 Las Vegas, NV 254 170 60 18 4 2 19 Cleveland, OH 256 184 55 13 2 2 15 Ogden, UT 30 22 5 2 1 1 Columbus, OH 194 140 36 8 6 4 18 Phoenix, AZ 113 82 24 3 2 2 4 Detroit, MI U U U U U U U U V V U <td>Canton, OH</td> <td>37</td> <td>30</td> <td>7</td> <td>_</td> <td>—</td> <td>—</td> <td>3</td> <td>Colorado Springs, CO</td> <td>77</td> <td>56</td> <td>13</td> <td>5</td> <td>2</td> <td>1</td> <td>1</td>	Canton, OH	37	30	7	_	—	—	3	Colorado Springs, CO	77	56	13	5	2	1	1			
Cincinati, OH 77 46 21 3 3 4 9 Las Vegas, NV 254 170 60 18 4 2 19 Cleveland, OH 256 184 55 13 2 2 15 Ogden, UT 30 22 5 2 - 1 1 Columbus, OH 194 140 36 8 6 4 18 Probenix, AZ 154 85 44 17 2 5 14 Dayton, OH 126 89 29 3 4 1 12 Pueblo, CO 39 27 8 4 - - 1 Detroit, MI U U U U U U U Stat Lake City, UT 140 98 22 2 4 4 27 152 Gary, N 21 6 11 3 - 1 2 Berkeley, CA 3 3 - - - 14 16 172 6 29 15 16 15<	Chicago, IL	282	176	71	28	6	1	9	Denver, CO	82	49	23	6	2	2	8			
Cleveland, OH 256 184 55 13 2 2 15 Ogden, UI 30 22 5 2 - 1 1 Columbus, OH 126 89 29 3 4 1 12 Pueblo, CO 39 27 8 4 - - 1 1 Detroit, MI U U U U U U U U 2 2 4 4 10 Evansville, IN 77 47 19 7 3 1 6 Pacific 1,644 1,134 354 94 34 27 152 Gary, IN 21 6 16 15 3 20 Gendale, CA 35 32 2 1 - - 5 Lansing, MI 37 29 7 1 - - 3 1 6 2 2 - - - 5 Lansing, MI 37 29 7 1 - - 6 100 <	Cincinnati, OH	77	46	21	3	3	4	9	Las Vegas, NV	254	170	60	18	4	2	19			
Columbus, OH 194 140 36 8 6 4 18 Phoenx, AZ 154 85 44 17 2 5 14 Daytor, OH 126 89 29 3 4 1 12 Pueblo, CO 39 27 8 4 - - 1 Detroit, MI U U U U U U U U U 140 98 22 12 4 4 10 Evansville, IN 51 38 10 3 - - 3 1 6 Pacific 1,144 4,144 12 2 2 4 17 Gara, Rapids, MI 63 49 8 2 2 2 4 9 Fresno, CA 140 95 32 9 - 4 17 Indianapolis, IN 239 139 66 16 15 3 20 Glendale, CA 35 32 2 1 - - 5 Lansing,MI 37<	Cleveland, OH	256	184	55	13	2	2	15	Ogden, UI	30	22	5	2	_	1	1			
Detroit, MIUUU <th< td=""><td>Columbus, OH</td><td>194</td><td>140</td><td>36</td><td>8</td><td>6</td><td>4</td><td>18</td><td>Phoenix, AZ</td><td>154</td><td>85</td><td>44</td><td>17</td><td>2</td><td>5</td><td>14</td></th<>	Columbus, OH	194	140	36	8	6	4	18	Phoenix, AZ	154	85	44	17	2	5	14			
Detroit, Mi000 <th< td=""><td>Dayton, OH</td><td>120</td><td>89</td><td>29</td><td>3</td><td>4</td><td></td><td>12</td><td>Pueblo, CO</td><td>39 140</td><td>27</td><td>8 22</td><td>4</td><td></td><td></td><td>10</td></th<>	Dayton, OH	120	89	29	3	4		12	Pueblo, CO	39 140	27	8 22	4			10			
Loain Sine, IN 31 36 10 3 - - - 113 32 24 3 24 3 24 24 3 24 27 3 2 2 4 Fort Wayne, IN 21 6 11 3 - 1 2 Berkeley, CA 3 3 - - - - 1 152 Gar, IA 35 32 9 - - - 1 152 Gar, IA 35 32 9 - - - 1 152 Gar, IA 10 95 32 9 - - - 152 Gar, IA 10 11 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10	Evanovilla IN	51	20	10	2	0	0	2	Salt Lake City, 01	140	90 02	22	12	4	4	10			
