



### **Morbidity and Mortality Weekly Report**

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# Sports-Related Injuries Among High School Athletes — United States, 2005–06 School Year

Participation in high school sports helps promote a physically active lifestyle. High school sports participation has grown from an estimated 4 million participants during the 1971–72 school year to an estimated 7.2 million in 2005-06 (1). However, despite the documented health benefits of increased physical activity (e.g., weight management, improved self-esteem, and increased strength, endurance, and flexibility) (2,3), those who participate in athletics are at risk for sports-related injuries (4,5). High school athletes account for an estimated 2 million injuries, 500,000 doctor visits, and 30,000 hospitalizations annually (6). To date, the study of these injuries has been limited by inabilities to calculate injury rates, compare results among groups, and generalize findings from small, nonrepresentative samples. During the 2005–06 school year, researchers at a children's hospital in Ohio used an Internet-based data-collection tool to pilot an injury surveillance system among athletes from a representative national sample of U.S. high schools. This report summarizes the findings of that study, which indicated that participation in high school sports resulted in an estimated 1.4 million injuries at a rate of 2.4 injuries per 1,000 athlete exposures (i.e., practices or competitions). Surveillance of exposure-based injury rates in a nationally representative sample of high school athletes and analysis of injury patterns can help guide activities aimed at reducing these injuries.

The High School Sports-Related Injury Surveillance Study was sponsored by a CDC grant and conducted during the 2005–06 school year by the Center for Injury Research and Policy at Columbus Children's Hospital in Columbus, Ohio. One hundred U.S. high schools nationally representative of geographic location and school size were selected randomly from among schools that agreed to participate.\*

Certified athletic trainers (ATCs) affiliated with the National Athletic Trainers' Association (NATA) at each participating school reported injury incidence and athletic exposure data for student athletes participating in nine sports: baseball, football, and wrestling (for boys); softball and volleyball (for girls); and basketball and soccer (for boys and girls). Data were reported weekly via an Internet-based surveillance system. Injuries were defined as those 1) resulting from participation in an organized high school athletic practice or competition, 2) requiring medical attention from an ATC or a physician, and 3) restricting the athlete's participation for 1 or more days beyond the day of injury. An athlete exposure was defined as one athlete participating in one practice or competition during which the athlete was exposed to the possibility of athletic injury. Injury rates were calculated as the ratio of the number of injuries in a particular category (e.g., sport or practice versus competition) to the number of athlete exposures in that category. To calculate national estimates of the number of injuries, each reported injury was assigned a sample weight based on the inverse of the probability of the school's selection into the study (based on the total number of high schools

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<sup>\*</sup>A total of 4,120 eligible ATCs (i.e., affiliated with the National Athletic Trainers' Association (NATA) and high schools and with contact information available) were contacted. Of those, ATCs representing 425 schools agreed to participate. Those schools were placed into eight sampling strata (created by four geographic strata based on U.S. census areas and two size strata based on large [≥1,000 students] or small [<1,000 students] schools). Twelve schools were drawn randomly from four strata and 13 schools from the other four strata to make an even 100 participating schools.

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in each of the eight sampling strata). If a school dropped out of the surveillance study, a replacement school from the same sampling stratum was enrolled.

An estimated 1,442,533 injuries occurred among U.S. high school student athletes participating in practices or competitions for the nine sports studied. The overall (i.e., practice and competition) injury rate in all sports combined was 2.44 injuries per 1,000 athlete exposures (Table). Football had the highest injury rate (4.36 injuries per 1,000 athlete exposures) followed by wrestling (2.50), boys' (2.43) and girls' (2.36) soccer, and girls' basketball (2.01). Boys' basketball, volleyball, baseball, and softball each had injury rates of less than 2.0 injuries per 1,000 athlete exposures. In each sport, the injury rate was higher in competition than practice settings. Although boys' soccer had slightly higher injury rates than girls' soccer, and girls' basketball had slightly higher injury rates than boys' basketball, no statistically significant differences (p>0.05) by sex were observed for soccer and basketball.

In each of the nine sports, approximately 80% of the reported injuries were new injuries as opposed to recurrences or complications from previous injuries. Types of injuries varied between practice and competition; for example, concussions and fractures occurred more commonly in competition than practice (Figure 1). The total numbers of injuries were similar for practice and competition; however, because fewer competitions are conducted than practices, the injury rates in competition were higher. Severity of injury, as measured by days lost from play, varied by sport. Overall, approximately half of the injuries reported resulted in <7 days lost; football, girls' basketball, and wrestling had greater proportions of injuries resulting in ≥7 days lost (Figure 2). No deaths were reported.

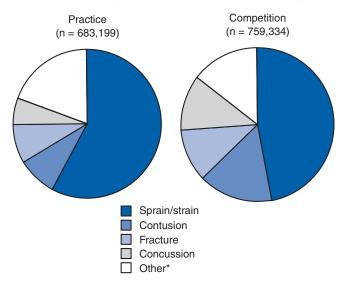
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TABLE. Sport-specific injury rates\* in practice, competition, and overall — High School Sports-Related Injury Surveillance Study, United States, 2005–06 school year

		Rate	
Sport	Practice	Competition	Overall
Boys' football	2.54	12.09	4.36
Boys' wrestling	2.04	3.93	2.50
Boys' soccer	1.58	4.22	2.43
Girls' soccer	1.10	5.21	2.36
Girls' basketball	1.37	3.60	2.01
Boys' basketball	1.46	2.98	1.89
Girls' volleyball	1.48	1.92	1.64
Boys' baseball	0.87	1.77	1.19
Girls' softball	0.79	1.78	1.13
Total	1.69	4.63	2.44

<sup>\*</sup> Per 1,000 athlete exposures (i.e., practices or competitions).

FIGURE 1. Proportion of injuries in practice and competition, by diagnosis — High School Sports-Related Injury Surveillance Study, United States, 2005–06 school year

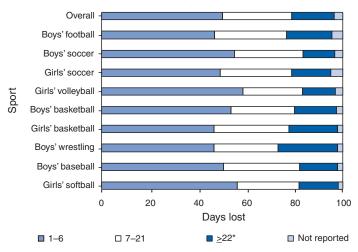


<sup>\*</sup> Includes other injuries (e.g., lacerations or dislocations) and reportable health-related events (e.g., heat illness, skin infections, or asthma attacks).

**Editorial Note:** During the 2005–06 school year, an estimated 4.2 million students in the United States participated in the nine high school sports studied (1). This report is the first to use data from an Internet-based injury surveillance study to provide national estimates of injuries among these student athletes. The pilot study determined that an estimated 1.4 million injuries, more than 80% of which were new, occurred among participants in the nine high school sports during the 2005–06 school year. Injury prevention takes on added importance because history of an injury (e.g., sprain) is often a risk factor for future injury.

Two existing injury surveillance systems illustrate the potential usefulness of continuing this pilot study as an ongoing system at the high school level to identify areas for targeted interventions. The National Collegiate Athletic Association Injury Surveillance System conducts surveillance of injuries among collegiate athletes (7), and the National Center for Catastrophic Sports Injury Research collects data on catastrophic injuries (e.g., brain or spinal cord injuries) (8). For approximately 20 years, the data collected by these two surveillance systems have been used by medical committees, rules committees, and researchers to reduce injury rates by driving the development, implementation, and evaluation of injury prevention programs. Recent examples of data-driven changes in policies and practices include 1) educational campaigns to reduce heat-related injuries in football and other sports, 2) elimination of racing starts in shallow pools to reduce catastrophic swimming injuries, and 3) recommendation of eye protection in sports involving sticks (e.g., field hockey).

FIGURE 2. Proportion of injuries, by sport and number of days lost — High School Sports-Related Injury Surveillance Study, United States, 2005–06 school year



<sup>\*</sup> Includes athletes who returned to their teams after ≥22 days and athletes who were out for the remainder of the season as a result of their injuries.

Previous sports-related injury studies have used various age groups and definitions for injury and exposure. One conducted among college athletes used a definition for injury that was similar to that used for this study (7). Although injury rates in that study of collegiate sports were two to six times higher compared with high school sports, patterns of injury were similar. Collegiate football had the highest rate of injury, and collegiate injury rates were higher in competition than practice (7). At the high school level, a surveillance study conducted during 1995–1997 in a representative sample of U.S. high schools used a slightly broader definition of injury and collected data on varsity athletes only (6). That study also observed higher injury rates in football compared with other sports and in competition versus practice. However, in each sport except volleyball, injury rates from 1995-1997 were at least two times higher than the injury rates observed in this report. Reasons for this disparity are not fully understood; some of the disparity might be attributable to differences in study methods, and some might have resulted from new injury prevention measures (e.g., rules changes or safety-gear improvements) and improvements in diagnosis and treatment (e.g., greater attention to minor injuries to reduce the rate of more serious injuries) since the earlier study was conducted.

The findings in this report are subject to at least three limitations. First, only injuries that came to the attention of ATCs were included; injuries treated in a physician's office, emergency department, or urgent-care facility and not reported to an ATC were not captured. Second, only U.S. high schools whose athletes had access to care from an ATC affiliated with NATA were eligible. Reliable estimates of the number of U.S.

high schools whose athletes have access to an ATC are not available. Finally, only injuries sustained during participation in nine sports were included. Although an estimated 4.2 million U.S. high school students participated in these nine sports during the 2005–06 school year, more than 30 sports were offered by U.S. high schools (1).

Although the health benefits of a physically active lifestyle, including sports participation, are well known, the risks for sports-related injury and effective prevention strategies are less well established. General recommendations for reducing the risk of injury among high school athletes (e.g., ensure adequate hydration and use of appropriate protective equipment in practices and competitions) and sport-specific recommendations (e.g., block and tackle with the head up to reduce the risk for neck injuries in football) are offered by NATA (9). Additionally, CDC addresses prevention and management of concussion in all sports with a free tool kit for coaches, Heads Up: Concussion in High School Sports (10). This pilot study demonstrates that participation and injury data can be collected to calculate exposure-based injury rates. Calculation of rates enables comparison of injuries among age groups, sports, and years. The results support the feasibility and value of targeting research and prevention strategies to those students most at risk for sports-related injuries.

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## Chikungunya Fever Diagnosed Among International Travelers — United States, 2005–2006

Chikungunya virus (CHIKV) is an alphavirus indigenous to tropical Africa and Asia, where it is transmitted to humans by the bite of infected mosquitoes, usually of the genus Aedes (1). Chikungunya (CHIK) fever, the disease caused by CHIKV, was first recognized in epidemic form in East Africa during 1952-1953. The word "chikungunya" is thought to derive from description in local dialect of the contorted posture of patients afflicted with the severe joint pain associated with this disease. Because CHIK fever epidemics are sustained by human-mosquito-human transmission, the epidemic cycle is similar to those of dengue and urban yellow fever. Large outbreaks of CHIK fever have been reported recently on several islands in the Indian Ocean and in India (2–6). In 2006, CHIK fever cases also have been reported in travelers returning from known outbreak areas to Europe, Canada, the Caribbean (Martinique), and South America (French Guyana) (2,3,5–7). During 2005–2006, 12 cases of CHIK fever were diagnosed serologically and virologically at CDC in travelers who arrived in the United States from areas known to be epidemic or endemic for CHIK fever. This report describes four of these cases and provides guidance to health-care providers. Clinicians should be alert for additional cases among travelers, and public health officials should be alert to evidence of local transmission of chikungunya virus (CHIKV), introduced through infection of local mosquitoes by a person with viremia.

#### **Case Reports**

Minnesota. On May 12, 2005, an adult male resident of Minnesota returned from a 3-month trip to Somalia and Kenya. He had onset of illness hours after arrival in the United States, including fever, headache, malaise, and joint pain mainly in a shoulder and a knee. Serum obtained on May 13 was tested at CDC and determined to be equivocal for CHIKV RNA by reverse-transcription polymerase chain reaction (PCR), consistent with low-level viremia. A recent CHIKV infection was confirmed by demonstration of IgM antibody in this acute-phase serum specimen and neutralizing antibody in convalescent-phase serum (collected 214 days after illness onset). Arthralgias resolved after several weeks.

**Louisiana.** On January 15, 2006, an adult female resident of India had onset of an illness characterized by fever, joint pain (in the knees, wrists, hands, and feet), and muscle pain (in the thighs and neck). In March 2006, she traveled to Louisiana, where she sought medical attention for persistent joint pain. At CDC, tests of a single serum sample collected on March 30 (74 days after illness onset) were positive for IgM

and neutralizing antibodies to CHIKV. The patient was subsequently lost to follow-up.

Maryland. An adult female resident of Maryland visited the island of Réunion in the Indian Ocean from October 2005 through mid-March 2006. On February 18, 2006, during an ongoing CHIK fever outbreak on the island, she had onset of fever, joint pain (in the hands and feet), and rash. A local physician clinically diagnosed CHIK fever, but no laboratory tests were conducted. After returning to the United States, the patient sought medical attention for persistent joint pain. At CDC, tests of a single serum sample collected on March 22 (32 days after illness onset) were equivocal for IgM and positive for neutralizing antibody to CHIKV, consistent with a recent CHIKV infection in which IgM antibody was waning. At 5 months after onset, the patient had persistent joint pain (in the hands and feet).

**Colorado.** An adult male resident of Colorado visited Zimbabwe during April 17–May 29, 2006. On April 29, he had onset of illness with fever, chills, joint pain (in the wrists and ankles), and neck stiffness; a rash appeared a few days later. All symptoms resolved within 2 weeks, except for joint pain, which persisted for approximately 1 month. At CDC, tests of a single serum sample collected on June 12 (44 days after illness onset) were positive for IgM and neutralizing antibody to CHIKV.

