

Weekly

July 28, 2006 / Vol. 55 / No. 29

### Investigation of a New Diagnosis of Multidrug-Resistant, Dual-Tropic HIV-1 Infection — New York City, 2005

In December 2004, infection with a strain of multidrugresistant (MDR), dual-tropic\* human immunodeficiency virus (HIV)-1 was newly diagnosed in a man aged 46 years in New York City (NYC). The man (i.e., the index patient) had no history of antiretroviral treatment and reported having sex with multiple named and anonymous male partners, using crystal methamphetamine, and engaging in unprotected insertive and receptive anal intercourse. He had rapid progression to acquired immunodeficiency syndrome (AIDS) after experiencing signs and symptoms of acute HIV infection. The case was reported to the New York City Department of Health and Mental Hygiene (NYCDOH) in late January 2005 and has been described previously (1). This report describes the public health investigation of the index patient's reported contacts and a review of viral genetic sequencing (genotype) results from other HIV-infected patients in the NYC region to estimate the prevalence of this strain of HIV. The investigation, conducted by NYCDOH, Connecticut Department of Public Health, Aaron Diamond AIDS Research Center, New York State Department of Health, and CDC, identified three other patients with similar risk factors who engaged in high-risk sexual activity at the same time and in the same venues as the index patient and who were infected with a genotypically homologous strain of HIV. The findings demonstrate the usefulness of population-based reporting of HIV genotyping data to identify exact matches of new HIV mutations associated with drug resistance and to determine their characteristics and public health importance. The findings also demonstrate the continued risk for HIV transmission among men who have sex with men (MSM) through high-risk behaviors and the need to find effective methods to prevent HIV transmission in this population.

### **Case Report**

The index patient had tested negative for HIV infection in May 2003 and reported no history of treatment with antiretroviral drugs (ARVs). In early November 2004, he experienced onset of persistent fever, fatigue, and pharyngitis. In mid-December 2004, he tested positive for HIV-1 by enzyme-linked immunosorbent assay (ELISA) and Western blot. The patient's HIV infection progressed rapidly to AIDS during a period of 4–20 months (1); his exact date of infection was unknown. His CD4 T lymphocyte count decreased from 80 cells/ $\mu$ L on December 29, 2004, to 28 cells/ $\mu$ L on January 19, 2005. His plasma HIV RNA levels ranged from 100,000 to 650,000 copies/mL during January 2005 (2).

Genotypic analysis of the viral polymerase (*pol*) gene predicted that the patient's virus was resistant to most agents in three classes of ARVs: nucleoside or nucleotide analogue reverse transcriptase inhibitors, non-nucleoside reverse transcriptase inhibitors, and protease inhibitors. Phenotypic drugresistance testing indicated that the strain was susceptible to enfuvirtide and efavirenz. The virus was subtype B; the viral population was relatively homogeneous, with an average intrasample diversity for the p17 and V3 regions ranging from 0.4% to 1.7%. The virus was dual tropic and had replication

### INSIDE

- 796 Heat-Related Deaths United States, 1999–2003
- 798 Chagas Disease After Organ Transplantation Los Angeles, California, 2006
- 801 QuickStats

<sup>\*</sup> Virus has capacity to use both CCR5 and CXCR4 coreceptors for attachment and entry into CD4 lymphocytes.

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

**Suggested Citation:** Centers for Disease Control and Prevention. [Article title]. MMWR 2006;55:[inclusive page numbers].

### **Centers for Disease Control and Prevention**

Julie L. Gerberding, MD, MPH Director Tanja Popovic, MD, PhD (Acting) Chief Science Officer

James W. Stephens, PhD (Acting) Associate Director for Science Steven L. Solomon, MD Director, Coordinating Center for Health Information and Service

Jay M. Bernhardt, PhD, MPH Director, National Center for Health Marketing Judith R. Aguilar (Acting) Director, Division of Health Information Dissemination (Proposed)

#### **Editorial and Production Staff**

Frederic E. Shaw, MD, JD (Acting) Editor, MMWR Series Suzanne M. Hewitt, MPA

Managing Editor, MMWR Series Douglas W. Weatherwax (Acting) Lead Technical Writer-Editor

> Catherine H. Bricker, MS Jude C. Rutledge Writers-Editors

Beverly J. Holland Lead Visual Information Specialist Lynda G. Cupell Malbea A. LaPete

Visual Information Specialists Quang M. Doan, MBA

Erica R. Shaver Information Technology Specialists

#### **Editorial Board**

William L. Roper, MD, MPH, Chapel Hill, NC, Chairman Virginia A. Caine, MD, Indianapolis, IN David W. Fleming, MD, Seattle, WA William E. Halperin, MD, DrPH, MPH, Newark, NJ Margaret A. Hamburg, MD, Washington, DC King K. Holmes, MD, PhD, Seattle, WA Deborah Holtzman, PhD, Atlanta, GA John K. Iglehart, Bethesda, MD Dennis G. Maki, MD, Madison, WI Sue Mallonee, MPH, Oklahoma City, OK Stanley A. Plotkin, MD, Doylestown, PA Patricia Quinlisk, MD, MPH, Des Moines, IA Patrick L. Remington, MD, MPH, Madison, WI Barbara K. Rimer, DrPH, Chapel Hill, NC John V. Rullan, MD, MPH, San Juan, PR Anne Schuchat, MD, Atlanta, GA Dixie E. Snider, MD, MPH, Atlanta, GA John W. Ward, MD, Atlanta, GA

capacity 36% greater than wild-type HIV strains. The patient tested negative for all known genetic host-susceptibility factors associated with rapid AIDS progression (e.g., presence of  $\Delta$ 32 homo- or heterozygosity, HLA A-B-C homozygosity, or specific Class I and Class II alleles) (2,3).

### **Contact Investigation**

After the case was reported to NYCDOH, the index patient provided the names and contact information for 14 sex partners during a standard, voluntary, confidential interview. The named partners were contacted by NYCDOH in February 2005 and were offered HIV testing. Ten of the 14 named partners had been reported previously to the NYCDOH HIV/AIDS registry as seropositive. Eight of these 10 partners either had a recent blood test for HIV genotype (i.e., within 1 year of the index diagnosis) or consented to a new blood draw for genotyping. Chart review indicated that all 10 named partners were clinically stable, and none had a genotype matching that of the index patient. Of the four partners who had not been previously reported to NYCDOH, one could not be reached despite multiple attempts; the three others all either reported a recent negative HIV test or refused testing.

### Laboratory Reporting

In response to this case, on February 11, 2005, NYCDOH requested that all physicians and laboratories in NYC report patients with newly diagnosed MDR HIV-1 and rapidly progressive disease. Laboratories conducting genotypic drugresistance testing were asked to report all genotypes identified during June 1, 2004–June 30, 2005, that exhibited resistance to four or more nucleoside/nucleotide analogue reverse transcriptase inhibitors, one or more non-nucleoside reverse transcriptase inhibitors, or four or more protease inhibitors. In response, laboratories reported 189 MDR genotypes, representing 134 persons, of whom 121 had medical records available for review in NYC. An attempt to match each person to those in the HIV/AIDS registry confirmed that 116 persons had diagnoses of HIV infection before January 1, 2000; five had infections diagnosed during 2000-2004. Two of these patients (with infections diagnosed in 2001 and 2003, respectively) had no record of ARV therapy in their charts; two others were on ARV therapy before the MDR HIV-1 genotype was identified in the index patient in December 2004.

During February 11–June 30, 2005, health-care providers were encouraged to perform genotyping on all patients who tested newly HIV positive and to report by telephone any patients with newly diagnosed MDR HIV-1 infection who had never been treated with ARVs.

In February-March 2005, the 28 laboratories conducting HIV genotyping on NYC residents were asked to match the pol genotype of the index patient against the nucleotide sequences in their sequence databases. The index patient's pol genotype also was matched against sequence libraries at CDC, the New York State Department of Health Wadsworth Center, three large commercial laboratories in the United States, two laboratories in Canada, and one in Europe. Three male patients, one in Connecticut and two in NYC, had nucleotide sequences with >95% homology to the index patient's pol sequence. The three patients with matching genotypes were interviewed either by their primary-care providers or by NYCDOH. Information from the interviews indicated a strong likelihood that the index patient and Connecticut patient had been sex partners. Although none of the three patients with matching genotypes identified each other or the index patient by name, all reported engaging in sexual activity at the same events or venues or at similar events attended by the index patient during the preceding 2 years. Both the Connecticut patient and the index patient described a sex partner attending at least one of these events who resembled the other in terms of general appearance, occupation, and serostatus (self-reported). All three men with genotypes that matched the index patient's genotype were clinically stable on ARV regimens at the time of their interviews. Sufficient data were not available to determine the rate of disease progression before diagnosis of HIV infection or initiation of ARV therapy in any of the three patients with matching genotypes.

### Sequencing

Confirmatory sequencing of *pol* and additional portions of the genome was conducted by three independent laboratories on new blood samples from the index patient and the three patients with matching genotypes. This testing confirmed the pol homology of the viruses and homology of other genomic regions. However, because of the incomplete epidemiologic information, a definite chain of transmission among these four genotypically related cases could not be established. Reported by: LV Torian, PhD, S Blank, MD, SE Kellerman, MD, TR Frieden, MD, New York City Dept of Health and Mental Hygiene; DD Ho, MD, M Markowitz, MD, D Boden, MD, PhD, Aaron Diamond AIDS Research Center, New York City; MM Parker, PhD, S Philpott, PhD, New York State Dept of Health. A Roome, PhD, Connecticut Dept of Public Health. MT McKenna, MD, T Folks, PhD, W Heneine, PhD, Div of HIV/AIDS Prevention, National Center for HIV, Viral Hepatitis, STDs, and Tuberculosis Prevention (proposed), CDC.

Editorial Note: This report describes the public health investigation surrounding a previously reported case of MDR HIV-1 infection (1). The investigation was conducted to identify contacts of the index patient, to offer HIV testing and partner notification, and to search for other persons with diagnosed HIV infection who shared the index patient's HIV genotype. Data obtained from interviews, laboratory matching, and supplemental laboratory testing identified only three persons as infected with strains of HIV similar to that of the index patient. As of July 21, 2006, the index patient and two of the patients with matching genotypes were clinically stable and responding to ARVs. The third patient with a matching genotype was clinically stable and responding to ARVs through April 2005 but has since been lost to follow-up; he had not been matched to the New York City Death Registry as of June 30, 2006.

Investigators were not able to determine exactly when or how, during May 2003-December 2004, the index patient was infected, whether transmission of the HIV strain to the index patient was direct from one of the three patients with matching genotypes or indirect (i.e., passed through an unknown intermediate person), or whether the index patient's viral genotype was from a single viral infection or from recombination or superinfection. The index patient had multiple partners, many anonymous, during the period in which he became infected. The cluster of three patients with matching genotypes represents only cases detected through laboratory matching and only through June 30, 2005. At least 6,400 HIV-infected MSM in NYC have never been tested for HIV,<sup>†</sup> and many other persons with diagnosed HIV infection have never had genotyping. Therefore, the actual prevalence of this or a similar MDR HIV genotype in NYC is unknown.

The index patient's HIV infection progressed to AIDS in  $\leq 20$  months; the median period for transition to AIDS without treatment is 8–10 years (4). Available laboratory and medical records data were not sufficient to establish whether this viral genotype was associated with rapid progression to AIDS. Accelerated progression to AIDS and transmission of MDR HIV-1 have been reported previously, although not with this combination of high-level resistance and rapid progression (5,6). Newly diagnosed MDR HIV in a sexually active MSM who had never received ARV treatment raises several public health concerns. Approximately 70% of the named partners of the index patient had HIV infection, and the majority had other recent sexually transmitted disease infections, indicating substantial potential for transmission of HIV and possi-

<sup>&</sup>lt;sup>†</sup> Torian LV, Bennani Y, Frieden TR. What is the true prevalence of HIV in New York City: estimating the number of undiagnosed and unreported persons living with HIV and AIDS, 2003 [Poster]. Presented at the 12th Conference on Retroviruses and Opportunistic Infections, Boston, MA; February 22–25, 2005. Available at http://www.nyc.gov/html/doh/downloads/pdf/dires/ epi-presentation-croi2005-970.pdf.

bly also MDR HIV. The findings in this report, along with increasing syphilis rates, continuing gonorrhea transmission, and the emergence of lymphogranuloma venereum in HIV-positive MSM, reflects a resurgence of unsafe sex among MSM. This behavior also has been associated with increasing use of methamphetamine (7).

The genotype data collected by NYCDOH indicated a low prevalence of MDR genotypes among persons who had not been treated with ARVs and who had HIV infections diagnosed during June 1, 2004–June 30, 2005. Drug-resistant HIV compromises the effectiveness of standard ARV regimens and can limit the treatment options available to persons with newly diagnosed HIV infection (6). Therefore, CDC has provided funding to four city and 17 state health departments to conduct drug-resistance surveillance on remnant sera obtained from all patients with newly diagnosed HIV infection (8). Provisional data from these areas indicate that as many as 15% of these patients are infected with an HIV strain that has mutations associated with resistance to ARVs, and 3.2% have mutations associated with resistance to two or more classes of such medications.§

Case reports such as the one described here and results from surveillance of newly diagnosed, drug-resistant HIV infections contributed to recent changes in HIV-1 treatment guidelines issued by the U.S. Department of Health and Human Services (9). These guidelines now recommend performing drug-resistance testing before initiation of therapy in patients who have never received ARV treatment. To reduce HIVassociated morbidity and mortality in the United States, public health officials should intensify measures to improve early diagnosis, partner notification, and prevention counseling for persons (particularly MSM) who are HIV positive and should conduct population-based genotype surveillance to monitor the emergence of unusual strains of HIV, particularly those with mutations associated with ARV resistance (8,10).

#### References

- 1. Markowitz M, Mohri H, Mehandru S, et al. Infection with multidrug resistant, dual-tropic HIV-1 and rapid progression to AIDS: a case report. Lancet 2005;365:1031–8.
- Carrington M, O'Brien SJ. The influence of HLA genotype on AIDS. Annu Rev Med 2003;54:535–51.
- 3. Dean M, Carrington M, Winkler C, et al. Genetic restriction of HIV-1 infection and progression to AIDS by a deletion allele of the CKR5 structural gene. Science 1996;273:1856–62.
- 4. Brookmeyer R, Gail MH. The incubation period distribution [Chapter 4]. In: AIDS epidemiology: a quantitative approach. New York, NY: Oxford University Press; 1994:82–109.

- Grant RM, Hecht FM, Warmerdam M, et al. Time trends in primary HIV-1 drug resistance among recently infected persons. JAMA 2002;288:181–8.
- Little SJ, Holte S, Routy JP, et al. Antiretroviral-drug resistance among patients recently infected with HIV. N Engl J Med 2002;347:385–94.
- Fenton KA, Imrie J. Increasing rates of sexually transmitted diseases in homosexual men in Western Europe and the United States: why? Infect Dis Clin North Am 2005;19:311–31.
- Bennett D. HIV genetic diversity surveillance in the United States. J Infect Dis 2005;192:4–9.
- US Department of Health and Human Services. Guidelines for the use of antiretroviral agents in HIV-1-infected adults and adolescents. Washington, DC: US Department of Health and Human Services; 2006. Available at http://aidsinfo.nih.gov/contentfiles/adultandadolescentgl.pdf.
- 10. CDC. Advancing HIV prevention: new strategies for a changing epidemic—United States, 2003. MMWR 2003;52:329–32.

### Heat-Related Deaths — United States, 1999–2003

Heat-related illnesses (e.g., heat cramps, heat exhaustion, heat syncope, or heatstroke) can occur when high ambient temperatures overcome the body's natural ability to dissipate heat (1). Older adults, young children, and persons with chronic medical conditions are particularly susceptible to these illnesses and are at high risk for heat-related mortality (2). Previous analyses of the risk factors associated with heatrelated deaths\* have been based on the underlying cause<sup>†</sup> entered on the death certificate (4,5) and have not included decedents for whom hyperthermia was listed as a contributing factor but not the underlying cause of death. This report describes an analysis in which number of heat-related deaths were counted, including deaths in which hyperthermia was listed as a contributing factor on the death certificate. The analysis revealed that including these deaths increased the number of heat-related deaths by 54% and suggested that the number of heat-related deaths is underestimated.

