# MMWR 

## Morbidity and Mortality Weekly Report

## Weekly

## Preventable Measles Among U.S. Residents, 2001-2004

Elimination of endemic measles has been achieved in the United States (1); however, measles continues to be imported from areas of the world where the disease remains endemic, resulting in substantial morbidity and expenditure of local, state, and federal public health resources $(2,3)$. Measles among U.S. residents results from returning residents who become infected while living or traveling abroad, from contact or association with an infected traveler, or from an unknown source. This report summarizes surveillance data reported to CDC by state and local health departments regarding confirmed measles cases among U.S. residents during 2001-2004; an illustrative case report is included. The majority of measles cases occurring among U.S. residents can be prevented by following current recommendations for vaccination, including specific guidelines for travelers (4).
Confirmed measles cases (4) were defined as preventable if they occurred among persons for whom vaccination is recommended by the Advisory Committee on Immunization Practices (ACIP) but who had not received 1 or more doses of measles-containing vaccine (MCV). Cases were considered nonpreventable if they occurred among persons who 1) had received 1 or more doses of MCV, 2) were not vaccinated and for whom vaccination is not recommended, or 3 ) were born before 1957 (presumed immune from natural disease in childhood). Persons with unknown vaccination status were considered unvaccinated. Outbreaks were defined as three or more epidemiologically linked cases.
During 2001-2004, a total of 251* measles cases were reported to CDC, of which 177 ( $71 \%$ ) occurred among U.S. residents, and 74 ( $29 \%$ ) occurred among nonresidents. Of the 177 cases among U.S. residents, 100 ( $56 \%$ ) were preventable, and 77 ( $44 \%$ ) were nonpreventable (Table 1).

[^0]TABLE 1. Preventable and nonpreventable* reported cases ${ }^{\dagger}$ of measles in U.S. residents, by age, travel history, and measles vaccination status - United States, 2001-2004

| Age group | International travel |  | No international travel |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Vaccinated | Not vaccinated | Vaccinated | Not vaccinated |
| <6 mos | 0 | 0 | 0 | 2 |
| 6-11 mos | 0 | $12^{\S}$ | 0 | 20 |
| 12-15 mos | 0 | 5 § | 1 | 7 |
| 16 mos-4 yrs | 1 | 4 § | 1 | $2^{\S}$ |
| 5-9 yrs | 0 | $2^{\text {§ }}$ | 0 | $2^{\text {§ }}$ |
| 10-19 yrs | 3 | 5 § | 12 | 138 |
| 20-29 yrs | 0 | 9 § | 7 | 17§ |
| 30-39 yrs | 6 | 3 § | 7 | $15^{\S}$ |
| $\geq 40 \mathrm{yrs}$ | 1 | 4II | 2 | $14^{* *}$ |
| Total | 11 | 44 | 30 | 92 |

* Cases were defined as nonpreventable if they occurred among persons who 1) had received 1 or more doses of measles-containing vaccine (MCV), 2) were not vaccinated and for whom vaccination is not recommended, or 3) were born before 1957 (presumed immune from natural disease in childhood).
${ }^{\dagger} \mathrm{N}=177$ (100 preventable, 77 nonpreventable).
§ Preventable cases. Defined as preventable if they occurred among persons for whom vaccination is recommended by the Advisory Committee on Immunization Practices but who had not received 1 or more doses of MCV.
${ }^{17}$ Three of the four cases were preventable; one case occurred in a person born before 1957 and was classified as nonpreventable because MCV is not recommended for that age group.
** Eight of 14 cases were preventable; the other six cases occurred in persons born before 1957 and were classified as nonpreventable because MCV is not recommended for that age group.


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* Proposed.

Preventable Cases. Of the 100 preventable cases, 43 (43\%) occurred among international travelers (imported cases), and 57 (57\%) among nontravelers (indigenous cases). Of the 17 ( $17 \%$ ) preventable cases among infant travelers aged 6-15 months, 12 occurred among infants aged $6-11$ months, and five occurred among children aged 12-15 months. Of the 83 ( $83 \%$ ) preventable cases among persons aged $\geq 16$ months, 26 were in persons who became infected during international travel, and 57 were in persons infected in the United States (Table 1).
Nonpreventable Cases. Of the 77 cases that were nonpreventable, 12 ( $16 \%$ ) occurred among international travelers; 11 of the 12 travelers had received at least 1 dose of MCV, and the other was born before 1957 and had not been vaccinated. A total of 65 ( $84 \%$ ) cases occurred among nontravelers; all were in persons previously vaccinated, except 29 cases in infants aged $\leq 15$ months (routine MCV may be administered as late as age 15 months) and six in persons born before 1957 . Seven of the unvaccinated infants were aged 12-15 months and thus were eligible for vaccination.
Outbreaks. Of the 14 outbreaks identified during 20012004, nine involved three or more U.S. residents; of these, seven originated with a U.S. resident traveler. In one outbreak, 10 cases in a daycare center resulted from exposure to an unvaccinated daycare attendee (an infant aged 9 months) who was infected during travel abroad (2).
Case Report. During June 20-22, 2004, a North Carolina resident aged 11 years traveled from the United Kingdom to North Carolina via New York and Connecticut. After her arrival in North Carolina on June 22, she had cough, coryza, and fever, followed by onset of a rash on June 25. She had suspected measles diagnosed on June 28. She had not received MCV; her parents had declined to have her vaccinated for religious beliefs. One day before her rash onset, the girl had close contact with a male infant aged 11 months. The infant subsequently had measles with rash onset on July 4 . Two days before his rash onset, the infant visited a summer camp, where he potentially had contact with up to 234 persons, including 113 campers, 63 parents/visitors, and 58 staff members. Several campers returned home at the end of the camp session, the day after the exposure. Multistate and multinational investigation and control efforts to prevent further spread were conducted. Potentially infected persons subsequently traveled to Arizona, Arkansas, Florida, New York, Australia, Costa Rica, New Zealand, South Africa, and Wales. No additional cases of measles were subsequently identified.
Reported by: S Smith, North Carolina Dept of Health and Human Svcs. F Averhoff, MD, S Redd, Epidemiology and Surveillance Div, National Immunization Program; A Rue, MPH, EIS Officer, CDC.
Editorial Note: Travel anywhere outside of the United States, including to industrialized regions such as Western Europe,
presents a risk for measles exposure. In 2003, approximately 24 million U.S. residents traveled abroad, and 40 million international visitors entered the United States (5,6). Importation of measles from foreign visitors is unavoidable because no regulations are in effect requiring vaccination of visitors. However, as other countries reduce the burden of measles, the risk of travelers bringing measles into the United States will decrease.
Measles can cause serious complications and death, particularly among children aged <5 years. All U.S. residents should be vaccinated in accordance with ACIP recommendations (4), with special attention to international travelers who now account for a substantial proportion of the measles disease burden in the United States. Health-care providers who serve populations that travel should be aware of the vaccination recommendations for international travelers (7). Current measles recommendations for travelers include vaccination for infants aged 6-11 months and 2 doses of MCV for travelers aged $\geq 12$ months (Table 2). Despite these recommendations, $17 \%$ of the preventable cases described in this report occurred among unvaccinated travelers aged $6-15$ months. The reasons for these children not receiving MCV are unknown but might include lack of awareness among parents and healthcare providers regarding recommendations for infants aged 6-11 months, refusal because of personal or religious beliefs, or lack of perceived risk, especially for children of foreignborn U.S. residents who travel to their country of origin $(8,9)$. Imported and secondary cases among U.S. residents who refuse vaccination because of personal or religious beliefs can result
in the introduction of measles into communities with other susceptible persons who share the same beliefs, thereby posing a risk for substantial spread of disease $(3,10)$. In addition, seven cases in nontravelers aged 12-15 months might have been prevented if these children had been vaccinated as soon as they became eligible for MCV (e.g., MMR) at age 12 months.
Measles cases among persons born before 1957 for whom vaccination is not recommended are rare. However, persons in this age group who travel internationally might wish to consider vaccination to minimize their risk for measles.
The findings in this report are subject to at least three limitations. First, certain measles cases might have been missed or not reported to public health officials, including cases that occurred and resolved during travel abroad. Second, because information on multiple doses of MCV is collected inconsistently, persons who had received at least 1 dose of MCV were considered vaccinated, even though 2 doses are recommended for some age groups and for most international travelers (4), thus potentially underestimating the number of preventable cases. Third, preventable cases might be overestimated because vaccine efficacy is $<100 \%$, and vaccination data were missing for 30 ( $17 \%$ ) persons. All persons with missing data were considered unvaccinated, although some might have received MCV.
Because of the high infectivity and morbidity associated with measles, contact tracing is a standard public health practice and can require many hours of public health staff time and can cost thousands of dollars (3). A recent study evaluating the economic impact of an infected U.S. traveler returning from India estimated the costs of locating and vaccinating

TABLE 2. Summary of ACIP* recommendations for measles-containing vaccine (MCV) for international travelers, by age group

| Age group | Recommended ages for vaccination | Recommended doses of MCV | Considerations |
| :---: | :---: | :---: | :---: |
| Children |  |  |  |
| Infants | $<6 \mathrm{mos}$ | None | MCV is not recommended for infants aged <6 months. |
| Infants | 6-11 mos | 1 dose | Infants who receive MCV at age 6-11 months should receive an additional 2 doses of MCV as measles-mumps-rubella (MMR) vaccine. If they continue to travel or reside outside of the United States, the first of these 2 additional doses should be administered at age 12 months, and the second $\geq 28$ days after the first dose. If they return to the United States, they should resume the recommended vaccination schedule. |
| Children | $\geq 12 \mathrm{mos}$ | 2 doses MMR | Children aged $\geq 12$ months who will travel abroad should receive 2 doses of MMR separated by at least 28 days, with the first dose administered on or after the first birthday. |
| Adults |  |  |  |
| Born 1957 or later | All | 2 doses MMR | Persons born in the United States in 1957 or later should have received 2 doses of MMR or have presumptive evidence of immunity, which includes laboratory evidence of immunity or documentation of physician-diagnosed measles. |

Born before 1957 N/A None ${ }^{\dagger}$ For persons born before 1957, MCV is generally not indicated.

[^1]susceptible contacts at $\$ 140,000$ (3). Although few cases have been associated with transmission during air travel (3; CDC, unpublished data, 2005), contact tracing of infected air travelers is particularly challenging; a person with measles can be infectious from at least 4 days before through 4 days after rash onset. To avoid outbreaks or a resurgence of measles, as occurred during 1989-1991, when approximately 55,000 cases and 120 measles-related deaths were reported in the United States (4), high population immunity and surveillance must be maintained.

To prevent measles among U.S. residents, health-care providers should follow ACIP vaccination recommendations, ensuring that travelers are vaccinated, particularly infants aged $6-11$ months, and that 2 doses are administered for those aged $\geq 12$ months. In addition, parents should be educated about the risk for measles associated with international travel and the need for vaccination. Information on vaccination recommendations for travelers is available from CDC at http:// www.cdc.gov/travel.

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## Shigella flexneri Serotype 3 Infections Among Men Who Have Sex with Men Chicago, Illinois, 2003-2004

During 2003-2004, the Chicago Department of Public Health (CDPH) investigated an increase in reported Shigella flexneri serotype 3 infections among adult males. This report summarizes the investigation into those cases and underscores the potential for sexual transmission of enteric infections among men who have sex with men (MSM).
Shigellosis is a reportable disease in Illinois. During 19952002, a total of 95 cases of $S$. flexneri serotype 3 infection in Chicago residents were reported to CDPH (mean: 11.9 cases per year); 40 ( $42 \%$ ) of these cases occurred in males aged $\geq 18$ years (Figure 1). In contrast, 33 ( $85 \%$ ) of 39 reported cases (mean: 19.5 cases per year) occurred in adult males during 2003-2004. The mean annual number of case reports among adult males increased from 5.0 to 16.5 , whereas case reports among women and children decreased from 6.9 to 3.0 during this period. CDPH conducted an investigation to characterize these infections.

For this investigation, a case of S. flexneri serotype 3 infection was defined as one with onset of diarrhea during 20032004 in a male Chicago resident aged $\geq 18$ years, with accompanying isolation of S. flexneri serotype 3 from stool culture. Health-care providers were asked to report all Shigella infections among Chicago residents to CDPH and to send Shigella isolates to the state public health laboratory for speciation. Persons whose illness was consistent with the case definition were interviewed with a standard case-investigation

FIGURE 1. Number* of Shigella flexneri serotype 3 cases, by demographic group - Chicago, Illinois, 1995-2004


[^2]questionnaire, which included the following questions: "With regard to sexual orientation, would you describe yourself as 1) heterosexual, 2) homosexual, 3) bisexual, 4) don't know, or 5) refused?" and "In the week prior to the onset of this illness, do you remember engaging in a same-sex relationship?" Responses were "yes", "no", or "don't know." Information about sexual activities and human immunodeficiency virus (HIV) status was not collected systematically. Serotyping, antimicrobial-susceptibility testing, and pulsed-field gel electrophoresis (PFGE) of available isolates were performed at the Illinois Department of Public Health and CDC.
Illness onsets for 33 identified patients occurred throughout both years (Figure 2). In all patients, clinical illness was limited to gastroenteritis; 16 ( $48 \%$ ) patients were hospitalized for treatment, and all recovered without sequelae. Patients ranged in age from 20 to 56 years (median: 35 years); $24(83 \%)$ of 29 patients for whom race was ascertained were non-Hispanic white. Twenty-two (88\%) of 25 patients asked to characterize their sexual orientation described themselves as MSM. No other common food, water, daycare, or travel exposures or risk factors for shigellosis were found.

Fourteen isolates obtained from MSM were available for additional testing. Twelve ( $86 \%$ ) were identified as $S$. flexneri subtype 3a; the remaining two isolates were $S$. flexneri subtype 3b. Seven closely related PFGE patterns were identified among the 11 S. flexneri subtype 3a isolates subtyped by PFGE. Eleven isolates were tested for antimicrobial susceptibility; all were susceptible to ciprofloxacin and resistant to ampicillin, and nine ( $82 \%$ ) were resistant to trimethoprim-sulfamethoxazole.

FIGURE 2. Number* of Shigella flexneri serotype 3 cases, by sex, sexual orientation, and month of onset - Chicago, Illinois, 2003-2004


* $N=39$.