Gary, IN 21 6 1 3 - 1 2 1 <th1< th=""> 1 <th1< th=""> <th1< t<="" td=""><td>Fort Wayne IN</td><td>77</td><td>47</td><td>10</td><td>7</td><td>3</td><td>1</td><td>5</td><td>Pacific</td><td>1 644</td><td>1 1 3 4</td><td>354</td><td>94</td><td>34</td><td>27</td><td>152</td></th1<></th1<></th1<>	Fort Wayne IN	77	47	10	7	3	1	5	Pacific	1 644	1 1 3 4	354	94	34	27	152			
Grand Rapids, MI 61 49 8 2 2 2 4 Fresno, CA 140 95 32 9 - 4 17 Indianapolis, IN 239 139 66 16 15 3 20 Glendale, CA 35 32 2 1 - - 5 Lansing, MI 37 29 7 1 - - 3 Honolulu, HI 70 51 14 4 1 - - 5 Peoria, IL 47 34 11 1 - 1 5 Los Angeles, CA 238 143 57 20 12 6 29 Rockford, IL 57 42 11 4 - - 4 Pasadena, CA 14 12 2 - - - 2 9 9 3 - 1 2 Scaramento, CA 205 155 39 8 2 1 25 20 14 40 29 2 4 6 Youngstow	Gary, IN	21	6	11	3	_	1	2	Berkeley, CA	3	3					1 1			
Indianapolis, IN 239 13 66 16 15 3 20 Glendale, CA 35 32 2 1 - - - 5 Lansing, MI 37 29 7 1 - - - 3 Glendale, CA 35 32 2 1 - - - 5 Lansing, MI 37 29 7 1 - - - 3 Glendale, CA 35 32 2 1 - - 6 Peoria, IL 47 34 11 - 1 5 Los Angeles, CA 238 143 57 20 12 6 29 8 3 - 9 South Bend, IN 55 39 15 1 - - 6 Portland, OR 134 94 29 8 3 - 9 Youngstown, OH 48 39 8 - - 1 2 San Diego, CA 151 107 29 2 4 6 2 <td>Grand Bapids, MI</td> <td>63</td> <td>49</td> <td>8</td> <td>2</td> <td>2</td> <td>2</td> <td>4</td> <td>Fresno, CA</td> <td>140</td> <td>95</td> <td>32</td> <td>9</td> <td>_</td> <td>4</td> <td>17</td>	Grand Bapids, MI	63	49	8	2	2	2	4	Fresno, CA	140	95	32	9	_	4	17			
Lansing, MI 37 29 7 1 - - 3 Honolulu, HI 70 51 14 4 1 - 8 Milwaukee, WI 77 51 18 3 1 4 9 Lorg Beach, CA 59 35 16 4 3 1 6 29 Rockford, IL 57 42 11 1 - 1 5 Lorg Beach, CA 59 35 16 4 3 1 6 29 Rockford, IL 57 42 11 4 - - 4 Pasadena, CA 14 12 2 - - - 2 South Bend, IN 55 39 15 1 - - 6 Portland, OR 134 94 29 8 - 9 3 - 9 9 2 4 6 6 3 1 2 - San Diego, CA 151 107 29 9 2 4 6 5 5 39 8	Indianapolis, IN	239	139	66	16	15	3	20	Glendale, CA	35	32	2	1	_		5			
Milwaukee, WI 77 51 18 3 1 4 9 Long Beach, CA 59 35 16 4 3 1 6 Peoria, IL 47 34 11 1 - 1 5 Long Beach, CA 59 35 16 4 3 1 6 29 Rockford, IL 57 42 11 4 - - 4 4 20 238 143 57 20 12 6 29 South Bend, IN 55 39 15 1 - - 6 Portland, OR 134 94 29 8 3 - 9 3 1 2 - - - 2 Portland, OR 134 94 29 8 2 1 25 39 8 2 1 25 30 8 2 1 25 30 3 14 30 4 1 4 33 14 30 4 1 31 45 30 31	Lansing, MI	37	29	7	1	_	_	3	Honolulu, HI	70	51	14	4	1	_	8			
Peoria, IL 47 34 11 1 1 5 Los Ångeles, CA 238 143 57 20 12 6 29 Rockford, IL 57 42 11 4 4 Pasadena, CA 14 12 2 2 South Bend, IN 55 39 15 1 -6 Portland, OR 134 94 29 8 3 9 Youngstown, OH 48 39 8 -1 2 Sacramento, CA 151 107 29 2 4 6 W.N. Central 409 261 97 26 16 9 17 San Diego, CA 117 73 27 10 3 3 14 Des Moines, IA 4 San Jose, CA 153 114 30 4 1 4 12 5 Duluth, MN 34 29 5 - 4 <td< td=""><td>Milwaukee, WI</td><td>77</td><td>51</td><td>18</td><td>3</td><td>1</td><td>4</td><td>9</td><td>Long Beach, CA</td><td>59</td><td>35</td><td>16</td><td>4</td><td>3</td><td>1</td><td>6</td></td<>	Milwaukee, WI	77	51	18	3	1	4	9	Long Beach, CA	59	35	16	4	3	1	6			