CDC uses information from death certificates categorized by codes from the *International Classification of Diseases* to estimate national mortality trends. These data, collected and submitted by states, were used to determine the number of deaths in the United States during 1999–2003 that had expo-

<sup>&</sup>lt;sup>§</sup>Bennett D, McCormick L, Kline R, et al. U.S. surveillance of HIV drug resistance at diagnosis using HIV diagnostic sera [Poster Abstract 674]. Presented at the 12th Conference on Retroviruses and Opportunistic Infections, Boston, MA; February 22–25, 2005. Available at http://www.retroconference.org/2005/ cd/abstracts/24184.htm.

<sup>\*</sup> Defined as a death in which exposure to high ambient temperatures either caused the death or contributed to it substantially, the decedent had a body temperature at the time of collapse >105°F (>40.6°C), the decedent had a history of exposure to high ambient temperature, and other causes of hyperthermia could reasonably be excluded (3).

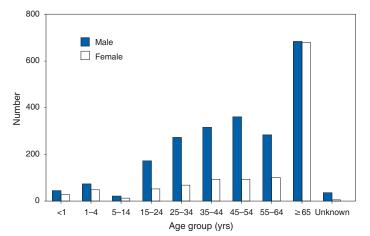
<sup>&</sup>lt;sup>†</sup>The underlying cause of death is defined as the disease or injury that initiated the chain of events that lead directly and inevitably to death. Contributing conditions, or factors, are defined as diseases, injuries, or complications that directly caused the death. A sample death certificate, showing underlying and contributing causes of death, is available at http://www.cdc.gov/nchs/data/dvs/ death11-03final-acc.pdf.

sure to excessive natural heat<sup>§</sup> recorded as the underlying cause (code X30 from ICD, tenth revision [ICD-10]), hyperthermia<sup>¶</sup> recorded as a contributing factor (ICD-10 code T67) (*6*), or both.

During 1999–2003, a total of 3,442 deaths resulting from exposure to extreme heat were reported (annual mean: 688). For 2,239 (65%) of these deaths, the underlying cause of death was recorded as exposure to excessive heat; for the remaining 1,203 (35%), hyperthermia was recorded as a contributing factor. Deaths among males accounted for 66% of deaths and outnumbered deaths among females in all age groups (Figure). Of the 3,401 decedents for whom age information was available, 228 (7%) were aged <15 years, 1,810 (53%) were aged 15–64 years, and 1,363 (40%) were aged  $\geq$ 65 years. The state with the highest average annual hyperthermia-related death rate during 1999–2003 was Arizona (1.7 deaths per 100,000 population), followed by Nevada (0.8) and Missouri (0.6).

Cardiovascular disease was recorded as the underlying cause of death in 681 (57%) of cases in which hyperthermia was a contributing factor (Table). Approximately 70% of these heatrelated cardiovascular deaths occurred among persons with reported chronic ischemic heart disease. External causes (e.g., unintentional poisonings) were documented as the underlying cause of 345 (29%) deaths in which hyperthermia was a contributing factor. Endocrine, nutritional, and metabolic

#### FIGURE. Number of heat-related deaths,\* by sex and age group ----United States, 1999–2003



\* Exposure to extreme heat is reported as the underlying cause of or a contributing factor to death (N = 3,442).

TABLE. Selected underlying causes of death with hyperthermia\* as a contributing factor<sup>†</sup> — United States, 1999–2003

Underlying cause of death	No.	(%)
Cardiovascular diseases	681	(56.6)
Chronic ischemic heart disease	473	(39.3)
Acute ischemic heart disease	63	(5.2)
Hypertensive heart disease without congestive heart failure	60	(5.0)
Other cardiovascular diseases	85	(7.1)
External causes of morbidity and mortality	345	(28.7)
Accidental poisoning by and exposure to noxious substances	51	(4.2)
Assault	63	(5.2)
Other external causes of morbidity and mortality	231	(19.2)
Diseases of the respiratory system	37	(3.1)
Chronic obstructive pulmonary disease, unspecified	27	(2.2)
Other diseases of the respiratory system	10	(0.8)
Endocrine, nutritional, and metabolic disorders	38	(3.2)
Unspecified diabetes mellitus	26	(2.2)
Other endocrine, nutritional, and metabolic disorders	12	(1.0)
Mental and behavioral disorders	29	(2.4)
Mental and behavioral disorders due to alcoholism	21	(1.7)
Other mental and behavioral disorders	8	(0.7)
Diseases of the digestive system	22	(1.8)
Fibrosis and cirrhosis of the liver	15	(1.2)
Other diseases of the digestive system	7	(0.6)
Other diseases of the nervous, infectious, immune, and genitourinary systems and neoplasms	51	(4.2)

\* Abnormally high body temperature caused by the body's inability to dissipate heat. † N = 1,203.

disorders (e.g., diabetes mellitus) were the underlying causes in 38 (3%) of total deaths. All other underlying causes, including infection and psychiatric disorders, accounted for 139 (11%) deaths.

Reported by: GE Luber, PhD, CA Sanchez, MD, Div of Environmental Hazards and Health Effects, National Center for Environmental Health/Agency for Toxic Substances and Disease Registry (proposed); LM Conklin, MD, EIS Officer, CDC.

Editorial Note: In this analysis, the inclusion of hyperthermia as a contributing cause of death increased by 54% the total number of heat-related deaths during 1999-2003 that would have been counted through inclusion of a heat-related underlying cause alone. Because heat-related illnesses can exacerbate existing medical conditions and death from heat exposure can be preceded by various symptoms, heat-related deaths can be difficult to identify when illness onset or death is not witnessed by a clinician. In addition, the criteria used to determine heat-related causes of death vary among states. This can lead to underreporting heat-related deaths or to reporting heat as a factor contributing to death rather than the underlying cause (3). The demographics (e.g., sex, age group, and state) of the decedents described in this report are

<sup>§</sup> Heat-related deaths can also be caused by exposure to excessive heat of manmade origin (e.g., from saunas or furnace malfunctions; International Statistical Classification of Diseases and Related Health Problems, Tenth Revision [ICD-10] code W92) and can include homicides and suicides involving exposure to excessive heat. Deaths from these causes were not included in this analysis. <sup>¶</sup>Abnormally high body temperature caused by the body's inability to dissipate

heat.

consistent with previous descriptions of persons at risk for heat-related deaths (4,5).

This analysis also provides additional information on the underlying causes of death in which hyperthermia was a contributing factor. Although this report might still underestimate the extent of overall heat-related morbidity and mortality, the inclusion of hyperthermia as a contributing factor to death provides a more comprehensive view of the actual effects of heat-related illnesses. The association between cardiovascular disease and heat-related death is well established (7); this analysis suggests the need for additional investigations of the association between noncardiovascular conditions, such as endocrine and respiratory diseases, and the risk for heatrelated death.

Continued exposure to excessive heat can lead to hyperthermia or death. Of the heat-related illnesses, heat exhaustion and heatstroke are the most serious. Heat exhaustion is characterized by muscle cramps, fatigue, headache, nausea or vomiting, and dizziness or fainting. The skin is often cool and moist, indicating that the body's mechanism for cooling itself (i.e., sweating) is still functioning. The pulse rate is typically fast and weak, and breathing is rapid and shallow. If untreated, heat exhaustion can progress to heatstroke (1). Heatstroke is a serious, life-threatening condition characterized by a high body temperature (>103°F [>39.4°C]); red, hot, and dry skin (no sweating); rapid, strong pulse; throbbing headache; dizziness; nausea; confusion; and unconsciousness. Symptoms can progress to encephalopathy, liver and kidney failure, coagulopathy, and multiple organ system dysfunction (2). Prompt treatment of heat-related illnesses with aggressive fluid replacement and cooling of core body temperature is critical to reducing morbidity and mortality (2).

Many heat-related deaths, regardless of whether they are associated with chronic medical conditions, are preventable. During periods of extreme heat, heat-related illnesses can be prevented by avoiding strenuous outdoor activities, drinking adequate amounts of fluid, avoiding alcohol consumption, wearing lightweight clothing, and using air-conditioning. Groups at high risk include young children, persons aged >65 years, persons who do strenuous activities outdoors, and persons with chronic (particularly cardiovascular) medical conditions (8).

During heat waves, young children, older adults, and chronically ill persons should be checked frequently by relatives, neighbors, and caretakers to evaluate their heat exposure, recognize symptoms of heat-related illness, and take appropriate preventive action. Regardless of the outdoor temperature, parents and other child-care providers should never leave children alone in cars and should ensure that children cannot lock themselves inside enclosed spaces, such as the trunks of automobiles.

Communities can prepare for heat-related illnesses by creating well-defined heat response plans (HRPs) (9). Both governmental and nongovernmental organizations, each with specific roles and responsibilities, can be involved in this planning. HRP protocols and communication tools should be reviewed annually, before the summer months begin. The HRPs should identify populations at high risk for heatrelated illness and death and determine which strategies will be used to reach them during heat emergencies. The HRP should also include specific criteria for activation and deactivation of the plan. Postemergency evaluations of HRPs are necessary to make appropriate revisions and improve plan effectiveness.

### References

- 1. CDC. Extreme heat. Atlanta, GA: US Department of Health and Human Services, CDC; 1996. Available at http://www.cdc.gov/nceh/ hsb/extremeheat.
- Lugo-Amador NM, Rothenhaus T, Moyer P. Heat-related illness. Emerg Med Clin North Am 2004;22:315–27.
- 3. Donoghue ER, Graham MA, Jentzen JM, Lifschultz BD, Luke JL, Mirchandani HG. Criteria for the diagnosis of heat-related deaths: National Association of Medical Examiners: position paper. Am J Forensic Med Pathol 1997;18:11–4.
- 4. CDC. Heat-related mortality—Arizona, 1993–2002, and United States, 1979–2002. MMWR 2005;54:628–30.
- CDC. Heat-related deaths—Chicago, Illinois, 1996–2001, and United States, 1979–1999. MMWR 2003;52:610–3.
- 6. CDC. Multiple-cause-of-death mortality data sets, 1999–2003. Hyattsville, MD: US Department of Health and Human Services, National Center for Health Statistics.
- Wainwright SH, Buchanan SD, Mainzer HM, Parrish RG, Sinks TH. Cardiovascular mortality—the hidden peril of heat waves. Prehospital Disaster Med 2000;15:79.
- Semenza JC, Rubin CH, Falter KH, et al. Risk factors for heat-related mortality during the July 1995 heat wave in Chicago. N Engl J Med 1996;35:84–90.
- 9. Bernard SM, McGeehin MA. Municipal heat wave response plans. Am J Public Health 2004;94:1520–2.

### Chagas Disease After Organ Transplantation — Los Angeles, California, 2006

Chagas disease is an infection caused by the parasite *Trypanosoma cruzi*. Reduviids (i.e., "kissing bugs") transmit the parasite through infected feces. *T. cruzi* also can be transmitted congenitally and through blood transfusion or organ transplantation. The infection is lifelong if left untreated; the majority of infected persons are asymptomatic, and their disease remains undiagnosed. Although routine serologic testing of organ and blood donors is performed in areas of Latin

America where Chagas disease is endemic, no *T. cruzi* screening test is licensed in the United States. However, seroprevalence studies using research tests have documented the presence of *T. cruzi* antibodies in U.S. blood (1) and organ donor populations (2). This report describes two cases of acute Chagas disease in heart transplant recipients reported by two Los Angeles County hospitals in February 2006. In the United States, one previous report documented *T. cruzi* transmission through solid organ transplantation, in which three organ recipients were infected (3).

### **Case Reports**

Case 1. In December 2005, a man aged 64 years with idiopathic cardiomyopathy received a heart transplant. In January 2006, he was treated with enhanced immunosuppression for suspected organ rejection. In February 2006, he was readmitted to the hospital with anorexia, fever, and diarrhea of 2 weeks' duration. A peripheral blood smear revealed T. cruzi trypomastigotes, blood cultures were positive for T. cruzi, and endomyocardial biopsy specimens contained amastigotes. The patient was interviewed about natural exposures, and organ procurement and transplantation records were reviewed. He had no identifiable risk factors for T. cruzi infection (e.g., travel to a country endemic for Chagas disease). He was seronegative for T. cruzi antibodies but positive for T. cruzi DNA by polymerase chain reaction (PCR), indicating recent infection. After initiation of nifurtimox therapy, his parasitemia rapidly cleared. However, in April 2006, the patient died from complications attributed to acute rejection of the transplanted organ.

To identify the source of infection, a traceback was conducted on all blood products transfused to the heart donor and recipient. All available blood donors tested negative for *T. cruzi* antibodies by immunofluorescence assay (IFA) and radioimmunoprecipitation assay (RIPA). However, blood from the organ donor tested seropositive for *T. cruzi* antibodies by RIPA and tested borderline-positive by IFA. The organ donor had been born in the United States but had traveled to a *T. cruzi*-endemic area of Mexico.

Three additional patients received a liver and both kidneys from the same donor. These patients are *T. cruzi*–seronegative by IFA and have no evidence of parasitemia by PCR. They continue to be monitored.

**Case 2.** In January 2006, a man aged 73 years with ischemic cardiomyopathy received a heart transplant. The patient was readmitted to the hospital in February 2006 with fever, fatigue, and an abdominal rash. A thin blood smear revealed *T. cruzi* trypomastigotes, and blood cultures were positive for *T. cruzi*. Organ procurement and transplantation records were reviewed.

The patient had no identifiable risk factors for *T. cruzi* infection. He was seronegative but PCR-positive for *T. cruzi*, indicating recent infection.

The patient's rash and parasitemia resolved after 10 days of nifurtimox treatment. Serial endomyocardial biopsies did not reveal trypanosomes, and he remained seronegative by IFA for *T. cruzi*. The patient died in June 2006. The primary cause of death was cardiac failure; no autopsy was performed.

The source of infection was investigated with the same methods used for case 1. All available blood donors tested seronegative for *T. cruzi*. The organ donor, who had been born in El Salvador and was residing in Los Angeles at the time of his death, tested positive for *T. cruzi* antibodies by RIPA but had a negative IFA. Three other patients received solid organs from the same donor. These patients are *T. cruzi*-seronegative by IFA and have no evidence of parasitemia by PCR. They continue to be monitored. No record of previous blood donations by either organ donor was found.

**Reported by:** L Mascola, MD, Acute Communicable Disease Control Program, Los Angeles Dept of Health Svcs; B Kubak, MD, Univ of California; S Radhakrishna, MD, Univ of Southern California; T Mone, One Legacy, Los Angeles; R Hunter, California Dept of Health Svcs. DA Leiby, PhD, American Red Cross, Rockville, Maryland. M Kuehnert, MD, Div of Healthcare Quality Promotion, National Center for Infectious Diseases; A Moore, MD, F Steurer, MS, G Lawrence, MPH, Div of Parasitic Diseases, National Center for Preparedness, Detection, and Control of Infectious Diseases (proposed); H Kun, ScD, EIS Officer, CDC.

**Editorial Note:** The two cases described in this report are the fourth and fifth cases of reported *T. cruzi* transmission through solid organ transplantation in the United States. The prevalence of infection with *T. cruzi* in the United States varies by region and might now be higher than previously thought, especially in geographic areas such as Los Angeles County, where a substantial proportion of blood and organ donors have emigrated from Chagas-endemic countries. Because organ donors frequently receive blood transfusions, infection can be transmitted to recipients either by transfusion or transplant. Currently, no policies recommend laboratory screening for *T. cruzi*. Diagnostic tests available for research studies have variable sensitivities and specificities, and no licensed screening test exists.

Physicians and laboratorians should maintain a high index of suspicion for *T. cruzi* infection in transplant and transfusion recipients who exhibit complications of an unknown etiology when more common sources have been excluded. Acute Chagas disease in severely immunocompromised patients is of special concern because the clinical course is often severe and rapidly progressive. If Chagas is suspected, manual microscopic examination of peripheral blood smears should be performed. Patients with acute Chagas disease should be treated as early as possible in the course of the infection. Available treatments include nifurtimox (available from CDC Drug Service, telephone 404-639-3670) or benznidazole (only distributed outside of the United States).

### References

- 1. Leiby DA, Herron RM Jr, Read EJ, Lenes BA, Stumpf RJ. *Trypanosoma cruzi* in Los Angeles and Miami blood donors: impact of evolving donor demographics on seroprevalence and implications for transfusion transmission. Transfusion 2002;42:549–55.
- 2. Nowicki MJ, Chinchilla C, Corado L, et al. Prevalence of antibodies to *Trypanosoma cruzi* among solid organ donors in Southern California: a population at risk. Transplantation 2006;81:477–9.
- 3. CDC. Chagas disease after organ transplantation—United States, 2001. MMWR 2002;51:210–2.