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Editorial Note: Most CHIKV infections are symptomatic (8). In clinical infections, the incubation period typically is 2–4 days. Illness is characterized by sudden onset of fever, headache, malaise, arthralgias or arthritis, myalgias, and low back pain. Skin rash occurs in approximately half of cases (9). Joint symptoms can be severe and involve small and large joints. Although CHIK fever typically lasts 3–7 days and full recovery is the usual outcome, certain patients experience persistent joint symptoms for weeks or months and occasionally years after illness onset (1). Serious complications (e.g., neuroinvasive disease) are rare, and fatal cases have not been documented conclusively. Transplacental CHIKV transmission and severe congenital CHIKV disease have been described

(10). CHIKV infection is believed to confer life-long immunity (1). Because no specific drug therapy is available, treatment of CHIK fever is supportive. No licensed CHIKV vaccine exists. Therefore, prevention recommendations for travelers to tropical Asia and Africa should emphasize mosquito repellent and avoidance measures. Additional information is available at http://www.cdc.gov/ncidod/dvbid/chikungunya/chickvfact.htm.

During May 2004-May 2006, approximately 300,000 suspected CHIK fever cases were reported on islands in the Indian Ocean, including approximately 264,000 suspected cases on Réunion, a French overseas department (2,3). Other affected areas included Mombasa, Kenya, and the islands of Comoros, Lamu, Madagascar, Mauritius, Mayotte, and the Seychelles. In addition, since early 2006, an estimated 180,000 suspected CHIK fever cases have occurred in the Indian states of Andhra Pradesh, Karnataka, and Maharashtra (4). In recent years, extensive CHIKV activity also has been documented in Southeast Asia (9). In 2006, as of May 11, approximately 340 imported CHIK fever cases were reported in Europe, mainly in France, reflecting the high frequency of travel between Europe and islands in the Indian Ocean (2). To date, no known local mosquito-borne CHIKV transmission has occurred in Europe or other nonindigenous areas.

Aedes aegypti is the primary CHIKV vector in Asia, but Ae. albopictus (the Asian tiger mosquito) likely was the primary vector in Réunion (2,3). In Asia, CHIKV epidemics involve a human-mosquito cycle, with humans serving as the sole vertebrate amplifying hosts (1). In Africa, sylvatic cycles involving nonhuman primates and forest-dwelling Aedes species (e.g., Ae. furcifer) also occur. Most CHIKV epidemics occur during the tropical rainy season and abate during the dry season (1,9). Human CHIKV infections include a transient, hightitered viremia (typically detectable during the first 2 days of illness, ranging up to 6 days after illness onset) that is adequate to infect feeding mosquitoes (1). Ae. aegypti and Ae. albopictus are abundant peridomestic species and aggressive daytime blood-feeders in all tropical and most subtropical areas of the world, and Ae. albopictus now lives in many temperate areas of the eastern and western hemispheres, including Europe and the United States. Therefore, some risk exists that CHIKV might be introduced into previously nonendemic areas by travelers with viremia, leading to local transmission of the virus, especially in tropical or subtropical areas of the United States (e.g., the Gulf Coast and Hawaii) or its territories (e.g., Guam, Puerto Rico, and the U.S. Virgin Islands). Early recognition of local transmission followed by prompt, aggressive vector control and other public health measures might prevent long-term establishment of the virus in new areas. Of the four patients described in this report,

three posed no substantial public health risk because they probably no longer had viremia upon arrival in the United States; although the fourth patient was likely viremic upon arrival in Minnesota in mid-May, transmission to competent local mosquito vectors in that climate was unlikely.

In early illness, the clinical features of CHIK fever can be similar to those of dengue and malaria, especially in patients without joint symptoms. In both dengue and CHIK fever, rash usually is generalized and maculopapular, but petechial rashes occur in certain dengue cases. During 1991-2004, nine confirmed or probable cases of CHIK fever were diagnosed serologically at CDC among travelers to the United States (CDC, unpublished data, 2006). Additional imported but unrecognized cases likely occurred. Clinicians should be aware of possible CHIKV infection in travelers returning from CHIK-fever-endemic or outbreak areas, particularly if an acute febrile illness with arthralgias or arthritis occurs. Suspected cases should be reported promptly to local and state public health officials and to CDC. Mosquito exposure should be strictly avoided (e.g., by staying within a screened environment and using barrier clothing and repellents) during the first week of illness to prevent infection of local mosquitoes.

In the United States, diagnostic tests for CHIKV infection are not available commercially but are available at CDC by special arrangement through state health departments. Laboratory diagnosis depends on antibody-capture IgM ELISA and plaque-reduction neutralization tests of serum. Comparative serologic tests for closely related alphaviruses (e.g., o'nyongnyong and Sindbis viruses) should be conducted as geographically appropriate, and tests for dengue usually are indicated. Virus isolation attempts and PCR assays are performed selectively. Serologic tests should be performed on both acute- and convalescent-phase serum specimens collected at least 2 weeks apart, but clinicians should not delay submission of acutephase samples pending collection of convalescent-phase samples. To arrange submission of specimens to CDC for diagnostic testing, clinicians should consult their state public health laboratory and CDC's Arboviral Diseases Branch (telephone, 970-221-6400). Specimen shipping and handling instructions are available at http://www.cdc.gov/ncidod/dvbid/ misc/specimen-submission.htm.

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# Importance of Culture Confirmation of Shiga Toxin-producing Escherichia coli Infection as Illustrated by Outbreaks of Gastroenteritis — New York and North Carolina, 2005

Escherichia coli O157:H7 and other strains of E. coli that produce Shiga toxin are collectively known as Shiga toxinproducing E. coli (STEC). The current outbreak of STEC O157 infections associated with eating fresh spinach illustrates the importance of obtaining isolates to identify the source of the infections (1). Laboratory methods that do not require bacterial culture of stool specimens to identify STEC are being used increasingly by clinical diagnostic laboratories, sometimes without subsequent confirmation of a strain by isolating it in culture. This report describes findings from outbreaks of gastroenteritis in 2005 in New York and North Carolina in which clinical diagnostic laboratories initially used only non-culture methods to detect Shiga toxin (Stx). The findings highlight the importance of confirmation of Stx-positive stool specimens by bacterial culture for timely and reliable identification of STEC infections, including E. coli O157 and non-O157 STEC, to enable implementation of appropriate public health actions. An important part of that identification is determining the serotype of all STEC isolates and the subtype of STEC O157 strains so that outbreaks can be detected and traced back to sources.

#### **New York**

During August 28–September 13, 2005, a total of 52 (2.4%) of 2,160 inmates at a state correctional facility reported diarrhea, including 17 (33%) with bloody diarrhea. Nineteen inmates were treated at the prison infirmary; three were hospitalized for an average of 1.8 days. Stool specimens from these three inmates tested positive for Stx by enzyme immunoassay (EIA) at a clinical diagnostic laboratory. Subsequently, stool specimens collected from 21 ill inmates were submitted to the New York State Department of Health (NYSDOH)-Wadsworth Center. Stool specimens were inoculated to E. coli enrichment broth and sorbitol MacConkey agar (SMAC), a selective medium used to screen for STEC serotype O157:H7 because this serotype, unlike most E. coli (and unlike most STEC), does not ferment sorbitol. Sixteen of the stool enrichment broths, when tested by polymerase chain reaction (PCR), were positive for the Shiga toxin 1 gene (stx1) but negative for STEC O157-specific DNA; 13 of the SMAC agar plates demonstrated growth of sorbitol-fermenting *E. coli* colonies that also were positive for stx1 by PCR and did not agglutinate with commercial latex reagents for STEC serogroups O26, O91, O103, O111, O128, O145, and O157. Isolates from three patients were sent to CDC and determined to be STEC serotype O45:nonmotile (NM) (one patient had both STEC serotype O45:NM and O45:H2). These STEC O45 isolates were indistinguishable by pulsed-field gel electrophoresis (PFGE) using XbaI and BlnI restriction endonucleases.

The source of the outbreak likely was an ill food worker. Control measures included enhanced surveillance for additional illness and reminders of the need for exclusion of the infected food worker from food service or other jobs with increased risk for transmission until his specimens no longer tested positive for STEC.

#### **North Carolina**

On November 10, 2005, the Davidson County Health Department received a report of non-bloody diarrheal illness in an infant aged 6 months who attended a day care center. Diarrhea was reported in four additional day care center attendees and three family members of the index patient.

An enrichment broth from a stool specimen from the index patient tested positive for Stx by EIA at a clinical diagnostic laboratory. After a delay of some days, the laboratory sent the enrichment broth culture of this stool specimen to the North Carolina State Laboratory for Public Health, where neither STEC O157 nor STEC serogroups O26, O45, O103, O121, O111, or O145 were isolated. The enrichment broth was then sent to CDC, where it again tested positive for Stx by EIA, but PCR tests of the enrichment broth at CDC were negative

for *stx1* and *stx2*. The enrichment broth was plated on SMAC, and PCR tests of both a sweep of growth from the plate and of 10 sorbitol-fermenting colonies were negative for *stx1* or *stx2*. Subsequently, the North Carolina State Laboratory for Public Health performed additional testing on stool specimens from five ill persons, including the index case; each tested positive for norovirus by reverse transcription-PCR.

In response to the initial Stx-positive report, public health control measures appropriate for STEC had been instituted, including exclusion of the index case from the day care center pending receipt of two STEC-negative cultures of stool specimens collected at least 24 hours apart. These exclusion measures also had been enforced for the four other ill children in the day care center. When the outbreak was determined to have been caused by norovirus, not STEC, control measures were revised, and the ill children were allowed to return to the day care center after they became asymptomatic.

Reported by: R Atkinson, PhD, G Johnson, T Root, T Halse, D Wroblewski, MS, New York State Dept of Health. M Davies, MD, A Byrd, L Long, MSA, Davidson County Health Dept, North Carolina. L Demma, PhD, F Angulo, DVM, PhD, C Bopp, MS, P Gerner-Smidt, MD, PhD, N Strockbine, PhD, K Greene, B Swaminathan, PhD, P Griffin, MD, Div of Foodborne, Bacterial, and Mycotic Diseases, National Center for Zoonotic, Vector-Borne, and Enteric Diseases (proposed); J Schaffzin, MD, PhD, B Goode, MPH, EIS officers, CDC.

**Editorial Note:** The New York outbreak demonstrates that Stx testing of stool specimens from patients with diarrhea by clinical diagnostic laboratories can facilitate detection of outbreaks of non-O157 STEC. However, as the North Carolina outbreak demonstrates, occasional false-positive results from the Stx EIA test can result in inappropriate and unnecessary public health action. These two outbreaks illustrate the importance of culture confirmation of Stx EIA-positive specimens.

Although STEC O45 is an important cause of sporadic non-O157 STEC infections in the United States, the cases in New York represent the first outbreak of STEC O45 infections ever identified in the United States (2). During 1983–2002, public health laboratories submitted 940 non-O157 STEC isolates to CDC, of which 7% were identified as O45, making it the fifth most commonly isolated non-O157 STEC serogroup during that period (2).

The outbreak in North Carolina illustrates the importance both of rapid culturing of all Stx-positive broths specifically for STEC O157 and of rapid culture confirmation of Stx-positive specimens. The initial Stx-positive result prompted public health actions that, in retrospect, placed an unnecessary burden on patients, day care center staff, and public health officials. Had a culture for *E. coli* O157 been performed simultaneously with the EIA or after the EIA was determined

positive, the negative result might have prompted investigation for norovirus sooner. Once the EIA result was determined falsely positive, and the true etiology of the outbreak was determined, control measures appropriate for norovirus were instituted. This is not the first time that an outbreak of norovirus infections was mistakenly attributed to STEC (3).

In 2000, non-O157 STEC infections became nationally notifiable. However, few non-O157 STEC infections are detected because most clinical diagnostic laboratories do not test stool specimens routinely for these organisms (4,5). No selective agar medium exists for isolation of non-O157 STEC. SMAC and other sorbitol-containing selective media such as cefixime-tellurite SMAC (CT-SMAC), Rainbow Agar O157, and CHROmagar O157 enhance isolation of STEC O157 because strains of this serotype typically do not ferment sorbitol or produce beta-D-glucuronidase. However, most non-O157 STEC strains ferment sorbitol and are phenotypically indistinguishable from other *E. coli* strains present in the normal intestinal flora. Non-O157 STEC infections can be diagnosed by use of EIA, PCR, or cell culture methods to detect free Stx or the stx1 or stx2 genes in stool or enrichment broths. EIA testing of broth cultures, rather than the stool specimens themselves, is recommended because the amount of free fecal Stx in stools often is low (6). Alternatively, production of Stx or the presence of Stx gene sequences can be demonstrated by selecting colonies from plating media and testing them by EIA or PCR. The development of commercial Stx EIA kits has allowed clinical diagnostic laboratories to easily screen stool specimens for STEC independent of serotype. If the index of clinical suspicion for STEC O157 is high, the stool specimen should be tested simultaneously by Stx EIA and by bacterial culture on a sorbitol-containing medium such as SMAC (7). Virulence factors strongly associated with the development of hemolytic uremic syndrome (HUS) are almost always present in STEC O157, but less frequently in non-O157 STEC (8). The majority of clinical diagnostic laboratories cannot determine the virulence profile of STEC but can identify an STEC O157 infection. Therefore, early diagnosis of at least STEC O157 is important to identify patients at highest risk for HUS. Treatment with parenteral-volume expansion early in the course of STEC O157 infection can decrease renal injury and improve patient outcome (9).