Reported by: JT Watson, MD, RC Jones, MPH, J Fernandez MC, C Cortes, SI Gerber, MD, Chicago Dept of Public Health; KJ Kuo, MS, JS Price, MS, Div of Laboratories, Illinois Dept of Public Health. JT Brooks, MD, Div of HIVIAIDS Prevention, National Center for HIV, STD, and TB Prevention; D Jennings, M Fair, E Mintz, MD, Div of Bacterial and Mycotic Diseases, National Center for Infectious Diseases; A Bowen, MD, EIS Officer, CDC.
Editorial Note: Shigella is the third most common cause of bacterial gastroenteritis in the United States (1). The majority of Shigella infections in the United States are caused by $S$. sonnei and affect young children and their caretakers. S. flexneri causes approximately $18 \%$ of U.S. Shigella infections (1). The national incidence of $S$. flexneri infections decreased 64\% from 1989 to 2002 (1). However, a recent analysis indicated an increase in Shigella infection among adult males (2). This increase is likely attributable to outbreaks of shigellosis among MSM; since the 1970s, outbreaks of shigellosis attributable to $S$. flexneri and more recently $S$. sonnei have been reported among MSM in major cities in North America (3-5), Europe (6), and Australia (7).

The low inoculum required for Shigella infection (as few as 10-200 organisms) facilitates person-to-person transmission. Risk factors for sexual transmission of Shigella have not been well characterized but likely involve exposure to fecal material. In outbreaks among MSM, 50\%-90\% of participants reported oral-genital or oral-anal contact during the week before diagnosis with Shigella infection (3,5). A case-control study of shigellosis among MSM in Sydney, Australia, implicated exposure to a commercial sex venue as the sole risk factor for illness (7). Although the effect of HIV infection on risk for sexual transmission of Shigella is not well understood, it might be associated with elevated risk for acquiring shigellosis and with more severe disease (8).

Other enteric illnesses, such as those caused by hepatitis A, Entamoeba histolytica, Giardia lamblia, Campylobacter, and Salmonella, also can be transmitted sexually $(4,9,10)$. Because feces can contain multiple pathogens, polymicrobial infections can result from a single sexual exposure (3,4). Outbreaks of sexually transmitted shigellosis might be observed more frequently than outbreaks of other sexually transmissible enteric organisms because the infectious dose is lower, the illness produces symptoms that are more likely to bring patients to medical attention, and laboratory diagnosis is simpler. More routine molecular subtyping of Shigella by PFGE might also facilitate recognition of epidemiologically related shigellosis clusters.

To reduce the risk for sexually transmitted enteric infections, persons with diarrhea should refrain from oral-anal, oral-genital, and anal-genital contact while they are symptomatic. Because Shigella and other enteric pathogens can be carried asymptomatically, persons who engage in sexual contact
that could expose them or their sex partners to fecal material should wash their hands and anal-genital regions thoroughly with soap and water before and after sexual activity. The use of condoms during oral-genital or anal-genital contact, dental dams during oral-anal contact, and gloves during digitalanal contact will help reduce the opportunities for sexual transmission of Shigella and other pathogens. Clinicians should request appropriate laboratory examinations, including stool culture for patients with diarrhea who are MSM, and counsel patients about the risk for infection with enteric pathogens during sexual activity that could expose them to feces. Shigella isolates should be routinely serotyped and molecularly subtyped by PFGE to assist in detection of outbreaks. Investigations of shigellosis outbreaks and outbreaks of other enteric diseases among MSM are needed to better characterize specific high-risk behaviors for transmission, identify effective prevention measures, and clarify the role of HIV infection and antiretroviral therapy in the sexual transmission of Shigella.

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## Progress in Improving State and Local Disease Surveillance United States, 2000-2005

In September 2000, states began receiving federal funding to plan and implement integrated electronic systems for disease surveillance. CDC and state and local health departments had recognized the importance of such systems and of uniform standards to improve the usefulness of public health surveillance and the timeliness of response to outbreaks of disease. Previously, state health departments received most case-report forms by mail and then entered the data into computer systems, sometimes weeks after the cases of notifiable disease had occurred, including cases that warranted immediate public health investigation or intervention. In addition, depending on the disease, only $10 \%-85 \%$ of cases were reported, and more than 100 different systems were used to transmit these reports from the states to CDC (CDC, unpublished data, 2005). This report summarizes progress since the initial funding in 2000 in improving state and local disease surveillance through secure, Internet-based data entry and automated electronic laboratory results (ELR) reporting. Both are components of the National Electronic Disease Surveillance System (NEDSS),* the surveillance and monitoring component of the broader Public Health Information Network (PHIN) initiative. ${ }^{\dagger}$ Local, state, and national public health officials should continue to improve the timeliness and completeness of disease surveillance.
To ensure that information can be collected, exchanged, and interpreted at all levels (i.e., local, state, and national), CDC has worked with state and local health departments and clinical partners to identify data and information system standards to incorporate into NEDSS. By facilitating the identification, adoption, and implementation of standards for data content, format, transport, and security, the NEDSS project seeks to strengthen the ability of public health agencies to exchange pertinent information needed for surveillance and intervention between clinicians and public health agencies and among public health partners. State health departments have pursued these goals by developing, modifying, or commissioning their own NEDSS-compatible systems or by implementing and configuring the NEDSS Base System ${ }^{\S}$ to meet their specific needs.
As of April 2005, a total of 27 state health departments and two municipal health departments (New York City and Los

[^3]Angeles) were entering at least some notifiable disease data by using a secure, Internet-based system (Figure 1). Twenty-three other states were actively planning, developing, and implementing Internet-based systems. Although Internet-based data entry is frequently performed by workers in local and state health departments, in at least 13 states, data entry is also performed by private health-care providers, infection-control practitioners, and/or clinical laboratory workers, expediting availability of the data to health departments.
In addition to secure, Internet-based reporting, NEDSS supports ELR. When a test result indicates a notifiable condition, clinical diagnostic and public health laboratories with ELR transmit data from their computer systems directly to state and local health department systems. As of April 2005, a total of 26 state health departments (excluding those receiving only blood lead level results) received laboratory test results via ELR (Figure 1), and the remaining 24 states were in various stages of preparing for ELR.
The experiences of three state health departments illustrate capabilities provided through NEDSS and PHIN that have improved the practice of public health.

## New Jersey

In late 2001, the New Jersey Department of Health and Senior Services (NJDHSS) implemented the secure, Internetbased, Communicable Disease Reporting System (CDRS). Since implementation of CDRS, the number of reported cases of notifiable diseases doubled from 14,608 in 2002 to 29,967 in 2004, and the percentage of cases entered by NJDHSS staff

FIGURE 1. Disease surveillance, by state and method National Electronic Disease Surveillance System, United States, April 2005

decreased from $67 \%$ in 2002 (and from $100 \%$ in 2001) to approximately $16 \%$ in 2004 (Figure 2). In addition, the percentage of cases entered by local health departments, hospitals, and Local Information Network and Surveillance Systems (i.e., regional public health networks) increased from approximately $11 \%$ in 2002 (and from zero in 2001) to $50 \%$ in 2004 (Figure 2), including 30\% entered by health-care providers at hospitals or medical centers. During 2004, approximately 34\% of the cases were reported via ELR by Laboratory Corporation of America (Burlington, North Carolina).
Before CDRS, cases of notifiable diseases might have required several months for entry of data in the NJDHSS system because of delays in reporting, postal service, and data entry. However, timeliness has improved substantially. In 2003, NJDHSS determined that cases were entered into CDRS an average of 28 days after illness onset. In 2004, that average had been reduced to 3-4 days. In addition, cases can now be updated in minutes and are available statewide to authorized persons in seconds.

## Oklahoma

In June 2004, Oklahoma implemented its secure, Internetbased disease surveillance and reporting system, Public Health Information and Disease Detection of Oklahoma. Once a case is verified by health department staff and assigned to the

FIGURE 2. Number of notifiable disease case reports, by reporting site and year - New Jersey Department of Health and Senior Services (NJDHSS), 2002-2004


[^4]appropriate jurisdiction, the system supports online followup by local public health nurses representing all Oklahoma counties. As of June 1, 2005, a total of 164 infection-control practitioners and 210 laboratorians representing all Oklahoma hospitals and 32 physicians had registered to use the system.

Upon entry of a disease deemed urgently notifiable by state administrative law, ${ }^{9}$ the Oklahoma system automatically sends a page, text message, and e-mail message with key details to the state epidemiologist on call. The system also informs persons reporting cases that they will be contacted within 15 minutes by that epidemiologist. Regardless of the hour, the epidemiologist can then log on to the system from any location and initiate a rapid public health response when warranted. During June 2004-May 2005, epidemiologists launched case investigations within the targeted response time of 15 minutes on 111 urgently notifiable disease reports, including 10 cases of invasive meningococcal disease, 12 cases of tularemia (endemic in Oklahoma), and one outbreak of unknown infectious disease.

## Pennsylvania

In January 2003, the Pennsylvania Department of Health implemented a secure, Internet-based disease reporting system, PA-NEDSS, that incorporates online reporting** by laboratories, hospitals, and clinicians; fully integrated ELR; case management; and analysis capabilities. Submitted reports are immediately accessible by state and local health department staff.

As of February 2005, a total of 549 public health staff members, 381 hospitals and clinics, 223 laboratories, and 564 physicians were registered with the system. In addition, 42 high-volume laboratories were submitting reports through ELR. Approximately 20,000 reports are submitted each month through PA-NEDSS; 67\% of reports are received via ELR, $24 \%$ via online laboratory reporting, $8 \%$ via online hospital reporting, and $1 \%$ via other sources.

During a hepatitis A outbreak with 601 cases in 2003, all public health workers in the affected region of the state were needed to staff clinics and administer immune globulin to exposed persons to prevent further transmission of disease. Investigation of cases newly reported by PA-NEDSS were assigned to public health staff in unaffected regions, allowing local staff to focus on prevention of cases while ensuring that new cases were investigated promptly. Since the outbreak, cer-

[^5]tain areas of the state have extended that use of PA-NEDSS to balance the routine workload among counties.
Reported by: State health departments. $C D C$.
Editorial Note: The transition to integrated electronic systems from paper-based systems for disease surveillance has made substantial strides in recent years. As of April 2005, a total of 27 states were using secure, Internet-based systems for entry of notifiable disease reports, and 26 received laboratory test results automatically through ELR. When clinicians, laboratories, or local health department investigators enter data securely over the Internet, that information can be available to state or local health departments immediately, avoiding delays caused by mailing forms or backlogs in data-entry processing at health departments.

Surveillance of communicable diseases focuses on ELR because a large proportion of cases can be identified from laboratory test results; diagnostic laboratories are also key surveillance partners for chronic and environmentally related disease surveillance (e.g., for blood lead level testing). ELR facilitated by NEDSS provides faster and more complete reporting of laboratory test results. Use of ELR has increased the number of cases reported to health departments by two- to threefold and has improved the timeliness of reporting by at least 3.8 days ( 1 ). ELR infrastructure also can be used to integrate public health laboratory and epidemiologic investigations. Ongoing efforts to ensure availability of PHIN-compliant laboratory information systems will equip state and local public health laboratories for standards-based exchange of information and further strengthen public health surveillance and response.

Although many states are using the Internet for ELR, challenges remain to achieving national proficiency at standardsbased, secure information exchange. In its "business case" for a nationwide health information network, the Center for Information Technology Leadership (CITL) (Partners HealthCare System, Boston, Massachusetts) has defined a fourlevel taxonomy for health information exchange (2). The highest level, Level 4 (machine integrable information exchange), requires adherence to the structured messages and standardized data content provided by NEDSS and PHIN. However, multiple states still use different electronic formats and nonstandard content for ELR, corresponding to CITL Level 3 (machine organizable data systems). According to the CITL model, although implementation of Level 3 systems can enhance information exchange, cost savings occur only with implementation of Level 4 systems (2).

This first phase of ELR is providing state health departments with results from large multijurisdictional laboratories and from certain state public health laboratories. The next phase will require broadening of reporting from the large
multijurisdictional laboratories and enabling exchange of results with other laboratories, including large hospital and local laboratories. However, many of these facilities use proprietary information systems and local (i.e., nonstandard) coding systems that would require multiple custom interfaces to enable automated exchange of results. CDC is working with national partners to identify possible solutions.

Using standards and systems to enhance the exchange of information between the clinical sector and public health is a principal goal of NEDSS and PHIN. The ELR enhancements have required detailed specifications for the format, data elements, and standard codes for ELR messages by using the Health Level Seven (version 2.3) ${ }^{\dagger \dagger}$ standard message format and standard, controlled vocabularies for test names (LOINC ${ }^{\circledR 8 S}$ ) and test results ( SNOMED $^{\text {® }}{ }^{\text {S9 }}$ ). In addition, PHIN specifies the standards for secure transmission of these

[^6]messages over the Internet; to meet these standards, CDC has provided the PHIN Messaging System ${ }^{* * *}$ for use by public and private partners. Successful ELR reporting provides experience with secure, standards-based, interoperable data exchange, relevant for public health agencies and also for their partners in clinical medicine.
The examples in this report demonstrate the impact NEDSS has had on disease surveillance and deployment of public health staff and resources. Use of secure, Internet-based systems enables public health response 24 hours a day, 7 days a week. State health departments have used these systems to manage workloads and increase capacity during outbreaks and to help improve the nation's ability to detect and respond to disease threats.

## References

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2. Walker J, Pan E, Johnston D, Adler-Milstein J, Bates DW, Middleton B. The value of health care information exchange and interoperability. Health Aff(Millwood) 2005: W5-10-W5-18. Available at http:// content.healthaffairs.org/cgi/reprint/hlthaff.w5.10v1.
[^7]
## QuickStats

FROM THE NATIONAL CENTER FOR HEALTH STATISTICS
Percentage* of Persons Aged $\geq 20$ Years with Hypertension, ${ }^{\dagger}$ by Race/Ethnicity - United States, 1999-2002


Race/Ethnicity

* Percentages are age-adjusted to the 2000 U.S. standard population by using five age groups: 20-34, 35-44, 45-54, 55-64, and $\geq 65$ years.
${ }^{\dagger}$ Defined as either having elevated blood pressure (systolic pressure of $\geq 140 \mathrm{mmHg}$ or diastolic pressure of $\geq 90 \mathrm{mmHg}$ ) or taking antihypertensive medication.
§ Includes persons of all races/ethnicities (including all Hispanic origins), not just non-Hispanic whites, non-Hispanic blacks, and Mexican Americans.
${ }^{\Pi}$ Persons in this subpopulation might be of any race.
During 1999-2002, approximately $30 \%$ of persons aged $\geq 20$ years had hypertension. Among those racial/ethnic populations and subpopulations evaluated, the percentage with hypertension was highest among non-Hispanic blacks. Men and women were approximately equally likely to have hypertension.