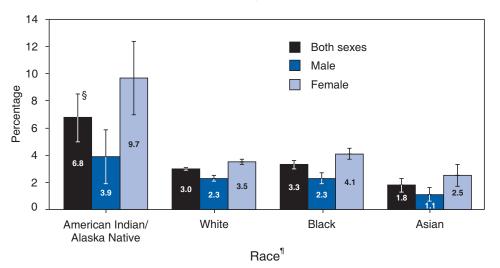
### Erratum: Vol. 55, No. RR-10

In the *MMWR Recommendations and Reports*, "Prevention and Control of Influenza: Recommendations of the Advisory Committee on Immunization Practices (ACIP)," in Table 4, on page 15, the mercury content (mcg Hg/0.5-mL dose) for FLUARIX<sup>TM</sup> should read <1.0.

# **QuickStats**

FROM THE NATIONAL CENTER FOR HEALTH STATISTICS

Percentage of Adults with Self-Assessed Symptoms of Serious Psychological Distress,\* by Sex and Race — United States, 2000–2004<sup>†</sup>



- \* Six psychological distress questions were included in the adult component of the National Health Interview Survey. These questions asked: "During the past 30 days, how often did you feel 1) so sad that nothing could cheer you up, 2) nervous, 3) restless or fidgety, 4) hopeless, 5) that everything was an effort, or 6) worthless?" Response codes (0–4) for the six items for each person were summed to yield a point value on a 0–24 point scale. A value of 13 or more was used to define serious psychological distress.
- <sup>+</sup> Estimates are age adjusted to the 2000 projected U.S. standard population aged ≥18 years using four age groups: 18–24 years, 25–44 years, 45–64 years, and ≥65 years. Estimates are based on household interviews of a sample of the civilian, noninstitutionalized U.S. population.
- §95% confidence interval.
- <sup>¶</sup> Persons who indicated a single racial group.

During 2000–2004, American Indian/Alaska Native (AI/AN) adults were most likely to have self-assessed symptoms of serious psychological distress, and Asian adults were least likely. Overall, the percentage was highest for AI/AN women, who were at least twice as likely as white women and black women and nearly four times as likely as Asian women to have self-assessed symptoms of serious psychological distress. AI/AN men were more than three times as likely as Asian men to have symptoms.

SOURCES: National Health Interview Surveys, 2000–2004. Available at http://www.cdc.gov/nchs/nhis.htm.

Barnes PM, Adams PF, Powell-Griner E. Health characteristics of the American Indian and Alaska Native adult population: United States 1999–2003. Advance data from vital and health statistics; no. 356. Hyattsville, MD: US Department of Health and Human Services, CDC; 2005. Available at http://www.cdc.gov/nchs/data/ad/ ad356.pdf.

Kessler RC, Barker PR, Colpe LJ, et al. Screening for serious mental illness in the general population. Arch Gen Psychiatry 2003;60:184–9.

TABLE I. Provisional cases of infrequently reported notifiable diseases (<1,000 cases reported during the preceding year) — United States, week ending July 22, 2006 (29th Week)\*

	Current	Cum	5-year weekly	Total o	cases rep	orted for	r previou	s years	
Disease	week	2006	average <sup>†</sup>	2005	2004	2003	2002	2001	States reporting cases during current week (No.
Anthrax	_	1	0	_	_	_	2	23	
Botulism:		•	Ū.				-	20	
foodborne	_	3	1	19	16	20	28	39	
infant	1	36	1	90	87	76	69	97	TX (1)
other (wound & unspecified)	2	30	1	33	30	33	21	19	CA (2)
Brucellosis	1	55	2	122	114	104	125	136	CA (1)
Chancroid	_	18	0	17	30	54	67	38	
Cholera	_	3	0	8	5	2	2	3	KS (1)
Cyclosporiasis§	4	49	8	734	171	75	156	147	FL (2), TN (2)
Diphtheria	_	_	_	_	_	1	1	2	
Domestic arboviral diseases <sup>§,¶</sup> :									
California serogroup	—	1	5	78	112	108	164	128	
eastern equine	—	_	1	21	6	14	10	9	
Powassan	—	_	0	1	1	—	1	N	
St. Louis	_	1	1	10	12	41	28	79	
western equine	_	—	_	_	—	—	—	_	
Ehrlichiosis <sup>§</sup> :									
human granulocytic	13	115	20	790	537	362	511	261	NY (11), MN (1), CA (1)
human monocytic	11	115	12	522	338	321	216	142	NY (3), MO (5), FL (1), KY (1), TN (1)
human (other & unspecified)	1	28	3	122	59	44	23	6	AR (1)
Haemophilus influenzae,**									
invasive disease (age <5 yrs):									
serotype b	_	4	0	9	19	32	34	_	
nonserotype b	2	48	2	135	135	117	144	_	IN (1), NC (1)
unknown serotype	1	100	2	217	177	227	153	_	MA (1)
Hansen disease <sup>§</sup>	—	33	2	88	105	95	96	79	
Hantavirus pulmonary syndrome§	1	15	1	29	24	26	19	8	CO (1)
Hemolytic uremic syndrome, postdiarrheal§	4	74	5	221	200	178	216	202	MN (1), MO (1), FL (1), TN (1)
Hepatitis C viral, acute	8	437	31	771	713	1,102	1,835	3,976	NY (1), MI (1), MO (1), NC (2), KY (1), AL (1), WA (1
HIV infection, pediatric (age <13 yrs) <sup>§,††</sup>	—	52	5	380	436	504	420	543	
Influenza-associated pediatric mortality <sup>§,§§,¶¶</sup>	1	40	0	49	—	N	N	N	KY (1)
Listeriosis	10	281	19	892	753	696	665	613	ME (1), IN (1), MN (2), MO (1), MD (2), WV (2), CA (1
Measles	***	24	2	66	37	56	44	116	
Meningococcal disease, <sup>†††</sup> invasive:									
A, C, Y, & W-135	—	130	4	297	—	—	—	—	
serogroup B	—	87	3	157	_	_	—	_	
other serogroup	—	12	0	27	_	_	—	_	
Mumps	16	5,331	5	314	258	231	270	266	NH (1), NY (1), OH (1), WI (2), IA (1), SD (1), KS (9
Plague	—	4	0	8	3	1	2	2	
Poliomyelitis, paralytic	—			1					
Psittacosis <sup>§</sup>		10	0	19	12	12	18	25	
Q fever <sup>§</sup>	4	75	2	139	70	71	61	26	CO (1), CA (3)
Rabies, human	—	1	0	2	7	2	3	1	
Rubella	_	4	0	11	10	7	18	23	
Rubella, congenital syndrome	—	1	_	1	—	1	1	3	
SARS-CoV <sup>S.SS</sup>	_	_	_	_	—	8	N	N	
Smallpox <sup>§</sup>	—	_							
Streptococcal toxic-shock syndrome <sup>§</sup>	_	64	1	129	132	161	118	77	
Streptococcus pneumoniae,§	_		10						
invasive disease (age <5 yrs)	7	626	10	1,257	1,162	845	513	498	MN (2), OK (1), TX (4)
Syphilis, congenital (age <1 yr)	1	117	8	361	353	413	412	441	AZ (1)
Tetanus	2	13	1	27	34	20	25	37	OH (2)
Toxic-shock syndrome (other than streptococca		54	2	96	95	133	109	127	NC (2), AL (1)
Trichinellosis	1	9	0	19	5	6	14	22	MN (1)
Tularemia <sup>§</sup>	2	38	4	154	134	129	90	129	MT (1), CA (1)
Typhoid fever	3	131	7	324	322	356	321	368	NY (1), DC (1), CA (1)
Vancomycin-intermediate Staphylococcus aure	us <sup>s</sup> —	2	—	2	_	N	N	N	
Vancomycin-resistant Staphylococcus aureus <sup>§</sup>	_	_	—	3	1	N	N	N	
Yellow fever		_	_		_	_	1		

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

<sup>+</sup> 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.

Includes both neuroinvasive and non-neuroinvasive. Updated weekly from reports to the Division of Vector-Borne Infectious Diseases, National Center for Infectious Diseases (ArboNET Surveillance).

\*\* Data for *H. influenzae* (all ages, all serotypes) are available in Table II.

<sup>+†</sup> Updated monthly from reports to the Division of HIV/AIDS Prevention, National Center for HIV/AIDS, STD and TB Prevention. 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 Division of Viral and Rickettsial Diseases, National Center for Infectious Diseases.

A total of 37 cases were reported for the 2005-06 flu season (October 2, 2005 [week 40]–May 20, 2006 [week 20]).

\*\*\* 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.

(29th Week)*										,,					
		Bro	Chlamyd vious	ia†				lioidomy vious	cosis				otosporio vious	liosis	
	Current		veeks	Cum	Cum	Current		eeks	Cum	Cum	Current		veeks	Cum	Cum
Reporting area	week	Med	Max	2006	2005	week	Med	Max	2006	2005	week	Med	Max	2006	2005
United States	9,550	18,752	35,170	503,334	533,193	52	126	1,643	3,819	2,166	49	60	860	1,342	1,332
New England Connecticut	280	627 171	1,550 1,214	16,956 4,696	17,836 5,509	N	0 0	0 0	N	N	6	4 0	35 14	81 9	76 9
Maine <sup>§</sup> Massachusetts	160	41 286	 432	1,021 7,734	1,187 7,805	N	0	0	N	N	2 1	0	3 15	14 31	13 31
New Hampshire	25	35	64	1,016	1,003	_	0	0	—	—	_	1	3	12	9
Rhode Island Vermont <sup>§</sup>	68 27	65 19	99 43	1,845 644	1,796 536	N	0 0	0 0	N	N	3	0 0	6 5	4 11	2 12
Mid. Atlantic	1,009	2,342	3,696	63,434	64,881		0	0			5	10	597	195	171
New Jersey New York (Upstate)	129 624	369 497	498 1,727	9,530 12,939	10,763 12,961	N N	0 0	0 0	N N	N N	5	0 3	8 561	6 59	13 46
New York City Pennsylvania	256	746 717	1,611 1,073	20,532 20,433	20,924 20,233	N N	0 0	0 0	N N	N N	_	2 4	15 21	33 97	45 67
E.N. Central	1,339	3,125	12,578	80,036	88,929	_	0	3	25	5	3	14	162	282	307
Illinois Indiana	599 195	955 389	1,536 552	25,963 9,168	27,376 11,027	N	0 0	0 0	N	N	2	2 1	16 13	31 31	46 17
Michigan Ohio	483 33	579 776	9,888 1,445	17,681 17,011	14,494 24,821	_	0 0	3 1	21 4	5	1	2 5	7 109	54 106	41 86
Wisconsin	29	399	531	10,213	11,211	Ν	Ő	0	N	Ν	—	4	38	60	117
W.N. Central Iowa	532	1,140 150	1,437 225	31,221 4,098	32,521 3,866	N	0 0	12 0	N	4 N	11 1	9 1	52 11	235 30	209 58
Kansas Minnesota	103 7	154 234	269 329	4,370 5,940	3,980 6,821	N	0 0	0 12	N	N 3	7	1 3	5 22	27 89	15 46
Missouri	262	435	531	11,719	12,598	_	0	1	_	1	2	2	37	45	70
Nebraska <sup>§</sup> North Dakota	76 17	95 33	176 57	2,784 864	2,897 866	N N	0 0	1 0	N N	N N	1	1 0	4 4	15 6	7
South Dakota	67	52	117	1,446	1,493	N	0	0	N	N	—	0	4	23	13
S. Atlantic Delaware	2,482 71	3,383 68	4,920 92	96,323 1,964	99,519 1,792	N	0 0	1 0	2 N	N	14	14 0	54 2	323 1	254
District of Columbia Florida	52 649	58 900	103 1,089	1,445 26,047	2,123 24,280	N	0	0 0	N	N	1 5	0 6	3 28	9 137	2 116
Georgia	303	615	2,142	14,549	17,018	_	0	0 1	2	_	_	3 0	9 4	84	61
Maryland <sup>§</sup> North Carolina	682	355 569	519 1,772	9,741 18,321	10,167 18,599	N	0	0	Ν	N	6	1	10	10 43	11 29
South Carolina <sup>§</sup> Virginia <sup>§</sup>	271 420	286 429	1,306 840	9,402 12,979	10,942 13,140	N N	0 0	0 0	N N	N N	2	0 1	4 8	18 18	10 21
West Virginia	34	57	226	1,875	1,458	N	0	0	N	N	—	0	3	3	4
E.S. Central Alabama <sup>§</sup>	1,314 230	1,410 370	1,941 754	40,556 11,271	39,013 8,173	N	0 0	0 0	N	N	5 2	3 0	29 5	64 28	39 13
Kentucky Mississippi	177 390	160 378	402 609	5,357 10,175	5,421 12,538	Ν	0	0	N	N	1	1 0	25 1	14 6	13
Tennessee§	517	489	614	13,753	12,881	N	0	0	N	N	2	1	4	16	13
W.S. Central Arkansas	612 107	2,146 158	3,605 340	58,021 4,089	63,213 4,908	_	0 0	1 0	_	_	1	3 0	30 2	69 8	42 2
Louisiana	238 230	279 230	761 2,159	8,799 6,456	10,784 6,010	N	0	1 0	N	N N	1	0 1	21 10	 21	4 16
Oklahoma Texas§	230 37	1,385	1,800	38,677	41,511	N	0	0	N	N	_	2	19	40	20
<b>Mountain</b> Arizona	350 234	1,059 365	1,839 642	26,203 9,853	35,140 12,432	_	92 91	452 448	2,422 2,359	1,361 1,302	2	2 0	9 1	53 4	69 6
Colorado	42	195	482	3,113	8,176	N	0	0	N	N	1	1	3	17	22
Idaho <sup>§</sup> Montana	29 45	52 43	168 195	1,773 1,411	1,346 1,279	N N	0 0	0 0	N N	N N	1	0 0	2 2	6 8	6 12
Nevada <sup>§</sup> New Mexico <sup>§</sup>	_	85 171	432 338	2,055 4,987	4,043 4,839	_	1 0	4 2	21 6	39 12	_	0 0	1 3	3 5	8 8
Utah Wyoming	_	89 26	136 55	2,231 780	2,413 612	_	1 0	3	34 2	6	_	0 0	3	6 4	5 2
Pacific	1,632	3,291	5,079	90,584	92,141	 52	35	ے 1,179	ے 1,370	2 796	2	3	52	4	2 165
Alaska California	74 1,312	84 2,547	152 4,231	2,345 70,747	2,288 71,298	 52	0 35	0 1,179	1,370	796	1	0 0	2 14	3	116
Hawaii	4	107	135	2,929	3,012	N	0	0	N	N	_	0	1	1	—
Oregon <sup>§</sup> Washington	242	174 354	315 604	4,594 9,969	4,922 10,621	N N	0 0	0 0	N N	N N	1	1 0	20 38	36	26 23
American Samoa	U	0	46	U	U	U	0	0	U	U	U	0	0	U	U
C.N.M.I. Guam	U	0 18	0 37	U	U 429	U	0 0	0 0	U	U		0 0	0 0	U	U
Puerto Rico U.S. Virgin Islands	_	72 2	162 12	1,877 83	2,475 176	N	0 0	0 0	N	N	N	0 0	0 0	N	N
		L	12	00			0	Ŭ				0	0		

 TABLE II. Provisional cases of selected notifiable diseases, United States, weeks ending July 22, 2006, and July 23, 2005 (29th Week)\*

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

N: Not notifiable. Cum: Cumulative year-to-date counts. Med: Median. Max: Maximum.

<sup>†</sup> Incidence data for reporting years 2005 and 2006 are provisional.
 <sup>†</sup> Chlamydia refers to genital infections caused by *Chlamydia trachomatis*.
 <sup>§</sup> Contains data reported through the National Electronic Disease Surveillance System (NEDSS).