Clinical diagnostic laboratories should strongly consider including STEC O157 in their routine bacterial enteric panel (with *Salmonella, Shigella*, and *Campylobacter* spp.). If bacterial culture for STEC O157 is not performed in parallel with EIA, Stx-positive broths should be inoculated to a selective isolation medium, such as SMAC agar, and any resulting sorbitol-negative colonies should be tested with O157 antiserum or latex reagent. All confirmed and presumptive STEC

O157 isolates and Stx-positive broths that do not yield STEC O157 should be forwarded to a public health laboratory as soon as possible for confirmatory testing and further genetic characterization. STEC O157 isolates should be confirmed, characterized, and tested by PFGE, and the pattern promptly entered into the PulseNet database. At the public health laboratory, the broth should be subcultured to selective agar and a representative sample of sorbitol positive and negative colonies tested by Stx EIA or PCR for *stx1* and *stx2* genes. Non-O157 STEC isolates can be tested using commercial antisera for the most common non-O157 STEC serogroups (O26, O45, O103, O111, O121, and O145) and should be sent to the CDC *E. coli* Reference Laboratory for complete serotyping and further genetic characterization, including PFGE.

To facilitate investigation of possible outbreaks, clinicians should inform health departments about clusters of patients with bloody diarrhea or HUS, and clinical diagnostic laboratories should follow recommended procedures for identification of STEC (Box). Screening stool specimens by clinical diagnostic laboratories for Stx using EIA, subsequent bacterial culture of Stx-positive specimens using SMAC, and forwarding enrichment broths from Stx-positive specimens that do not yield STEC O157 to state or local public health laboratories, are crucial steps for public health surveillance of STEC infections. With this coordinated approach, accurate laboratory data can be combined with epidemiologic information to ensure prompt diagnosis and treatment of STEC O157 infections, improved diagnostic accuracy, and improved detection of outbreaks caused by non-O157 STEC.

#### **Acknowledgments**

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# BOX. Recommendations for laboratory identification of Shiga toxin-producing *Escherichia coli* (STEC)

- Health-care providers should notify clinical diagnostic laboratories when STEC O157 infection is suspected (e.g., because of bloody diarrhea or hemolytic uremic syndrome) so that appropriate testing methods can be applied.
- Clinical diagnostic laboratories should strongly consider including STEC O157 in their routine bacterial enteric panel (with Salmonella, Shigella, and Campylobacter).
- The best way to identify all STEC infections is to screen all stool samples submitted for routine enteric bacterial testing for Shiga toxins (Stxs) using enzyme immunoassay (EIA) or polymerase chain reaction. Ideally, the clinical diagnostic laboratory should culture simultaneously for STEC O157 (e.g., on sorbitol MacConkey agar). Simultaneous culture facilitates rapid diagnosis and treatment of patients with STEC O157 infection and rapid subtyping by public health laboratories; such rapid action is most important when the index of clinical suspicion for STEC O157 is high.
- Clinical diagnostic laboratories that use an Stx EIA but do not perform simultaneous culture for STEC O157 should culture all Stx-positive broths for STEC O157 as soon as possible and rapidly forward these isolates to a state or local public health laboratory for confirmation and subtyping.
- When an Stx-positive broth does not yield STEC O157, the broth culture should be quickly forwarded to the state or local public health laboratory for identification of non-O157 STEC.
- State and local public health laboratories should confirm the presence of Stx in broths sent from clinical laboratories and should attempt to obtain an STEC isolate.
   All non-O157 STEC isolates should be sent by public health laboratories to CDC for confirmation and further characterization.
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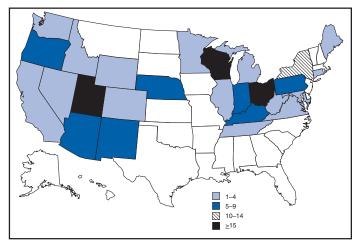
## Ongoing Multistate Outbreak of Escherichia coli serotype O157:H7 Infections Associated with Consumption of Fresh Spinach — United States, September 2006

On September 26, this report was posted as an MMWR Dispatch on the MMWR website (http://www.cdc.gov/mmwr).

On September 13, 2006, CDC officials were alerted by epidemiologists in Wisconsin and Oregon that fresh spinach was the suspected source of small clusters of Escherichia coli serotype O157:H7 infections in those states. On the same day, New Mexico epidemiologists contacted Wisconsin and Oregon epidemiologists about a cluster of E. coli O157:H7 infections in New Mexico associated with fresh spinach consumption. Wisconsin public health officials had first reported a cluster of E. coli O157:H7 infections to CDC on September 8. On September 12, CDC PulseNet had confirmed that the E. coli O157:H7 strains from infected patients in Wisconsin had matching pulsed-field gel electrophoresis (PFGE) patterns and identified the same pattern in patient isolates from other states. This report describes the joint investigation and outbreak-control measures undertaken by state public health officials, CDC, and the Food and Drug Administration (FDA). This investigation and additional case finding are ongoing.

As of September 26, a total of 183 persons infected with the outbreak strain of *E. coli* O157:H7 had been reported to CDC from 26 states (Figure 1). Among the ill persons, 95 (52%) were hospitalized, 29 (16%) had hemolytic uremic syndrome (HUS), and one person died. The deaths of two other patients possibly related to this outbreak are under

FIGURE 1. Number of confirmed cases (N = 183)\* of *Escherichia coli* serotype O157:H7 infection, by state — United States, September 2006



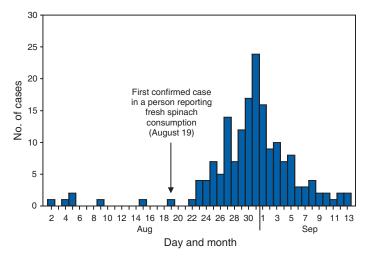
<sup>\*</sup> Confirmed cases reported as of 1:00 p.m. EDT on September 26, 2006.

investigation. Eighty-five percent of patients reported illness onset from August 19 to September 5 (Figure 2). Fresh spinach was identified as the source of the outbreak. One hundred twenty-three of 130 patients (95%) reported consuming uncooked fresh spinach during the 10 days before illness onset. In addition, *E. coli* O157:H7 with a PFGE pattern matching the outbreak strain has been isolated from three open packages of fresh spinach consumed by patients (one from New Mexico, one from Utah, and one from Pennsylvania).

On September 14, FDA advised consumers by press release and press conference to not eat bagged fresh spinach. On September 15, a California company that bags spinach under several brand names announced a voluntary recall of all fresh spinach-containing products. On September 16, FDA expanded its warning and advised consumers to not eat fresh spinach or fresh spinach-containing products. On September 21, FDA informed consumers that only spinach grown in three California counties (Monterey, San Benito, and Santa Clara) was implicated in the outbreak.

A confirmed case is defined as a culture-confirmed *E. coli* O157:H7 infection in a person residing in the United States, with illness onset from August 1 to the present (or, if date of onset is unknown, *E. coli* O157:H7 isolated from August 15 to the present) and a PFGE pattern identified by the *XbaI* restriction enzyme that matches the pattern of the outbreak strain. August 1 was selected as the earliest illness onset date in the case definition to ensure that the earliest cases in the outbreak were identified and investigated. However, the first six confirmed cases (with illness onsets during August 2–15) were in persons who did not report fresh spinach consumption during the week before illness onset. The first date that

FIGURE 2. Number of confirmed cases (n = 171)\* of *Escherichia coli* serotype O157:H7 infection, by date of illness onset — United States, August–September 2006



<sup>\*</sup> Confirmed cases with known dates of illness onset reported as of 1:00 p.m. EDT on September 26, 2006.

illness onset was reported by a person who recently consumed fresh spinach was August 19.

Infections with this outbreak strain of *E. coli* O157:H7 (one of 3,520 unique *E. coli* O157:H7 strains reported to CDC PulseNet since 1996) have been reported sporadically to CDC PulseNet since 2003 (an average of 21 cases per year during 2003–2005). This finding suggests the occasional presence of this strain in the environment and food supply; however, it has not been associated with a recognized outbreak in the past.

The time from illness onset to confirmation that a case of *E. coli* O157:H7 is part of an outbreak is typically 2–3 weeks, including the time required for an infected person to seek medical care and for health-care providers and public health officials to obtain a culture, transfer the bacterial culture to a public health laboratory, perform PFGE testing, and submit the PFGE pattern into the national database at CDC. In this outbreak, the average time from illness onset to PFGE pattern submission to the national database at CDC has been 15 days; additional information is available at http://www.cdc.gov/foodborne/ecolispinach/reportingtimeline.htm.

Parallel laboratory and epidemiologic investigations were crucial in identifying the source of this outbreak. Timely PFGE testing by state public health laboratories, PFGE pattern submission by states to CDC PulseNet, and analysis of PFGE patterns in the CDC PulseNet national database resulted in rapid detection of the outbreak. Concurrent collection of case exposure information by epidemiologists in affected states and sharing of exposure information among states and CDC led to rapid identification of the suspected food source and public health action. Continued rapid diagnosis, culture, PFGE analysis, and reporting to CDC of *E. coli* O157:H7 infections are needed to aid this investigation and to detect and investigate *E. coli* O157:H7 outbreaks in the future.

New information regarding the current E. coli O157:H7 outbreak will be available regularly. The most current information is available online at http://www.cdc.gov/foodborne/ ecolispinach; this website contains information updated daily on the number of cases and affected states in addition to general information regarding E. coli O157:H7, resources for clinicians, and activities by CDC and other agencies. The FDA website, at http://www.fda.gov/oc/opacom/hottopics/spinach. html, contains advice for consumers on the current outbreak and food-safety guidelines. CDC's public inquiry line (telephone, 1-800-CDC-INFO) also can provide information on the current outbreak to both the public and health-care workers. Information about the current E. coli O157:H7 outbreak is also available by RSS (Really Simple Syndication); a subscription to the E. coli O157:H7 outbreak RSS information can be obtained at http://www.bt.cdc.gov/rss.

**Reported by:** State and local health departments. E. coli O157:H7 investigation team, CDC.

#### Notice to Readers

# The CDC Experience Application Deadline — December 4, 2006

The CDC Experience is a 1-year fellowship in applied epidemiology that is tailored for rising third- and fourth-year medical students and aims to develop a pool of physicians with a population health perspective. Eight competitively selected fellows spend 10–12 months at CDC in Atlanta, Georgia, where they conduct epidemiologic analyses in areas of public health that interest them. The fellowship environment provides multiple opportunities to enhance skills in research and analytic thinking, written and oral scientific presentations, and the practices of preventive medicine and public health.

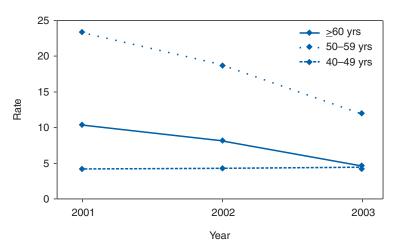
Applicants do not need experience in public health to apply for this program. Through this training, fellows will acquire practical tools useful for approaching population-based health problems, whether in an entire community or among their own community of patients. Graduates of The CDC Experience have an appreciation of the role of epidemiology in medicine and health and are able to apply their knowledge and skills to enhance their clinical acumen and help improve the quality of the U.S. health-care system.

Information on applying for The CDC Experience is available at http://www.cdcfoundation.org/thecdcexperience. Applications for The CDC Experience fellowship class of 2006–07 must be postmarked by December 4, 2006. Questions can be addressed to Catherine Piper, program coordinator, at e-mail, cpiper@cdc.gov.

# **QuickStats**

#### FROM THE NATIONAL CENTER FOR HEALTH STATISTICS

Annual Rate of Visits\* to Office-Based Physicians and Hospital Outpatient Departments During Which Combination Estrogen-Progestin Hormone Therapy Was Prescribed for Women Aged ≥40 years, by Age Group — United States, 2001–2003



\* Per 100 women in age group.

From 2001 to 2003, the overall rate of visits to physicians during which combination estrogen-progestin hormone therapy was prescribed decreased by 44%. The decline was greatest among women aged ≥50 years. In July 2002, the National Institutes of Health terminated a clinical trial of combined hormone therapy (a component of the Women's Health Initiative) after investigators determined that the associated health risks outweighed the benefits.

**SOURCE:** Hing E, Brett K. Changes in U.S. prescribing patterns of menopausal hormone replacement therapy, 2001–2003. Obstet Gynecol 2006;108:33–40.