Rockford, IL 57 42 11 4 4 Pasadena, CA 14 12 2 2 South Bend, IN 55 39 15 1 -6 Portland, OR 134 94 29 8 3 9 Toledo, OH 89 67 16 3 1 2 Sacramento, CA 205 155 39 8 2 1 25 Youngstown, OH 48 39 8 1 2 Sacramento, CA 151 107 29 9 2 4 6 W.N. Central 409 261 97 26 16 9 17 San Francisco, CA 117 73 27 10 3 3 14 12 Duluth, MN 34 29 5 4 Santa Cruz, CA 24 22 2 - 2 7 Kansas City, MO 84 53 17 9 4 <td< td=""><td>Peoria, IL</td><td>47</td><td>34</td><td>11</td><td>1</td><td>_</td><td>1</td><td>5</td><td>Los Angeles, CA</td><td>238</td><td>143</td><td>57</td><td>20</td><td>12</td><td>6</td><td>29</td></td<>	Peoria, IL	47	34	11	1	_	1	5	Los Angeles, CA	238	143	57	20	12	6	29			
South Bend, IN 55 39 15 1 6 Portland, OR 134 94 29 8 3 9 Toledo, OH 89 67 16 3 1 2 Sacramento, CA 205 155 39 8 2 1 25 Youngstown, OH 48 39 8 - 1 2 San Diego, CA 151 107 29 9 2 4 6 W.N. Central 409 261 97 26 16 9 17 San Francisco, CA 117 73 27 10 3 3 14 Des Moines, IA 4 San Jose, CA 153 114 30 4 1 4 12 Duluth, MN 34 29 5 4 Santa Cruz, CA 24 22 2 2 Sata Cruz, CA 24 22 2 1 4 12	Rockford, IL	57	42	11	4	_	—	4	Pasadena, CA	14	12	2	—	_	_	2			
Toledo, OH 89 67 16 3 1 2 Sacramento, CA 205 155 39 8 2 1 25 Youngstown, OH 48 39 8 1 2 San Diego, CA 151 107 29 9 2 4 6 W.N. Central 409 261 97 26 16 9 17 San Diego, CA 151 107 29 9 2 4 6 Des Moines, IA San Jose, CA 153 114 30 4 1 4 12 Duluth, MN 34 29 5 4 San Jose, CA 153 114 30 4 1 4 12 Gansas City, MO 84 53 17 9 4 1 3 Spokane, WA 67 59 5 2 1 4 1 4 1 4 3 2 1 Tacom	South Bend, IN	55	39	15	1	_	—	6	Portland, OR	134	94	29	8	3	_	9			
Youngstown, OH 48 39 8 1 2 San Diego, CA 151 107 29 9 2 4 6 W.N. Central 409 261 97 26 16 9 17 San Diego, CA 117 73 27 10 3 3 14 Des Moines, IA San Jose, CA 117 73 27 10 3 3 14 Des Moines, IA San Jose, CA 113 117 73 27 10 3 3 14 Duluth, MN 34 29 5 - 4 San Jose, CA 123 114 30 4 12 5 2 7 3 2 7 Kansas City, MO 84 53 17 9 4 1 3 Spokane, WA 67 59 5 2 - 1 4 <td>Toledo, OH</td> <td>89</td> <td>67</td> <td>16</td> <td>3</td> <td>1</td> <td>2</td> <td>—</td> <td>Sacramento, CA</td> <td>205</td> <td>155</td> <td>39</td> <td>8</td> <td>2</td> <td>1</td> <td>25</td>	Toledo, OH	89	67	16	3	1	2	—	Sacramento, CA	205	155	39	8	2	1	25			
W.N. Central 409 261 97 26 16 9 17 San Francisco, CA 117 73 27 10 3 3 14 Des Moines, IA - - - - - - - - 409 3 3 14 30 4 1 4 12 Duluth, MN 34 29 5 - - - 4 San Jose, CA 153 114 30 4 1 4 12 Sans Scity, KS 16 7 6 2 1 - 2 Seattle, WA 129 67 43 12 5 2 7 Kansas City, MO 84 53 17 9 4 1 3 Spokane, WA 67 59 5 2 - 1 4 Lincoln, NE 38 26 10 1 1 - - Tacoma, WA 105 72 27 3 2 1 5 Minneapolis, MO 7 2 <td< td=""><td>Youngstown, OH</td><td>48</td><td>39</td><td>8</td><td>—</td><td>—</td><td>1</td><td>2</td><td>San Diego, CA</td><td>151</td><td>107</td><td>29</td><td>9</td><td>2</td><td>4</td><td>6</td></td<>	Youngstown, OH	48	39	8	—	—	1	2	San Diego, CA	151	107	29	9	2	4	6			