			Giardiasi	s			G	onorrhe	a		Hae		<i>is influen</i> es, all sei	<i>izae</i> , invas rotypes	sive
	Current		vious veeks	Cum	Cum	Current		/ious /eeks	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	156	310	1,029	7,658	9,107	3,469	6,462	14,136	170,251	179,018	30	37	142	1,113	1,412
New England Connecticut	12	25 0	75 37	586 140	816 185	51	101 42	288 241	2,900 1,096	3,393 1,486	6	2 0	19 9	86 23	100 29
Maine <sup>†</sup>	8 1	2 10	11 34	56 259	99 352	 27	2 47	6 75	58	76 1,441	3 3	0 1	2 4	11 40	7
Massachusetts New Hampshire	_	0	3	10	40	2	4	9	1,317 122	90	- 3	0	1	2	48 5
Rhode Island Vermont <sup>†</sup>	2 1	0 3	25 9	47 74	57 83	19 3	7 1	19 4	269 38	268 32	_	0 0	7 2	2 8	7 4
Mid. Atlantic	22	60 7	254 18	1,328 96	1,674	193	640 107	1,014	16,114	17,996	2	7	30 4	208	262
New Jersey New York (Upstate)	22	23	227	565	223 560	22 99	125	150 455	2,633 3,336	3,087 3,563	2	2	27	26 81	49 77
New York City Pennsylvania	_	14 15	32 29	341 326	473 418	72	173 210	402 391	4,463 5,682	5,425 5,921	_	1 3	4 8	15 86	47 89
E.N. Central	19	51	110	1,147	1,582	463 224	1,284	7,047	31,792	35,229	6	5	14	154 32	251
Illinois Indiana	N	11 0	32 0	195 N	396 N	45	374 154	567 228	9,711 3,759	10,717 4,412	6	1 1	6 7	43	81 47
Michigan Ohio	4 15	14 16	29 34	329 375	376 344	178 14	235 392	5,880 681	7,153 7,839	5,552 11,488	_	0 1	3 6	15 48	13 82
Wisconsin		11	40	248	466	2	124	172	3,330	3,060	—	0	4	16	28
W.N. Central lowa	8 1	35 5	260 14	945 123	1,035 135	216	357 32	461 54	9,688 823	10,161 851	4	2 0	15 0	72	67
Kansas Minnesota	1	4 4	9 238	86 403	102 467	41 6	47 62	124 102	1,230 1,468	1,388 1,908	3	0 0	3 9	12 35	7 26
Missouri	6	10	32	253	211	138	182	240	5,214	5,082	_	0	7	18	23
Nebraska† North Dakota	_	2 0	6 7	43 5	62 5	27 1	21 2	56 7	697 54	678 48	1	0 0	2 3	5 2	10 1
South Dakota		1	7	32	53	3	6	13	202	206		0	0		
S. Atlantic Delaware	27	50 1	95 3	1,164 15	1,370 31	1,234 26	1,499 25	2,334 44	41,404 815	42,259 435	7	9 0	24 1	306 1	344
District of Columbia Florida	3 22	1 18	5 39	39 518	22 483	32 370	36 420	66 533	885 12,320	1,106 10,761	5	0 3	1 9	2 104	5 84
Georgia Maryland†	1	11 4	26 10	211 91	379 94	1 75	294 129	1,014 231	6,476 3,664	7,705 3,743	_	2 1	6 5	48 36	74 45
North Carolina	N	0	0	N	Ν	450	279	766	9,068	8,729	2	Ó	9	39	58
South Carolina <sup>†</sup> Virginia <sup>†</sup>	1	1 9	7 50	55 223	71 270	134 132	128 136	748 288	4,184 3,518	4,860 4,542	_	1 1	3 8	23 41	21 37
West Virginia E.S. Central	9	0 8	6 18	12 203	20 193	14 512	16 561	42 726	474	378	- 4	0 2	4 6	12 68	20 78
Alabama <sup>†</sup>	3	4	14	99	87	111	178	308	16,086 5,181	15,019 4,749	4	0	4	18	15
Kentucky Mississippi	<u>N</u>	0 0	0 0	<u>N</u>	N	69 141	56 140	132 225	1,852 3,839	1,773 3,882	_	0 0	1 1	2 3	10
Tennessee <sup>†</sup>	6	4	12	104	106	191	182	279	5,214	4,615	3	1	4	45	53
W.S. Central Arkansas	2 1	5 2	31 6	101 43	125 40	344 66	862 80	1,430 186	24,645 2,222	25,285 2,508	_	1 0	15 2	40 5	82 7
Louisiana Oklahoma	1	0 2	5 24	4 54	23 62	144 112	167 85	461 764	5,240 2,380	5,856 2,435	_	0 1	2 14	1 34	31 41
Texas <sup>†</sup>	Ν	0	0	Ν	Ν	22	526	733	14,803	14,486	—	0	1	_	3
Mountain Arizona	20	30 2	57 36	655 33	669 80	82 52	219 90	552 201	5,601 2,340	7,474 2,755	1	3 1	8 7	113 42	151 78
Colorado Idaho <sup>†</sup>	7 3	9 3	33 11	227 86	233 68	28 1	49 3	90 10	971 100	1,737 55	1	1 0	4 1	35 3	31 4
Montana	2	2	7	36	21	1	3	19	106	76	_	0	Ö	—	_
Nevada <sup>†</sup> New Mexico <sup>†</sup>	_	2 1	6 6	29 24	47 39	_	26 30	194 64	693 901	1,584 866	_	0 0	1 4	17	13 16
Utah Wyoming	6 2	7 0	19 3	208 12	168 13	_	16 2	23 6	419 71	365 36	_	0 0	4 2	14 2	5 4
Pacific	37	60	202	1,529	1,643	374	807	963	22,021	22,202	_	2	20	66	77
Alaska California	1 22	1 43	7 105	24 1,109	50 1,235	10 293	11 667	23 830	302 18,110	324 18,447	_	0 0	19 9	7 15	5 31
Hawaii Oregon <sup>†</sup>	6	1	3	30 195	38 187	3	19 28	36 58	525 693	553 877	_	0	1 6	10 32	7 34
Washington	8	8	90	171	133	68	74	142	2,391	2,001	_	0	4	2	
American Samoa C.N.M.I.	U U	0 0	0	U U	U U	U U	0 0	2 0	U U	U U	U U	0	0 0	U U	U U
Guam	_	0	3	—	4	_	1	15	_	58	_	Ō	2	_	2
Puerto Rico U.S. Virgin Islands	_	2 0	20 0	20	106	_	5 0	16 5	127 17	229 43	_	0 0	1 0	_	3

 TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending July 22, 2006, and July 23, 2005

 (29th Week)\*

(29th Week)*				Нера	titis (viral,	acute), by ty	/ре								
		Dro	A vious				Prev	B					egionello: vious	sis	
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	21	75	245	1,773	2,082	43	85	597	2,107	2,897	26	41	127	854	861
New England Connecticut Maine <sup>†</sup> Massachusetts New Hampshire Rhode Island Vermont <sup>†</sup>	2 1 1 1	5 1 3 0 0 0	22 3 14 7 4 2	104 21 50 16 5 7	237 29 1 142 55 5 5 5	  	2 0 1 0 0 0	9 3 2 5 2 2 1	36 	81 29 6 26 17 1 2	2 1 — 1 1	2 0 1 0 0 0	12 8 1 6 1 10 3	46 17 3 15 1 8 2	47 15 3 19 5 3 2
Mid. Atlantic New Jersey New York (Upstate) New York City Pennsylvania	1 1 	9 2 1 2 1	24 9 14 10 6	161 32 46 53 30	345 63 54 172 56	 	9 3 1 1 3	55 10 43 5 9	191 47 35 28 81	379 140 34 78 127	11 	13 1 5 1 6	53 11 29 20 17	241 9 118 13 101	283 61 60 55 107
<b>E.N. Central</b> Illinois Indiana Michigan Ohio Wisconsin		6 1 0 2 1 1	15 11 5 8 4 5	147 24 17 55 39 12	187 57 11 63 31 25	10 5 2 2 1	8 0 3 2 0	24 6 17 7 7 4	185 7 28 76 68 6	327 94 17 108 81 27	2 1 1 	9 1 0 2 4 0	25 5 6 19 5	176 14 13 43 87 19	154 22 12 42 64 14
W.N. Central Iowa Kansas Minnesota Missouri Nebraska <sup>†</sup> North Dakota South Dakota	1  1  	2 0 0 1 0 0 0	30 2 5 29 4 3 2 3	78 4 21 6 31 9 	51 13 10 3 22 3 —	2  2 	4 0 0 3 0 0 0	22 3 13 7 1 0 1	92 9 6 10 61 6 	147 14 19 14 79 18 		1 0 0 0 0 0 0	12 1 10 3 2 1 6	23 2 1 13 3 -	38 3 11 12 2 1 7
S. Atlantic Delaware District of Columbia Florida Georgia Maryland <sup>†</sup> North Carolina South Carolina <sup>†</sup> Virginia <sup>†</sup> West Virginia	6    2  2 2 	11 0 5 1 1 0 1 1 0	34 2 18 6 6 20 3 11 3	261 9 25 29 32 53 10 27 4	327 4 2 113 68 29 41 18 49 3	8  7 -1  	23 1 0 8 3 2 0 2 1 0	66 4 19 8 9 23 7 18 18	625 19 4 236 89 84 91 42 20 40	824 19 6 283 128 92 92 92 94 86 24	7 3 4 	9 0 3 0 1 0 1 0	19 2 8 4 6 5 1 7 3	195 3 8 9 39 20 2 2 28 4	190 10 3 55 16 49 16 10 23 8
E.S. Central Alabama <sup>†</sup> Kentucky Mississippi Tennessee <sup>†</sup>	3 1 1 1	2 0 0 0 1	15 9 5 1 7	62 8 24 4 26	139 14 11 13 101	9 4 5	6 2 1 0 2	18 7 5 3 12	192 70 40 8 74	205 49 41 33 82	1  - 1	2 0 0 0 1	9 1 4 1 7	44 7 11 1 25	42 9 11 2 20
W.S. Central Arkansas Louisiana Oklahoma Texas <sup>†</sup>	 	7 0 0 0 5	77 9 4 2 73	116 29 1 4 82	221 8 37 4 172	7 4 3	13 1 0 0 11	315 4 3 17 295	335 21 5 17 292	299 39 47 28 185	1 — — 1	1 0 0 0	32 3 1 3 26	28 1 - 1 26	17 4 2 11
Mountain Arizona Colorado Idaho† Montana Nevada† New Mexico† Utah Wyoming	1     1	6 2 1 0 0 0 0 0 0	18 16 2 2 3 2 1	130 64 24 7 6 6 10 11 2	166 85 19 18 7 9 14 13 1	1    	6 4 1 0 0 0 0 0 0	39 27 5 2 7 4 3 5 1	148 86 21 7 — 13 2 19 —	284 173 33 7 3 30 12 25 1	2 2         	1 0 0 0 0 0 0 0	7 3 1 2 1 2 1 2 1	46 14 5 6 3 2 13	56 12 15 3 4 11 2 6 3
Pacific Alaska California Hawaii Oregon <sup>†</sup> Washington	7 7 —	19 0 15 0 1	163 1 162 2 5 13	714 — 653 8 26 27	409 3 342 16 24 24	6 6 	10 0 7 0 1 0	61 41 1 6 18	303 2 239 4 33 25	351 7 240 2 59 43	  	2 0 2 0 0	9 1 9 1 0	55  55  N	34 — 33 1 N
American Samoa C.N.M.I. Guam Puerto Rico U.S. Virgin Islands	U U 	0 0 0 0	0 0 3 0	U U 9	1 U 2 46	U U —	0 0 1 0	0 0 2 8 0	U U 17	U 16 29	U U —	0 0 0 0	0 0 1 0	U U 1	U U 

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending July 22, 2006, and July 23, 2005 (29th Week)\*

(29th Week)*			Luma dia					Meloria		
		Pre	Lyme dise evious	ease			Prev	Malaria vious	1	
Reporting area	Current week		veeks Max	Cum 2006	Cum 2005	Current week		eeks Max	Cum 2006	Cum 2005
United States	426	247	2,153	5,451	9,600	13	24	125	576	702
New England	212	37	780	945	1,667	_	1	12	39	31
Connecticut	184	8	753	725	157	_	0	10	10	
Mainet	8	2	26	47	118	_	0	1	3	2
Massachusetts New Hampshire	17	3 5	163 29	26 128	1,305 68	_	0 0	3 3	17 8	22 4
Rhode Island	_	Ő	12		4	_	Ő	8	_	2
Vermont <sup>†</sup>	3	1	5	19	15	_	0	1	1	1
Mid. Atlantic	153	151	1,176	3,121	5,441	1	4	15	86	192
New Jersey New York (Upstate)	13 140	25 76	229 1,150	749 1,450	2,296 963	1	1	7 11	13 20	45 25
New York City		0	25	1,430	215	_	2	8	37	101
Pennsylvania	_	34	376	921	1,967	—	1	2	16	21
E.N. Central	2	13	136	407	1,151	—	2	8	53	81
Illinois Indiana	1	0 0	13 4	8	88 12	_	1 0	5 3	15 6	43 3
Michigan	1	1	4 7	8 21	12	_	0	2	6 9	3 15
Ohio	_	1	5	17	26		0	3	18	14
Wisconsin	—	10	116	361	1,012	_	0	3	5	6
W.N. Central	11	11	98	174	203	1	0	32	28	29
lowa Kansas	_	1 0	8 2	32 3	56 2	1	0 0	1 2	1 4	4 3
Minnesota	10	6	96	121	137	_	0	30	14	11
Missouri	1	0	3	10	7		0	2	4	11
Nebraska <sup>†</sup> North Dakota	_	0 0	2 3	7	_	_	0 0	2 1	3 1	_
South Dakota	_	õ	1	1	1	_	õ	1	1	_
S. Atlantic	27	28	124	634	1,016	3	6	16	169	152
Delaware	_	8	34	235	386	—	0	1	5	2
District of Columbia Florida	7 4	0 1	2 5	18 18	4 14	2	0 1	2 6	2 29	4 25
Georgia	-	0	1		4		1	6	50	33
Maryland <sup>†</sup>	16	15	87	283	495	_	1	9	36	57
North Carolina South Carolina <sup>†</sup>	_	0 0	5 3	15 5	27 8	1	0 0	8 2	13 5	16 3
Virginia <sup>†</sup>	_	3	22	57	74	_	1	9	28	11
West Virginia	—	0	44	3	4		0	2	1	1
E.S. Central	—	0	4	4	15	1	0	3	14	13
Alabama <sup>†</sup>	_	0 0	1 2	1	2	_	0 0	2 2	7 1	3 4
Kentucky Mississippi	_	0	2	_		_	0	1	3	4
Tennessee <sup>†</sup>	_	0	4	3	13	1	0	2	3	6
W.S. Central	—	0	5	5	51	1	2	31	39	51
Arkansas Louisiana	_	0	1 0	_	3 3	—	0 0	2 1	1	3 2
Oklahoma	_	0	0	_	- 3	_	0	6	3	23
Texas <sup>†</sup>	—	0	5	5	45	1	1	29	35	43
Mountain	—	0	4	7	9	—	0	9	23	31
Arizona Colorado	_	0 0	4 1	2 1	_	_	0 0	9 2	4 9	5 17
Idaho <sup>†</sup>	_	0	1	_	1	_	0	0	9	
Montana	—	0	0	—	_	_	0	1	1	_
Nevada <sup>†</sup> New Mexico <sup>†</sup>	_	0 0	1	_	2 2	_	0 0	1 1	1 1	2 2
Utah	_	0	1	4	1	_	0	2	7	4
Wyoming	—	0	1	—	3		0	1	—	1
Pacific	21	4	14	154	47	6	4	13	125	122
Alaska California	20	0 3	1 14	1 150	3 27	2 4	0 3	4 10	16 86	3 90
Hawaii	20 N	0	0	150 N	27 N	4	0	10	86	90 12
Oregon <sup>†</sup>	_	0	2	2	15	—	0	2	7	6
Washington	1	0	3	1	2	—	0	5	15	11
American Samoa	U	0	0	U	U	U	0	0	U	U
C.N.M.I. Guam	U	0	0 0	U	U	U	0 0	0	U	U
Puerto Rico	N	0	0	N	Ν	_	0	1	_	2
U.S. Virgin Islands	—	0	0	—	—	—	0	0	_	_