TABLE I. Provisional cases of infrequently reported notifiable diseases (<1,000 cases reported during the preceding year) — United States, week ending September 23, 2006 (38th Week)\*

	Current	Cum	5-year weekly	Total o	cases rep	orted for	r previou	s vears	
Disease	week	2006	average <sup>†</sup>	2005	2004	2003	2002	2001	States reporting cases during current week (No.
Anthrax		1	0				2	23	
Botulism:									
foodborne	1	4	0	19	16	20	28	39	AK (1)
infant	2	61	2	90	87	76	69	97	OH (1), WA (1)
other (wound & unspecified)	1	41	1	33	30	33	21	19	CA (1)
Brucellosis		72	2	122	114	104	125	136	5/1(1)
Chancroid	_	23	1	17	30	54	67	38	
Cholera	_	6	0	8	5	2	2	3	
Cyclosporiasis§	1	89	2	734	171	75	156	147	PA (1)
Diphtheria		_	_	_		1	1	2	(.)
Domestic arboviral diseases <sup>§,¶</sup> :							•	_	
California serogroup	_	25	8	80	112	108	164	128	
eastern equine	_	4	0	21	6	14	10	9	
Powassan		1	_	1	1		1	N	
St. Louis		2		13	12	41	28	79	
western equine		_	_	_		-	_	<i>19</i>	
	_	_	_	_	_	_	_	_	
Ehrlichiosis§:	OF	071	44	700	E07	000	E44	061	NIV (1) MNI (02) CA (1)
human granulocytic	25	271	11	790	537	362	511	261	NY (1), MN (23), CA (1)
human monocytic	7	258	9	522	338	321	216	142	NY (1), MN (6)
human (other & unspecified)	1	117	1	122	59	44	23	6	MO (1)
Haemophilus influenzae,**									
invasive disease (age <5 yrs):		_	_	_					
serotype b	_	6	0	9	19	32	34	_	
nonserotype b	2	65	2	135	135	117	144	_	OH (1), NC (1)
unknown serotype	1	152	2	217	177	227	153	_	GA (1)
Hansen disease <sup>§</sup>	3	49	1	88	105	95	96	79	CA (3)
Hantavirus pulmonary syndrome§	_	24	0	29	24	26	19	8	
Hemolytic uremic syndrome, postdiarrheal§	11	158	5	221	200	178	216	202	NY (3), OH (4), MN (1), AZ (1), OR (1), CA (1)
Hepatitis C viral, acute	4	550	33	771	713	1,102	1,835	3,976	MN (2), MO (2)
HIV infection, pediatric (age <13 yrs)§,††	_	52	4	380	436	504	420	543	
Influenza-associated pediatric mortality <sup>§,§§,¶¶</sup>	1	42	0	49	_	N	N	N	CA (1)
Listeriosis	8	447	19	892	753	696	665	613	NY (2), MO (1), GA (3), FL (1), AL (1)
Measles	***	43	1	66	37	56	44	116	
Meningococcal disease,††† invasive:									
A, C, Y, & W-135	_	162	3	297	_	_	_	_	
serogroup B	1	107	1	157	_	_	_	_	FL (1)
other serogroup	_	14	0	27	_	_	_	_	. ,
Mumps	27	5,712	4	314	258	231	270	266	NY (2), MO (1), KS (5), NC (9), FL (1), OK (4),
•									AZ (2), OR (1), CA (2)
Plague	_	12	0	8	3	1	2	2	
Poliomyelitis, paralytic	_	_	0	1	_	_	_	_	
Psittacosis§	_	17	0	19	12	12	18	25	
Q fever§	_	104	2	139	70	71	61	26	
Rabies, human	_	1	0	2	7	2	3	1	
Rubella	_	6	Ö	11	10	7	18	23	
Rubella, congenital syndrome	_	1	_	1	_	1	1	3	
SARS-CoV <sup>§,§§</sup>	_		_		_	8	Ň	Ň	
Smallpox§			_			_	_	- 14	
Streptococcal toxic-shock syndrome§	1	78	1	129	132	161	118	77	NC (1)
Streptococcus pneumoniae,§	'	70	'	123	132	101	110	//	140 (1)
	7	755	0	1.057	1 100	0.45	513	400	OLL (0) MNL (1) OK (0) A7 (1)
invasive disease (age <5 yrs)		755	8	1,257	1,162	845		498	OH (2), MN (1), OK (3), AZ (1)
Syphilis, congenital (age <1 yr)	2	184	9	361	353	413	412	441	TX (2)
Tetanus	- 3/1	17	0	27	34	20	25	37	
Toxic-shock syndrome (other than streptococca	al)§ —	67	2	96	95	133	109	127	
Trichinellosis	_	11	0	19	5	6	14	22	
Tularemia§	_	61	3	154	134	129	90	129	
Typhoid fever	2	196	10	324	322	356	321	368	MN (1), CA (1)
Vancomycin-intermediate Staphylococcus aure	us§ —	2	0	2	_	N	N	N	
Vancomycin-resistant Staphylococcus aureus§	_	_	_	3	1	N	N	N	
Yellow fever		_	_		_	_	1	_	

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

Incidence data for reporting years 2005 and 2006 are provisional, whereas data for 2001, 2002, 2003, and 2004 are finalized.

<sup>†</sup> Calculated by summing the incidence counts for the current week, the two weeks preceding the current week, and the two weeks following the current week, for a total of 5 preceding years. Additional information is available at http://www.cdc.gov/epo/dphsi/phs/files/5yearweeklyaverage.pdf. § Not notifiable in all states.

<sup>1</sup> Includes both neuroinvasive and non-neuroinvasive. Updated weekly from reports to the Division of Vector-Borne Infectious Diseases, National Center for Zoonotic, Vector-Borne, and Enteric Diseases (proposed) (ArboNET Surveillance).

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 (proposed)). Implementation of HIV reporting influences the number of cases reported. Data for HIV/AIDS are available in Table IV quarterly.

Updated weekly from reports to the Influenza Division, National Center for Immunization and Respiratory Diseases (proposed).

A total of 47 cases were reported since the beginning of the 2005-06 flu season (October 2, 2005 [week 40]).

No measles cases were reported for the current week.

<sup>†††</sup> Data for meningococcal disease (all serogroups and unknown serogroups) are available in Table II.

TABLE II. Provisional cases of selected notifiable diseases, United States, weeks ending September 23, 2006, and September 24, 2005 (38th Week)\*

(38th Week)*			Chlomic	lie†			Casala	lla lala morr				C		liania	
		Pre	Chlamyd vious	ııa <sup>,</sup>				lioidomy ious	cosis				tosporio /ious	liosis	
Reporting area	Current week		veeks Max	Cum 2006	Cum 2005	Current week		eeks Max	Cum 2006	Cum 2005	Current week		veeks Max	Cum 2006	Cum 2005
United States	11,657	18,872	35,170	684,828	699,017	122	149	1,643	6,118	3,029	109	68	594	3,032	4,996
New England Connecticut Maine <sup>§</sup> Massachusetts New Hampshire Rhode Island Vermont <sup>§</sup>	669 254 38 311 39 13	621 165 43 293 36 60 19	1,550 1,214 74 447 65 95 43	23,240 6,613 1,607 10,681 1,401 2,144 794	23,681 7,109 1,588 10,455 1,358 2,462 709	N   N  -  -   N	0 0 0 0 0	0 0 0 0 0	N N - - N	N N — —	1 - - 1 -	4 0 0 2 1 0	35 24 3 15 4 6 5	207 24 25 88 30 6 34	258 54 22 120 26 7 29
Mid. Atlantic New Jersey New York (Upstate) New York City Pennsylvania	1,641 100 623 344 574	2,394 376 499 759 732	3,696 509 1,727 1,570 1,075	86,852 13,590 17,322 27,533 28,407	85,489 14,016 16,966 27,433 27,074	N N N N	0 0 0 0	0 0 0 0	N N N N	N N N N	11 - 9 - 2	10 0 3 2 5	444 3 441 10 21	373 9 124 47 193	1,974 47 1,635 105 187
E.N. Central Illinois Indiana Michigan Ohio Wisconsin	1,763 488 347 758 91 79	3,122 968 395 631 703 399	12,578 1,687 510 9,888 1,446 531	114,609 36,567 14,354 24,890 24,572 14,226	117,634 36,520 14,693 19,499 32,213 14,709	1 N 1 N	1 0 0 0 0	3 0 0 3 1 0	36 — N 32 4 N	8 N 8 - N	23 — 2 3 17 1	16 2 1 2 5 5	122 9 9 7 92 43	745 72 44 90 260 279	1,133 124 51 84 482 392
W.N. Central lowa Kansas Minnesota Missouri Nebraska <sup>§</sup> North Dakota South Dakota	284 — 122 — — 111 — 51	1,152 154 155 230 436 94 32 52	1,457 225 269 346 567 176 58 117	41,686 5,730 5,443 7,673 15,924 3,887 1,100 1,929	43,074 5,197 5,384 9,020 16,523 3,756 1,157 2,037	1 N N — 1 N N	0 0 0 0 0 0	12 0 0 12 0 1 0	1 N N 1 N N N	4 N 3 1 N N	16 2 1 10 3 	11 1 1 2 2 1 0	60 27 7 22 11 16 4 7	538 137 58 136 94 56 7 50	474 101 32 92 209 17 — 23
S. Atlantic Delaware District of Columbia Florida Georgia Maryland <sup>§</sup> North Carolina South Carolina <sup>§</sup> Virginia <sup>§</sup> West Virginia	2,892 64 — 877 19 380 533 359 636 24	3,393 70 53 930 624 331 562 295 423 58	4,926 92 103 1,113 2,142 486 1,772 1,306 840 226	130,178 2,589 1,725 35,322 21,203 12,747 24,036 12,991 17,241 2,324	129,938 2,423 2,791 31,810 22,981 13,497 23,831 13,217 17,445 1,943	N	0 0 0 0 0 0 0	1 0 0 0 0 1 0 0	3 N N N N N N N	1 N N 	32 — 24 8 — — —	14 0 0 6 3 0 1 1 1	54 3 32 9 3 10 13 8 3	627 10 12 304 138 12 60 52 32 7	484 3 9 213 102 23 57 16 49 12
E.S. Central Alabama <sup>§</sup> Kentucky Mississippi Tennessee <sup>§</sup>	635 38 25 — 572	1,419 387 160 382 494	1,943 756 402 801 598	53,176 14,861 6,399 13,441 18,475	50,777 11,313 6,657 15,762 17,045	N N N	0 0 0 0	0 0 0 0	N N — N	N N - N	6 6 —	3 1 1 0 1	20 6 19 1 5	115 48 29 9 29	148 19 95 1 33
W.S. Central Arkansas Louisiana Oklahoma Texas <sup>§</sup>	1,623 202 — 413 1,008	2,147 158 254 226 1,399	3,605 333 761 2,159 1,774	78,090 5,894 9,692 8,659 53,845	81,352 6,319 12,944 8,201 53,888	  N N	0 0 0 0	1 0 1 0 0	  N N	 N N N	5 1 - 4	4 0 0 1 2	24 2 14 2 19	122 16 9 29 68	164 4 65 34 61
Mountain Arizona Colorado Idaho <sup>§</sup> Montana Nevada <sup>§</sup> New Mexico <sup>§</sup> Utah Wyoming	368 232 — 6 54 — — 67 9	1,026 359 165 51 43 84 166 94 27	1,839 642 482 159 195 432 339 136 55	35,127 12,766 4,282 1,967 1,825 2,955 6,809 3,547 976	46,087 15,887 11,036 1,844 1,682 5,303 6,275 3,248 812	81 81 N N N —	116 113 0 0 0 0 0	452 448 0 0 0 4 3 3	4,301 4,232 N N N 21 10 36 2	1,955 1,878 N N N 47 16 11	14 1 - 11 - - - 2	2 0 1 0 0 0 0	37 2 7 5 26 1 3 3	251 19 49 19 100 3 12 13 36	107 9 35 13 16 11 10 11 2
Pacific Alaska California Hawaii Oregon <sup>§</sup> Washington	1,782 74 1,368 — 138 202	3,300 85 2,575 103 177 354	5,079 152 4,231 135 315 604	121,870 3,077 96,054 3,672 6,362 12,705	120,985 3,083 93,904 4,022 6,421 13,555	39 — 39 N N	42 0 42 0 0	1,179 0 1,179 0 0	1,777 — 1,777 N N N	1,061 — 1,061 N N	1 - - 1	2 0 0 0 1	52 2 14 1 6 38	54 4  3 47 	254 3 144 1 59 47
American Samoa C.N.M.I. Guam Puerto Rico U.S. Virgin Islands	U U — —	0 0 18 77 5	46 0 37 161 16	U U 2,945 178	U 594 3,053 191	U U N	0 0 0 0	0 0 0 0	U U N	U U N	U U N	0 0 0 0	0 0 0 0	U     N 	U U N

Cum: Cumulative year-to-date counts.

Med: Median. Max: Maximum.

C.N.M.I.: Commonwealth of Northern Mariana Islands.
U: Unavailable. —: No reported cases. N: Not notifiable. Cum: Cumulative year-to-one in the common state of the co

TABLE II. (*Continued*) Provisional cases of selected notifiable diseases, United States, weeks ending September 23, 2006, and September 24, 2005 (38th Week)\*