SOURCES: National Center for Health Statistics. Health, United States, 2004: with chartbook on trends in the health of Americans. Hyattsville, MD: US Department of Health and Human Services, CDC, National Center for Health Statistics; 2004. Available at http://www.cdc.gov/nchs/hus.htm.

National Health and Nutrition Examination Survey, 1999-2002. Available at http://www.cdc.gov/nchs/nhanes.htm.

FIGURE I. Selected notifiable disease reports, United States, comparison of provisional 4-week totals August 20, 2005, with historical data


* No rubella cases were reported for the current 4-week period yielding a ratio for week 33 of zero (0).
† Ratio of current 4-week total to mean of 154 -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.

TABLE I. Summary of provisional cases of selected notifiable diseases, United States, cumulative, week ending August 20, 2005 (33rd Week)*

| Disease | $\begin{aligned} & \text { Cum. } \\ & 2005 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2004 \end{aligned}$ | Disease | $\begin{aligned} & \text { Cum. } \\ & 2005 \end{aligned}$ | $\begin{aligned} & \text { Cum. } \\ & 2004 \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Anthrax | - | - | Hemolytic uremic syndrome, postdiarrheal ${ }^{\dagger}$ | 89 | 105 |
| Botulism: |  |  | HIV infection, pediatric ${ }^{+\pi}$ | 181 | 260 |
| foodborne | 7 | 6 | Influenza-associated pediatric mortality ${ }^{\text {+** }}$ | 43 | - |
| infant | 43 | 49 | Measles | $56^{+\dagger}$ | $25^{\text {s }}$ |
| other (wound \& unspecified) | 17 | 8 | Mumps | 179 | 130 |
| Brucellosis | 65 | 58 | Plague | 3 | - |
| Chancroid | 17 | 17 | Poliomyelitis, paralytic | - | - |
| Cholera | 2 | 4 | Psittacosis ${ }^{\dagger}$ | 13 | 8 |
| Cyclosporiasis ${ }^{\dagger}$ | 663 | 175 | Q fever ${ }^{\text {+ }}$ | 68 | 41 |
| Diphtheria | - | - | Rabies, human | 1 | 4 |
| Domestic arboviral diseases |  |  | Rubella | 8 | 9 |
| (neuroinvasive \& non-neuroinvasive): | - | - | Rubella, congenital syndrome | 1 | - |
| California serogroup ${ }^{\text {¢ }}$ | 6 | 68 | SARS ${ }^{+* *}$ | - | - |
| eastern equine ${ }^{\text {¢ }}$ | 5 | 1 | Smallpox ${ }^{\dagger}$ | - | - |
| Powassant§ | - | 1 | Staphylococcus aureus: |  |  |
| St. Louis ${ }^{\dagger}$ § | 1 | 7 | Vancomycin-intermediate (VISA) ${ }^{\dagger}$ | - | - |
| western equine ${ }^{\dagger \text { ¢ }}$ | - | - | Vancomycin-resistant (VRSA) ${ }^{+}$ | - | 1 |
| Ehrlichiosis: | - | - | Streptococcal toxic-shock syndrome ${ }^{\dagger}$ | 90 | 100 |
| human granulocytic (HGE) ${ }^{\dagger}$ | 250 | 243 | Tetanus | 14 | 12 |
| human monocytic (HME) ${ }^{\dagger}$ | 187 | 166 | Toxic-shock syndrome | 62 | 58 |
| human, other and unspecified ${ }^{\dagger}$ | 36 | 44 | Trichinellosis ${ }^{111}$ | 12 | 1 |
| Hansen disease ${ }^{\dagger}$ | 48 | 64 | Tularemia ${ }^{\text {T }}$ | 79 | 62 |
| Hantavirus pulmonary syndrome ${ }^{\dagger}$ | 16 | 16 | Yellow fever | - | - |

-: No reported cases.

* Incidence data for reporting years 2004 and 2005 are provisional and cumulative (year-to-date).

Not notifiable in all states.
U Updated weekly from reports to the Division of Vector-Borne Infectious Diseases, National Center for Infectious Diseases (ArboNet Surveillance).
${ }^{6}$ Updated monthly from reports to the Division of HIV/AIDS Prevention, National Center for HIV, STD, and TB Prevention. Last update June $26,2005$.
** Updated weekly from reports to the Division of Viral and Rickettsial Diseases, National Center for Infectious Diseases.
${ }^{\dagger} \S$ Of 56 cases reported, 46 were indigenous and 10 were imported from another country.
Iी Of 25 cases reported, eight were indigenous and 17 were imported from another country.
${ }^{191}$ Formerly Trichinosis.

TABLE II. Provisional cases of selected notifiable diseases, United States, weeks ending August 20, 2005, and August 21, 2004 (33rd Week)*

| Reporting area | AIDS |  | Chlamydia ${ }^{\text { }}$ |  | Coccidioidomycosis |  | Cryptosporidiosis |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \text { Cum. } \\ & 2005^{\S} \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2004 \\ & \hline \end{aligned}$ | $\begin{aligned} & \text { Cum. } \\ & 2005 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2004 \\ & \hline \end{aligned}$ | $\begin{aligned} & \text { Cum. } \\ & 2005 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2004 \\ & \hline \end{aligned}$ | $\begin{aligned} & \text { Cum. } \\ & 2005 \\ & \hline \end{aligned}$ | $\begin{aligned} & \text { Cum. } \\ & 2004 \\ & \hline \end{aligned}$ |
| UNITED STATES | 20,405 | 25,103 | 567,157 | 580,794 | 2,767 | 3,510 | 1,610 | 1,980 |
| NEW ENGLAND | 778 | 842 | 20,253 | 19,066 | - | - | 94 | 110 |
| Maine | 11 | 14 | 1,272 | 1,248 | N | N | 12 | 15 |
| N.H. | 20 | 29 | 1,144 | 1,060 | - | - | 14 | 20 |
| Vt. ${ }^{11}$ | 4 | 13 | 614 | 726 | - | - | 20 | 16 |
| Mass. | 368 | 283 | 9,008 | 8,418 | - | - | 33 | 43 |
| R.I. | 68 | 82 | 2,063 | 2,163 | - | - | 3 | 4 |
| Conn. | 307 | 421 | 6,152 | 5,451 | N | N | 12 | 12 |
| MID. ATLANTIC | 4,352 | 5,527 | 69,789 | 71,800 | - | - | 219 | 290 |
| Upstate N.Y. | 800 | 665 | 14,137 | 14,230 | N | N | 81 | 63 |
| N.Y. City | 2,327 | 3,053 | 22,817 | 22,273 | - | - | 42 | 80 |
| N.J. | 574 | 977 | 10,585 | 11,430 | N | N | 10 | 28 |
| Pa. | 651 | 832 | 22,250 | 23,867 | N | N | 86 | 119 |
| E.N. CENTRAL | 1,938 | 2,098 | 86,835 | 102,529 | 5 | 9 | 338 | 615 |
| Ohio | 312 | 423 | 21,403 | 25,316 | N | N | 113 | 121 |
| Ind. | 236 | 247 | 12,495 | 11,430 | N | N | 24 | 48 |
| III. | 983 | 943 | 26,018 | 29,951 | - | - | 34 | 110 |
| Mich. | 322 | 380 | 15,282 | 23,965 | 5 | 9 | 49 | 99 |
| Wis. | 85 | 105 | 11,637 | 11,867 | N | N | 118 | 237 |
| W.N. CENTRAL | 463 | 501 | 35,193 | 35,216 | 6 | 5 | 306 | 243 |
| Minn. | 123 | 141 | 6,508 | 7,417 | 3 | N | 64 | 82 |
| Iowa | 50 | 36 | 4,314 | 4,294 | N | N | 59 | 50 |
| Mo. | 198 | 202 | 14,081 | 12,959 | 2 | 3 | 146 | 42 |
| N. Dak. | 5 | 15 | 715 | 1,156 | N | N | - | 9 |
| S. Dak. | 10 | 7 | 1,769 | 1,535 | - | - | 13 | 23 |
| Nebr. ${ }^{\text {² }}$ | 18 | 21 | 3,494 | 3,251 | 1 | 2 | 4 | 18 |
| Kans. | 59 | 79 | 4,312 | 4,604 | N | N | 20 | 19 |
| S. ATLANTIC | 6,473 | 7,869 | 111,795 | 108,492 | 1 | - | 300 | 310 |
| Del. | 100 | 105 | 2,086 | 1,813 | N | N | - | - |
| Md. | 812 | 983 | 11,795 | 11,987 | 1 | - | 20 | 12 |
| D.C. | 467 | 496 | 2,349 | 2,252 | - | - | 5 | 10 |
| Va." | 307 | 465 | 12,928 | 13,909 | - | - | 22 | 31 |
| W. Va. | 36 | 55 | 1,655 | 1,787 | N | N | 6 | 4 |
| N.C. | 531 | 393 | 21,163 | 18,206 | N | N | 35 | 52 |
| S.C. ${ }^{11}$ | 386 | 493 | 14,230 | 11,226 | - | - | 9 | 13 |
| Ga. | 1,103 | 1,015 | 18,487 | 20,438 | - | - | 61 | 105 |
| Fla. | 2,731 | 3,864 | 27,102 | 26,874 | N | N | 142 | 83 |
| E.S. CENTRAL | 1,093 | 1,183 | 41,450 | 37,684 | - | 4 | 60 | 77 |
| Ky. | 135 | 129 | 6,017 | 3,590 | N | N | 22 | 26 |
| Tenn." | 434 | 462 | 14,957 | 14,355 | N | N | 21 | 22 |
| Ala. ${ }^{1}$ | 295 | 304 | 7,235 | 8,623 | - | - | 15 | 13 |
| Miss. | 229 | 288 | 13,241 | 11,116 | - | 4 | 2 | 16 |
| W.S. CENTRAL | 2,206 | 3,137 | 68,729 | 73,292 | 1 | 2 | 55 | 66 |
| Ark. | 72 | 132 | 4,672 | 5,164 | - | 1 | 2 | 13 |
| La. | 436 | 638 | 12,572 | 14,954 | 1 | 1 | 3 | 2 |
| Okla. | 167 | 120 | 6,896 | 7,200 | N | N | 30 | 15 |
| Tex." | 1,531 | 2,247 | 44,589 | 45,974 | N | N | 20 | 36 |
| MOUNTAIN | 789 | 851 | 33,639 | 34,945 | 1,950 | 2,182 | 74 | 101 |
| Mont. | 4 | 4 | 1,166 | 1,569 | N | N | 12 | 28 |
| Idaho ${ }^{\text {a }}$ | 9 | 11 | 1,554 | 1,809 | N | N | 6 | 10 |
| Wyo. | 2 | 6 | 698 | 679 | 2 | 1 | 2 | 2 |
| Colo. | 163 | 162 | 8,615 | 8,531 | N | N | 23 | 34 |
| N. Mex. | 72 | 138 | 3,272 | 5,668 | 6 | 16 | 3 | 9 |
| Ariz. | 329 | 310 | 11,604 | 10,570 | 1,907 | 2,114 | 9 | 14 |
| Utah | 33 | 41 | 2,696 | 2,369 | 4 | 11 | 11 | 2 |
| Nev. ${ }^{17}$ | 177 | 179 | 4,034 | 3,750 | 31 | 40 | 8 | 2 |
| PACIFIC | 2,313 | 3,095 | 99,474 | 97,770 | 804 | 1,308 | 164 | 168 |
| Wash. | 229 | 214 | 11,887 | 11,064 | N | N | 25 | 14 |
| Oreg." | 136 | 155 | 5,294 | 5,137 | - | - | 31 | 24 |
| Calif. | 1,874 | 2,648 | 77,061 | 75,610 | 804 | 1,308 | 107 | 128 |
| Alaska | 14 | 21 | 2,523 | 2,406 | - | - | - | - |
| Hawaii | 60 | 57 | 2,709 | 3,553 | - | - | 1 | 2 |
| Guam | 1 | 1 | - | 736 | - | - | - | - |
| P.R. | 537 | 395 | 2,341 | 2,430 | N | N | N | N |
| V.I. | 10 | 6 | 119 | 243 | - | - | N | , |
| Amer. Samoa | U | U | U | U | U | U | U | U |
| C.N.M.I. | 2 | U | - | U | - | U | - | U |

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

* Incidence data for reporting years 2004 and 2005 are provisional and cumulative (year-to-date).
${ }^{\dagger}$ Chlamydia refers to genital infections caused by C. trachomatis.
§ Updated monthly from reports to the Division of HIV/AIDS Prevention, National Center for HIV, STD, and TB Prevention. Last update June 26, 2005.
${ }^{1}$ Contains data reported through National Electronic Disease Surveillance System (NEDSS).