TABLE II. (*Continued*) Provisional cases of selected notifiable diseases, United States, weeks ending July 22, 2006, and July 23, 2005 (29th Week)\*

					gococcal d	isease, inva									
			All serogi vious	roups			Sero	<u> </u>	Inknown			Bros	Pertus /ious	sis	
Departing area	Current		veeks	Cum 2006	Cum 2005	Current week	52 w		Cum 2006	Cum 2005	Current week		veeks Max	Cum 2006	Cum 2005
Reporting area United States	week 6	20	Max 85	683	798	<u>wеек</u> 6	13	58	454	488	111	290	2,877	6,667	11,758
New England Connecticut Maine <sup>†</sup> Massachusetts New Hampshire Rhode Island Vermont <sup>†</sup>	1 — — 1 —	1 0 0 0 0 0 0	3 2 1 2 2 1 1	31 8 3 13 5 	52 10 25 9 2 4	1  - 1 		2 2 1 2 0 0	23 2 3 13 5 —	19 1 2 5 9 	17 — — 17 — 17 —	30 1 1 23 2 0 1	83 5 5 43 36 17 14	687 23 23 468 96  77	691 40 18 519 36 12 66
<b>Mid. Atlantic</b> New Jersey New York (Upstate) New York City Pennsylvania	1 	3 0 1 1	13 2 7 5 5	102 10 27 31 34	96 24 27 14 31	1  	2 0 1 1	11 2 5 5 5	76 10 5 31 30	74 24 10 14 26	6 6 	30 4 12 2 11	137 13 123 7 26	891 129 348 35 379	756 108 282 50 316
<b>E.N. Central</b> Illinois Indiana Michigan Ohio Wisconsin	1 	3 0 1 1 0	11 4 5 3 5 2	75 17 15 16 27	98 23 13 17 28 17	1  	1 0 0 0 0	6 4 2 3 4 2	53 17 6 9 21	83 23 6 11 26 17	21 — 11 10 —	52 11 6 15 8	133 35 75 23 30 41	980 206 118 224 327 105	2,154 497 172 129 717 639
W.N. Central lowa Kansas Minnesota Missouri Nebraska† North Dakota South Dakota		1 0 0 0 0 0 0	4 2 1 2 2 2 1 1	39 9 10 12 5 1	51 12 9 8 16 4 2	  		3 1 1 1 1 1 0	14 3 3 3 3 1	23 1 9 3 7 3 —	9 5 1 3 —	46 12 11 0 9 4 0 1	552 63 28 485 42 10 26 7	698 158 181 106 182 58 4 9	1,642 410 147 458 253 168 77 129
S. Atlantic Delaware District of Columbia Florida Georgia Maryland <sup>†</sup> North Carolina South Carolina <sup>†</sup> Virginia <sup>†</sup> West Virginia		3 0 1 0 0 0 0 0 0	14 1 6 3 2 11 2 4 2	118 4 45 9 7 22 13 14 4	146 2 4 55 14 14 21 12 19 5		2 0 1 0 0 0 0 0 0	7 1 5 3 1 3 1 3 0	50 4 18 9 2 6 5 6	58 2 3 17 14 1 4 8 7 2	8 — 1 4 2 —	22 0 4 0 3 0 4 1 0	92 1 3 14 3 9 21 22 73 9	529 3 119 8 74 109 82 109 22	778 14 4 102 31 128 64 238 165 32
E.S. Central Alabama <sup>†</sup> Kentucky Mississippi Tennessee <sup>†</sup>	 	1 0 0 0	4 1 2 1 2	26 4 7 1 14	38 4 14 4 16	 	1 0 0 0	4 1 2 1 2	21 4 7 1 9	29 3 14 4 8	7   7	7 1 1 1 2	17 4 7 4 10	169 42 22 22 83	325 45 88 40 152
<b>W.S. Central</b> Arkansas Louisiana Oklahoma Texas <sup>†</sup>	1 1 —	1 0 0 1	23 3 1 4 16	38 7 1 8 22	82 10 25 13 34	1 1 —	0 0 0 0	6 2 1 0 4	15 5 1 	19 2 4 2 11	7 1 6	21 2 0 0 20	360 21 3 124 215	311 41 2 16 252	1,226 179 33  1,014
Mountain Arizona Colorado Idaho <sup>†</sup> Montana Nevada <sup>†</sup> New Mexico <sup>†</sup> Utah Wyoming		1 0 0 0 0 0 0 0 0	4 2 2 1 2 1 1 2	39 11 14 3 2 2 4 2	62 29 13 3 — 6 3 8 —		0 0 0 0 0 0 0 0 0 0	4 1 2 1 1 1 2	17 11 2 1 1 —  2	16 9  3  1 2 1	30 	64 12 23 2 3 0 2 18 1	230 177 40 13 19 9 6 39 8	1,636 266 536 48 77 35 46 579 49	2,417 638 785 118 457 36 130 228 25
<b>Pacific</b> Alaska California Hawaii Oregon <sup>†</sup> Washington	2 2 —	5 0 3 0 1 0	29 1 14 1 7 25	215 1 134 4 51 25	173 1 112 10 31 19	2 2 —	5 0 3 0 1 0	25 1 14 1 4 11	185 1 134 4 35 11	167 1 112 5 31 18	6 3 — 3	50 2 25 2 3 10	1,334 15 1,136 7 16 195	766 40 389 44 77 216	1,769 23 713 108 519 406
American Samoa C.N.M.I. Guam Puerto Rico U.S. Virgin Islands	U U 	0 0 0 0	0 0 1 1 0	 	 1 6	U U 	0 0 0 0	0 0 1 1 0	U U 4	U U 1 6	U U —	0 0 0 0	0 0 1 0	U U  -	U U 2 4

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending July 22, 2006, and July 23, 2005 (29th Week)\*

(29th Week)*			abies, ani	mal		Der	ky Morr	tain and	ttod four	,		<u> </u>	almonello	ocic	
		Prev	,	Indi		H00	ку моur Prev	· · ·	tted feve				vious	616	
Departing and	Current	52 w	eeks	Cum	Cum	Current	52 w	eeks	Cum	Cum	Current	52 \	veeks	Cum	Cum
Reporting area United States	<b>week</b> 49	106	Max 158	2006 2,973	<b>2005</b> 3,376	week 17	Med 35	<b>Max</b> 246	2006 757	2005 665	617	Med 737	Max 2,291	2006 17,009	<b>2005</b> 19,594
New England Connecticut Maine <sup>†</sup> Massachusetts New Hampshire Rhode Island Vermont <sup>†</sup>	6 2 1 2 — 1	12 3 1 4 0 0 1	26 13 5 17 3 4 4	311 82 41 142 9 1 36	413 89 40 226 9 11 38	N 	0 0 0 0 0 0	2 0 2 1 2 0	2 N 1 1	4 N 2 1 1	26 	34 0 2 19 2 0 1	196 188 7 40 10 17 10	917 188 48 544 72 45 20	1,133 227 103 615 89 47 52
<b>Mid. Atlantic</b> New Jersey New York (Upstate) New York City Pennsylvania	20 N 20 —	18 0 11 0 7	46 0 24 3 35	557 N 282 2 273	495 N 261 17 217	1  	1 0 0 1	7 3 1 1 5	23 4 2 4 13	42 11 1 5 25	34 	76 14 22 18 27	272 41 233 44 61	1,888 329 520 397 642	2,445 473 569 594 809
<b>E.N. Central</b> Illinois Indiana Michigan Ohio Wisconsin	2  -         	2 0 1 0 0	12 4 3 5 6 0	59 12 5 27 15 N	109 21 5 13 70 N		0 0 0 0 0	7 4 1 7 1	20 1 3  15 1	22 7 2 11 2	82  42 6 33 1	94 24 12 16 23 15	219 53 67 35 50 44	2,306 493 341 456 616 400	2,891 1,054 274 484 638 441
W.N. Central lowa Kansas Minnesota Missouri Nebraska <sup>†</sup> North Dakota South Dakota	3 1 1 1 	5 0 1 1 0 0 0	20 5 6 6 0 7 4	157 27 44 25 27 — 13 21	200 	5  -   5  -	2 0 0 2 0 0 0 0	12 2 1 12 2 1 1	95 1 1 86 6 —	86 2 4 74 2 4	42 3 5 20 13 - 1	44 7 10 15 3 0 2	100 18 17 60 40 12 46 8	1,239 193 170 349 377 91 8 51	1,259 206 181 288 370 108 15 91
S. Atlantic Delaware District of Columbia Florida Georgia Maryland <sup>†</sup> North Carolina South Carolina <sup>†</sup> Virginia <sup>†</sup> West Virginia	14 — — — 14 —	36 0 0 4 8 8 3 10 1	118 0 99 14 18 11 27 13	1,106 — 99 98 200 243 79 333 54	1,278  201 161 199 293 117 281 26	4   3  1 	18 0 0 1 15 1 2 0	94 1 3 4 6 87 6 10 2	472 6  12 11 22 384 10 26 1	339 4 10 62 36 176 27 20 3	222 	200 2 1 96 25 12 32 19 20 2	514 9 7 230 87 39 114 73 66 19	4,427 49 35 2,007 563 295 665 379 390 44	5,047 52 24 1,875 783 386 659 728 461 79
E.S. Central Alabama <sup>†</sup> Kentucky Mississippi Tennessee <sup>†</sup>	1 1 —	4 1 0 2	16 7 5 2 9	139 48 7 4 80	80 46 7 	5  -  - 5	4 0 0 3	18 8 1 3 18	95 22 — 1 72	116 29 1 5 81	57 12 14 6 25	54 13 8 13 14	115 41 27 62 41	1,152 378 198 257 319	1,217 296 191 330 400
<b>W.S. Central</b> Arkansas Louisiana Oklahoma Texas <sup>†</sup>	1 1 —	14 0 0 1 12	34 3 0 9 29	462 20  44 398	567 23 — 56 488	 	1 0 0 0	161 32 1 154 8	30 21 6 3	33 21 5 5 2	33 15 3 15 —	76 14 6 7 44	922 43 43 48 839	1,379 396 50 199 734	1,865 341 444 187 893
Mountain Arizona Colorado Idaho <sup>†</sup> Montana Nevada <sup>†</sup> New Mexico <sup>†</sup> Utah Wyoming		4 2 0 0 0 0 0 0 0	16 11 2 2 2 2 5 2	81 63 — 7 — 6 3 2	143 105 13 — 3 5 4 1 12	1    	0 0 0 0 0 0 0 0 0	6 6 1 2 2 0 2 2 1	15 2 1 2 2 4 3 2	21 12 2 1	26  15  2  5 	46 12 2 3 4 5	110 67 45 9 16 17 13 30 12	1,060 197 357 81 80 65 90 157 33	1,133 315 265 95 49 100 127 147 35
Pacific Alaska California Hawaii Oregon <sup>†</sup> Washington	2 2 — U	4 0 3 0 0 0	15 4 15 0 1 0	101 13 85  3 U	91 1 87  3 U	1 1  N	0 0 0 0 0	1 0 1 0 1 0	5 4 1 N	2   N	95 4 75 1 4 11	109 1 86 5 7 9	426 7 292 15 25 124	2,641 44 2,022 119 213 243	2,604 27 1,959 153 221 244
American Samoa C.N.M.I. Guam Puerto Rico U.S. Virgin Islands	U U 	0 0 2 0	0 0 6 0	U U 57	U U 42	U U N	0 0 0 0	0 0 0 0	U U N	U U N	U U —	0 0 7 0	2 0 3 35 0	U U 81	1 U 26 307 —

TABLE II. (*Continued*) Provisional cases of selected notifiable diseases, United States, weeks ending July 22, 2006, and July 23, 2005 (29th Week)\*

(29th Week)*	Shia	a toxin-n	roducina	<i>E. coli</i> (ST	FC) <sup>†</sup>		Sł	nigellosis			Strepto	coccal d	isease i	nvasive, g	
	Olig	Prev	-	<u>L. COII (01</u>			Prev	ious	3			Prev		1143146, 6	
Reporting area	Current week	52 w Med	eeks Max	Cum 2006	Cum 2005	Current week	52 w Med	eeks Max	Cum 2006	Cum 2005	Current week	52 w Med	eeks Max	Cum 2006	Cum 2005
United States	45	51	297	907	1,172	115	212	1,013	4,884	6,924	36	87	283	3,011	2,952
New England Connecticut Maine <sup>§</sup> Massachusetts New Hampshire Rhode Island	4 2 	3 0 1 0	23 22 5 7 2 2	73 22 	107 27 17 42 10 2	2 1 1 	5 0 4 0	31 25 3 11 4 6	130 25 3 89 5 5	142 25 7 91 4 9	3 U 2 1	5 0 3 0	15 3 2 6 9 3	142 U 12 86 31 4	182 71 9 76 10 7
Vermont <sup>§</sup> Mid. Atlantic New Jersey New York (Upstate) New York City Pennsylvania	5 — —	0 4 0 1 0 0	2 107 7 103 3 8	2 63 3 19 8 —	9 136 31 56 7 42	10 10 10	0 16 5 4 4 2	4 72 16 60 14 48	3 396 145 125 82 44	6 672 197 154 258 63	6 6 	0 15 2 4 2 5	2 43 7 32 10 13	9 575 84 216 71 204	9 631 129 182 126 194
<b>E.N. Central</b> Illinois Indiana Michigan Ohio Wisconsin	2 — 2 —	10 1 1 3 2	38 10 6 8 14 15	188 20 27 34 62 45	233 62 29 48 49 45	4 3 1	20 7 2 3 3 3	96 26 56 10 11 10	450 123 76 94 91 66	507 138 45 139 48 137	3 2 1 	16 4 2 3 4 1	42 10 11 11 19 4	555 111 82 151 175 36	628 210 61 155 133 69
W.N. Central lowa Kansas Minnesota Missouri Nebraska <sup>§</sup> North Dakota South Dakota	6 6 _4 	7 2 0 3 2 1 0 0	35 10 4 19 9 5 15 5	149 53  77 82 19  16	175 42 18 28 49 24 1 13	12 	39 1 4 2 19 2 0 2	78 7 20 8 70 11 2 17	731 36 64 52 466 39 7 67	665 46 62 40 454 43 2 18	N  -  -  -	5 0 1 0 1 0 0	57 0 52 52 5 4 5 3	225 N 43 106 44 19 7 6	183 N 30 64 50 17 6 16
S. Atlantic Delaware District of Columbia Florida Georgia Maryland <sup>§</sup> North Carolina South Carolina <sup>§</sup> Virginia <sup>§</sup> West Virginia	5   2   3 3 	7 0 1 1 1 1 0 0	39 1 29 6 5 11 2 8 2	158 1 49 28 20 42 4 4 	164 2 60 19 27 21 3 31 1	49 	52 0 26 15 2 1 1 1 0	122 2 66 38 8 22 9 9	1,323 2 6 655 429 44 95 60 32 	1,015 8 496 253 40 99 55 56 —	12 — 4 — 1 6 1 —	21 0 5 4 3 0 1 2 0	41 2 12 12 12 26 6 11 6	702 7 9 162 134 124 112 47 86 21	564 1 7 149 115 112 81 27 54 18
E.S. Central Alabama <sup>§</sup> Kentucky Mississippi Tennessee <sup>§</sup>	13  	2 0 1 0 1	11 3 8 2 4	68 8 22 — 25	63 15 20 2 26	4  4	14 3 6 1 3	35 14 23 6 11	344 99 148 36 61	792 161 151 47 433	4 N 1 	3 0 0 0 3	11 0 5 0 9	138 N 30  108	121 N 25 — 96
<b>W.S. Central</b> Arkansas Louisiana Oklahoma Texas <sup>§</sup>	  1	1 0 0 1	52 2 2 8 44	13 6  7 38	49 8 14 12 15	2 2 	27 1 0 4 23	596 7 11 286 308	393 46 1 54 292	1,892 32 83 409 1,368	6 2 	6 0 2 4	58 5 1 14 43	235 20 1 67 147	194 11 4 75 104
Mountain Arizona Colorado Idaho <sup>§</sup> Montana Nevada <sup>§</sup> New Mexico <sup>§</sup> Utah Wyoming	3 3 2     3 3 2	4 0 1 0 0 0 1 0	15 4 6 7 3 3 7 3	77 16 33 27  7 4 33 6	125 13 29 20 8 12 14 27 2	10 4 3 — 3 3	17 8 3 0 1 2 1 0	47 29 18 4 1 8 9 4	309 131 67 9 4 28 36 33 1	339 174 51 6 5 30 50 22 1	2 — — — — 1 1	10 3 0 0 1 1 0	78 57 8 2 0 6 7 6	383 180 92 8 — 49 51 3	390 168 127 2  1 54 36 2
Pacific Alaska California Hawaii Oregon <sup>§</sup> Washington	7 7 —	7 0 4 0 2 2	55 2 18 4 47 32	118 — 81 6 32 31	120 8 52 4 37 19	22 21 1 —	41 0 32 0 2 2	148 2 104 4 31 43	808 7 632 22 76 71	900 10 778 14 45 53	       N	2 0 2 0 0	9 0 9 0	56 — 56 N	59 — 59 N N
American Samoa C.N.M.I. Guam Puerto Rico U.S. Virgin Islands	U U 	0 0 0 0	0 0 1 0	U U  -  -	U U 	U U 	0 0 0 0	2 0 3 2 0	U U 4	3 U 9 3		0 0 0 0	0 0 0 0	U U N	U U N

Max: Maximum.