			Giardiasi	is			G	onorrhe	a		Hae		<i>s influen</i> es, all se	<i>zae</i> , inva rotypes	sive
	Current	Prev 52 w		Cum	Cum	Current		vious veeks	Cum	Cum	Current		vious veeks	Cum	Cum
Reporting area	week	Med	Max	2006	2005	week	Med	Max	2006	2005	week	Med	Max	2006	2005
United States	227	312	1,029	11,343	13,559	3,912	6,494	14,136	236,035	239,539	14	38	142	1,490	1,709
New England Connecticut	15 6	24 0	75 37	904 214	1,237 262	123 67	104 40	288 241	3,963 1,563	4,332 1,875	_	3 0	19 9	124 37	129 38
Maine <sup>†</sup>	2	2	13	118	158	5	2	6	92	100	_	0	4	17	8
Massachusetts New Hampshire	1	10 0	25 9	357 23	553 47	40 —	46 4	86 9	1,775 142	1,870 123	_	1 0	7 2	52 6	63 7
Rhode Island Vermont <sup>†</sup>	6	0 3	25 9	78 114	86 131	11	8 1	19 3	345 46	324 40	_	0 0	7 2	4 8	7 6
Mid. Atlantic	44	53	254	1,927	2,439	480	608	1,014	22,131	24,465	3	7	30	288	319
New Jersey New York (Upstate)	32	7 24	15 227	206 834	327 832	35 186	103 123	143 455	3,589 4,552	4,160 4,875	1	2 2	4 27	45 98	61 95
New York City Pennsylvania	2 10	8 15	32 29	348 539	657 623	105 154	161 212	357 393	5,983 8,007	7,296 8,134	1 1	1 3	4 8	32 113	58 105
E.N. Central	24	49	110	1,715	2,437	795	1,284	7,047	46,748	47,768	3	5	14	214	299
Illinois Indiana	N	10 0	25 0	317 N	577 N	151 150	376 165	709 237	13,978 6,418	14,366 5,935	1	1 1	6 11	47 64	101 54
Michigan Ohio	5 19	13 16	24 32	459 577	593 556	441 35	252 331	5,880 648	10,443 11,130	8,029 15,262		0 1	3 6	17 63	18 93
Wisconsin	—	10	40	362	711	18	130	172	4,779	4,176	_	0	4	23	33
W.N. Central Iowa	15 5	28 5	260 14	1,304 207	1,487 201	65 —	362 34	436 46	13,141 1,199	13,658 1,157	2	2	15 1	100 1	85
Kansas	1	4	11	148	145	38	46	124	1,519	1,917	_	0	3	14	9
Minnesota Missouri	9	2 9	238 32	477 334	610 334	_	62 189	105 251	1,972 7,100	2,512 6,889	2	0 0	9 6	51 24	37 26
Nebraska† North Dakota	_	2	8 7	74 11	96 11	23	23 2	56 7	1,003 69	851 72	_	0	2	6 4	12 1
South Dakota	_	1	7	53	90	4	6	15	279	260	_	Ő	Ö	<u>.</u>	_
<b>S. Atlantic</b> Delaware	33	49 1	95 4	1,723 30	1,983 43	1,054 34	1,503 26	2,334 44	57,588 1,075	56,502 619	6	10 0	26 1	397 1	403
District of Columbia	_	1	5	50	40	_	34	61	1,138	1,521	_	Ö	1	3	7
Florida Georgia	21 12	18 10	39 44	752 368	697 528	365 12	433 305	553 1,014	16,788 10,217	14,519 10,679	1 3	3 2	9 12	129 79	99 87
Maryland† North Carolina	N	4 0	11 0	141 N	146 N	125 123	128 283	186 766	4,810 12,193	5,062 11,428		1 0	5 9	50 46	53 65
South Carolina† Virginia†	_	1 7	7 50	65 300	86 411	141 236	128 130	748 288	5,839 4,840	5,898 6,272	_	1	3	25 48	26 43
West Virginia	_	ó	5	17	32	18	17	42	688	504	_	Ö	4	16	23
E.S. Central Alabama†	4	8 4	40 29	318 165	301 135	252 20	572 183	859 310	21,520 6,901	20,096 6,518	_	2	7 5	78 20	91 17
Kentucky	N	0	0	N	N	5	55	132	2,288	2,248	_	0	1	4	10
Mississippi Tennessee <sup>†</sup>	_	0 4	0 12	153	166	227	141 187	435 236	5,222 7,109	5,106 6,224	_	0 1	1 4	3 51	64
W.S. Central	5	6	31	185	227	568	878	1,430	33,585	33,152	_	1	15	47	93
Arkansas Louisiana	3 1	2 0	6 4	82 13	63 45	78 —	78 158	142 354	2,956 5,941	3,318 7,164	_	0 0	2 2	7 4	7 32
Oklahoma Texas†	1 N	2	24 0	90 N	119 N	139 351	78 548	764 820	3,252 21,436	3,295 19,375	_	1 0	14 2	34 2	49 5
Mountain	25	30	55	1,103	1,050	147	216	552	7,872	9,933	_	4	8	153	174
Arizona Colorado	2	3 9	36 33	112 371	98 374	131	90 46	201 90	3,236 1,462	3,603 2,333	_	1 1	7 4	72 41	89 35
Idaho† Montana	<u> </u>	3 2	11 11	116 76	100 54	1 4	2	10 20	113 145	77 113	_	0	1 0	3	4
Nevada <sup>†</sup>	_	1	6	38	77	_	24	194	985	2,089	_	0	1	_	13
New Mexico† Utah	2 15	1 7	6 19	44 319	60 269	10	30 17	64 24	1,242 603	1,165 499	_	0 0	4 4	19 15	20 7
Wyoming	_	1	4	27	18	1	2	6	86	54	_	0	2	3	6
<b>Pacific</b> Alaska	62 6	59 1	202 7	2,164 56	2,398 78	428 13	808 11	963 23	29,487 429	29,633 424	_	2 0	20 19	89 9	116 25
California Hawaii	33	43 1	105 3	1,551 37	1,706 49	337	662 18	830 29	24,362 667	24,671 750	_	0	9 1	21 13	47 8
Oregon <sup>†</sup> Washington	6 17	7 6	15 90	286 234	315 250	37 41	28 75	58 142	979 3,050	1,110 2,678	_	1	6 4	44	36
American Samoa	U	0	0	234 U	250 U	41 U	0	2	3,030 U	2,676 U	U	0	0	U	U
C.N.M.I. Guam	Ŭ	0	0	Ŭ	Ŭ 11	Ü	0	0 15	Ŭ	Ŭ 71	Ü	0	0 2	Ŭ	U
Puerto Rico	_	2	20	52	199	_	5	16	188	281	1	0	1	1	6 3
U.S. Virgin Islands	_	0	0	_	_	_	0	5	30	45	_	0	0	_	_

Cum: Cumulative year-to-date counts.

Med: Median.

Max: Maximum.

C.N.M.I.: Commonwealth of Northern Mariana Islands.
U: Unavailable. —: No reported cases. N: Not notifiable. Cum: Cumulative year-to\* Incidence data for reporting years 2005 and 2006 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 September 23, 2006, and September 24, 2005 (38th Week)\*

				Нер	atitis (viral	, acute), by	type					1.	egionello	eie	
		Prev	A /ious				Previ	B ous					vious	SIS	
Reporting area	Current week		veeks Max	Cum 2006	Cum 2005	Current week		eks Max	<b>Cum 2006</b>	Cum 2005	Current week		veeks Max	Cum 2006	Cum 2005
United States	39	71	245	2,335	3,020	27	193	597	7,510	3,814	38	42	127	1,492	1,465
New England	2	3	20	140	351	_	1	9	46	112	10	2	12	80	100
Connecticut Maine <sup>†</sup>	2	1 0	3 2	33 6	41 3	_	0	3 2	 13	37 12	6	0	8 2	25 7	22 5
Massachusetts	_	1 0	13 16	51 35	218 74	_	0	5 2	14 11	37 21	_	1 0	6 1	27 1	45 7
New Hampshire Rhode Island	_	0	4	8	10	_	0	4	8	1	4	0	10	16	16
Vermont <sup>†</sup>	_	0	2	7	5	_	0	1	_	4	_	0	3	4	5
Mid. Atlantic New Jersey	6	7 2	20 7	229 55	496 104	1	118 2	199 10	5,002 75	500 191	15	13 1	43 10	491 60	498 90
New York (Úpstate)	3	1	14	63	76	_	1	43	47	39	9	5	29	203	124
New York City Pennsylvania	3	2 1	10 5	64 47	235 81	1	113 3	192 9	4,767 113	103 167	6	1 4	9 17	30 198	76 208
E.N. Central	2	6	12	201	265	4	7	24	267	416	7	9	25	323	303
Illinois Indiana	_ 1	1 0	4 5	40 21	96 13	3	1 0	6 17	24 42	117 28	_	1 0	4 6	21 22	44 20
Michigan	1	2	8	73	84	_	3	7	101	136	_	2	7	82	85
Ohio Wisconsin	_	1 1	4 5	44 23	39 33	1	2 0	10 4	94 6	101 34	7	4 0	19 5	165 33	129 25
W.N. Central	_	2	30	93	69	2	4	22	117	203	_	1	15	48	59
Iowa Kansas	_	0 0	2 5	8 24	18 13	_	0	3 2	13 8	20 24	_	0	3 2	9	4
Minnesota	_	0	29	9	3	1	0	13	17	27	_	Ō	11	11	16
Missouri Nebraska <sup>†</sup>	_	1 0	3 3	33 12	27 8	1	2 0	7 1	69 10	106 21	_	0	3 2	16 5	23 2
North Dakota	_	0	2	_	_	_	0	0	_	_	_	0	1	_	2
South Dakota S. Atlantic	— 16	0 11	3 30	7 395	— 531	9	0 23	1 66	837	5 1,037	3	0 8	6 19	4 299	10 290
Delaware	<del>-</del>	0	2	10	5	_	1	4	34	23	_	0	2	8	13
District of Columbia Florida	_ 11	0 4	2 14	5 157	2 214		0 8	2 19	5 301	10 357	_ 2	0 3	5 9	16 125	8 79
Georgia	_	1	7	51	102	1	3	7	124	159	1	0	4	13	23
Maryland† North Carolina		1 0	6 20	45 67	52 64	_	3 0	10 23	120 116	112 118	_	1 0	5 5	53 28	86 23
South Carolina† Virginia†	_	0 1	2 11	15 40	30 59	_	2 1	7 18	55 38	121 110	_	0 1	1 7	2 46	11 33
West Virginia	_	Ó	3	5	3	1	Ó	18	44	27	_	Ó	3	8	14
E.S. Central	_	2	8	91	211	_	6	14	232	268	_	1	9	56	59
Alabama† Kentucky	_	0 0	4 5	12 29	39 22	_	2 1	8 5	75 50	60 52	_	0 0	2 4	7 17	11 19
Mississippi Tennessee <sup>†</sup>	_	0 1	1 5	5 45	16 134	_	0 2	3 8	10 97	44 112	_	0 1	1 7	1 31	3 26
W.S. Central	1	4	77	132	331	_	14	315	480	433		1	32	43	32
Arkansas		0	9	33	16	_	1	4	33	51	_	0	3	3	5
Louisiana Oklahoma	_ 1	0 0	4 2	12 5	53 4		0	3 17	15 30	61 31	_	0	2	4 1	1 6
Texas <sup>†</sup>	_	3	73	82	258	_	12	295	402	290	_	0	26	35	20
Mountain Arizona	1 1	5 2	18 16	190 107	227 114	_	4 1	39 23	123 32	397 256	2 2	2	7 4	86 32	74 16
Colorado		1	4	32	33	_	1	5	28	41	_	0	2	16	17
Idaho† Montana	_	0	2	9 9	18 7	_	0	2 7	10	10 3	_	0	2 1	9 5	3 5
Nevada†	_	0	2	7	17	_	0	4 3	14 15	41 14	_	0	2	3	16
New Mexico <sup>†</sup> Utah	_	0	2	12 11	19 18	_	0	5	15 24	30	_	0	1 1	4 17	3 10
Wyoming	_	0	1	3	1	_	0	1	_	2	_	0	0	_	4
Pacific Alaska	11 —	20 0	163 1	864	539 4	9 1	9	61 1	406 4	448 7	1	2	9 1	66 —	50
California	10	16	162	783	447	7	7	41	312	299	1	2	9	66	48
Hawaii Oregon <sup>†</sup>	_	0 1	2 5	8 37	21 34	_	0 1	1 5	5 52	6 81	N	0 0	1 0	N	2 N
Washington	1	1	13	36	33	1	0	18	33	55	_	0	0	_	_
American Samoa C.N.M.I.	U U	0 0	0	U U	1 U	U U	0	0	U U	_ U	U	0	0	U U	U
Guam	_	0	0	_	2	_	0	Ō	_	18	_	Ō	Ö	_	_
Puerto Rico U.S. Virgin Islands	_	0	5 0	21	56 —	_	1 0	8 0	24	36 —	_	0	1 0	1	_

C.N.M.I.: Commonwealth of Northern Mariana Islands. U: Unavailable. —: No reported cases. N: No

Cum: Cumulative year-to-date counts.

Med: Median.

Max: Maximum.

U: Unavailable. —: No reported cases. N: Not notifiable. Cum: Cumulative year-to† Incidence data for reporting years 2005 and 2006 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 September 23, 2006, and September 24, 2005 (38th Week)\*

(38th Week)*			Lyme dis	ease				Malaria	1		
		Pre	vious				Prev	ious			
	Current		/eeks	Cum	Cum	Current		eeks	Cum	Cum	
Reporting area	week	Med	Max	2006	2005	week	Med	Max	2006	2005	
United States	441	248	2,153	12,279	17,002	18	24	125	863	1,044	
New England Connecticut	73 72	37 10	780 753	2,073 1,475	3,002 490	_	1 0	11 5	44 11	55 11	
Maine†	_	2	34	132	205	_	0	1	4	5	
Massachusetts New Hampshire	1	2 5	37 50	33 371	2,064 178	_	0 0	3 3	19 9	31 5	
Rhode Island	_	0	5	1	27	_	0	8	_	2	
Vermont†		1	9	61	38	_	0 4	1	1	1 284	
Mid. Atlantic New Jersey	181	153 25	1,176 165	7,118 1,578	9,862 3,036	8 —	1	13 3	151 28	284 68	
New York (Upstate)	164	74	1,150	3,035	2,859	7	1	11	33	37	
New York City Pennsylvania	 17	1 40	15 217	14 2,491	330 3,637	1	2 1	8 3	60 30	151 28	
E.N. Central	1	11	123	1,049	1,568	1	2	7	91	113	
Illinois Indiana	_	0 0	2	16	118 24	_ 1	1 0	4 3	38 9	63 4	
Michigan	_	1	6	36	45		0	2	15	19	
Ohio Wisconsin	1	1 9	6 118	37 960	48	_	0	3 3	22 7	17 10	
W.N. Central	— 167	9 7	91	960 491	1,333 596	_	0	3 32	32	40	
Iowa	_	1	8	72	82	_	0	1	1	7	
Kansas Minnesota	 167	0 6	2 88	4 398	3 494	_	0	2 30	6 14	5 11	
Missouri	_	0	3	8	12	_	0	1	5	16	
Nebraska† North Dakota	_	0	1 3	8	3	_	0 0	2 1	4 1	1	
South Dakota	_	0	1	1	2	_	0	i	i	_	
S. Atlantic	6	28	103	1,288	1,782	4	6	15	242	227	
Delaware District of Columbia	4	8 0	28 7	384 37	554 8	_	0	1 2	5 3	3 8	
Florida	1	1	5	27	31	3	1	6	46	38	
Georgia Maryland <sup>†</sup>	_	0 14	1 60	2 609	5 948	1	1	6 5	66 51	42 84	
North Carolina	_	0	4	23	42	_	0	8	20	23	
South Carolina† Virginia†	_	0 3	3 25	8 189	18 166	_	0 1	2 9	8 41	7 21	
West Virginia	1	Ő	44	9	10	_	Ö	2	2	1	
E.S. Central	1	0	4	19	30	_	0	3	19	22	
Alabama† Kentucky	1	0	1 2	5 6	1 5	_	0 0	2 2	8 3	4 7	
Mississippi	_	0	0	_	_	_	0	1	3	_	
Tennessee <sup>†</sup>	_	0	2	8	24	_	0	2	5	11	
W.S. Central Arkansas	_	0 0	3 1	10	66 4	_	2 0	31 1	51 1	97 5	
Louisiana	_	0	0	_	3	_	0	1	1	2	
Oklahoma Texas <sup>†</sup>	_	0 0	0 3	10	 59	_	0 1	6 29	7 42	9 81	
Mountain	_	0	4	19	19	_	1	9	51	42	
Arizona Colorado	_	0	4 1	4 4	7	_	0 0	9 2	17 11	10 20	
Idaho†	_	0	1	2	2	_	0	1	1	_	
Montana Nevada <sup>†</sup>	_	0 0	0 1	_ 1	_ 3	_	0	1 1	2 1		
New Mexico†	_	0	1	1	2	_	0	1	3	3	
Utah Wyoming	_	0 0	1 1	6 1	2 3	_	0	2 0	16 —	5 2	
Pacific	12	4	20	212	77	5	4	13	182	164	
Alaska	_	0	1	2	4	1	0	4	23	5	
California Hawaii	12 N	4 0	19 0	200 N	48 N	3	4 0	10 2	123 4	122 14	
Oregon <sup>†</sup>		0	2	7	17	_	0	1	9	9	
Washington	_	0	3	3	8	1	0	5	23	14	
American Samoa C.N.M.I.	U U	0 0	0 0	U U	U U	U U	0	0 0	U U	U U	
Guam Puerto Rico	 N	0	0	N	N	_	0	0	_	3	
U.S. Virgin Islands	N	0	0	N	- N	_	0	0	_	_	