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending August 20, 2005, and August 21, 2004 (33rd Week)*

| Reporting area | Escherichia coli, Enterohemorrhagic (EHEC) |  |  |  |  |  | Giardiasis |  | Gonorrhea |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 0157:H7 |  | Shiga toxin positive, serogroup non-0157 |  | Shiga toxin positive, not serogrouped |  |  |  |  |  |
|  | $\begin{aligned} & \hline \text { Cum. } \\ & 2005 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2004 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2005 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2004 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2005 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2004 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2005 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2004 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2005 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2004 \\ & \hline \end{aligned}$ |
| UNITED STATES | 1,127 | 1,390 | 171 | 165 | 140 | 104 | 9,738 | 11,113 | 192,493 | 202,837 |
| NEW ENGLAND | 91 | 102 | 33 | 36 | 23 | 9 | 886 | 999 | 3,840 | 4,438 |
| Maine | 11 | 8 | 6 | - | - | - | 117 | 80 | 78 | 149 |
| N.H. | 10 | 14 | 2 | 5 | - | - | 35 | 24 | 105 | 75 |
| Vt. | 10 | 9 | 3 | - | - | - | 103 | 92 | 34 | 56 |
| Mass. | 34 | 45 | 6 | 13 | 23 | 9 | 356 | 468 | 1,663 | 1,995 |
| R.I. | 3 | 6 | - | 1 | - | - | 62 | 68 | 292 | 548 |
| Conn. | 23 | 20 | 16 | 17 | - | - | 213 | 267 | 1,668 | 1,615 |
| MID. ATLANTIC | 136 | 162 | 15 | 25 | 20 | 23 | 1,779 | 2,387 | 19,775 | 23,067 |
| Upstate N.Y. | 64 | 67 | 10 | 11 | 7 | 10 | 632 | 757 | 4,008 | 4,610 |
| N.Y. City | 7 | 32 | - | - | - | - | 478 | 696 | 5,974 | 7,185 |
| N.J. | 21 | 31 | 1 | 5 | 3 | 6 | 208 | 307 | 3,242 | 4,358 |
| Pa . | 44 | 32 | 4 | 9 | 10 | 7 | 461 | 627 | 6,551 | 6,914 |
| E.N. CENTRAL | 229 | 273 | 15 | 34 | 7 | 17 | 1,510 | 1,757 | 34,891 | 42,453 |
| Ohio | 65 | 59 | 2 | 7 | 3 | 10 | 426 | 492 | 10,039 | 12,965 |
| Ind. | 29 | 29 | - | - | - | - | N | N | 4,987 | 4,045 |
| III. | 45 | 57 | 1 | 5 | , | 6 | 307 | 511 | 10,755 | 12,877 |
| Mich. | 50 | 49 | - | 6 | 3 | 1 | 422 | 403 | 5,851 | 9,544 |
| Wis. | 40 | 79 | 12 | 16 | - | - | 355 | 351 | 3,259 | 3,022 |
| W.N. CENTRAL | 184 | 298 | 25 | 23 | 22 | 18 | 1,175 | 1,209 | 11,206 | 10,580 |
| Minn. | 43 | 72 | 7 | 9 | 10 | 3 | 556 | 414 | 1,839 | 1,846 |
| lowa | 40 | 80 | - | - | - | - | 140 | 178 | 959 | 766 |
| Mo. | 56 | 50 | 11 | 11 | 5 | 6 | 259 | 334 | 5,751 | 5,485 |
| N. Dak. | 1 | 9 | - | - | - | 5 | 5 | 18 | 41 | 77 |
| S. Dak. | 10 | 22 | 4 | - | - | - | 52 | 40 | 236 | 165 |
| Nebr. | 13 | 43 | 3 | 3 | 4 | - | 56 | 89 | 814 | 674 |
| Kans. | 21 | 22 | - | - | 3 | 4 | 107 | 136 | 1,566 | 1,567 |
| S. ATLANTIC | 114 | 102 | 41 | 17 | 48 | 21 | 1,457 | 1,746 | 47,920 | 48,758 |
| Del. | 3 | 2 | N | N | N | N | 31 | 30 | 515 | 572 |
| Md. | 20 | 20 | 15 | 2 | 3 | 2 | 103 | 70 | 4,345 | 5,146 |
| D.C. | - | 1 | - | - | - | - | 29 | 44 | 1,288 | 1,619 |
| Va . | 19 | 20 | 16 | 7 | 12 | - | 323 | 270 | 4,601 | 5,593 |
| W. Va. | 1 | 2 | - | - | 1 | - | 26 | 23 | 450 | 569 |
| N.C. | - | - | - | - | 24 | 14 | N | N | 9,937 | 9,689 |
| S.C. | 4 | 9 | - | - | - | - | 66 | 67 | 6,250 | 5,498 |
| Ga. | 16 | 15 | 6 | 6 | - | - | 296 | 553 | 8,376 | 8,797 |
| Fla. | 51 | 33 | 4 | 2 | 8 | 5 | 583 | 689 | 12,158 | 11,275 |
| E.S. CENTRAL | 77 | 65 | 1 | 3 | 13 | 12 | 247 | 223 | 15,775 | 16,382 |
| Ky. | 20 | 16 | - | 1 | 10 | 7 | N | N | 1,992 | 1,564 |
| Tenn. | 33 | 28 | 1 | - | 3 | 5 | 129 | 123 | 5,326 | 5,275 |
| Ala. | 19 | 12 | - | - | - | - | 118 | 100 | 4,245 | 5,217 |
| Miss. | 5 | 9 | - | 2 | - | - | - | - | 4,212 | 4,326 |
| W.S. CENTRAL | 30 | 56 | 4 | 3 | 3 | 4 | 153 | 187 | 27,880 | 27,902 |
| Ark. | 6 | 10 | - | - | - | - | 45 | 73 | 2,420 | 2,615 |
| La. | 3 | 2 | 3 | 1 | 2 | - | 27 | 33 | 6,950 | 6,901 |
| Okla. | 13 | 13 | - | - | - | - | 81 | 81 | 2,832 | 3,054 |
| Tex. | 8 | 31 | 1 | 2 | 1 | 4 | N | N | 15,678 | 15,332 |
| MOUNTAIN | 104 | 133 | 31 | 23 | 4 | - | 755 | 890 | 7,159 | 7,237 |
| Mont. | 10 | 12 | - | - | - | - | 31 | 35 | 62 | 51 |
| Idaho | 10 | 28 | 8 | 4 | 2 | - | 53 | 104 | 63 | 52 |
| Wyo. | 1 | 4 | 2 | 1 | - | - | 12 | 15 | 46 | 36 |
| Colo. | 21 | 38 | 1 | 1 | 1 | - | 281 | 321 | 1,859 | 1,853 |
| N. Mex. | 5 | 10 | 4 | 4 | - | - | 35 | 49 | 628 | 729 |
| Ariz. | 24 | 11 | N | N | N | N | 88 | 116 | 2,549 | 2,416 |
| Utah | 24 | 21 | 16 | 12 | - | - | 214 | 179 | 414 | 360 |
| Nev. | 9 | 9 | - | 1 | 1 | - | 41 | 71 | 1,538 | 1,740 |
| PACIFIC | 162 | 199 | 6 | 1 | - | - | 1,776 | 1,715 | 24,047 | 22,020 |
| Wash. | 38 | 71 | - | - | - | - | 211 | 197 | 2,287 | 1,651 |
| Oreg. | 40 | 38 | 6 | 1 | - | - | 202 | 270 | 937 | 665 |
| Calif. | 63 | 84 | - | - | - | - | 1,267 | 1,146 | 19,982 | 18,475 |
| Alaska | 12 | 1 | - | - | - | - | 57 | 49 | 347 | 394 |
| Hawaii | 9 | 5 | - | - | - | - | 39 | 53 | 494 | 835 |
| Guam | N | N | - | - | - | - | - | 2 | - | 118 |
| P.R. | - | 1 | - | - | - | - | 33 | 153 | 216 | 178 |
| V.I. | - | - | - | - | - | - | - | - | 35 | 73 |
| Amer. Samoa | U | U | U | U | U | U | U | U | U | U |
| C.N.M.I. | - | U | - | U | - | U | - | U | - | U |

N: Not notifiable. U: Unavailable. $\quad$ : No reported cases. C.N.M.I.: Commonwealth of Northern Mariana Islands.

* Incidence data for reporting years 2004 and 2005 are provisional and cumulative (year-to-date).

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending August 20, 2005, and August 21, 2004 (33rd Week)*

| Reporting area | Haemophilus influenzae, invasive |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | All ages All serotypes |  |  |  | Age <5 years |  | Unknown serotype |  |
|  |  |  | Serotype b |  |  |  |  |  |
|  | $\begin{aligned} & \hline \text { Cum. } \\ & 2005 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2004 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2005 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2004 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2005 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2004 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2005 \\ & \hline \end{aligned}$ | $\begin{aligned} & \text { Cum. } \\ & 2004 \\ & \hline \end{aligned}$ |
| UNITED STATES | 1,421 | 1,333 | 3 | 9 | 74 | 74 | 138 | 129 |
| NEW ENGLAND | 110 | 119 | - | 1 | 10 | 7 | 4 | 1 |
| Maine | 5 | 9 | - | - | - | - | 1 | - |
| N.H. | 5 | 14 | - | - | - | 2 | - | - |
| Vt . | 6 | 5 | - | - | - | - | 2 | 1 |
| Mass. | 50 | 58 | - | 1 | 3 | 2 | 1 | - |
| R.I. | 7 | 3 | - | - | 2 | - | - | - |
| Conn. | 37 | 30 | - | - | 5 | 3 | - | - |
| MID. ATLANTIC | 271 | 278 | - | 1 | - | 4 | 35 | 32 |
| Upstate N.Y. | 79 | 94 | - | 1 | - | 4 | 7 | 5 |
| N.Y. City | 49 | 64 | - | - | - | - | 10 | 12 |
| N.J. | 49 | 51 | - | - | - | - | 8 | 2 |
| Pa . | 94 | 69 | - | - | - | - | 10 | 13 |
| E.N. CENTRAL | 211 | 248 | 1 | - | 3 | 8 | 13 | 38 |
| Ohio | 91 | 72 | - | - | - | 2 | 9 | 12 |
| Ind. | 51 | 37 | - | - | 3 | 4 | - | 1 |
| III. | 35 | 86 | - | - | - | - | 3 | 20 |
| Mich. | 13 | 15 | 1 | - | - | 2 | - | 3 |
| Wis. | 21 | 38 | - | - | - | - | 1 | 2 |
| W.N. CENTRAL | 84 | 72 | - | 2 | 3 | 3 | 10 | 6 |
| Minn. | 32 | 33 | - | 1 | 3 | 3 | 1 | - |
| Iowa | 1 | 1 | - | 1 | - | - | - | - |
| Mo. | 35 | 25 | - | - | - | - | 7 | 4 |
| N. Dak. | 1 | 3 | - | - | - | - | 1 | - |
| S. Dak. | - | - | - | - | - | - | - | - |
| Nebr. | 7 | 4 | - | - | - | - | 1 | 1 |
| Kans. | 8 | 6 | - | - | - | - | - | 1 |
| S. ATLANTIC | 344 | 301 | 1 | - | 21 | 20 | 19 | 22 |
| Del. | - | - | - | - | - | - | - | - |
| Md. | 49 | 47 | - | - | 5 | 5 | - | - |
| D.C. | - | 2 | - | - | - | - | 1 | 1 |
| Va . | 34 | 27 | - | - | - | - | 1 | 3 |
| W. Va. | 22 | 11 | - | - | 1 | 3 | 4 | - |
| N.C. | 60 | 40 | 1 | - | 7 | 5 | - | 1 |
| S.C. | 20 | 9 | - | - | - | - | 1 | 1 |
| Ga. | 68 | 86 | - | - | - | - | 9 | 16 |
| Fla. | 91 | 79 | - | - | 8 | 7 | 4 | - |
| E.S. CENTRAL | 83 | 54 | - | 1 | 1 | - | 14 | 7 |
| Ky. | 8 | 5 | - | - | 1 | - | 2 | - |
| Tenn. | 58 | 35 | - | - | - | - | 8 | 5 |
| Ala. | 17 | 12 | - | 1 | - | - | 4 | 2 |
| Miss. | - | 2 | - | - | - | - | - | - |
| W.S. CENTRAL | 77 | 52 | 1 | 1 | 5 | 6 | 6 | 1 |
| Ark. | 4 | 1 | - | - | 1 | - | - | - |
| La. | 28 | 10 | 1 | - | 2 | - | 6 | 1 |
| Okla. | 44 | 40 | - | - | 2 | 6 | - | - |
| Tex. | 1 | 1 | - | 1 | - | - | - | - |
| MOUNTAIN | 167 | 142 | - | 3 | 13 | 17 | 29 | 16 |
| Mont. |  | - | - | - | - | - | - | - |
| Idaho | 3 | 5 | - | - | - | - | 1 | 2 |
| Wyo. | 4 | - | - | - | - | - | 1 | - |
| Colo. | 34 | 33 | - | - | - | - | 9 | 3 |
| N. Mex. | 15 | 30 | - | - | 4 | 5 | 1 | 6 |
| Ariz. | 84 | 51 | - | - | 7 | 7 | 8 | 2 |
| Utah | 14 | 12 | - | 2 | - | 2 | 7 | 2 |
| Nev. | 13 | 11 | - | 1 | 2 | 3 | 2 | 1 |
| PACIFIC | 74 | 67 | - | - | 18 | 9 | 8 | 6 |
| Wash. | 1 | 1 | - | - | - | - | 1 | 1 |
| Oreg. | 28 | 30 | - | - | - | - | 5 | 2 |
| Calif. | 33 | 24 | - | - | 18 | 9 | 1 | 1 |
| Alaska | 4 | 5 | - | - | - | - | 1 | 1 |
| Hawaii | 8 | 7 | - | - | - | - | - | 1 |
| Guam | - | - | - | - | - | - | - | - |
| P.R. | 1 | 2 | - | - | - | - | - | 2 |
| V.I. | - | - | - | - | - | - | - | - |
| Amer. Samoa | U | U | U | U | U | U | U | U |
| C.N.M.I. | - | U | - | U | - | U | - | U |

$\mathrm{N}:$ Not notifiable. U: Unavailable.