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending July 22, 2006, and July 23, 2005 (29th Week)\*

Med: Median.

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

(29th Week)*	Strepto		neumonia resistant,	e, invasive all ages	disease	Svn	hilis, prin	nary and	seconda	rv		Varice	ella (chicl	kennox)	
			vious	all ayes		<u>3yp</u>	Previ		Seconda	l y			/ious	kenpox)	
	Current	52 w	eeks	Cum	Cum	Current	52 we		Cum	Cum	Current	52 w	veeks	Cum	Cum
Reporting area	week	Med	Max	2006	2005	week	Med	Max	2006	2005	week	Med	Max	2006	2005
United States	12	51 1	334 24	1,595 16	1,722 154	65	166 4	334 17	4,459 112	4,606 113	106 3	800	3,204 144	27,113 992	16,960
New England Connecticut	U	0	7	U	65	3	0	11	22	24	U	43 0	58	U	3,520 993
Maine <sup>†</sup> Massachusetts	N	0 0	0 6	N	N 67	3	0 2	2 5	8 71	1 76	_	5 11	20 54	151 92	209 1,581
New Hampshire	_	0	0	_	_	_	0	2	6	7	1	5	43	261	200
Rhode Island Vermont <sup>†</sup>	_	0 0	11 2	6 10	14 8	_	0 0	6 1	3 2	5	2	0 12	0 50	488	537
Mid. Atlantic	_	3	15	102	151	14	21	35	604	572	_	103	183	3,051	3,087
New Jersey New York (Upstate)	N	0 1	0 10	N 39	N 62	3 5	2 2	7 14	86 87	81 38	_	0 0	0 0	_	_
New York City	U	0	0	U	U	6	10	23	301	356	_	0	0	_	_
Pennsylvania E.N. Central	_	2	9 41	63 387	89		5 18	9	130 457	97 492	23	103	183 585	3,051	3,087
Illinois	_	11 1	3	13	426 17	4 2	9	38 23	218	264	_	213 1	5	9,920 13	3,747 59
Indiana Michigan	_	2 0	21 4	103 15	136 28	2	1 2	4 19	32 64	38 48	N 4	0 102	347 174	N 2.990	70 2,372
Ohio	_	6	32	256	245	_	4	8	115	122	19	82	420	6,347	947
Wisconsin	N	0	0	N	N	_	1	4	28	20	_	12	52	570	299
<b>W.N. Central</b> lowa	N	1 0	191 0	32 N	28 N	1	4 0	9 3	130 9	154 4	9 N	22 0	84 0	993 N	246 N
Kansas Minnesota	N	0	0 191	N	N	_	0 1	2 3	12 16	13 50	_	0 0	0 0	_	_
Missouri	_	1	3	32	22	1	3	8	92	84	7	17	82	934	157
Nebraska† North Dakota	_	0 0	0 1	_	2 1	_	0 0	1 1	1	3	2	0 0	0 25	27	12
South Dakota	—	0	0	_	3	—	0	1	—	—	—	1	12	32	77
S. Atlantic Delaware	10	24 0	53 2	855	706 1	21	43 0	186 2	1,035 14	1,071 6	36	90 1	860 5	2,875 43	1,307 22
District of Columbia		0	3	20	12		1	9	57	64	_	0	5	21	20
Florida Georgia	10	13 7	36 29	468 281	376 232	14	14 8	29 147	400 132	388 191	_	0 0	0 0	_	_
Maryland† North Carolina	N	0 0	0 0	N	N	5	5 5	19 17	163 155	174 139	_	0 0	0 0	_	_
South Carolina <sup>†</sup>	_	0	0	_	_	_	1	7	38	31	3	16	53	730	350
Virginia† West Virginia	N	0 1	0 14	N 86	N 85	_2	2 0	12 1	75 1	76 2	28 5	27 26	812 70	1,077 1,004	243 672
E.S. Central	1	3	13	124	122	8	11	21	350	258	1	0	70	68	7
Alabama <sup>†</sup> Kentucky	N	0	0 5	N 23	N 22	1	3 1	12 8	136 36	92 22	1 N	0 0	70 0	68 N	7 N
Mississippi	_	0	0	_	1	_	0	6	31	28	_	0	0	_	—
Tennessee <sup>†</sup> W.S. Central	1	2 0	13 4	101 13	99 96	7 6	5 25	13 40	147 770	116 701	N 27	0 206	0 1,757	N 7,428	N 3,303
Arkansas	_	0	3	11	12	_	0	6	38	30		6	110	553	_
Louisiana Oklahoma	N	0	4 0	2 N	84 N	4	4 1	17 6	113 40	153 21	_	0 0	8 0	33	108
Texas <sup>†</sup>	N	Ō	Ō	N	N	1	18	29	579	497	27	201	1,647	6,842	3,195
Mountain	1 N	1 0	27 0	66 N	39 N	4	7 4	17 13	207 101	241 82	7	52 0	138 0	1,786	1,743
Arizona Colorado	N	0	0	N	N	_	1	3	23	26	7	33	76	946	1,186
Idaho† Montana	N	0 0	0 1	N	N	_	0 0	1	2 1	19 5	_	0 0	0 0	_	_
Nevada <sup>†</sup> New Mexico <sup>†</sup>	—	0	27	4	2	—	1	12	44	71	—	0	2	4	150
Utah	_	0	1 8	1 28	17	_	1 0	5 1	34 2	31 7	_	10	34 55	280 526	150 362
Wyoming	1	0	3	33	20	—	0	0	—	—	—	0	8	30	45
<b>Pacific</b> Alaska	_	0	0	_	_	4	32 0	49 4	794 5	1,004 5	_	0 0	0 0	_	_
California	Ν	0	0	Ν	Ν	4	28 0	42 2	659 12	900	N	0	0 0	N	N
Hawaii Oregon†	N	0	0	N	N	_	0	2	9	4 17	N	0 0	0	N	N
Washington	N	0	0	Ν	Ν		3	11	109	78	N	0	0	N	N
American Samoa C.N.M.I.	_	0 0	0 0	_	_	U U	0 0	0 0	U U	U U	U U	0 0	0 0	U U	U U
Guam	N	0	0 0			—	0	0	 54	3	_	2 7	12	 178	375
Puerto Rico U.S. Virgin Islands		0	0	N	N	_	3 0	10 0	54	135	_	0	47 0	1/8	457

 TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending July 22, 2006, and July 23, 2005

 (29th Week)\*

(29th Week)*					Mast Nile	www.alia.a.a.a.t						
			Neuroinvas	ive	West Nile vi	rus disease <sup>†</sup>		No	n-neuroinv	asive		
			/ious						/ious			
Reporting area	Current week	<u>52 w</u> Med	<u>/eeks</u> Max	Cum 2006	Cum 2005		rrent eek	<u>52 w</u> Med	eeks Max	Cum 2006	Cum 2005	
United States	_	1	155	9	129		_	0	203	6	227	
New England	_	0	3	_	_			0	2		_	
Connecticut Maine <sup>§</sup>	_	0 0	2 0	_	—		_	0	1 0	_	_	
Massachusetts	_	0	3	_	_			0	1	_	_	
New Hampshire	_	0	0	_	_		_	0	0	_	_	
Rhode Island Vermont <sup>§</sup>	_	0 0	1 0	_	_		_	0	0 0	_	_	
Mid. Atlantic	_	0	10	_	2			0	4	_	3	
New Jersey	_	0	1	_	_			0	2	_	_	
New York (Upstate)	—	0	7	—	—		_	0	2	—	—	
New York City Pennsylvania	_	0 0	2 3	_	2		_	0 0	2 2	_	3	
E.N. Central	_	0	39	_	12			0	18	_	4	
Illinois	_	0	25	_	4		_	0	16	_	3	
Indiana	—	0	2	—	1			0	1	_	—	
Michigan Ohio	_	0 0	14 9	_	5		_	0 0	3 4	_	_	
Wisconsin	—	Ő	3	—	2		_	õ	2		1	
W.N. Central	_	0	26	3	15		_	0	80	5	44	
lowa	_	0 0	3	—			_	0 0	5	1		
Kansas Minnesota	_	0	3 5	_	1 3		_	0	1 5	1	N 4	
Missouri	_	0	4	1	1			0	3	_	1	
Nebraska <sup>§</sup> North Dakota	_	0 0	9 4	1	2 2		_	0 0	24 15	1	4 7	
South Dakota	_	0	4 7	1	6		_	0	33	2	28	
S. Atlantic	_	0	6	_	3			0	4	_	4	
Delaware	_	0	1	—	—			0	0	—	—	
District of Columbia Florida	_	0 0	1 2	_	2		_	0 0	1 4	_	3	
Georgia	_	0	3	_	_		_	0	3	_	1	
Maryland <sup>§</sup>	_	0 0	2 1	_	_		_	0	1	—	_	
North Carolina South Carolina <sup>§</sup>	_	0	1	_	1		_	0 0	1 0	_	_	
Virginia <sup>§</sup>	—	0	0	_	—			0	1			
West Virginia	—	0	0	_	_		Ν	0	0	Ν	N	
E.S. Central Alabama <sup>§</sup>	_	0 0	10 1	2	3		_	0 0	5 2	_	4	
Kentucky	_	0	1	_	_			0	2	_	_	
Mississippi	—	0	9	2	3			0	5	_	4	
Tennessee§	_	0	3	_	_			0	1		_	
W.S. Central Arkansas	_	0 0	32 3	2	39		_	0	22 2	_	19 3	
Louisiana	_	0	20	_	18		_	0	9	_	8	
Oklahoma	—	0	6	_	1		_	0	3	_	_	
Texas <sup>§</sup>	_	0	16	2	20			0	13	_	8	
<b>Mountain</b> Arizona	_	0 0	16 8	1	7 4		_	0 0	39 8	1	30 10	
Colorado	_	0	5	1	1			0	13	_	16	
Idaho <sup>§</sup> Montana	—	0 0	2 3	_	—			0	3	1	_	
Nevada <sup>§</sup>	_	0	3	_	1		_	0 0	9 8	_	2	
New Mexico <sup>§</sup>	—	0	3	_	1			0	4	_	2	
Utah Wyoming	_	0 0	6 2	_	_		_	0 0	8 1	_	_	
Pacific		0	50	1	48			0	90	_	119	
Alaska	_	0	0	_	_		_	0	0	_		
California	—	0	50	1	48			0	89	—	116	
Hawaii Oregon§	_	0 0	0 1	_	_		_	0 0	0 2	_	3	
Washington	_	Ő	0	_	_		_	õ	0	_	_	
American Samoa	U	0	0	U	U		U	0	0	U	U	
C.N.M.I.	U	0 0	0 0	U	U		U	0	0	U	U	
Guam Puerto Rico	_	0	0	_	_		_	0 0	0 0	_	_	
U.S. Virgin Islands	—	Ō	0	—	—		_	Ō	Ō	—	—	

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending July 22, 2006, and July 23, 2005 (29th Week)\*

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 Infectious Diseases (ArboNet Surveillance). S Contains data reported through the National Electronic Disease Surveillance System (NEDSS).