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TABLE II. (*Continued*) Provisional cases of selected notifiable diseases, United States, weeks ending September 23, 2006, and September 24, 2005 (38th Week)\*

				Menii	ngococcal	disease, inv	/asive								
			All serog	roups				<u> </u>	ınknown				Pertus	ssis	
	Current		rious reeks	Cum	Cum	Current	Previ		Cum	Cum	Current		/ious /eeks	Cum	Cum
Reporting area	week	Med	Max	2006	2005	week	Med	Max	2006	2005	week	Med	Max	2006	2005
United States	9	20	85	815	932	8	13	58	532	570	107	267	2,877	9,386	16,401
New England	_	1	3	35	58	_	0	2	25	20	3	29	83	928	984
Connecticut	_	0	2	9	12	_	0	2	2	1	_	1	5	35	50
Maine <sup>†</sup> Massachusetts	_	0 0	1 2	4 15	2 27	_	0	1 2	3 15	2 5	_	1 20	8 43	45 594	35 748
New Hampshire	_	0	2	5	10	_	0	2	5	10	1	2	36	126	50
Rhode Island Vermont <sup>†</sup>	_	0 0	1 1	_	2 5	_	0	0	_		2	0 1	17 14	37 91	29 72
Mid. Atlantic	_	3	14	118	115	_	2	11	88	89	28	33	137	1,287	998
New Jersey	_	0	2	11	26	_	0	2	11	26	_	4	13	145	136
New York (Upstate) New York City	_	1 0	7 6	31 39	31 18	_	0	5 6	5 39	11 18	22	14 1	123 8	575 60	378 81
Pennsylvania	_	1	5	37	40	_	1	5	33	34	6	11	26	507	403
E.N. Central	_	2	11	92	117	_	1	6	63	97	26	41	133	1,322	2,785
Illinois Indiana	_	0 0	4 5	18 19	27 16	_	0	4 1	18 6	27 7	3	8 4	35 75	228 170	646 226
Michigan	_	0	3	17	24	_	0	3	8	15	3	7	23	362	232
Ohio Wisconsin	_	1 0	5 2	35 3	31 19	_	1 0	4 2	28 3	29 19	20	14 5	30 41	430 132	856 825
W.N. Central	_	1	4	43	62	_	0	3	14	27	8	28	552	884	2,590
Iowa	_	0	2	12	15	_	0	1	4	1	_	6	63	203	621
Kansas Minnesota	_	0 0	1 2	1 10	9 11	_	0	1	1 3	9 4	4	8 0	28 485	226 137	281 887
Missouri	_	0	2	13	20	_	0	1	2	10	4	7	42	203	333
Nebraska† North Dakota	_	0 0	2 1	5 1	4	_	0	1 1	3 1	3	_	3 0	9 26	72 26	223 80
South Dakota	_	0	i	i	3	_	0	Ö		_	_	0	4	17	165
S. Atlantic	1	3	14	144	176	_	2	7	57	74	20	20	46	715	1,069
Delaware District of Columbia	_	0 0	1 1	4 1	4 5	_	0	1 1	4 1	4 4	_	0	1 3	3 3	15 7
Florida	1	1	6	57	67	_	0	5	19	25	9	4	8	161	159
Georgia Maryland <sup>†</sup>	_	0 0	2 2	12 11	14 18	_	0	2 1	12 3	14 3	_	0 3	3 9	15 91	41 159
North Carolina	_	0	11	24	28	_	0	3	7	6	11	0	22	152	64
South Carolina†	_	0 0	2 4	15 15	13 21	_	0	1 3	5	8 8	_	3 2	22 27	109 155	307 278
Virginia† West Virginia	_	0	2	5	6	_	0	0	6	2	_	0	9	26	39
E.S. Central	_	1	4	30	45	_	1	4	24	34	_	7	16	255	415
Alabama†	_	0 0	1 2	5 7	5 15	_	0	1 2	4 7	3 15	_	1 2	7 5	54 53	67 123
Kentucky Mississippi	_	0	1	3	5	_	0	1	3	5	_	1	4	35	47
Tennessee <sup>†</sup>	_	0	2	15	20	_	0	2	10	11	_	2	10	113	178
W.S. Central	_	1	23	49	92	_	0	6	21	23	_	16	360	474	1,754
Arkansas Louisiana	_	0 0	3 2	9 4	12 28	_	0	2 1	6 2	3 5	_	1 0	21 3	44 8	235 44
Oklahoma	_	0	4	8	14	_	0	0	_	2	_	0	124	18	1 474
Texas <sup>†</sup>	_	1	16	28	38	_	0	4	13	13	_	13	215	404	1,474
Mountain Arizona	1	1 0	5 3	55 16	76 31	1	0	4 3	27 16	21 10	9 1	62 9	230 177	2,027 399	3,106 776
Colorado	_	0	2	18	15	_	0	1	2	_	_	20	40	621	988
Idaho† Montana	_ 1	0 0	2 1	3 4	4	_ 1	0	2 1	2	3	_	2 2	11 9	63 96	163 541
Nevada <sup>†</sup>	_	0	2	2	11	_	0	0	_	2	_	0	9	39	43
New Mexico <sup>†</sup> Utah	_	0 0	1 1	3 5	5 10	_	0	1 0	1	4 2	 8	2 15	6 39	59 687	149 406
Wyoming	_	Ö	2	4	_	_	Ö	2	4	_	_	1	8	63	40
Pacific	7	5	29	249	191	7	5	25	213	185	13	44	1,334	1,494	2,700
Alaska California	<u> </u>	0 3	1 14	2 154	1 126	<u> </u>	0	1 14	2 154	1 126	2 1	2 26	15 1,136	58 1,033	98 1,240
Hawaii	_	0	1	6	10	_	0	1	6	5		2	4	64	138
Oregon <sup>†</sup> Washington	1	1 0	7 25	59 28	35 19	1	1 0	4 11	40 11	35 18	 10	2 7	8 195	91 248	593 631
American Samoa	U	0	0			U	0	0	U	U	U	0	195	240 U	U
C.N.M.I.	Ü	0	0	_	_	Ü	0	0	Ü	Ü	Ü	0	0	Ü	U
Guam Puerto Rico	_	0	0 1	4	1 6	_	0	0 1	<u> </u>	1 6	_	0	0 1	_ 1	2 5
	_	U	1	4	O	_	0	0	4	O	_	0	0	- 1	5

Cum: Cumulative year-to-date counts.

Med: Median.

Max: Maximum.

C.N.M.I.: Commonwealth of Northern Mariana Islands.
U: Unavailable. —: No reported cases. N: Not notifiable. Cum: Cumulative year-to\* Incidence data for reporting years 2005 and 2006 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 September 23, 2006, and September 24, 2005 (38th Week)\*

(38th Week)*		Ra	ıbies, ani	mal		Roc	ky Mour	ntain spo	tted feve	r		Sa	almonello	osis	
	0	Prev		0		0	Prev		0	0	0		vious	0	0
Reporting area	Current week	52 we	Max	Cum 2006	Cum 2005	Current week	52 we	Max	Cum 2006	Cum 2005	Current week	Med	weeks Max	Cum 2006	Cum 2005
United States	56	109	166	4,224	4,566	11	36	246	1,390	1,270	703	794	2,291	27,787	30,998
New England Connecticut Maine† Massachusetts New Hampshire Rhode Island	10 7 1 —	12 3 1 4 0	26 14 6 17 5	499 146 73 178 37 19	551 150 48 277 12 18	 N  	0 0 0 0 0	2 0 0 1 1 2	2 N 1 1	7 N 5 1	5 -1 -1 1 3	33 0 2 18 2	348 340 10 53 24	1,462 340 86 782 143 69	1,689 363 131 895 141 80
Vermont <sup>†</sup> Mid. Atlantic New Jersey New York (Upstate) New York City Pennsylvania		1 20 0 11 0 8	50 0 22 3 35	46 817 N 402 — 415	46 738 N 409 22 307	= = =	0 1 0 0 0 1	0 6 2 1 1 3	41 7 2 6 26	73 23 1 6 43	75  53 2 20	1 81 14 22 15 29	5 272 39 233 34 67	42 3,113 587 863 512 1,151	79 3,839 766 898 891 1,284
E.N. Central Illinois Indiana Michigan Ohio Wisconsin	5 1  1 3 N	2 0 0 0 0	17 7 2 5 9 0	138 42 11 40 45 N	158 44 10 34 70 N	_ _ _ _	0 0 0 0 0	6 1 1 1 4 1	29 1 5 2 20 1	37 11 — 5 19 2	72 — 30 10 32 —	100 26 12 18 23 15	171 45 67 32 56 26	3,669 854 630 705 903 577	4,374 1,456 456 712 1,001 749
W.N. Central lowa Kansas Minnesota Missouri Nebraska† North Dakota South Dakota	3  2 1  	5 0 1 1 1 0 0	20 7 5 6 4 0 7 4	231 51 61 36 46 — 16 21	272 — 67 59 62 — 28 56	3  2 1  	2 0 0 0 2 0 0	14 1 1 10 5 1	148 4 2 4 117 21 —	136 5 5 2 112 7 —	52 1 4 24 23 —	43 7 7 10 13 4 0 3	107 21 16 60 35 12 46 6	1,807 316 259 491 499 134 19	1,894 312 276 418 583 155 25 125
S. Atlantic Delaware District of Columbia Florida Georgia Maryland† North Carolina South Carolina† Virginia† West Virginia	30 — — — — 12 — 15 3	36 0 0 0 3 7 9 3 11	118 0 0 99 9 13 22 10 27 13	1,517 ————————————————————————————————————	1,645 — 201 204 290 373 170 363 44	2   2  	18 0 0 0 0 1 15 1 2	94 3 1 3 3 4 87 6 13 2	803 18 1 14 22 46 602 22 75 3	643 6 2 12 81 56 356 52 73 5	258 — 126 52 — 71 — 9	206 2 1 95 26 12 32 18 20 2	450 9 7 228 98 30 130 51 55 19	7,365 107 43 3,169 1,135 480 1,090 572 678 91	8,453 99 43 3,209 1,327 606 1,116 1,066 863 124
E.S. Central Alabama† Kentucky Mississippi Tennessee†	2 2 — —	4 1 0 0 2	16 7 5 2 9	185 60 20 4 101	119 64 11 5 39	3 3 — —	5 1 0 0 3	25 7 1 1 18	228 74 1 2 151	229 62 3 13 151	12 12 — —	52 14 8 11 14	148 70 21 47 31	1,886 651 297 435 503	2,130 511 362 647 610
W.S. Central Arkansas Louisiana Oklahoma Texas†	1 - 1 -	14 0 0 1 12	34 4 0 9 29	547 24 — 52 471	702 26 — 64 612	2 2 — —	1 0 0 0	161 32 1 154 3	93 46 1 35 11	118 85 6 7 20	52 36 — 16 —	85 14 8 7 49	922 45 38 48 839	2,649 626 278 342 1,403	2,920 536 661 300 1,423
Mountain Arizona Colorado Idaho† Montana Nevada† New Mexico† Utah Wyoming	2 1 - - - - 1	3 2 0 0 0 0 0	16 11 1 12 2 1 2	136 103 — — 13 1 7 8	214 136 16 — 13 14 8 13	1 1 - - - -	0 0 0 0 0 0	6 6 1 3 2 0 2 2 1	39 8 2 10 2 — 6 6 5	25 12 4 3 1 — 3 —	29 20 — 4 — 5	50 15 12 3 3 2 4 5	84 67 30 9 16 17 12 15 5	1,787 577 492 125 104 71 165 216 37	1,750 469 451 112 69 138 201 242 68
Pacific Alaska California Hawaii Oregon† Washington	3  2  1 U	4 0 3 0 0	10 4 10 0 4 0	154 14 124 — 16 U	167 1 161 — 5 U	   N	0 0 0 0 0	1 0 1 0 1 0	7  5  2 N	2 — — — 2 N	148 4 119 1 2 22	110 1 88 4 7 7	426 7 292 10 16 124	4,049 60 3,188 163 302 336	3,949 43 2,983 222 314 387
American Samoa C.N.M.I. Guam Puerto Rico U.S. Virgin Islands	U — 1 —	0 0 0 1 0	0 0 0 6 0	U — 66 —	U — 52 —	U - N	0 0 0 0	0 0 0 0	U U N	U U N	U - 8 -	0 0 1 6 0	2 0 3 35 0	U U — 161 —	6 U 30 482 —

C.N.M.I.: Commonwealth of Northern Mariana Islands. U: Unavailable. —: No reported cases. N: No Cum: Cumulative year-to-date counts. Med: Median. Max: Maximum.