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending August 20, 2005, and August 21, 2004 (33rd Week)*

| Reporting area | Hepatitis (viral, acute), by type |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | A |  | B |  | C |  |
|  | Cum. 2005 | Cum. 2004 | $\begin{aligned} & \text { Cum. } \\ & 2005 \\ & \hline \end{aligned}$ | Cum. 2004 | Cum. 2005 | Cum. 2004 |
| UNITED STATES | 2,290 | 3,670 | 3,482 | 3,686 | 515 | 475 |
| NEW ENGLAND | 303 | 608 | 177 | 231 | 8 | 10 |
| Maine | 1 | 9 | 9 | 1 | - | - |
| N.H. | 63 | 14 | 13 | 25 | - | - |
| Vt. | 4 | 8 | 2 | 5 | 8 | 3 |
| Mass. | 197 | 505 | 125 | 115 | - | 7 |
| R.I. | 6 | 17 | 1 | 3 | - | - |
| Conn. | 32 | 55 | 27 | 82 | U | - |
| MID. ATLANTIC | 390 | 466 | 723 | 478 | 62 | 80 |
| Upstate N.Y. | 65 | 53 | 56 | 46 | 13 | 4 |
| N.Y. City | 188 | 194 | 65 | 96 | - | - |
| N.J. | 72 | 105 | 471 | 138 | - | - |
| Pa. | 65 | 114 | 131 | 198 | 49 | 76 |
| E.N. CENTRAL | 215 | 297 | 301 | 346 | 85 | 63 |
| Ohio | 33 | 34 | 95 | 71 | 3 | 4 |
| Ind. | 25 | 31 | 25 | 31 | 16 | 4 |
| III. | 53 | 99 | 70 | 50 | - | 13 |
| Mich. | 87 | 99 | 111 | 164 | 66 | 42 |
| Wis. | 17 | 34 | - | 30 | - | - |
| W.N. CENTRAL | 65 | 108 | 186 | 219 | 34 | 14 |
| Minn. | 3 | 28 | 17 | 29 | 5 | 11 |
| Iowa | 16 | 33 | 14 | 14 | - | - |
| Mo. | 32 | 23 | 115 | 135 | 27 | 3 |
| N. Dak. |  | 1 |  | 4 | 1 | - |
| S. Dak. | - | 2 | 3 | 1 | - | - |
| Nebr. | 4 | 10 | 19 | 23 | 1 | - |
| Kans. | 10 | 11 | 18 | 13 | - | - |
| S. ATLANTIC | 387 | 661 | 893 | 1,154 | 161 | 112 |
| Del. | 4 | 5 | 38 | 29 | 82 | 4 |
| Md. | 39 | 79 | 100 | 104 | 16 | 3 |
| D.C. | 2 | 4 | 8 | 13 | - | 2 |
| Va. | 53 | 55 | 99 | 139 | 10 | 12 |
| W. Va. | 3 | 3 | 26 | 26 | 11 | 17 |
| N.C. | 57 | 62 | 98 | 116 | 9 | 8 |
| S.C. | 22 | 34 | 92 | 92 | 2 | 13 |
| Ga. | 63 | 234 | 104 | 314 | 4 | 9 |
| Fla. | 144 | 185 | 328 | 321 | 27 | 44 |
| E.S. CENTRAL | 164 | 112 | 227 | 322 | 67 | 64 |
| Ky. | 18 | 24 | 43 | 40 | 12 | 23 |
| Tenn. | 113 | 72 | 87 | 160 | 12 | 20 |
| Ala. | 17 | 6 | 51 | 48 | 8 | 3 |
| Miss. | 16 | 10 | 46 | 74 | 35 | 18 |
| W.S. CENTRAL | 119 | 457 | 247 | 216 | 39 | 68 |
| Ark. | 5 | 57 | 26 | 77 | - | 2 |
| La. | 44 | 32 | 31 | 39 | 9 | 3 |
| Okla. | 4 | 18 | 22 | 43 | - | 3 |
| Tex. | 66 | 350 | 168 | 57 | 30 | 60 |
| MOUNTAIN | 214 | 285 | 356 | 286 | 31 | 29 |
| Mont. | 7 | 4 | 3 | 1 | 1 | 2 |
| Idaho | 15 | 13 | 7 | 8 | 1 | 1 |
| Wyo. | - | 4 | 1 | 7 | - | - |
| Colo. | 26 | 32 | 32 | 37 | 15 | 8 |
| N. Mex. | 15 | 16 | 6 | 12 | - | U |
| Ariz. | 130 | 176 | 253 | 147 | 7 | 4 |
| Utah | 14 | 28 | 32 | 24 | 7 | 2 |
| Nev. | 7 | 12 | 22 | 50 | 7 | 12 |
| PACIFIC | 433 | 676 | 372 | 434 | 28 | 35 |
| Wash. | 28 | 39 | 49 | 34 | U | U |
| Oreg. | 31 | 47 | 60 | 74 | 13 | 13 |
| Calif. | 357 | 568 | 252 | 309 | 15 | 21 |
| Alaska | 3 | 4 | 7 | 10 | - | - |
| Hawaii | 14 | 18 | 4 | 7 | - | 1 |
| Guam | - | 1 | - | 12 | - | 9 |
| P.R. | 17 | 29 | 12 | 56 | - | - |
| V.I. | - | - | - | - | - | - |
| Amer. Samoa | U | U | U | U | U | U |
| C.N.M.I. | - | U | - | U | - | U |

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

* Incidence data for reporting years 2004 and 2005 are provisional and cumulative (year-to-date).

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending August 20, 2005, and August 21, 2004 (33rd Week)*

| Reporting area | Legionellosis |  | Listeriosis |  | Lyme disease |  | Malaria |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \text { Cum. } \\ & 2005 \end{aligned}$ | $\begin{aligned} & \text { Cum. } \\ & 2004 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2005 \end{aligned}$ | $\begin{aligned} & \text { Cum. } \\ & 2004 \end{aligned}$ | $\begin{aligned} & \text { Cum. } \\ & 2005 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2004 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2005 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2004 \end{aligned}$ |
| UNITED STATES | 990 | 1,139 | 396 | 417 | 10,319 | 11,635 | 725 | 878 |
| NEW ENGLAND | 64 | 38 | 29 | 24 | 1,176 | 2,081 | 45 | 65 |
| Maine | 3 | - | 1 | 5 | 55 | 29 | 4 | 6 |
| N.H. | 6 | 1 | 4 | 2 | 108 | 135 | 4 | 1 |
| Vt . | 3 | 3 | 1 | 1 | 18 | 31 | 1 | 3 |
| Mass. | 24 | 19 | 8 | 9 | 593 | 1,167 | 24 | 40 |
| R.I. | 9 | 2 | 2 | 1 | 25 | 152 | 2 | 2 |
| Conn. | 19 | 13 | 13 | 6 | 377 | 567 | 10 | 13 |
| MID. ATLANTIC | 326 | 306 | 97 | 100 | 7,077 | 7,290 | 195 | 236 |
| Upstate N.Y. | 86 | 54 | 33 | 28 | 2,001 | 2,294 | 29 | 25 |
| N.Y. City | 31 | 39 | 20 | 17 | - | 254 | 92 | 119 |
| N.J. | 77 | 50 | 16 | 23 | 2,406 | 1,971 | 52 | 55 |
| Pa. | 132 | 163 | 28 | 32 | 2,670 | 2,771 | 22 | 37 |
| E.N. CENTRAL | 169 | 267 | 41 | 77 | 403 | 969 | 55 | 79 |
| Ohio | 83 | 113 | 17 | 24 | 54 | 34 | 15 | 20 |
| Ind. | 12 | 28 | 1 | 15 | 17 | 15 | - | 7 |
| III. | 12 | 31 | 1 | 17 | - | 73 | 19 | 27 |
| Mich. | 49 | 79 | 16 | 19 | 23 | 12 | 15 | 15 |
| Wis. | 13 | 16 | 6 | 2 | 309 | 835 | 6 | 10 |
| W.N. CENTRAL | 45 | 32 | 19 | 7 | 308 | 237 | 30 | 48 |
| Minn. | 11 | 3 | 4 | 2 | 233 | 173 | 11 | 18 |
| Iowa | 3 | 3 | 7 | 1 | 50 | 31 | 4 | 3 |
| Mo. | 18 | 15 | 4 | 3 | 21 | 23 | 12 | 15 |
| N. Dak. | 1 | 1 | 2 | - | - | - | - | 3 |
| S. Dak. | 9 | 3 | - | - | - | - | - | 1 |
| Nebr. | 1 | 2 | - | 1 | - | 7 | - | 2 |
| Kans. | 2 | 5 | 2 | - | 4 | 3 | 3 | 6 |
| S. ATLANTIC | 219 | 240 | 82 | 62 | 1,218 | 941 | 178 | 196 |
| Del. | 12 | 8 | N | N | 406 | 151 | 3 | 6 |
| Md. | 62 | 46 | 14 | 9 | 601 | 575 | 65 | 40 |
| D.C. | 4 | 7 | - | - | 7 | 6 | 6 | 9 |
| Va . | 30 | 27 | 7 | 12 | 113 | 66 | 17 | 16 |
| W. Va. | 9 | 6 | 2 | 2 | 6 | 14 | 1 | - |
| N.C. | 17 | 24 | 15 | 14 | 35 | 73 | 21 | 12 |
| S.C. | 9 | 7 | 3 | 4 | 10 | 15 | 5 | 7 |
| Ga. | 14 | 35 | 16 | 10 | 2 | 12 | 27 | 45 |
| Fla. | 62 | 80 | 25 | 11 | 38 | 29 | 33 | 61 |
| E.S. CENTRAL | 46 | 60 | 18 | 19 | 27 | 28 | 17 | 25 |
| Ky. | 13 | 20 | 3 | 4 | 3 | 12 | 4 | 4 |
| Tenn. | 22 | 26 | 7 | 10 | 24 | 13 | 9 | 6 |
| Ala. | 9 | 12 | 6 | 3 | - | 3 | 4 | 11 |
| Miss. | 2 | 2 | 2 | 2 | - | - | - | 4 |
| W.S. CENTRAL | 18 | 98 | 20 | 29 | 38 | 25 | 48 | 97 |
| Ark. | 3 | - | - | 3 | 3 | 4 | 4 | 7 |
| La. | 4 | 7 | 7 | 2 | 4 | 2 | 2 | 4 |
| Okla. | 3 | 3 | 2 | - | - | - | 3 | 4 |
| Tex. | 8 | 88 | 11 | 24 | 31 | 19 | 39 | 82 |
| MOUNTAIN | 63 | 55 | 7 | 15 | 10 | 13 | 32 | 32 |
| Mont. | 4 | 1 | - | - | - | - | - | - |
| Idaho | 3 | 6 | - | 1 | 1 | 5 | - | 1 |
| Wyo. | 3 | 5 | - | - | 2 | 3 | 1 | - |
| Colo. | 16 | 12 | 2 | 6 | 2 | - | 18 | 12 |
| N. Mex. | 2 | 3 | 3 | - |  | - | 1 | 2 |
| Ariz. | 18 | 10 | - | - | 1 | 5 | 6 | 8 |
| Utah | 10 | 15 | - | 1 | 2 | - | 4 | 5 |
| Nev. | 7 | 3 | 2 | 7 | 1 | - | 2 | 4 |
| PACIFIC | 40 | 43 | 83 | 84 | 62 | 51 | 125 | 100 |
| Wash. | - | 8 | 7 | 8 | 3 | 6 | 10 | 10 |
| Oreg. | N | N | 5 | 5 | 14 | 19 | 6 | 12 |
| Calif. | 39 | 35 | 71 | 68 | 42 | 25 | 93 | 75 |
| Alaska | - | - | - | - | 3 | 1 | 3 | - |
| Hawaii | 1 | - | - | 3 | N | N | 13 | 3 |
| Guam | - | - | - | - | - | - | - | - |
| P.R. | - | - | - | - | N | N | 1 | - |
| V.I. | - | - | - | - | - | - | - | - |
| Amer. Samoa | U | U | U | U | U | U | U | U |
| C.N.M.I. | - | U | - | U | - | U | - | U |

N: Not notifiable. U: Unavailable.

* Incidence data for reporting years 2004 and 2005 are provisional and cumulative (year-to-date).

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending August 20, 2005, and August 21, 2004 (33rd Week)*