#### TABLE III. Deaths in 122 U.S. cities,\* week ending July 22, 2006 (29th Week)

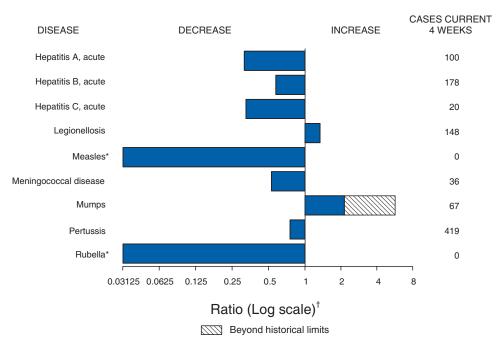
Reporting Area         All         265         45-64         25-44         1-24         -1         Pair Mex fingling           New fingland         546         381         100         26         12         18         48         Autants, GA         171         733         37         106         39         24         56           Boton, MA         227         72         37         37         106         39         24         56           Boton, MA         227         2         -         -         1         -         3         Charlots, NG         100         164         39         24         56           Bernoring Area         Auta         23         2         -         -         -         -         -         1         -         3         2         1         1         -         -         2         35         2         1         1         2         1         1         -         1         -         -         1         1         2         3         4         1         -         -         -         -         1         -         -         1         -         -         -         -         -	TABLE III. Deaths				y age (ye	-	, 2000	25011		All ca	uses, by	y age (ye	ars)			
Investigation         564         381         100         28         112         100         39         44         65           Bridgeport, CT         27         15         10         -         1         -         1         -         1         -         3         Billmore, MO         104         104         99         8         -         3           Bridgeport, CT         27         15         10         -         1         -         1         -         1         -         1         -         1         -         1         -         1         -         1         -         1         -         1         -         1         -         1         -         1         -         -         -         1         Nord6k, VA         64         23         8         12         - <td< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></td<>																
Beston, MA. 126 76 31 8 3 6 13 Alteria, GA 176 101 44 19 6 8 - 3 8 - 3 8 Alteria, GA 176 101 44 19 8 6 - 3 8 - 3 8 Alteria, GA 176 101 44 19 8 6 - 3 8 - 3 9 4 2 8 6 2 19 9 4 11 2 5 12 1 - 1 - 1 3 4 3 4 107 8 4 2 6 7 23 10 1 1 4 3 1 9 4 19 6 8 - 3 8 6 2 19 9 4 11 1 2 5 1 1 1 3 4 3 4 107 8 4 10 7 8 4 2 8 7 8 5 1 2 1 4 - 1 1 1 7 8 4 107 8 4 10 7 8 4 2 8 7 8 5 1 2 1 4 1 1 4 1 1 2 1 7 8 4 107 8 4 1 1 1 2 - 1 1 7 8 4 107 8 4 1 1 1 2 - 1												1				
Bridgeor, CT         27         15         10          1         1          Baltmore, MD         104         104         90         23         6         2         1         2         1         1          1         3         1         2         1																
Cambridge, MA 25 22 2 1 3 Fall New, MA 23 22 1 1 1 1 7 Fall New, MA 23 2 - 1 1 1 7 Fall New, MA 23 2 - 1 2 New Berlond, MA 26 22 4 2 New Berlond, MA 27 22 5 1 2 3 - 1 4 2 New Berlond, MA 27 22 - 1 1 2 New Berlond, MA 27 22 5 1 2 4 - 1 4 Savannah, GA 56 38 14 2 3 1 - 4 4 Somer View Haren, C 100 64 30 16 5 2 4 - 4 4 Somer View Haren, C 1 6 28 6 4 4 4 Somer View Haren, C 1 6 28 6 4 4 4 Somer View Haren, C 1 6 28 6 4 4 4 Somer View Haren, C 1 6 28 6 4 4 4 Somer View Haren, C 1 7 5 7 4 2 12 Mathematic, L 2 2 2 3 4 - 2 2 Water View Haren, C 1 7 5 7 4 1 3 Savannah, GA 56 38 14 2 2 3 Mathematic, L 2 2 5 1 2 3 5 2 1 Water View Haren, C 1 7 5 7 4 1 4 1 Somer View Haren, C 1 7 5 7 4 1 1 3 3 Mathematic, L 2 4 1 1 1 2 3 3 2 2 8 Mathematic, N 4 5 1 33 12 4 1 1 1 2 3 3 2 8 Mathematic, N 4 5 7 5 1 2 2 5 1 2 2 6 4 1 1 3 3 10 Mathematic, N 4 5 7 3 1 2 4 1 1 1 2 2 8 Mathematic, N 4 5 7 3 1 2 4 1 1 1 2 3 3 2 8 Mathematic, N 4 5 7 5 1 2 2 1 5 1 2 2 1 Buffao, N 6 7 47 12 3 3 2 8 Mathematic, N 4 5 7 5 1 4 1 5 2 New York, Cloy, N 1 05 7 13 2 4 1 - 1 - 2 New York, Cloy, N 1 05 7 13 2 4 3 56 16 2 5 36 Mathematic, N 4 5 7 7 4 1 7 3 4 1 6 Elizaber, N 4 5 7 7 4 1 7 8 3 2 New York, Cloy, N 1 05 7 13 2 4 8 5 1 - 1 - 2 New York, Cloy, N 1 05 7 13 2 4 8 5 1 - 1 - 2 New York, Cloy, N 1 05 7 13 2 4 8 5 1 - 1 - 2 New York, Cloy, N 1 05 7 13 2 4 8 5 1 - 1 - 2 New York, Cloy, N 1 05 7 13 2 4 8 2 New York, Cloy, N 1 1 8 9 2 2 New York, Cloy, N 1 1 8 9 2 2																
Fail River, MA         23         21         1         1         -         -         3         Jacksonwile, FL         147         89         42         7         5         4         3           Lowel, MA         1         1         2         1         -         -         1         Nortik, MA         82         57         23         1         1         3         4         2         3         4         1         3         4         2         3         1         1         3         4         2         3         1         4         3         4         2         3         4         4         1         3         4         1         3         4         1         3         4         1         1         2         3         5         1         4         1         1         2         3         5         1         3         4         1         1         2         2         2         2         4         4         1         1         3         1         1         1         4         1         1         1         4         1         1         1         4         1         1																
Hardbort, CT         56         41         11         2         1         1         7         Marmi, FL         92         23         10         1         1         3         2         1 </td <td></td> <td>-</td> <td></td> <td></td>														-		
$ \begin{array}{c} \text{Lynn, MA} & 3 & 2 & - & 1 & - & - & - & - & - & - & - & -$						1										
New Berdord, MA         26         22         4         -         -         -         2         Savannah, GA         56         36         14         2         3         1         -           Providence, RI         66         44         12         7         1         3         4         Tampa, FL         12         14         1         4         14         <	Lowell, MA	17	14	3	—	—	_	1	Norfolk, VA	62	38	12	5	3	4	2
New Haven, CT         44         31         6         1         1         3         4         St. Peterbains, FL         42         25         12         4         -         1         4           Somewille, MA         6         5         -         1         -         -         -         -         -         1         4         4         -					1										-	
Providence, RI 66 43 12 7 1 3 3 8 Somerville, MA 6 5 1 2 3 Warterbury, CT 29 23 - 4 - 2 Warterbury, CT 29 23 - 4 - 2 Warterbury, CT 29 23 - 4 - 2 Warterbury, CT 29 32 - 4 - 2 Warterbury, CT 29 4 Warterbury, CT 29 4 Warte	,															
Somerule, MA         6         5         -         1         -         -         -         Waisington, D.C.         10         66         28         6         4         4         - <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td><b>1</b></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>									<b>1</b>							
Springfield, MA         47         32         12         1         -         2         2           Waterbury, CT         29         23         -         4         1         1         2           Waterbury, NY         47         377         480         11         1         2         2         2         6         6           Abarny, NY         47         377         5         1         2         2         2         2         6         6         1         3         2         -         -         1         6         3         -         -         -         1         6         3         -         -         -         1         6         3         -         -         -         1         6         3         -         -         -         1         6         1 <td> ,</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>3</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	,						3									
Waterbury, CT         29         22         3         -         4         -         -         2         Es. Central         8551         213         53         22         20         64           Mid. Atamic         2.062         1.377         400         117         39         49         96         Chattanoga, TN         68         50         15         2         -         1         -         4         10         41         43         7         6         2         20           Allentow, PA         27         21         5         1         -         -         -         -         -         -         -         -         -         4         4         5         1         -					-		2							_		
Wardsetter, MA         51         33         12         4         1         1         2         Ess. Central $Albar, All         75         17         39         96         2         2         0         b           Albart, NY         4         7         37         5         1         2         4         1         3         1         3         2         1         4         1         4         1         4         1         4         1         4         1         3         1         3         3         1         3         3         1         3         3         1         3         3         1         3         3         1         1         3         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1        $																
Mid. Alamitic       2.082       1.377       480       117       39       49       96       Chattanoga, TN       68       50       15       2       -       1       6         Allentow, PA       27       21       5       1       -<					4											
Abarny, NY       47       37       5       1       2       2       Knowlie, TN       67       51       1       3       2       1       -       4       1         Burfalo, NY       67       47       12       3       3       2       8       Monippis, TN       183       122       54       11       3       3       10         Burfalo, NY       67       47       12       3       2       8       17       4       1       3       10         Camden, NJ       11       4       2       -       -       1       1       23       36       21       7       37       5       1       -       -       -       1       Monipping, TN       133       7       3       8       5       1       1       4	Mid Atlantic	2 062	1 277	190	117	20	40	06								
Allentiown, PA       27       21       5       1       -       -       -       -       -       Lexington, KY       67       43       14       5       1       4       1         Camden, NJ       31       14       15       2       - <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>																
Buffab, NY 67 47 12 3 3 2 8 Models, NY 67 47 12 3 3 3 2 8 Models, NY 31 14 15 2 $-$ 1 $-$ 7 $-$ Moble, AL 82 56 17 4 3 2 6 Models, AL 82 56 17 4 3 2 6 Models, AL 82 56 17 4 3 2 6 Models, AL 82 56 17 4 3 2 6 Models, NY 10, 03 72 24 7 1 4 2 6 Models, NY 10, NY 10, 03 72 27 1 6 $-$ 7																
Elizabeth, NJ 11 8 2 $-$ 1 $-$ 2 Montgomery, AL 72 39 21 7 4 1 9 Jersey City, NJ 39 22 10 6 $-$ 1 1 1 Jersey City, NJ 1053 713 243 56 16 $-$ 1 $-$ 1 Nastivule, TN 138 76 36 15 47 7 8 New York City, NV 1053 713 243 56 16 $-$ 1 $-$ 1 Nastivule, TN 138 76 36 15 34 7 8 New York City, NJ 108 42 27 11 4 2 6 Baton Rouge, LA 73 49 15 4 3 2 4 Corpus Christ, TX 53 38 8 5 $-$ 2 4 Pritsburgh, PA 29 10 6 $-$ 1 $-$ 1 1 1 2 $-$ 6 Reading, PA 27 21 6 $-$ 1 $-$ 1 1 1 2 $-$ 6 Reading, PA 27 21 6 $-$ 1 $-$ 1 1 1 1 2 $-$ 7 Nastivule, TX 83 80 5 $-$ 2 4 1 3 1 8 ElPaeo, TX 66 45 14 3 3 1 3 8 Schenectady, NY 26 21 3 2 $ -$ 1 1 $-$ 1 1 1 $-$ 1 $-$ 1 1 Scratton, PA 37 32 5 $ -$ 2 $-$ 2 $-$ 1 Nastivule, NY 121 92 21 2 2 2 $ -$ 1 $-$ 1 Schenectady, NY 26 $-$ 136 68 148 53 $-$ 77 $-$ 2 $ -$ 1 $-$ 1 Naw Orieans, LA 88 40 $0$ 0 $-$ 0 $ -$ 1 $-$ 1 Vonkes, NY 14 10 4 $     -$ 1 Sharewoport, LA 76 54 19 2 0 11 $-$ 1 $-$ 1 $-$ 1 Use, NY 9 7 2 $         -$	'					3		8								
$ \begin{array}{c} \text{Erie}, \text{PA} & 35 & 28 & 6 & - & - & - & 1 & 1 \\ \text{Darey CiV, NV} & 138 & 76 & 36 & 15 & 4 & 77 & 8 \\ \text{New York CiV, NV} & 1.053 & 713 & 243 & 56 & 16 & 25 & 36 \\ \text{New ark, N} & 86 & 42 & 27 & 11 & 4 & 2 & 6 \\ \text{Paterson, NJ} & 13 & 5 & 4 & 1 & 1 & 2 & - \\ \text{Paterson, NJ} & 13 & 5 & 4 & 1 & 1 & 2 & - \\ \text{Paterson, NJ} & 13 & 5 & 4 & 1 & 1 & 2 & - \\ \text{Paterson, NJ} & 13 & 5 & 4 & 1 & 1 & 2 & - \\ \text{Paterson, NJ} & 22 & 20 & 6 & 1 & 1 & 1 & - \\ \text{Paterson, NJ} & 23 & 22 & 6 & - & - & - & - \\ \text{Paterson, NJ} & 29 & 3 & 24 & 1 & 3 & 5 \\ \text{Paterson, NJ} & 29 & 3 & 26 & - & - & - & - & - \\ \text{Schemetarly}, \text{PA} & 27 & 28 & - & - & - & - & - & - \\ \text{Schemetarly}, \text{NY} & 26 & 21 & 3 & 2 & - & - & - & - & - \\ \text{Schemetarly}, \text{NY} & 26 & 21 & 3 & 2 & - & - & - & - & - \\ \text{Syracuse, NY} & 121 & 92 & 21 & 2 & 2 & 4 & 19 \\ \text{Schemetarly}, \text{NY} & 121 & 92 & 21 & 2 & 2 & - & - & - & - \\ \text{Syracuse, NY} & 121 & 92 & 21 & 2 & 2 & - & - & - & - \\ \text{Syracuse, NY} & 14 & 10 & 4 & - & - & - & - \\ \text{Syracuse, NY} & 14 & 10 & 4 & - & - & - & - \\ \text{Syracuse, NY} & 14 & 10 & 4 & - & - & - & - \\ \text{Syracuse, NY} & 14 & 10 & 4 & - & - & - & - \\ \text{Syracuse, NY} & 14 & 10 & 4 & - & - & - & - \\ \text{Syracuse, NY} & 14 & 10 & 4 & - & - & - & - \\ \text{Syracuse, NY} & 14 & 10 & 4 & - & - & - & - \\ \text{Syracuse, NY} & 14 & 10 & 4 & - & - & - & - \\ \text{Syracuse, NY} & 14 & 10 & 4 & - & - & - & - \\ \text{Syracuse, NY} & 14 & 10 & 4 & - & - & - & - \\ \text{Syracuse, NY} & 14 & 10 & 4 & - & - & - & - \\ \text{Surderson, OH} & 48 & 204 & 118 & 40 & 17 & 9 & 33 & 12 & 41 & 1 \\ \text{Canton, OH} & 29 & 177 & 7 & 3 & 1 & 1 & 1 \\ \text{Chainson, OH} & 29 & 177 & 7 & 3 & 1 & 1 & 1 \\ \text{Chainson, OH} & 216 & 152 & 37 & 176 & 6 & 41 & 19 \\ \text{Supton, OH} & 116 & 62 & 7 & 13 & 1 & - & 1 \\ \text{Supton, OH} & 116 & 62 & 176 & 4 & 19 \\ \text{Puebrik, AZ} & 178 & 100 & 44 & 19 & 6 & 8 & 17 \\ \text{Puebrik, CO} & 35 & 27 & 4 & 3 & 1 & - & - & 1 \\ \text{Supton, OH} & 116 & 62 & 7 & 15 & 3 & - & 1 & 4 \\ \text{Supton, OH} & 116 & 63 & 13 & - & 1 & 1 \\ \text{Supton, OH} & 116 & 63 & 13 & - & 1 & 4 \\ Supton$	Camden, NJ	31	14	15	2		_		Mobile, AL	82	56	17	4	3	2	6
Jersey City, NJ 39 22 10 6 - 1 - New York City, NY 1, 1,65 3713 243 56 16 25 36 Newark, NJ 86 42 27 11 4 2 6 Phaterson, NJ 13 5 4 1 1 2 - Phaterson, NJ 13 5 4 1 1 4 2 6 Phaterson, NJ 13 5 4 1 1 1 - Phaterson, NJ 13 5 4 1 1 1 2 - Phaterson, NJ 13 5 4 1 1 1 2 - Phaterson, NJ 13 5 4 1 1 1 2 - Phaterson, NJ 13 5 4 1 1 1 2 - Phaterson, NJ 13 5 4 1 1 1 2 - Phaterson, NJ 13 5 4 1 1 1 - Phaterson, NJ 13 5 2 2 - Phaterson, NJ 13 9 2 2 - Phaterson, NJ 13 9 7 2 - Phaterson, NJ 13 9 7 2 - Phaterson, NJ 13 9 7 2 - Phaterson, NJ 14 10 4 - Phaterson, NJ 14 4 10 2 - Phaterson, NJ 14 4 10 4 - Phater					_	1										
New York City, NY         1053         713         243         56         16         25         36         W.S. Central         1,491         985         324         108         50         52         62           Paterson, NJ         13         5         4         1         1         2         6         1         4         2         6         1         4         2         6         1         4         2         6         1         4         2         6         1         1         1         2         6         1         1         1         1         2         6         1         1         1         1         1         2         1         1         3         10         Diss, TX         20         11         11         13         8         16         0         1         1         1         10         1         1         10         10         10         10         11         13         13         13         11         11         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         1									Nashville, TN	138	76	36	15	4	7	8
New Tork UP, NT         1,033         7,13         24.3         36         16         2.5         35           Austin, TX         81         4.5         2.1         1         4         2         6           Patarson, NJ         13         5         4         1         1         2         -         Groups Christ, TX         53         38         8         5         -         2         4           Patarson, NJ         13         5         4         1         1         -         Corpus Christ, TX         53         38         8         5         -         2         4           Patarson, NJ         13         9         2         -									W.S. Central	1,491	956	324	109	50	52	69
Paterson, NJ         13         5         4         1         1         2         —         Batton Houge La         73         39         15         4         3         2         4           Philadelphi, PA         29         20         6         1         1         -         -         -         1         -         Batton Houge La         73         39         15         4         3         2         4           Philadelphi, PA         29         20         6         1         1         -         -         -         1         Elaso, TX         206         126         33         20         11         13         8           Rechester, NY         129         93         25         -         -         -         1         Houston, TX         136         349         30         11         3         13         13         13         13         13         13         14         10         -         -         -         -         T         New Orleans, LA         76         64         19         2         1         -         103         13         13         14         14         10         -         -         - </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Austin, TX</td> <td>81</td> <td>45</td> <td>21</td> <td>10</td> <td>1</td> <td></td> <td></td>									Austin, TX	81	45	21	10	1		
Philadelphia, PA         248         135         74         25         8         6         8         Corpus Chrish, IX         5-3         38         8         5         -         2         4           Pittaburgh, PA         29         20         6         1         1         1         -         -         1         El Paso, TX         66         45         14         3         3         1         3         8         5         -         -         2         4         1         3         1         3         8         5         -         -         2         4         1         7         3         1         3         8         5         - <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>3</td><td></td><td></td></t<>														3		
Pittsburgh, PA <sup>i</sup> 29       20       6       1       1       -       Dalas, I.X       209       126       39       20       11       13       8         Reading, PA       27       21       6       -       -       -       1       1       1       1       1       1       1       1       3	,															
Reading, PA       27       21       6       -       -       -       1       El Paso, 1, X       bit Moston, TX       39       24       3       3       1       3         Schenettar, NY       29       93       28       4       1       3       10       ForWorth, TX       115       81       23       4       2       5       5       -       -       -       11       11       115       81       23       4       2       5       10       11       11       13       13       3       11       1																
Hochesiter, NY       129       93       28       4       1       3       10         Schenectady, NY       26       21       3       2       -       -       1         Scranton, PA       37       32       5       -       -       -       2         Syracuse, NY       121       92       2       2       4       19       San Antonio, TX       339       206       92       19       11       11       13         Syracuse, NY       121       92       2       -       Tolesoftade (1, 1, 10)       1       1       10       1       -       -       -       -       Tolesoftade (1, 1, 10)       1       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -					_	_	_	1								
Schenberzlady, NY       26       21       3       2       -       -       -       1       Lttle Rock, AR       88       48       20       6       4       10       -         Syracuse, NV       121       92       21       2       2       4       19       0       10       0	Rochester, NY	129	93	28		1	3	10								
Stratuse, NY       121       92       21       2       2       2       4       19       V       U					2	_										
Syracuse, NY121922122419San Antonio, TX286193493011311141314 <td>,</td> <td></td> <td></td> <td></td> <td>_</td> <td></td>	,				_											
Utica, NY972Image: Constraint of the second									1 '					11		
Yonkers, NY         14         10         4         _         <					2				Shreveport, LA	76	54	19	2	1		10
E.N. Central       2.062       1.336       468       148       53       57       127         Akron, OH       48       32       12       3       -       1       2         Canton, OH       48       32       12       3       -       1       2         Chicago, IL       388       204       118       40       17       9       33         Colerolado, OH       231       151       59       13       4       4       14         Colurado Springs, CO       59       40       17       1       -       1         Colurado Springs, OL       256       63       2       -       4       2         Colurado Springs, OL       35       5       -       -       2       2       66       3       2       -       4       2         Detori, MI       144       89       40       9       2       4       5       3       -       -       2       2       5       3       -       6       17       1       -       -       16       2       2       5       3       -       6       17       1       -       -       2	,				_				Tulsa, OK	105	71	24	6	3	1	2
Akron, OH4832123-12Canton, OH29177311110101Canton, OH2917731111-11-2Chicago, IL38820411840179333141-2Colorado Springs, CO59401711-1-11-2Colorado Springs, CO854426735551-42-42-42-42-42-42-42-42-42-42-42-42-42-424221-11-1-11-1-1-1-1-1-1-11-1-1-1-1-1-1-1-1-1-1-1-1-11-11111101111 <t< td=""><td></td><td></td><td></td><td></td><td>140</td><td></td><td></td><td></td><td>Mountain</td><td>1,098</td><td>693</td><td>265</td><td>83</td><td>32</td><td>24</td><td>63</td></t<>					140				Mountain	1,098	693	265	83	32	24	63
									Albuquerque, NM	182	126	34	11	10	1	
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	· · · · · · · · · · · · · · · · · · ·													1		
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $																
Cleveland, OH       231       151       59       13       4       14       19         Columbus, OH       115       80       23       8       3       1       4       19       Phoenix, AZ       178       100       44       19       6       8       17         Detroit, MI       144       89       40       9       2       4       5       9       16       152       37       17       6       4       19       Phoenix, AZ       178       100       44       19       6       8       17       1       10       44       19       6       8       17       17       6       4       14       Phoenix, AZ       178       100       44       19       6       8       17       1       1       1       1       11       11       16       2       2       5       3       -       6       121       11       11       11       11       11       11       11       11       11       11       11       14       -       -       2       16       121       1       3       1       1       -       12       11       11       11       11 </td <td></td>																
Columbus, OH       210       152       37       17       6       4       19       6       8       17         Dayton, OH       115       80       23       8       3       1       4       Phoenix, AZ       178       100       44       19       6       8       17         Detroit, MI       144       89       40       9       2       4       5       3       -       6         Evansville, IN       59       41       16       2       -       -       -       2       5       3       -       6         Gary, IN       11       5       5       1       -       -       -       -       Pacific       1,743       1,189       371       110       45       26       121         Gary, IN       209       134       45       11       8       11       14       Fresno, CA       152       106       29       11       6       -       111       1       -       -       2       100       Berkeley, CA       19       11       -       -       2       100       Berkeley, CA       19       11       -       -       -       100		231	151	59	13	4	4	14						4		
Dayton, Un11560238314Pueblo, CO3527431-1Evansville, IN59411622Salt Like City, UT92622253-6Fort Wayne, IN665753-144Salt Like City, UT92622253-6Gary, IN115517Pacific1.7431.1893711104526121Gary, IN503511421Berkeley, CA1911712Hoilauapois, IN2091344511811144210629116-111Lansing, MI5035114221001062513412Hoiluu, HI695113412210383341Rockford, IL4839724Los Angeles, CA33024053286334Youngstown, OH463952Sacramento	Columbus, OH	216						19						6		
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $																
Eventastine, IN       59       41       16       2         2         Fort Wayne, IN       11       5       5       1	,															
Gary, IN       11       5       5       1          Pacific       1,743       1,189       371       110       45       26       121         Grand Rapids, MI       54       37       12       2        3       7       Berkeley, CA       19       11       7       1         2         Milwakee, WI       94       65       15       10       2       2       3       Log Beach, CA       57       28       17       3       8       1       7         2       Honolulu, HI       69       51       13       4       1         3       34       34       1         35       26       17       3       8       1       7       33       34										131	94		8	3	3	
Grand Rapids, MI5437122 $-$ 37Berkeley, CA191171 $ -$ 2Indianapolis, IN209134451181114 $ -$ 2Indianapolis, IN5035114 $ -$ 2231341 $ -$ 2Peoria, IL522814262221008811341 $ -$ 2Rockford, IL483972 $ -$ 4Los Angeles, CA5728173817Rockford, IL483972 $ -$ 4Los Angeles, CA5728173817Toledo, OH8658139155Portland, OR11174312226Youngstown, OH463952 $   -$ San Diego, CA1559739132410Des Moines, IA168117378339San Francisco, CA3355249417Lincoln, NE3323712 $  -$ Santa Cruz, CA241743 $ -$ 2Winneapolis, MN64 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td>_</td> <td></td> <td></td> <td>Pacific</td> <td>1 743</td> <td>1 189</td> <td>371</td> <td>110</td> <td>45</td> <td>26</td> <td>121</td>						_			Pacific	1 743	1 189	371	110	45	26	121
Indianapolis, IN       209       134       45       11       8       11       14       Fresno, CA       152       106       29       11       6       -       11         Lansing, MI       50       35       11       4       -       -       2       3       11       6       -       11       6       -       11       6       -       11       6       -       11       11       -       -       2       13       4       1       -       -       -       2       13       14       1       -       -       -       2       13       4       1       -       -       -       4       100lulu, HI       69       51       13       4       1       -       -       -       4       100g Beach, CA       57       28       17       3       8       1       7       10s Angeles, CA       330       240       53       28       6       3       34       1       -       -       3       34       11       14       1       -       -       10s Angeles, CA       330       240       53       28       6       3       34       34       34       34 <td></td> <td></td> <td></td> <td></td> <td></td> <td>_</td> <td></td> <td></td> <td></td> <td></td> <td>,</td> <td></td> <td></td> <td></td> <td></td> <td></td>						_					,					
Lansing, MI       50       35       11       4         2       Glendale, CA       22       17       4       1         2         Milwaukee, WI       94       65       15       10       2       2       3       Honolulu, HI       69       51       13       4       1         2         Peoria, IL       52       28       14       2       6       2       2       Long Beach, CA       57       28       17       3       8       1       7         Rockford, IL       48       39       7       2         4       Long Beach, CA       330       240       53       28       6       3       34         South Bend, IN       50       33       11       2       1       3         Sargetes, CA       330       240       53       28       6       3       34         Youngstown, OH       46       39       5       2          Sargetes, CA       230       171       39       9       5       4       10         W.N. Central       680																
Peoria, IL       52       28       14       2       6       2       2       Long Beach, CA       57       28       17       3       8       1       7         Rockford, IL       48       39       7       2       -       -       4       Long Beach, CA       57       28       17       3       8       1       7         South Bend, IN       50       33       11       2       1       3       -       Long Angeles, CA       330       240       53       28       6       3       34         South Bend, IN       50       33       11       2       1       3       -       Host Angeles, CA       330       240       53       28       6       3       34         Youngstown, OH       46       39       5       2       -       -       -       Sacramento, CA       230       171       39       9       5       4       16         W.N. Central       680       437       153       51       22       14       39       Sacramento, CA       155       97       39       13       2       4       10         Des Moines, IA       168       117	Lansing, MI	50	35	11	4	—	_	2	Glendale, CA	22	17	4	1	_	_	2
Rockford, IL       48       39       7       2       -       -       4       Los Angeles, CA       330       240       53       28       6       3       34         South Bend, IN       50       33       11       2       1       3        Pasadena, CA       18       13       4       1         3         Toledo, OH       86       58       13       9       1       5       5       Portland, OR       111       74       31       2       2       2       6         Youngstown, OH       46       39       5       2       -       -       -       Sacramento, CA       230       171       39       9       5       4       10         W.N. Central       680       437       153       51       22       14       39       Sar Francisco, CA       93       55       24       9       4       1       7         Massas City, KS       25       13       6       5       1       -       3       Sant Louiz, CA       24       17       4       3       -       -       2       Sant Jose, CA       177       114       43       - <td></td>																
South Bend, IN       50       33       11       2       1       3       —       Pasadena, CA       18       13       4       1       —       —       3         Toledo, OH       86       58       13       9       1       5       5       Portland, OR       111       74       31       2       2       2       6         Youngstown, OH       46       39       5       2       —       —       —       Pasadena, CA       18       13       4       1       —       —       3       Portland, OR       111       74       31       2       2       2       6       6         W.N. Central       680       437       153       51       22       14       39       A       155       97       39       13       2       4       10         Des Moines, IA       168       117       37       8       3       3       9       San Francisco, CA       93       55       24       9       4       1       7       San Jose, CA       177       114       43       8       4       8       9         Kansas City, KS       25       13       6       1						6										
Toledo, OH       86       58       13       9       1       5       5       Portland, OR       111       74       31       2       2       2       6         Youngstown, OH       46       39       5       2       -       -       -       -       -       Sacramento, CA       230       171       39       9       5       4       16         W.N. Central       680       437       153       51       22       14       39       3       50       24       10         Des Moines, IA       168       117       37       8       3       3       9       San Diego, CA       155       97       39       13       2       4       10         Duluth, MN       31       17       12       1       -       1       4       33       9       San Diego, CA       177       114       43       8       4       8       9         Kansas City, MO       72       48       16       4       3       1       1       7       Spokane, WA       130       78       36       10       4       2       7         Lincoln, NE       33       23       7						_								6		
Youngstown, OH       46       39       5       2          Sacramento, CA       230       171       39       9       5       4       16         W.N. Central       680       437       153       51       22       14       39       5       5       97       39       13       2       4       10         Des Moines, IA       168       117       37       8       3       3       9       Sara Pracisco, CA       93       55       24       9       4       1       7         Duluth, MN       31       17       12       1       -       1       4       San Dise, CA       177       114       43       8       4       8       9         Kansas City, MO       72       48       16       4       3       1       1       Santa Cruz, CA       24       17       4       3       -       -       2       Seattle, WA       130       78       36       10       4       2       7       Spokane, WA       43       31       6       3       2       1       2       Satta Cruz, CA       24       17       4       3       1       - <td></td>																
W.N. Central       680       437       153       51       22       14       39       San Diego, CA       155       97       39       13       2       4       10         Des Moines, IA       168       117       37       8       3       9       San Diego, CA       155       97       39       13       2       4       10         Duluth, MN       31       17       12       1       -       1       4       39       San Jose, CA       177       114       43       8       4       8       9         Kansas City, KS       25       13       6       5       1       -       3       San Jose, CA       177       114       43       8       4       8       9         Kansas City, MO       72       48       16       4       3       1       1       San Jose, CA       177       114       43       8       4       8       9         Kansas City, MO       72       48       16       4       3       1       1       130       78       36       10       4       2       7       Spokane, WA       43       31       6       32       4 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>																
W.N. Central       680       437       153       51       22       14       39       San Francisco, CA       93       55       24       9       4       1       7         Des Moines, IA       168       117       37       8       3       9       San Francisco, CA       93       55       24       9       4       1       7         Duluth, MN       31       17       12       1       -       1       4       3       9       San Jose, CA       177       114       43       8       4       8       9         Kansas City, MO       72       48       16       4       3       1       1       San Francisco, CA       93       55       24       9       4       1       7         Kansas City, MO       72       48       16       4       3       1       1       Santa Cruz, CA       24       17       4       3       -       -       2       Seattle, WA       130       78       36       10       4       2       7       Spokane, WA       133       16       3       2       1       2       3       Tacoma, WA       113       86       22       4	0															
Des Molnes, IA       168       117       37       8       3       3       9         Duluth, MN       31       17       12       1        1       4       San Jose, CA       177       114       43       8       4       8       9         Kansas City, KS       25       13       6       5       1        3       Santa Cruz, CA       24       17       4       3        2       Santa Cruz, CA       24       17       4       3        2       Seattle, WA       130       78       36       10       4       2       7         Kansas City, MO       72       48       16       4       3       1       1       Seattle, WA       130       78       36       10       4       2       7         Lincoln, NE       33       23       7       1       2        -       Tacoma, WA       113       86       22       4       1        3         Omaha, NE       61       43       11       4       1       2       3       5       5       5       5       5       5       5       5       5 <td></td>																
Dulutin, MN       31       17       12       1       -       1       4       Santa Cruz, CA       24       17       4       3       -       -       2       Santa Cruz, CA       24       17       4       3       -       -       2       Santa Cruz, CA       24       17       4       3       -       -       2       Santa Cruz, CA       10       4       2       7       Santa Cruz, CA       10       4       10       4       2       7       Santa Cruz, CA       10       4       10       4       2       7       Santa Cruz, CA       10       4       10       4       2       7       Spokane, WA       130       78       36       10       4       2       7       Spokane, WA       113       86       22       4       1       -       3       3       3       11       4       1       2       3       Total       11,760**       7,653       2,700       803       314       284       683       83       8														4	8	9
Kansas City, MO       72       48       16       4       3       1       1       Seattle, WA       130       78       36       10       4       2       7         Lincoln, NE       33       23       7       1       2       -       -       -       Spokane, WA       130       78       36       10       4       2       7         Minneapolis, MN       64       34       13       9       4       4       6       Tacoma, WA       113       86       22       4       1       -       3         Omaha, NE       61       43       11       4       1       2       3       5       Total       11,760**       7,653       2,700       803       314       284       683         St. Paul, MN       49       35       9       3       2       -       2       2         Wichita, KS       78       56       16       4       1       -       6														—		2
Lincoln, NÉ       33       23       7       1       2       —       Association       Spokane, WA       43       31       6       3       2       1       2         Minneapolis, MN       64       34       13       9       4       4       6       Tacoma, WA       113       86       22       4       1       —       3         Omaha, NE       61       43       11       4       1       2       3       5       Total       11,760**       7,653       2,700       803       314       284       683         St. Louis, MO       99       51       26       12       5       3       5       5       5       5       5       5       5       5       4       1       —       2       4       6       3       2       4       683       3       3       4       284       683         St. Paul, MN       49       35       9       3       2       —       2       2       4       1       284       683         Wichita, KS       78       56       16       4       1       —       68       4       4       4       4       <																
Minneapolis, MN       64       34       13       9       4       4       6       Tacoma, WA       113       86       22       4       1       —       3         Omaha, NE       61       43       11       4       1       2       3       5       5       5       5       5       5       5       5       5       5       5       5       5       5       5       5       5       6       16       4       1       —       6 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>1</td><td></td></td<>															1	
Omaha, NE         61         43         11         4         1         2         3         Total         11,760**         7,653         2,700         803         314         284         683           St. Louis, MO         99         51         26         12         5         3         5           St. Paul, MN         49         35         9         3         2         —         2           Wichita, KS         78         56         16         4         1         —         6							4	6	I acoma, WA	113	86	22	4	1	_	3
St. Paul, MN         49         35         9         3         2         —         2           Wichita, KS         78         56         16         4         1         —         6	Omaha, NE								Total	11,760**	7,653	2,700	803	314	284	683
Wichita, KS 78 56 16 4 1 — 6							3									
							_									
				16	4	1	_	6								