Des Moines, IA - - - - - - - - San Jose, CA 153 114 30 4 1 4 12 Duluth, MN 34 29 5 - - - 4 San Jose, CA 153 114 30 4 1 4 12 Duluth, MN 34 29 5 - - - 4 San Jose, CA 153 114 30 4 1 4 12 Kansas City, MO 84 53 17 9 4 1 3 Spokane, WA 67 59 5 2 - 1 4 Lincoln, NE 38 26 10 1 1 - - Tacoma, WA 105 72 27 3 2 1 5 Minneapolis, MN 53 25 20 3 3 2 4 1 - - 10,543 7,044 2,436 649 234 177 746 Omaha, NE 80	W.N. Central	409	261	97	26	16	9	17	San Francisco, CA	117	73	27	10	3	3	14			
Dulutin, MIN 34 29 5 4 Santa Cruz, CA 24 22 2 2 Kansas City, KS 16 7 6 2 1 2 Seattle, WA 129 67 43 12 5 2 7 Kansas City, MO 84 53 17 9 4 1 3 Spokane, WA 67 59 5 2 1 4 Lincoln, NE 38 26 10 1 1 Taccma, WA 105 72 27 3 2 1 5 Minneapolis, MN 53 25 20 3 3 2 1 Total [¶] 10,543 7,044 2,436 649 234 177 746 Omaha, NE 80 57 14 4 3 2 4 1 1 10,543 7,044 2,436 649 234 177 746 Omaha, NE 80 57	Des Moines, IA				—	_	—	_	San Jose, CA	153	114	30	4	1	4	12			
Kansas City, Ks 16 / 6 2 1 - 2 Seattle, WA 129 67 43 12 5 2 7 Kansas City, MO 84 53 17 9 4 1 3 Spokane, WA 67 59 5 2 - 1 4 Lincoln, NE 38 26 10 1 - - - Tacoma, WA 105 72 27 3 2 1 5 Minneapolis, MN 53 25 20 3 3 2 1 Total [¶] 10,543 7,044 2,436 649 234 177 746 Omaha, NE 80 57 14 4 3 2 4 1 - 1 10,543 7,044 2,436 649 234 177 746 Omaha, NE 80 57 14 4 3 2 4 1 - 1 1 - - 1 - - 1 - - 1	Duluth, MN	34	29	5	_	_	—	4	Santa Cruz, CA	24	22	2		_	_	2			
Kansas City, MO 84 53 1/ 9 4 1 3 Spokane, WA 67 59 5 2 — 1 4 Lincoln, NE 38 26 10 1 1 — — Tacoma, WA 105 72 27 3 2 1 5 Minneapolis, MN 53 25 20 3 3 2 1 Tacoma, WA 105 72 27 3 2 1 5 Omaha, NE 80 57 14 4 3 2 4 Total [¶] 10,543 7,044 2,436 649 234 177 746 St. Louis, MO 7 2 4 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - - 1 - 1 - 1 - 1 - 1 - 1 - 1	Kansas City, KS	16	7	6	2	1	_	2	Seattle, WA	129	67	43	12	5	2	7			
Lincoin, NE 58 26 10 1 1 1 — — Iacoma, WA 105 /2 2/ 3 2 1 5 Minneapolis, MN 53 25 20 3 3 2 1 Omaha, NE 80 57 14 4 3 2 4 St. Louis, MO 7 2 4 — 1 — 1 St. Paul, MN 45 30 9 5 1 — 1 Wichita, KS 52 32 12 2 2 4 1	Kansas City, MO	84	53	17	9	4	1	3	Spokane, WA	67	59	5	2		1	4			
Minimerpoils, Min 53 25 20 3 5 2 1 Iotal" Iotal" Iotal, 2,436 649 234 1/7 746 Omaha, NE 80 57 14 4 3 2 4 St. Louis, MO 7 2 4 — 1 — 1 St. Paul, MN 45 30 9 5 1 — 1 Wichita, KS 52 32 12 2 4 1	LINCOIN, INE	38	26	10	1	1		1	Tacoma, WA	105	/2	2/	3	2	177	5			
Official A, NL OU S7 14 4 S 2 4 St. Louis, MO 7 2 4 - 1 - 1 St. Paul, MN 45 30 9 5 1 - 1 Wichita, KS 52 32 12 2 2 4 1	Minneapolis, MiN	53	25	20	3	3	2	1	iotai"	10,543	7,044	2,430	049	254	177	746			
St. Paul, MN 45 30 9 5 1 - 1 Wichita, KS 52 32 12 2 2 4 1	St Louis MO	80 7	/د ۲	14	4	3 1		4											
Wichita, KS 52 32 12 2 2 4 1	St Paul MN	45	∠ ۲0	4	5	1	_	1											
	Wichita, KS	52	32	12	2	2	4	1											