| Reporting area | Meningococcal disease |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | All serogroups |  | SerogroupA, C, Y, and W-135 |  | Serogroup B |  | Other serogroup |  | Serogroup unknown |  |
|  | $\begin{aligned} & \hline \text { Cum. } \\ & 2005 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2004 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2005 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2004 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2005 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2004 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2005 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2004 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2005 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2004 \\ & \hline \end{aligned}$ |
| UNITED STATES | 813 | 834 | 59 | 65 | 42 | 35 | - | 1 | 712 | 733 |
| NEW ENGLAND | 58 | 51 | 1 | 5 | - | 6 | - | 1 | 57 | 39 |
| Maine | 2 | 9 | - | - | - | 1 | - | - | 2 | 8 |
| N.H. | 9 | 3 | - | - | - | - | - | - | 9 | 3 |
| Vt. | 6 | 2 | - | - | - | - | - | - | 6 | 2 |
| Mass. | 27 | 30 | - | 5 | - | 5 | - | - | 27 | 20 |
| R.I. | 2 | 1 | - | - | - | - | - | - | 2 | 1 |
| Conn. | 12 | 6 | 1 | - | - | - | - | 1 | 11 | 5 |
| MID. ATLANTIC | 106 | 117 | 29 | 33 | 4 | 5 | - | - | 73 | 79 |
| Upstate N.Y. | 28 | 33 | 4 | 5 | 3 | 3 | - | - | 21 | 25 |
| N.Y. City | 14 | 20 | - | - | - | - | - | - | 14 | 20 |
| N.J. | 29 | 24 | - | - | - | - | - | - | 29 | 24 |
| Pa . | 35 | 40 | 25 | 28 | 1 | 2 | - | - | 9 | 10 |
| E.N. CENTRAL | 81 | 90 | 16 | 19 | 9 | 6 | - | - | 56 | 65 |
| Ohio | 28 | 46 | - | 3 | 5 | 5 | - | - | 23 | 38 |
| Ind. | 15 | 15 | - | 1 | 4 | 1 | - | - | 11 | 13 |
| III. | 12 | 1 | - | - | - | - | - | - | 12 | 1 |
| Mich. | 16 | 15 | 16 | 15 | - | - | - | - | - | - |
| Wis. | 10 | 13 | - | - | - | - | - | - | 10 | 13 |
| W.N. CENTRAL | 55 | 58 | 2 | - | 1 | 4 | - | - | 52 | 54 |
| Minn. | 9 | 17 | 1 | - | - | - | - | - | 8 | 17 |
| lowa | 12 | 13 | - | - | 1 | 2 | - | - | 11 | 11 |
| Mo. | 20 | 16 | 1 | - | - | 1 | - | - | 19 | 15 |
| N. Dak. | - | 2 | - | - | - | - | - | - | - | 2 |
| S. Dak. | 2 | 2 | - | - | - | 1 | - | - | 2 | 1 |
| Nebr. | 4 | 3 | - | - | - | - | - | - | 4 | 3 |
| Kans. | 8 | 5 | - | - | - | - | - | - | 8 | 5 |
| S. ATLANTIC | 155 | 156 | 4 | 2 | 8 | 2 | - | - | 143 | 152 |
| Del. | 3 | 2 | - | - | - | - | - | - | 3 | 2 |
| Md. | 15 | 8 | 2 | - | 2 | - | - | - | 11 | 8 |
| D.C. | - | 5 | - | 2 | - | - | - | - | - | 3 |
| Va . | 21 | 11 | - | - | - | - | - | - | 21 | 11 |
| W. Va. | 5 | 5 | 1 | - | - | - | - | - | 4 | 5 |
| N.C. | 24 | 24 | 1 | - | 6 | 2 | - | - | 17 | 22 |
| S.C. | 14 | 13 | - | - | - | - | - | - | 14 | 13 |
| Ga. | 13 | 9 | - | - | - | - | - | - | 13 | 9 |
| Fla. | 60 | 79 | - | - | - | - | - | - | 60 | 79 |
| E.S. CENTRAL | 40 | 41 | 1 | 1 | 3 | 1 | - | - | 36 | 39 |
| Ky. | 14 | 8 | - | 1 | 3 | 1 | - | - | 11 | 6 |
| Tenn. | 17 | 13 | - | - | - | - | - | - | 17 | 13 |
| Ala. | 5 | 10 | 1 | - | - | - | - | - | 4 | 10 |
| Miss. | 4 | 10 | - | - | - | - | - | - | 4 | 10 |
| W.S. CENTRAL | 63 | 49 | 1 | 1 | 5 | 1 | - | - | 57 | 47 |
| Ark. | 11 | 12 | - | - | - | - | - | - | 11 | 12 |
| La. | 25 | 27 | - | 1 | 2 | - | - | - | 23 | 26 |
| Okla. | 12 | 7 | 1 | - | 3 | 1 | - | - | 8 | 6 |
| Tex. | 15 | 3 | - | - | - | - | - | - | 15 | 3 |
| MOUNTAIN | 66 | 50 | 4 | 1 | 5 | 5 | - | - | 57 | 44 |
| Mont. | - | 3 | - | - | - | - | - | - | - | 3 |
| Idaho | 2 | 6 | - | - | - | - | - | - | 2 | 6 |
| Wyo. | - | 3 | - | - | - | - | - | - | - | 3 |
| Colo. | 14 | 12 | 3 | - | - | - | - | - | 11 | 12 |
| N. Mex. | 2 | 6 | - | 1 | - | 3 | - | - | 2 | 2 |
| Ariz. | 34 | 9 | - | - | 2 | 1 | - | - | 32 | 8 |
| Utah | 9 | 4 | 1 | - | 2 | - | - | - | 6 | 4 |
| Nev. | 5 | 7 | - | - | 1 | 1 | - | - | 4 | 6 |
| PACIFIC | 189 | 222 | 1 | 3 | 7 | 5 | - | - | 181 | 214 |
| Wash. | 36 | 21 | 1 | 3 | 4 | 5 | - | - | 31 | 13 |
| Oreg. | 26 | 43 | - | - | - | - | - | - | 26 | 43 |
| Calif. | 115 | 150 | - | - | - | - | - | - | 115 | 150 |
| Alaska | 1 | 3 | - | - | - | - | - | - | 1 | 3 |
| Hawaii | 11 | 5 | - | - | 3 | - | - | - | 8 | 5 |
| Guam | - | - | - | - | - | - | - | - | - | - |
| P.R. | 4 | 13 | - | - | - | - | - | - | 4 | 13 |
| V.I. | 1 | - | - | - | - | - | - | - | - | - |
| Amer. Samoa | 1 | 1 | - | - | - | - | - | - | 1 | 1 |
| C.N.M.I. | - | - | - | - | - | - | - | - | - | - |
| N : Not notifiable. <br> * Incidence data | availabl years | $\text { nd } \overline{2005}$ | ed cas visional | mulative | Comm -date). | lth of N | Mariana |  |  |  |

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending August 20, 2005, and August 21, 2004 (33rd Week)*

| Reporting area | Pertussis |  | Rabies, animal |  | Rocky Mountain spotted fever |  | Salmonellosis |  | Shigellosis |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \hline \text { Cum. } \\ & 2005 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2004 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2005 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2004 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2005 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2004 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2005 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2004 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2005 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2004 \\ & \hline \end{aligned}$ |
| UNITED STATES | 11,683 | 9,878 | 3,193 | 4,104 | 932 | 825 | 22,451 | 24,719 | 7,392 | 7,971 |
| NEW ENGLAND | 645 | 1,087 | 464 | 379 | 3 | 12 | 1,326 | 1,328 | 174 | 172 |
| Maine | 16 | 4 | 36 | 36 | N | N | 94 | 73 | 8 | 5 |
| N.H. | 36 | 35 | 10 | 15 | 1 | - | 107 | 96 | 5 | 6 |
| V t. | 73 | 55 | 39 | 16 | - | - | 73 | 37 | 13 | 2 |
| Mass. | 479 | 935 | 255 | 155 | 1 | 10 | 693 | 776 | 108 | 105 |
| R.I. | 15 | 16 | 13 | 27 | 1 | 1 | 66 | 75 | 10 | 13 |
| Conn. | 26 | 42 | 111 | 130 | - | 1 | 293 | 271 | 30 | 41 |
| MID. ATLANTIC | 842 | 1,684 | 383 | 575 | 48 | 56 | 2,672 | 3,731 | 695 | 799 |
| Upstate N.Y. | 326 | 1,179 | 323 | 306 | 3 | 1 | 708 | 725 | 178 | 329 |
| N.Y. City | 47 | 120 | 17 | 10 | 4 | 19 | 626 | 865 | 237 | 240 |
| N.J. | 153 | 123 | N | N | 18 | 10 | 405 | 702 | 193 | 156 |
| Pa . | 316 | 262 | 43 | 259 | 23 | 26 | 933 | 1,439 | 87 | 74 |
| E.N. CENTRAL | 2,252 | 3,070 | 118 | 104 | 29 | 27 | 3,100 | 3,318 | 474 | 700 |
| Ohio | 782 | 315 | 45 | 42 | 24 | 8 | 830 | 804 | 61 | 102 |
| Ind. | 192 | 59 | 16 | 7 | 1 | 5 | 297 | 315 | 41 | 131 |
| III. | 438 | 603 | 17 | 32 | 1 | 11 | 924 | 1,060 | 116 | 283 |
| Mich. | 138 | 96 | 23 | 20 | 3 | 1 | 533 | 536 | 150 | 72 |
| Wis. | 702 | 1,997 | 17 | 3 | - | 2 | 516 | 603 | 106 | 112 |
| W.N. CENTRAL | 1,804 | 1,052 | 282 | 418 | 148 | 85 | 1,518 | 1,521 | 909 | 265 |
| Minn. | 734 | 154 | 48 | 51 | 1 | - | 352 | 369 | 53 | 37 |
| Iowa | 357 | 70 | 65 | 58 | 2 | 1 | 229 | 316 | 52 | 54 |
| Mo. | 296 | 242 | 52 | 34 | 136 | 69 | 501 | 403 | 627 | 107 |
| N. Dak. | 77 | 528 | 17 | 47 | - | - | 17 | 29 | 2 | 2 |
| S. Dak. | 1 | 14 | 43 | 77 | 3 | 4 | 94 | 69 | 22 | 8 |
| Nebr. | 147 | 8 | - | 74 | 2 | 11 | 96 | 97 | 42 | 13 |
| Kans. | 192 | 36 | 57 | 77 | 4 | - | 229 | 238 | 111 | 44 |
| S. ATLANTIC | 859 | 425 | 1,003 | 1,521 | 438 | 380 | 6,069 | 6,224 | 1,189 | 1,892 |
| Del. | 5 | - | - | 9 | 2 | 4 | 56 | 65 | 8 | 6 |
| Md. | 112 | 80 | 187 | 207 | 52 | 42 | 483 | 534 | 50 | 84 |
| D.C. | 4 | 6 | - |  | 2 | - | 33 | 31 | 8 | 26 |
| Va . | 237 | 107 | 317 | 314 | 35 | 12 | 615 | 697 | 75 | 96 |
| W. Va. | 36 | 13 | 28 | 43 | 3 | 4 | 92 | 152 | - | 4 |
| N.C. | 64 | 49 | 326 | 411 | 259 | 200 | 804 | 736 | 111 | 179 |
| S.C. | 251 | 74 | 5 | 109 | 27 | 42 | 702 | 612 | 56 | 358 |
| Ga. | 26 | 17 | 135 | 223 | 45 | 63 | 875 | 1,134 | 278 | 426 |
| Fla. | 124 | 79 | 5 | 205 | 13 | 13 | 2,409 | 2,263 | 603 | 713 |
| E.S. CENTRAL | 347 | 198 | 90 | 93 | 184 | 125 | 1,538 | 1,533 | 883 | 506 |
| Ky. | 90 | 35 | 7 | 17 | 15 | 1 | , 250 | 213 | 205 | 46 |
| Tenn. | 164 | 130 | 29 | 32 | 134 | 74 | 460 | 427 | 439 | 254 |
| Ala. | 59 | 20 | 52 | 35 | 31 | 30 | 416 | 380 | 186 | 168 |
| Miss. | 34 | 13 | 2 | 9 | 4 | 20 | 412 | 513 | 53 | 38 |
| W.S. CENTRAL | 690 | 411 | 613 | 774 | 50 | 121 | 1,948 | 2,335 | 1,717 | 2,161 |
| Ark. | 164 | 37 | 26 | 35 | 31 | 77 | 440 | 307 | 39 | 46 |
| La. | 30 | 12 | - | - | 5 | 5 | 458 | 535 | 83 | 211 |
| Okla. | - | 17 | 60 | 86 | 5 | 38 | 216 | 241 | 454 | 308 |
| Tex. | 496 | 345 | 527 | 653 | 9 | 1 | 834 | 1,252 | 1,141 | 1,596 |
| MOUNTAIN | 2,605 | 777 | 138 | 112 | 25 | 15 | 1,376 | 1,432 | 398 | 481 |
| Mont. | 470 | 30 | 7 | 19 | 1 | 3 | 55 | 99 | 5 | 4 |
| Idaho | 94 | 24 | - | 1 | 1 | 3 | 70 | 107 | 2 | 9 |
| Wyo. | 26 | 12 | 14 | 2 | 2 | 4 | 57 | 36 | 2 | 3 |
| Colo. | 862 | 386 | 13 | 23 | 4 | 2 | 375 | 354 | 68 | 95 |
| N. Mex. | 99 | 109 | 4 | 3 | - | 2 | 119 | 166 | 46 | 83 |
| Ariz. | 724 | 146 | 91 | 60 | 13 | 1 | 409 | 421 | 219 | 238 |
| Utah | 302 | 58 | 4 | 3 | 4 | - | 215 | 144 | 30 | 26 |
| Nev. | 28 | 12 | 5 | 1 | - | - | 76 | 105 | 26 | 23 |
| PACIFIC | 1,639 | 1,174 | 102 | 128 | 7 | 4 | 2,904 | 3,297 | 953 | 995 |
| Wash. | 494 | 426 | U | U | - | - | 327 | 311 | 58 | 71 |
| Oreg. | 496 | 297 | 3 | 5 | 1 | 2 | 232 | 293 | 73 | 48 |
| Calif. | 519 | 426 | 98 | 112 | 6 | 2 | 2,134 | 2,430 | 798 | 840 |
| Alaska | 36 | 11 | 1 | 11 | - | - | 37 | 36 | 7 | 6 |
| Hawaii | 94 | 14 | - | - | - | - | 174 | 227 | 17 | 30 |
| Guam | - | - | - | - | - | - | - | 48 | - | 38 |
| P.R. | 1 | 2 | 39 | 39 | N | N | 129 | 254 | 1 | 18 |
| V.I. | U | - | - | - | - | - | - | - | - | - |
| Amer. Samoa | U | U | U | U | U | U | U | U | U | U |
| C.N.M.I. | - | U | - | U | - | U | - | U | - | U |

$\mathrm{N}:$ Not notifiable. U: Unavailable. -: No reported cases. C.N.M.I.: Commonwealth of Northern Mariana Islands.

* Incidence data for reporting years 2004 and 2005 are provisional and cumulative (year-to-date).