U: Unavailable. —: No reported cases. N: Not notifiable. Cum: Cumulative year-to
\* Incidence data for reporting years 2005 and 2006 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 September 23, 2006, and September 24, 2005 (38th Week)\*

	Shiga			E. coli (S	ΓEC) <sup>†</sup>			nigellosis	5		Streptod			nvasive, g	group A
	Current	Prev 52 w		Cum	Cum	Current		ious eeks	Cum	Cum	Current		rious eeks	Cum	Cum
Reporting area	week	Med	Max	2006	2005	week	Med	Max	2006	2005	week	Med	Max	2006	2005
United States	71	55	297	2,033	2,184	248	233	1,013	7,918	10,443	31	87	283	3,718	3,505
New England	4	3	55	205	172	1	4	54	199	246		4	15	173	224
Connecticut Maine <sup>§</sup>	_	0 0	54 8	54 29	45 27	_	0	48 2	48 3	43 12	<u>U</u>	0	3 2	U 15	81 12
Massachusetts	_	1	9	82	66	_	3	11	128	149	_	3	6	101	98
New Hampshire Rhode Island		0 0	3 2	19 8	14 5		0	4 6	7 10	12 14	_	0 0	9 3	41 5	15 9
Vermont§	_	0	2	2	15	_	0	1	3	16	_	0	2	11	9
Mid. Atlantic New Jersey	4	4 0	107 4	139 3	261 58	10	15 4	72 24	537 194	967 253	6	15 3	43 8	686 122	713 149
New York (Upstate)	_	0	103	12	96	9	5	60	180	203	3	4	32	243	202
New York City Pennsylvania	_	0 0	4 5	18 5	12 95	1	3 2	12 24	100 63	327 184	3	1 6	10 13	75 246	142 220
E.N. Central	20	11	49	462	449	5	20	38	662	837	4	14	43	657	739
Illinois	_	1	7	59	112	_	7	16	229	275	_	4	11	144	245
Indiana Michigan	7	1 2	6 4	59 62	44 75	1	2	18 10	92 116	115 183	_ 1	2	11 12	90 180	83 174
Ohio	13	3	18	134	103	4	3	11	118	79	3	4	19	201	159
W.N. Control	10	2 7	37	148	115 342		3	9	107	185	7	1 5	4	42	78
W.N. Central lowa	10 2	2	35 8	286 100	72	29 1	32 2	77 10	1,107 73	1,135 65	N	0	57 0	260 N	219 N
Kansas Minnesota	 8	0 3	3 19	 152	34 89	6 9	3 2	20 9	103 95	154 67	<u> </u>	1 0	5 52	46 127	35 82
Missouri	2	2	13	121	76	13	12	69	522	738	1	1	5	49	55
Nebraska§ North Dakota	_	1 0	4 15	42	41 5	_	2	14 18	81 61	76 2	_	0 0	4 5	22 9	18 9
South Dakota	_	0	5	29	25	_	4	20	172	33	_	Ō	3	7	20
S. Atlantic	8	7	39	317	294	99	54	122	1,952	1,535	10	22	43	897	693
Delaware District of Columbia	_	0 0	2 1	7 1	8	_	0	2 2	7 12	10 9	_	0 0	2 2	9 10	5 7
Florida	5 3	2 1	29 6	71 68	71 37	62 37	27 17	66 38	965 646	744 381	5 2	6 5	16 11	222 174	178 147
Georgia Maryland <sup>§</sup>	_	i	6	52	59	- -	2	10	90	62	_	4	12	163	135
North Carolina South Carolina§	6	1 0	10 2	78 6	43 7	_	1 1	21 9	115 67	149 80	3	0 1	26 6	138 51	100 30
Virginia§	_	0	8	_	67	_	1	8	48	99	_	2	11	107	69
West Virginia	_	0	2	7	2	_	0	2	2	1	_	0	6	23	22
E.S. Central Alabama <sup>§</sup>	4 2	3 0	14 5	150 22	125 24	4 4	12 3	31 14	436 135	983 187	N	3 0	11 0	158 N	136 N
Kentucky	4	1	8	60	46	_	5	12	161	242	_	0	5	33	27
Mississippi Tennessee <sup>§</sup>	_	0 0	1 4	 24	6 49	_	1 3	6 11	42 98	69 485	_	0 3	0 9	125	109
W.S. Central	1	1	52	24	76	8	29	596	892	2,609	1	7	58	290	244
Arkansas Louisiana	_	0	2 1	10	10 18	5	1 0	7 18	77 60	47 115	_	0	5 1	24 4	15 5
Oklahoma	1	0	8	14	21	3	3	286	92	503	1	2	14	79	89
Texas <sup>§</sup>	_	1	44	53	27	_	26	308	663	1,944	_	4	43	183	135
Mountain Arizona	5 4	5 1	16 8	216 76	223 20	33 29	22 12	54 30	816 458	570 294	3	11 6	78 57	514 277	462 196
Colorado		1	8	77	59	_	3	18	153	96	_	3	8	106	144
Idaho§ Montana	_	1 0	7 1	50 —	30 14	_	0	4 1	14 6	10 5	_	0	2	8	2
Nevada§	_	0	3	9	16	_	0	8 10	30	42	_	0	6	_	2
New Mexico§ Utah	<u> </u>	0 1	1 13	4 91	22 55	1 2	2 1	4	97 51	87 33	_	1 1	7 7	62 58	67 48
Wyoming	1	0	3	16	7	1	0	3	7	3	_	0	1	3	3
Pacific Alaska	15 —	7 0	55 1	234	242 9	59 —	40 0	148 2	1,317 9	1,561 11	_	2	9	83	75 —
California	6	4	18	148	94	47	32	104	1,078	1,332	_	0	0	_	_
Hawaii Oregon <sup>§</sup>	_ 2	0 2	2 47	12 87	10 69	_ 1	1 1	4 31	33 100	27 101	N	2	9	83 N	75 N
Washington	9	2	32	74	60	11	2	43	97	90	N	0	ő	N	N
American Samoa	U	0	0	U	U	U	0	2	U	7	U	0	0	U	U
C.N.M.I. Guam	<u>U</u>	0 0	0 0	<u>U</u>	<u>U</u>	<u>U</u>	0 0	0 3	<u>U</u>	U 16	<u>U</u>	0 0	0 0	<u>U</u>	<u>U</u>
Puerto Rico	_	0	0	_	2	_	0	2	11	5	N	0	0	N	N
U.S. Virgin Islands		U	U				U	U				U	U		

Max: Maximum.

C.N.M.I.: Commonwealth of Northern Mariana Islands. U: Unavailable. —: No reported cases. N: No

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

<sup>\*</sup> Incidence data for reporting years 2005 and 2006 are provisional.

† Includes *E. coli* O157:H7; Shiga toxin positive, serogroup non-0157; and Shiga toxin positive, not serogrouped.

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

TABLE II. (*Continued*) Provisional cases of selected notifiable diseases, United States, weeks ending September 23, 2006, and September 24, 2005 (38th Week)\*

	Strepto		eumonia esistant,	e, invasive	disease	Syph	nilis, prin	nary and	seconda	ry		Varice	ella (chic	kenpox)	
		Prev	ious				Previ	ous				Pre	vious	- ,	
Reporting area	Current week	Med Med	eeks Max	Cum 2006	Cum 2005	Current week	52 we Med	eks Max	Cum 2006	Cum 2005	Current week	Med	veeks Max	Cum 2006	Cum 2005
United States	13	51	334	1,849	1,945	96	171	334	6,309	6,097	271	802	3,204	30,004	20,123
New England		1	24	30	173	1	4	17	154	149	2	42	144	1,102	3,872
Connecticut Maine <sup>†</sup>	<u>U</u>	0 0	7 2	U 8	72 N	_	0 0	11 2	33 7	30 1	<u>U</u>	0 5	58 20	U 151	1,120 230
Massachusetts New Hampshire	_	0	6 0	_	75 —	1	2	6 2	93 12	95 12	_	1 6	54 47	94 353	1,750 222
Rhode Island Vermont <sup>†</sup>	_	0	11 2	10 12	17 9	_	0	6 1	7	10	_	0 12	0 50	504	550
Mid. Atlantic	_	3	15	121	166	15	21	35	799	751	63	105	183	3,458	3,406
New Jersey	N	0	0	N 44	N 65	3	3 2	7 14	124 104	99 54		0	0		
New York (Upstate) New York City	U	0	0	U	U	2	10	23	384	461	_	0	0	_	_
Pennsylvania	_	2	9 41	77	101	5	5 17	9	187	137	63	105	183	3,458	3,406
E.N. Central Illinois	3	11 0	3	431 15	491 24	5	8	38 23	645 297	666 376	166 —	237 2	587 7	10,961 64	4,183 74
Indiana Michigan	1	2 0	21 4	115 17	157 30	2 1	1 2	4 19	62 89	48 62	 24	0 102	475 174	475 3,151	251 2,506
Ohio Wisconsin	2 N	6 0	32 0	284 N	280 N	2	4 1	8 4	153 44	156 24	142	82 12	420 52	6,668 603	1,018 334
W.N. Central	_	1	191	34	32	1	5	10	185	186	4	23	84	1,074	321
Iowa Kansas	N N	0	0	N N	N N	_	0	2	11 16	7 15	N 1	0	0 8	N 20	N
Minnesota	_	0	191	_	_	_	1	3	21	54	3	0	0	_	_
Missouri Nebraska <sup>†</sup>	_	0	3 0	33	26 2	_	3 0	8 1	123 3	105 4	_	19 0	82 0	972 —	220
North Dakota South Dakota	_	0 0	1 1	_ 1	1 3	1	0	1 3	11		_	0 1	25 12	44 38	16 85
S. Atlantic	10	26	53	996	799	32	42	186	1,491	1,472	25	90	860	3,184	1,553
Delaware District of Columbia	_	0	2 3	 21	1 13	_	0 2	2 9	16 86	9 76	1	1 0	5 5	48 27	23 24
Florida Georgia	9 1	13 8	36 29	546 335	436 253	13	15 7	29 147	548 227	503 301	_	0	0	_	_
Maryland <sup>†</sup>	_	0	0	_	_	3	5	19	218	232	_	0	0	_	_
North Carolina South Carolina <sup>†</sup>	N	0 0	0 0	N	N —	4 3	5 1	17 7	219 52	199 48	_	0 15	0 53	765	423
Virginia† West Virginia	N	0 1	0 14	N 94	N 96	9	3 0	12 1	122 3	102 2	 24	30 26	812 70	1,248 1,096	330 753
E.S. Central	_	4	13	147	138	13	13	24	512	333	_	1	70	90	36
Alabama <sup>†</sup> Kentucky	N	0	0 5	N 29	N 26	2 5	4 1	18 8	223 55	108 33	N	1 0	70 0	89 N	36 N
Mississippi Tennessee <sup>†</sup>	_	0	0 13	118	1 111	<u> </u>	0 5	6 13	45 189	37 155	N	0	1	1 N	N
W.S. Central		0	4	14	99	20	27	42	1,094	898		181	1,757	8,176	4,810
Arkansas Louisiana	_	0	3	11	12 87	1	1	5 17	56 155	38 192	_	7	110	590 43	109
Oklahoma	N	0	0	N	N	2	1	6	55	29	_	0	0	_	_
Texas† Mountain	N	0 1	0 27	N 76	N 47	17 1	21 7	37 24	828 287	639 310	_ 11	167 52	1,647 138	7,543 1,959	4,701 1,942
Arizona	N	0	0	N	N	1	3	16	132	117	_	0	0	· —	· —
Colorado Idaho†	N N	0 0	0 0	N N	N N	_	1 0	3 1	30 2	34 20	_	32 0	76 0	1,040	1,327
Montana Nevada†	_	0	1 27	<u> </u>		_	0 1	1 12	1 71	5 88	2	0	0 2	2	_
New Mexico†	_	0	1	1	_	_	1	5	45	39	_	3	34	304	167
Utah Wyoming	_	0 1	8 3	33 38	23 22	_	0 0	1 0	<u>6</u>	7 —	9	11 0	55 8	577 32	399 49
Pacific	_	0	0	_	_	8	33	49	1,142	1,332	_	0	0	_	_
Alaska California	N	0	0 0	N	N	3	0 28	4 39	6 968	6 1,188	_	0 0	0 0	_	_
Hawaii Oregon <sup>†</sup>	N	0 0	0	N	N	_	0	2 6	15 13	8 23	N N	0	0	N N	N N
Washington	N	0	0	N	N	5	3	11	140	107	N	0	0	N	N
American Samoa C.N.M.I.	_	0 0	0 0	_	_	U U	0 0	0	U U	U U	U U	0	0	U U	U
Guam Puerto Rico	_ N	0	0	 N	N	_	0	0 10	— 86	3 159	8	4	12 47		381 533
U.S. Virgin Islands	- 14	0	0			_	0	0	_	- 159	_	0	0		

Cum: Cumulative year-to-date counts.

Med: Median.

Max: Maximum.

C.N.M.I.: Commonwealth of Northern Mariana Islands.
U: Unavailable. —: No reported cases. N: Not notifiable. Cum: Cumulative year-to-t\* Incidence data for reporting years 2005 and 2006 are provisional.