U: Unavailable.

 $\frac{1}{2}$ : 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  $\geq$ 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. <sup>†</sup> Pneumonia and influenza.

<sup>1</sup>Because of changes in reporting methods in this Pennsylvania city, these numbers are partial counts for the current week. Complete counts will be available in 4 to 6 weeks. <sup>1</sup>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 July 22, 2006, with historical data



\* No measles or rubella cases were reported for the current 4-week period yielding a ratio for week 29 of zero (0).
† Ratio of current 4-week total to mean of 15 4-week totals (from previous, comparable, and subsequent 4-week periods for the past 5 years). The point where the hatched area begins is based on the mean and two standard deviations of these 4-week totals.

Notifiable Disease Morbidity and 122 Cities Mortality Data TeamPatsy A. HallDeborah A. AdamsRosaline DharaWillie J. AndersonVernitta LoveLenee BlantonPearl C. Sharp

The Morbidity and Mortality Weekly Report (MMWR) Series is prepared by the Centers for Disease Control and Prevention (CDC) and is available free of charge in electronic format. To receive an electronic copy each week, send an e-mail message to *listserv@listserv.cdc.gov*. The body content should read SUBscribe mmwr-toc. Electronic copy also is available from CDC's Internet server at http://www.cdc.gov/mmwr or from CDC's file transfer protocol server at ftp://ftp.cdc.gov/pub/publications/mmwr. Paper copy subscriptions are available through the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402; telephone 202-512-1800.

Data in the weekly *MMWR* are provisional, based on weekly reports to CDC by state health departments. The reporting week concludes at close of business on Friday; compiled data on a national basis are officially released to the public on the following Friday. Data are compiled in the National Center for Public Health Informatics, Division of Integrated Surveillance Systems and Services. Address all inquiries about the *MMWR* Series, including material to be considered for publication, to Editor, *MMWR* Series, Mailstop E-90, CDC, 1600 Clifton Rd., N.E., Atlanta, GA 30333 or to *www.mmwrq@cdc.gov*.

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

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

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

☆U.S. Government Printing Office: 2006-523-056/40063 Region IV ISSN: 0149-2195