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending August 20, 2005, and August 21, 2004 (33rd Week)*

| Reporting area | Streptococcal disease, invasive, group A |  | Streptococcus pneumoniae, invasive disease |  |  |  | Syphilis |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Drug resistant, all ages |  | Age < 5 years |  |  |  |  |  |
|  |  |  | Primary \& secondary | Congenital |  |  |  |  |  |
|  | $\begin{aligned} & \text { Cum. } \\ & 2005 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2004 \\ & \hline \end{aligned}$ |  |  | $\begin{aligned} & \text { Cum. } \\ & 2005 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2004 \\ & \hline \end{aligned}$ | $\begin{aligned} & \text { Cum. } \\ & 2005 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2004 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2005 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2004 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2005 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2004 \\ & \hline \end{aligned}$ |
| UNITED STATES | 2,968 | 3,174 | 1,571 | 1,510 |  |  | 551 | 518 | 4,911 | 4,896 | 159 | 253 |
| NEW ENGLAND | 115 | 214 | 79 | 97 | 44 | 74 | 132 | 130 | - | 1 |
| Maine | 8 | 7 | N | N | - | 4 | 1 | 2 | - | - |
| N.H. | 12 | 15 | - | - | 3 | N | 9 | 3 | - | - |
| V t. | 9 | 8 | 10 | 6 | 4 | 1 | - | - | - | - |
| Mass. | 79 | 98 | 56 | 24 | 37 | 40 | 87 | 80 | - | - |
| R.I. | 7 | 17 | 13 | 14 | - | 6 | 7 | 18 | - | 1 |
| Conn. | - | 69 | U | 53 | U | 23 | 28 | 27 | - | - |
| MID. ATLANTIC | 648 | 547 | 148 | 108 | 105 | 78 | 626 | 639 | 18 | 27 |
| Upstate N.Y. | 202 | 181 | 58 | 47 | 48 | 53 | 54 | 58 | 3 | 1 |
| N.Y. City | 113 | 83 | U | U | 19 | U | 393 | 386 | 5 | 12 |
| N.J. | 130 | 119 | N | N | 17 | 7 | 86 | 105 | 10 | 13 |
| Pa . | 203 | 164 | 90 | 61 | 21 | 18 | 93 | 90 | - | 1 |
| E.N. CENTRAL | 599 | 738 | 416 | 345 | 152 | 124 | 507 | 570 | 24 | 31 |
| Ohio | 146 | 171 | 261 | 240 | 60 | 59 | 141 | 150 | 2 | 2 |
| Ind. | 78 | 76 | 145 | 105 | 38 | 26 | 42 | 40 | 1 | 2 |
| III. | 115 | 203 | 10 | - | 47 | 1 | 248 | 236 | 8 | 5 |
| Mich. | 231 | 221 | - | N | - | N | 54 | 123 | 11 | 22 |
| Wis. | 29 | 67 | N | N | 7 | 38 | 22 | 21 | 2 | - |
| W.N. CENTRAL | 200 | 220 | 35 | 16 | 63 | 65 | 152 | 112 | 1 | 3 |
| Minn. | 72 | 111 | - | - | 39 | 43 | 41 | 17 | - | 1 |
| Iowa | N | N | N | N | - | N | 2 | 5 | - | - |
| Mo. | 57 | 46 | 29 | 12 | 5 | 9 | 92 | 66 | 1 | 1 |
| N. Dak. | 7 | 10 | 1 | - | 2 | 2 | - | - | - | - |
| S. Dak. | 18 | 9 | 3 | 4 | - | - | - | - | - | - |
| Nebr. | 14 | 15 | 2 | - | 6 | 6 | 3 | 6 | - | - |
| Kans. | 32 | 29 | N | N | 11 | 5 | 14 | 18 | - | 1 |
| S. ATLANTIC | 624 | 630 | 626 | 777 | 63 | 36 | 1,268 | 1,221 | 27 | 41 |
| Del. | 1 | 3 | 1 | 4 | - | N | 8 | 6 | - | 1 |
| Md. | 141 | 100 | - | - | 41 | 24 | 219 | 231 | 9 | 6 |
| D.C. | 7 | 5 | 15 | 7 | 2 | 4 | 70 | 37 | - | 1 |
| Va . | 60 | 55 | N | N | - | N | 81 | 68 | 3 | 2 |
| W. Va. | 19 | 18 | 92 | 85 | 20 | 8 | 3 | 3 | - | - |
| N.C. | 89 | 85 | N | N | U | U | 173 | 114 | 8 | 6 |
| S.C. | 24 | 48 | - | 78 | - | N | 38 | 80 | 2 | 10 |
| Ga. | 114 | 155 | 109 | 187 | - | N | 214 | 214 | - | 2 |
| Fla. | 169 | 161 | 409 | 416 | - | N | 462 | 468 | 5 | 13 |
| E.S. CENTRAL | 127 | 167 | 124 | 104 | 7 | 11 | 269 | 267 | 16 | 19 |
| Ky. | 27 | 51 | 23 | 22 | N | N | 26 | 27 | - | 1 |
| Tenn. | 100 | 116 | 101 | 80 | - | N | 130 | 88 | 12 | 7 |
| Ala. | - | - | - | - | - | N | 88 | 120 | 3 | 9 |
| Miss. | - | - | - | 2 | 7 | 11 | 25 | 32 | 1 | 2 |
| W.S. CENTRAL | 141 | 251 | 94 | 44 | 72 | 101 | 797 | 763 | 44 | 51 |
| Ark. | 13 | 15 | 12 | 6 | 13 | 7 | 29 | 33 | - | 3 |
| La. | 6 | 2 | 82 | 38 | 22 | 22 | 176 | 185 | 6 | 3 |
| Okla. | 81 | 48 | N | N | 18 | 29 | 26 | 19 | 1 | 2 |
| Tex. | 41 | 186 | N | N | 19 | 43 | 566 | 526 | 37 | 43 |
| MOUNTAIN | 445 | 343 | 49 | 18 | 37 | 29 | 248 | 252 | 15 | 32 |
| Mont. | - | - | - | - | - | - | 5 | 1 | - | - |
| Idaho | 1 | 8 | N | N | - | N | 20 | 13 | 1 | 2 |
| Wyo. | 3 | 6 | 21 | 6 | - | - | - | 1 | - | - |
| Colo. | 167 | 69 | N | N | 36 | 29 | 29 | 46 | - | - |
| N. Mex. | 32 | 74 | - | N | - | - | 32 | 62 | 2 | 2 |
| Ariz. | 183 | 156 | N | N | - | N | 90 | 103 | 12 | 27 |
| Utah | 58 | 28 | 27 | 10 | 1 | - | 4 | 7 | - | 1 |
| Nev. | 1 | 2 | 1 | 2 | - | - | 68 | 19 | - | - |
| PACIFIC | 69 | 64 | - | 1 | 8 | - | 912 | 942 | 14 | 48 |
| Wash. | N | N | N | N | N | N | 87 | 73 | - | - |
| Oreg. | N | N | N | N | 6 | N | 17 | 21 | - | - |
| Calif. | - | - | N | N | N | N | 799 | 844 | 14 | 48 |
| Alaska | - | - | - | - | - | N | 5 | - | - | - |
| Hawaii | 69 | 64 | - | 1 | 2 | - | 4 | 4 | - | - |
| Guam | - | - | - | - | - | - | - | 1 | - | - |
| P.R. | N | N | N | N | - | N | 116 | 84 | 8 | 3 |
| V.I. | - | - | - | - | - | - | - | 4 | - | - |
| Amer. Samoa | U | U | U | U | U | U | U | U | U | U |
| C.N.M.I. | - | U | - | U | - | U | - | U | - | U |

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

* Incidence data for reporting years 2004 and 2005 are provisional and cumulative (year-to-date).

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending August 20, 2005, and August 21, 2004 (33rd Week)*

| Reporting area | Tuberculosis |  | Typhoid fever |  | Varicella (chickenpox) |  | West Nile virus disease ${ }^{\dagger}$ |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Neuroinvasive | Non-neuroinvasive ${ }^{\text {§ }}$ |  |  |
|  | $\begin{aligned} & \hline \text { Cum. } \\ & 2005 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2004 \\ & \hline \end{aligned}$ |  |  | $\begin{aligned} & \text { Cum. } \\ & 2005 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2004 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2005 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2004 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2005 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2004 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2005 \\ & \hline \end{aligned}$ |
| UNITED STATES | 6,564 | 8,326 | 144 | 192 | 15,198 | 19,028 | 131 | 749 | - |
| NEW ENGLAND | 199 | 261 | 16 | 17 | 985 | 1,992 | - | - | - |
| Maine | 9 | 13 | 1 | - | 210 | 180 | - | - | - |
| N.H. | 4 | 10 | - | - | 201 | - | - | - | - |
| V t. | 4 | 2 | - | - | 36 | 413 | - | - | - |
| Mass. | 131 | 147 | 9 | 14 | 538 | 129 | - | - | - |
| R.I. | 18 | 33 | 1 | 1 | - |  | - | - | - |
| Conn. | 33 | 56 | 5 | 2 | U | 1,270 | - | - | - |
| MID. ATLANTIC | 1,239 | 1,275 | 31 | 43 | 3,049 | 72 | 2 | 4 | - |
| Upstate N.Y. | 163 | 179 | 5 | 6 | - | - | - | 1 | - |
| N.Y. City | 602 | 637 | 9 | 15 | - | - | - | 2 | - |
| N.J. | 293 | 272 | 9 | 12 | - | - | - | - | - |
| Pa. | 181 | 187 | 8 | 10 | 3,049 | 72 | 2 | 1 | - |
| E.N. CENTRAL | 815 | 738 | 10 | 22 | 3,959 | 8,318 | 12 | 30 | - |
| Ohio | 159 | 127 | 1 | 4 | 977 | 1,027 | 2 | 4 | - |
| Ind. | 81 | 76 | - | - | 1 | N | 1 | 2 | - |
| III. | 387 | 331 | 2 | 10 | 50 | 4,254 | 9 | 15 | - |
| Mich. | 134 | 144 | 3 | 6 | 2,635 | 2,537 | - | 5 | - |
| Wis. | 54 | 60 | 4 | 2 | 296 | 500 | - | 4 | - |
| W.N. CENTRAL | 277 | 290 | 3 | 7 | 274 | 134 | 17 | 38 | - |
| Minn. | 121 | 109 | 2 | 3 | - | - | 2 | 9 | - |
| lowa | 26 | 23 | - | - | N | N | - | 4 | - |
| Mo. | 62 | 80 | 1 | 2 | 186 | 5 | 1 | 13 | - |
| N. Dak. | 2 | 3 | - | - | 12 | 74 | 2 | 1 | - |
| S. Dak. | 9 | 5 | - | - | 76 | 55 | 7 | 5 | - |
| Nebr. | 19 | 21 | - | 2 | - | - | 4 | - | - |
| Kans. | 38 | 49 | - | - | - | - | 1 | 6 | - |
| S. ATLANTIC | 1,508 | 1,720 | 23 | 28 | 1,375 | 1,647 | 4 | 39 | - |
| Del. |  | 17 | - | - | 21 | 4 | - | - | - |
| Md. | 175 | 162 | 7 | 10 | - | - | - | 5 | - |
| D.C. | 33 | 60 | - | - | 23 | 19 | - | 1 | - |
| Va . | 184 | 141 | 5 | 4 | 284 | 392 | - | 2 | - |
| W. Va. | 17 | 14 | - | - | 697 | 932 | - | - | N |
| N.C. | 160 | 180 | 2 | 3 | - | N | 1 | 1 | - |
| S.C. | 137 | 118 | - | - | 350 | 300 | - | - | - |
| Ga. | 236 | 379 | 2 | 3 | - | - | - | 7 | - |
| Fla. | 559 | 649 | 7 | 8 | - | - | 3 | 23 | - |
| E.S. CENTRAL | 340 | 395 | 5 | 6 | - | 5 | 5 | 36 | - |
| Ky. | 66 | 66 | 2 | 2 | N | N | - | - | - |
| Tenn. | 161 | 129 | - | 4 | - | - | - | 6 | - |
| Ala. | 113 | 121 | 1 | - | - | 5 | 1 | 14 | - |
| Miss. | - | 79 | 2 | - | - | - | 4 | 16 | - |
| W.S. CENTRAL | 615 | 1,273 | 10 | 18 | 3,822 | 5,301 | 35 | 120 | - |
| Ark. | 65 | 76 | - | - | - | - | - | 8 | - |
| La. | - | - | - | - | 107 | 48 | 26 | 46 | - |
| Okla. | 89 | 103 | - | 1 | - |  | - | 10 | - |
| Tex. | 461 | 1,094 | 10 | 17 | 3,715 | 5,253 | 9 | 56 | - |
| MOUNTAIN | 220 | 320 | 7 | 6 | 1,734 | 1,559 | 8 | 267 | - |
| Mont. | 8 | 4 | - | - | - | - | - | 1 | - |
| Idaho | - | 3 | - | - | - | - | - | - | - |
| Wyo. | - | 2 | - | - | 43 | 25 | - | 1 | - |
| Colo. | 47 | 78 | 2 | 1 | 1,224 | 1,232 | - | 31 | - |
| N. Mex. | 8 | 20 | - | - | 121 | U | 2 | 18 | - |
| Ariz. | 128 | 126 | 3 | 2 | - | - | 5 | 191 | - |
| Utah | 18 | 26 | 1 | 1 | 346 | 302 | - | 4 | - |
| Nev. | 11 | 61 | 1 | 2 | - | - | 1 | 21 | - |
| PACIFIC | 1,351 | 2,054 | 39 | 45 | - | - | 48 | 215 | - |
| Wash. | 153 | 141 | 4 | 4 | N | N | - | - | - |
| Oreg. | 54 | 64 | 2 | 1 | - | - | - | - | - |
| Calif. | 1,056 | 1,751 | 27 | 34 | - | - | 48 | 215 | - |
| Alaska | 16 | 23 | - | - | - | - | - | - | - |
| Hawaii | 72 | 75 | 6 | 6 | - | - | - | - | - |
| Guam | - | 40 | - | - | - | 105 | - | - | - |
| P.R. | - | 62 | - | - | 123 | 278 | - | - | - |
| V.I. | - | - | - | - | - | - | - | - | - |
| Amer. Samoa | U | U | U | U | U | U | U | U | - |
| C.N.M.I. | - | U | - | U | - | U | - | U | - |

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

* Incidence data for reporting years 2004 and 2005 are provisional and cumulative (year-to-date).
$\dagger$ Updated weekly from reports to the Division of Vector-Borne Infectious Diseases, National Center for Infectious Diseases (ArboNet Surveillance).
§ Not previously notifiable.