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TABLE II. (*Continued*) Provisional cases of selected notifiable diseases, United States, weeks ending September 23, 2006, and September 24, 2005 (38th Week)\*

					West Nile virus	disease†					
		- 1	Veuroinvas	sive			No	n-neuroin	vasive		
		Prev	ious				Pre	/ious			
Reporting area	Current week	Med 52 w	eeks Max	Cum 2006	Cum 2005	Current week	52 v	reeks Max	Cum 2006	Cum 2005	
Inited States		1	152	956	1,165	1	1	326	1,653	1,594	
lew England	_	0	2	6	9		0	1	2	3	
Connecticut	_	Ö	2	6	4	_	Ö	i	2	2	
Maine§	_	0	0	_	<del>-</del>	_	0	0	_	_	
Massachusetts	_	0	0	_	4	_	0	1	_	1	
New Hampshire Rhode Island	_	0	0 0	_	_ 1	_	0 0	0 0	_	_	
/ermont§	_	0	0	_		_	0	0	_	_	
/lid. Atlantic	_	0	8	16	43	_	0	3	5	21	
New Jersey	_	0	2	2	3	_	0	2	1	3	
New York (Upstate)	_	0	4	_	17	_	0	1	_	4	
New York City Pennsylvania	_	0 0	4 2	7 7	9 14	_	0 0	2 1	3 1	3 11	
.N. Central	_	0	33	147	240	_	0	17	65	145	
llinois	_	0	33 19	92	125	_	0	16	47	145	
ndiana	_	0	4	11	10	_	0	2	5	11	
Michigan	_	0	5	17	51	_	0	1	2	7	
Ohio Visconsin	_	0 0	10 2	19 8	44 10	_	0 0	3 2	4 7	13 6	
W.N. Central		0	28	170		_	0	67	320		
<b>W.N. Central</b> owa	_	0	28 3	170 13	151 12	_	0	67 4	320 11	451 22	
Kansas	_	0	3	14	9	_	0	3	10	N	
Minnesota	_	0	6	26	17	_	0	7	34	25	
Missouri	_	0 0	8 7	35 30	16 50	_	0 0	3 17	8 82	13 126	
Nebraska <sup>§</sup> North Dakota	_	0	4	18	50 12	_	0	26	82 108	74	
South Dakota	_	Ö	7	34	35	_	Ö	21	67	191	
S. Atlantic	_	0	3	7	28	_	0	2	3	24	
Delaware	_	0	0	_	1	_	0	1	_	<del>-</del>	
District of Columbia	_	0	1 2	_ 3	2	_	0 0	1 0	1	1	
Florida Georgia	_	0 0	1	2	8 7	_	0	2		11 8	
Maryland <sup>§</sup>	_	Ö	1	1	4	_	Ö	0	_	1	
North Carolina	_	0	0	_	2	_	0	0	_	2	
South Carolina§ Virginia§	_	0 0	1 0	_	4	_	0 0	0 1	_	_ 1	
West Virginia	_	0	1	1	_	N	0	0	N	Ń	
E.S. Central	_	0	12	78	58	_	0	13	67	30	
Alabama§	_	Ö	1	4	5	_	Ö	2	_	2	
Kentucky	_	0	1	2	3	_	0	1	1	_	
Mississippi Tennessee§		0 0	9 3	65 7	37 13	_	0 0	13 1	65 1	27 1	
W.S. Central				237	224		0				
<b>w.s. Central</b> Arkansas		1 0	46 3	13	224 11	_	0	23 1	122 4	140 15	
Louisiana	_	0	13	57	99	_	0	8	46	51	
Oklahoma	_	0	6	19	10	_	0	3	9	9	
Texas <sup>§</sup>	_	1	28	148	104	_	0	14	63	65	
Mountain	_	0	57	239	116	_	0	192	899	219	
Arizona Colorado	_	0 0	8 9	10 40	32 19	_	0 0	6 32	10 159	45 81	
daho§	_	0	29	94	3	_	0	128	542	10	
Montana	_	0	3	10	8	_	0	7	19	17	
Nevada§ New Mexico§		0 0	9 2	33 1	11 17		0 0	13 1	71 2	17 13	
vew iviexico⁵ Jtah	_	0	7	40	21	_	0	15	74	30	
Nyoming	_	Ö	5	11	5	_	Ö	6	22	6	
Pacific	_	0	13	56	296	1	0	39	170	561	
Alaska	_	0	0	_	_	_	0	0	_	_	
California	_	0	13	54	295	1	0	30	150	555	
Hawaii Dregon§	_	0 0	0 1		 1	_	0 0	0 9	 19	6	
Washington	_	0	0	_	_	_	0	1	19	_	
American Samoa	U	0	0	U	U	U	0	0	U	U	
C.N.M.I.	Ü	0	0	Ü	Ŭ	Ü	0	0	Ü	ŭ	
Guam	_	0	0	_	_	_	0	0	_	_	
Puerto Rico	_	0	0 0	_	_	_	0 0	0 0	_	_	
J.S. Virgin Islands	_	U	U	_	_	_	U	U	_	_	

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

\* Incidence data for reporting years 2005 and 2006 are provisional.

Updated weekly from reports to the Division of Vector-Borne Infectious Diseases, National Center for Zoonotic, Vector-Borne, and Enteric Diseases (proposed) (ArboNET

<sup>§</sup> Surveillance). § Contains data reported through the National Electronic Disease Surveillance System (NEDSS).

TABLE III. Deaths in 122 U.S. cities.\* week ending September 23, 2006 (38th Week)

TABLE III. Deaths i	n 122 U.S					ber 23	3, 2006 (	38th Week)							
		All c	auses, b	y age (ye	ears)					All	causes, b	y age (ye	ears)		
Reporting Area	All Ages	≥65	45-64	25-44	1-24	<1	P&I <sup>†</sup> Total	Reporting Area	All Ages	≥65	45-64	25-44	1-24	<1	P&I <sup>†</sup> Total
New England	507	348	118	24	9	8	35	S. Atlantic	1,204	740	275	115	35	39	60
Boston, MA	153	94	44	7	3	5	19	Atlanta, GA	140	68	36	16	4	16	4
Bridgeport, CT Cambridge, MA	34 18	30 14	2	2 1	_	_	1 4	Baltimore, MD Charlotte, NC	184 103	106 74	44 15	24 11	7	3	10 8
Fall River, MA	19	14	4		1	_	_	Jacksonville, FL	126	78	29	11	5	3	12
Hartford, CT	47	28	11	5	_	3	2	Miami, FL	124	81	24	13	4	2	7
Lowell, MA	26	17	6	1	2	_	3	Norfolk, VA	52	36	9	4	1	2	1
Lynn, MA	8	7	_	1	_	_	3	Richmond, VA	55	32	15	6	1	1	_
New Bedford, MA New Haven, CT	23 U	17 U	5 U	1 U	_ U	_ U	U	Savannah, GA St. Petersburg, FL	48 34	27 27	15 3	2 4	4	_	3 4
Providence, RI	52	37	13	2	_	_	1	Tampa, FL	174	112	46	7	4	5	8
Somerville, MA	7	4	2	1	_	_	_	Washington, D.C.	144	84	36	15	5	4	3
Springfield, MA	39	25	13	1	_	_	_	Wilmington, DE	20	15	3	2	_	_	_
Waterbury, CT	33	22	9	1	1	_	2	E.S. Central	881	534	232	74	23	18	46
Worcester, MA	48	39	6	1	2	_	_	Birmingham, AL	168	109	36	12	6	5	10
Mid. Atlantic	2,034	1,413	413	133	35	36	94	Chattanooga, TN	92	57	25	3	3	4	6
Albany, NY Allentown, PA	39 22	22 18	13 3	3 1	_	1	2 1	Knoxville, TN Lexington, KY	83 85	61 20	18 39	2 22	1 3	1	4 3
Buffalo, NY	105	74	19	8	4	_	9	Memphis, TN	150	92	36	15	5	2	11
Camden, NJ	38	25	8	2	3	_	1	Mobile, AL	78	54	16	5	2	1	3
Elizabeth, NJ	16	12	3	1	_	_	1	Montgomery, AL	56	39	12	4	_	1	4
Erie, PA	38	30	6	1	1	_	4	Nashville, TN	169	102	50	11	3	3	5
Jersey City, NJ New York City, NY	24 1,114	15 774	6 230	2 73	1 15	— 18	4 45	W.S. Central	1,629	995	402	144	59	29	66
Newark, NJ	35	12	12	73 8	3	_	<del>4</del> 5	Austin, TX	92	54	24	8	5	1	8
Paterson, NJ	21	10	8	2	_	1	_	Baton Rouge, LA	41	21	17	3	_	_	_
Philadelphia, PA	204	141	39	14	2	8	5	Corpus Christi, TX Dallas, TX	67 202	38 110	22 52	3 28	2 7	2 5	5 10
Pittsburgh, PA§	40	25	10	1	2	2	5	El Paso, TX	92	65	19	1	1	6	1
Reading, PA Rochester, NY	20 118	17 88	2 20	<u> </u>	3	1	1 7	Fort Worth, TX	112	74	31	4	_	3	5
Schenectady, NY	22	19	20	1	_		2	Houston, TX	405	233	113	35	17	7	12
Scranton, PA	25	17	6	2	_	_	3	Little Rock, AR	96	53	16	20	7		2
Syracuse, NY	70	56	8	3	_	3	2	New Orleans, LA <sup>1</sup> San Antonio, TX	U 314	U 208	U 65	U 23	U 15	U 3	U 16
Trenton, NJ	50	31	13	4	1	1	_	Shreveport, LA	94	60	22	11	1	_	6
Utica, NY Yonkers, NY	13 20	11 16	2 3	1	_	_	1 1	Tulsa, OK	114	79	21	8	4	2	1
								Mountain	989	629	217	84	31	27	59
E.N. Central Akron, OH	1,973 49	1,291 28	432 15	141 2	50 1	59 3	106 1	Albuquerque, NM	58	39	9	5	4	1	6
Canton, OH	27	18	6	_		3	1	Boise, ID	63	48	10	4	_	1	5
Chicago, IL	303	179	72	30	12	10	22	Colorado Springs, CO Denver, CO	58 72	41 43	10 15	3 8	1 3	3	1 3
Cincinnati, OH	78	50	12	5	3	8	7	Las Vegas, NV	240	144	58	24	10	4	11
Cleveland, OH Columbus, OH	261 172	190 97	43 50	16 14	7 2	5 9	10 11	Ogden, UT	33	28	3	1	1	_	1
Dayton, OH	125	86	26	10	3	— —	3	Phoenix, AZ	144	78	38	16	7	4	6
Detroit, MI	158	92	44	18	2	2	6	Pueblo, CO	33	24	9	_	_	_	7
Evansville, IN	38	30	6	1	_	1	1	Salt Like City, UT Tucson, AZ	139 149	89 95	32 33	10 13	1 4	7 4	10 9
Fort Wayne, IN	79	64	8	5	1	1	7	· · · · · · · · · · · · · · · · · · ·							
Gary, IN Grand Rapids, MI	23 53	8 40	10 5	3 3	1 3	1 2	<u> </u>	Pacific Berkeley, CA	1,461 6	969 2	345 2	92 2	33	22	110
Indianapolis, IN	195	128	41	13	6	7	14	Fresno, CA	183	119	46	9	 5	4	8
Lansing, MI	49	33	11	3	2	_	3	Glendale, CA	5	4	_	1	_	_	_
Milwaukee, WI	111	79	23	6	1	2	7	Honolulu, HI	53	36	13	3	_	1	7
Peoria, IL	44	31	9	2	2	<u> </u>	3	Long Beach, CA	66	41	16	4	2	3	10
Rockford, IL South Bend. IN	42 38	25 23	10 9	2 2	1 3	1	1	Los Angeles, CA Pasadena, CA	98 18	50 13	31 3	13 2	2	2	4 4
Toledo, OH	78	54	20	4	_		1	Portland, OR	117	78	30	6	1	2	9
Youngstown, OH	50	36	12	2	_	_	3	Sacramento, CA	209	138	54	9	4	4	16
W.N. Central	505	328	112	38	14	13	26	San Diego, CA	146	101	30	13	2	_	5
Des Moines, IA	U	U	Ü	U	Ü	Ü	Ü	San Francisco, CA	114	76	27	7	4	_	15
Duluth, MN	20	13	6	1	_	_	1	San Jose, CA Santa Cruz, CA	126 17	92 14	26	4	3	1	9
Kansas City, KS	19	10	6	3	_	_	3	Seattle, WA	132	82	33	8	<u> </u>	4	9
Kansas City, MO	85 44	58	15	4	7	1	2	Spokane, WA	53	41	9	3	_	_	8
Lincoln, NE Minneapolis, MN	44 62	33 34	10 17	7	1 1	3	4 6	Tacoma, WA	118	82	25	5	5	1	6
Omaha, NE	72	51	14	5		2	3	Total	11,183**	7,247	2,546	845	289	251	602
St. Louis, MO	82	44	22	7	4	5	1		,	,	,				
St. Paul, MN	47	40	7	<del>-</del>	_	_	3								
Wichita, KS	74	45	15	11	1	2	3								

U: Unavailable. —:No reported cases.

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

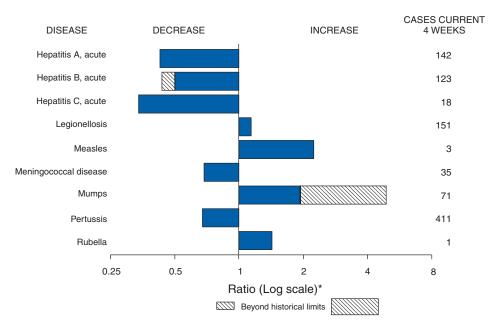
† Pneumonia and influenza.

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

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

\*\* Total includes unknown ages.

FIGURE I. Selected notifiable disease reports, United States, comparison of provisional 4-week totals September 23, 2006, with historical data



<sup>\*</sup> 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.

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