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

[†] Pneumonia and influenza.

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

[¶] Total includes unknown ages.

The *Morbidity and Mortality Weekly Report (MMWR)* Series is prepared by the Centers for Disease Control and Prevention (CDC) and is available free of charge in electronic format. To receive an electronic copy each week, visit *MMWR*'s free subscription page at *http://www.cdc.gov/mmwr/mmwrsubscribe.html*. Paper copy subscriptions are available through the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402; telephone 202-512-1800.

Data presented by the Notifiable Disease Data Team and 122 Cities Mortality Data Team in the weekly *MMWR* are provisional, based on weekly reports to CDC by state health departments. Address all inquiries about the *MMWR* Series, including material to be considered for publication, to Editor, *MMWR* Series, Mailstop E-90, CDC, 1600 Clifton Rd., N.E., Atlanta, GA 30333 or to *mmwrq@cdc.gov*.

All material in the MMWR Series is in the public domain and may be used and reprinted without permission; citation as to source, however, is appreciated.

Use of trade names and commercial sources is for identification only and does not imply endorsement by the U.S. Department of Health and Human Services.

References to non-CDC sites on the Internet are provided as a service to *MMWR* readers and do not constitute or imply endorsement of these organizations or their programs by CDC or the U.S. Department of Health and Human Services. CDC is not responsible for the content of these sites. URL addresses listed in *MMWR* were current as of the date of publication.

☆ U.S. Government Printing Office: 2010-623-026/41249 Region IV ISSN: 0149-2195