TABLE III. Deaths in 122 U.S. cities,* week ending August 20, 2005 (33rd Week)

|  | All causes, by age (years) |  |  |  |  |  |  |  | All causes, by age (years) |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Reporting Area | All Ages | $\geq 65$ | 45-64 | 25-44 | 1-24 | $<1$ | P\& ${ }^{\dagger}$ <br> Total | Reporting Area | All Ages | $\geq 65$ | 45-64 | 25-44 | 1-24 | <1 | P\&I ${ }^{\dagger}$ <br> Total |
| NEW ENGLAND | 430 | 303 | 91 | 24 | 8 | 4 | 36 | S. ATLANTIC | 1,331 | 820 | 323 | 127 | 37 | 23 | 55 |
| Boston, Mass. | 119 | 70 | 35 | 10 | 3 | 1 | 12 | Atlanta, Ga. | 217 | 120 | 58 | 26 | 9 | 4 | 4 |
| Bridgeport, Conn. | 27 | 19 | 5 | 2 | - | 1 | 1 | Baltimore, Md. | 172 | 98 | 44 | 19 | 7 | 4 | 15 |
| Cambridge, Mass. | 22 | 16 | 3 | 3 | - | - | 2 | Charlotte, N.C. | 108 | 68 | 26 | 9 | 3 | 2 | 3 |
| Fall River, Mass. | 22 | 18 | 4 | - | - | - | 2 | Jacksonville, Fla. | 190 | 120 | 48 | 19 | 1 | 2 | 9 |
| Hartford, Conn. | 53 | 37 | 10 | 4 | 1 | 1 | 4 | Miami, Fla. | 144 | 92 | 34 | 12 | 3 | 3 | 5 |
| Lowell, Mass. | 23 | 20 | 1 | 1 | 1 | - | 3 | Norfolk, Va. | 56 | 31 | 13 | 7 | 3 | 2 | 1 |
| Lynn, Mass. | 10 | 7 | 2 | 1 | - | - | 1 | Richmond, Va. | 45 | 27 | 12 | 5 | - | 1 | 2 |
| New Bedford, Mass. | 31 | 23 | 6 | - | 2 | - | 3 | Savannah, Ga. | 61 | 41 | 14 | 4 | 1 | 1 | 2 |
| New Haven, Conn. | U | U | U | U | U | U | U | St. Petersburg, Fla. | 40 | 26 | 8 | 6 | - | - | 2 |
| Providence, R.I. | U | U | U | U | U | U | U | Tampa, Fla. | 186 | 132 | 36 | 7 | 8 | 3 | 12 |
| Somerville, Mass. | 5 | 4 | 1 | - | - | - | - | Washington, D.C. | 100 | 57 | 27 | 12 | 2 | 1 | - |
| Springfield, Mass. | 34 | 23 | 9 | 1 | 1 | - | 1 | Wilmington, Del. | 12 | 8 | 3 | 1 | - | - | - |
| Waterbury, Conn. | 23 | 22 | 1 | - | - | - | 2 | E.S. CENTRAL | 849 | 547 | 210 | 52 | 23 | 17 | 52 |
| Worcester, Mass. | 61 | 44 | 14 | 2 | - | 1 | 5 | Birmingham, Ala. | 186 | 109 | + 51 | 17 | 23 7 | 17 | 13 |
| MID. ATLANTIC | 1,649 | 1,127 | 357 | 102 | 37 | 25 | 93 | Chattanooga, Tenn. | 72 | 54 | 16 | 1 | - | 1 | 6 |
| Albany, N.Y. | 49 | 37 | 7 | 2 | 1 | 2 | 3 | Knoxville, Tenn. | 116 | 81 | 24 | 7 | 2 | 2 | 3 |
| Allentown, Pa. | 18 | 12 | 3 | 3 | - | - | - | Lexington, Ky. | 74 | 50 | 21 | 1 | - | 2 | 9 |
| Buffalo, N.Y. | 76 | 50 | 17 | 6 | 2 | 1 | 5 | Memphis, Tenn. | 143 | 101 | 32 | 5 | 4 | 1 | 9 |
| Camden, N.J. | 21 | 12 | 4 | 4 | 1 | - | - | Mobile, Ala. | 82 | 45 | 21 | 5 | 5 | 6 | - |
| Elizabeth, N.J. | 18 | 13 | 5 | - | - | - | 1 | Montgomery, Ala. | 28 | 23 | 4 | 1 | - | - | 2 |
| Erie, Pa. | 47 | 30 | 11 | 2 | 1 | 3 | 5 | Nashville, Tenn. | 148 | 84 | 41 | 15 | 5 | 3 | 10 |
| Jersey City, N.J. | 15 | 10 | 5 | 64 | 23 | 13 | 47 | W.S. CENTRAL | 1,370 | 823 | 353 | 91 | 64 | 39 | 51 |
| New York City, N.Y. | 1,043 | 714 | 228 | 64 | 23 | 13 | 47 | Austin, Tex. | 1,370 95 | 55 | - 28 | 7 | 64 | 5 | 4 |
| Newark, N.J. | 46 | 20 | 18 | 1 | 5 | 2 | 2 | Baton Rouge, La. | 46 | 22 | 9 | 5 | 4 | 6 | 4 |
| Paterson, N.J. | 7 | 3 | 3 | 1 | U | U | 3 | Corpus Christi, Tex. | 55 | 31 | 18 | 3 | 2 | 1 | 3 |
| Philadelphia, Pa. | U | U | U | U | U | U | U | Dallas, Tex. | 174 | 102 | 44 | 12 | 10 | 6 | 10 |
| Pittsburgh, Pa. ${ }^{\text {® }}$ | 12 | 7 | 3 | 2 | - | - | - | El Paso, Tex. | 134 | 88 | 33 | 11 | 1 | 1 | 3 |
| Reading, Pa. | 25 | 21 | 4 | - | - | - | 2 | Ft. Worth, Tex. | 137 | 81 | 37 | 4 | 8 | 7 | 6 |
| Rochester, N.Y. | 125 | 95 | 20 | 7 | 1 | 2 | 17 | Houston, Tex. | 364 | 218 | 99 | 25 | 15 | 7 | 17 |
| Schenectady, N.Y. | 13 | 9 | 2 | 1 | 1 | - | 2 | Little Rock, Ark. | 65 | 37 | 18 | 3 | 5 | 2 | 2 |
| Scranton, Pa. | 28 | 24 | 4 | - | - | - | 1 |  | 101 | 47 | 27 | 10 | 13 | 4 | 1 |
| Syracuse, N.Y. | 67 | 46 | 14 | 5 | 2 | 2 | 4 | Sew Antonio, Tex. | U | U | U | U | U | U | U |
| Trenton, N.J. | 25 | 14 | 6 | 3 | 2 | - | - | Shreveport, La. | 73 | 55 | 15 | 3 | U | - | 3 |
| Utica, N.Y. | 10 | 7 | 2 | 1 | - | - | 1 | Tulsa, Okla. | 126 | 87 | 25 | 8 | 6 | - | 2 |
| Yonkers, N.Y. | 4 | 3 | 1 | - | - | - | - | Tulsa, Okla. | 126 | 87 | 25 | 8 | 6 | - | 2 |
| E.N. CENTRAL | 1,768 | 1,128 | 409 | 126 | 50 | 54 | 97 | MOUNTAIN | 689 | 435 | 170 | 54 | 13 | 17 | 36 |
| Akron, Ohio | 42 | 25 | 11 | 3 | 2 | 1 | 5 | Albuquerque, N.M. | 107 | 74 | 22 | 8 | 1 | 2 | 2 |
| Canton, Ohio | 33 | 21 | 9 | 2 | 1 | - | 3 | Boise, Idaho | 41 | 30 | 9 | 1 | - | 1 | 2 |
| Chicago, III. | 301 | 150 | 77 | 34 | 19 | 20 | 17 | Colo. Springs, Colo. | 52 | 32 | 15 | 2 | 2 | 1 |  |
| Cincinnati, Ohio | 51 | 36 | 7 | 3 | 2 | 3 | 3 | Denver, Colo. | 100 | 56 | 24 | 10 | 6 | 4 | 6 |
| Cleveland, Ohio | 209 | 148 | 43 | 10 | 3 | 5 | 6 | Las Vegas, Nev. | 237 | 146 | 68 | 18 | 3 | 2 | 17 |
| Columbus, Ohio | 204 | 124 | 54 | 17 | 4 | 5 | 12 | Ogden, Utah | 33 | 27 | 4 | 2 | U | U | 2 |
| Dayton, Ohio | 118 | 80 | 30 | 5 | 2 | 1 | 9 | Phoenix, Ariz. | 26 | 20 | 3 | 2 | 1 | - | 3 |
| Detroit, Mich. | 159 | 88 | 52 | 15 | 3 | 1 | 8 | Salt Lake City, Utah | 93 | 50 | 25 | 11 | 1 | 7 | 4 |
| Evansville, Ind. | 31 | 26 | 5 | - | - | - | 3 | Salt Lake City, Utah Tucson, Ariz. | U | 50 | 25 | 11 | U | U | U |
| Fort Wayne, Ind. | 64 | 47 | 9 | 4 | 1 | 3 | 3 | Tucson, Ariz. | U | U | U | U | U | U | U |
| Gary, Ind. | 15 | 8 | 4 | 2 | - | 1 | 1 | PACIFIC | 1,251 | 873 | 261 | 57 | 33 | 27 | 310 |
| Grand Rapids, Mich. | 65 | 48 | 11 | 4 | 1 | 1 | 6 | Berkeley, Calif. | 13 | 11 | 1 | - | - | 1 | - |
| Indianapolis, Ind. | 63 | 46 | 14 | 1 | - | 2 | 3 | Fresno, Calif. | 92 | 60 | 25 | 2 | 5 | - | 5 |
| Lansing, Mich. | 31 | 24 | 5 | 1 | 1 | - | 1 | Glendale, Calif. | 7 | 6 | - | 1 | - | - | 1 |
| Milwaukee, Wis. | 97 | 65 | 20 | 6 | 1 | 5 | 6 | Honolulu, Hawaii | 66 | 54 | 8 | 2 | - | 2 | 6 |
| Peoria, III. | 43 | 30 | 10 | - | 3 | - | 2 | Long Beach, Calif. | 58 | 44 | 11 | 2 | 1 | - | 2 |
| Rockford, III. | 47 | 36 | 10 | 1 | - | - | 2 | Los Angeles, Calif. | 120 | 72 | 27 | 11 | 6 | 4 | 16 |
| South Bend, Ind. | 24 | 14 | 4 | 2 | 3 | 1 | 2 | Pasadena, Calif. | 36 | 30 | 4 | 1 | 1 | - | 3 |
| Toledo, Ohio | 117 | 81 | 22 | 10 | 1 | 3 | 2 | Portland, Oreg. | 99 | 69 | 21 | 5 | 3 | 1 | 4 |
| Youngstown, Ohio | 54 | 31 | 12 | 6 | 3 | 2 | 3 | Sacramento, Calif. | 236 | 163 | 53 | 12 | 7 | 1 | 236 |
| W.N. CENTRAL | 413 | 269 | 101 | 24 | 7 | 12 | 19 | San Diego, Calif. | 160 | 105 | 30 | 13 | 5 | 7 | 16 |
| Des Moines, Iowa | - |  | - | 24 | 7 | 12 | 1 | San Francisco, Calif. | U | U | U | U | U | U | U |
| Duluth, Minn. | 29 | 20 | 7 | 2 | - | - | 2 | San Jose, Calif. | 165 | 118 | 37 | 6 | 2 | 2 | 15 |
| Kansas City, Kans. | 35 | 20 | 12 | 1 | 1 | 1 | 2 | Santa Cruz, Calif. | 31 | 21 | 9 | - | - | 1 | - |
| Kansas City, Mo. | 76 | 44 | 16 | 6 | 2 | 7 | 4 | Seattle, Wash. | 105 | 73 | 23 | 2 | 2 | 5 | 4 |
| Lincoln, Nebr. | 29 | 22 | 6 | 1 | - | - | 2 | Spokane, Wash. | 63 | 47 | 12 | - | 1 | 3 | 2 |
| Minneapolis, Minn. | 44 | 23 | 15 | 4 | 1 | 1 | 2 | Tacoma, Wash. | U | U | U | U | U | U | U |
| Omaha, Nebr. | U | U | U | U | U | U | U | TOTAL | 9,750" | 6,325 | 2,275 | 657 | 272 | 218 | 749 |
| St. Louis, Mo. | 64 | 37 | 19 | 4 | 2 | 2 | 4 |  |  |  |  |  |  |  |  |
| St. Paul, Minn. | 61 | 50 | 8 | 3 | - | - | - |  |  |  |  |  |  |  |  |
| Wichita, Kans. | 75 | 52 | 18 | 3 | 1 | 1 | 3 |  |  |  |  |  |  |  |  |

[^8]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 and on a paid subscription basis for paper copy. 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 World-Wide Web server at http://wwwu.cdc.gov/mmwr or from CDC's file transfer protocol server at ftp://ftp.cdc.gov/pub/publications/mmwr. To subscribe for paper copy, contact Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402; telephone 202-512-1800.
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[^0]:    *Data for 2004 are provisional.

[^1]:    *Advisory Committee on Immunization Practices.
    ${ }^{\dagger}$ Women of childbearing age who could become pregnant should have acceptable evidence of immunity to rubella, which includes receipt of 1 dose of live rubella virus vaccine (e.g., MMR vaccine) or laboratory evidence of immunity.

[^2]:    ${ }^{*} N=134$.
    ${ }^{\mathrm{t}}$ Aged $\geq 18$ years.

[^3]:    * Available at http://www.cdc.gov/nedss.
    $\dagger$ Available at http://www.cdc.gov/phin.
    § The NEDSS Base System was developed by CDC and partners to meet state and program area disease surveillance and analysis needs, while providing a secure, accurate, and efficient means for collecting and processing data.

[^4]:    * Data entered by NJDHSS staff into the secure, Internet-based Communi, cable Disease Reporting System (CDRS).
    ${ }^{\dagger}$ Data entered into CDRS by staff members of local health departments, hospitals, and Local Information Network and Communication Systems (i.e., regional public health networks).
    ${ }^{\S}$ Data submitted via electronic laboratory results reporting by Laboratory Corporation of America (Burlington, North Carolina).

[^5]:    ${ }^{9}$ Oklahoma Administrative Code 310:515-1-3.
    ** Online laboratory reporting means laboratory staff members enter data into an Internet form, in contrast to ELR, in which the laboratory computer system automatically sends an electronic message to the state health department system.

[^6]:    ${ }^{\dagger \dagger}$ Health Level Seven is one of several health-care standards developing organizations accredited by the American National Standards Institute. Available at http://www.hl7.org.
    $\$ \$$ Logical Observation Identifiers Names and Codes. The database and supporting documentation are maintained by The Regenstrief Institute (Indianapolis, Indiana). Available at http://www.regenstrief.org/loinc.
    99 Systematized Nomenclature of Medicine of the College of American Pathologists. Available at http://www.snomed.org.

[^7]:    *** Available at http://www.cdc.gov/phin/software-solutions/phinms.

[^8]:    U: Unavailable. -: No reported cases
     occurrence and by the week that the death certificate was filed. Fetal deaths are not included.
    † Pneumonia and influenza.
    
    ๆ Total includes unknown ages.

