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## High-Risk Sexual Behavior by HIV-Positive Men Who Have Sex with Men 16 Sites, United States, 2000-2002

The majority of persons living with human immunodeficiency virus (HIV) in the United States are men who have sex with men (MSM) (1). High-risk sexual behavior by HIV-positive MSM exposes sex partners to HIV. The risk for transmitting HIV from an infected partner to an uninfected partner through unprotected insertive anal intercourse (UIAI) is greater than the risk for transmission through receptive anal intercourse or oral sex (2). Differences in sexual risk behavior might be associated with the perceived HIV serostatus of the partner (i.e., HIV positive, HIV negative, or unknown serostatus) (3), as well as with the sex partner type (i.e., steady or nonsteady [4]). During May 2000-December 2002, HIV-positive MSM were interviewed in a behavioral surveillance survey at surveillance sites in 16 states*. This report describes insertive anal intercourse practices reported by these MSM; findings indicated that a large percentage of HIV-positive MSM were sexually abstinent, practiced safer sexual behavior by having protected insertive anal intercourse, or had UIAI with an HIV-positive partner. However, a small percentage of HIV-positive MSM reported UIAI with partners who were HIV negative or whose serostatus was unknown; for this group, more intensive and comprehensive HIVprevention efforts are needed to eliminate this risk behavior.
Information on selected behavioral characteristics of MSM with HIV/acquired immunodeficiency syndrome (AIDS) was obtained from CDC's Supplement to HIV/AIDS Surveillance (SHAS) project (5). SHAS is a cross-sectional, multisite study aimed at supplementing information routinely collected in HIV/AIDS surveillance. Trained staff conducted face-to-face interviews with persons aged $\geq 18$ years who had HIV infection or AIDS recently reported to the 16 surveillance sites.

[^0]Questionnaire modules included questions on demographics, drug use, sexual behavior, HIV testing and medical therapy, and use of health and social services. For sexually active MSM, insertive anal intercourse and condom use at last sexual encounter were compared by serostatus of the partner. Questions on sexual behavior were specific to the last sexual encounter with the most recent partner. Differences in behavior by partner type were evaluated by using the chi-square test ( $\mathrm{p}<0.05$ ); in analyses stratified by partner serostatus, percentages, odds ratios, confidence intervals, and statistical levels of significance were computed.
During May 2000-December 2002, a total of 2,491 HIVpositive MSM were interviewed. MSM were defined as men categorized in the national HIV/AIDS reporting hierarchy as either "men who have sex with men" or "men who have sex with men and inject drugs," or as men who, in the interview, reported having sex with a man during the preceding 12 months or self-identified their sexual orientation as "gay" or "bisexual." Of 1,923 ( $77 \%$ ) MSM who had HIV diagnosed for $\geq 12$ months (Table 1), 1,177 ( $61 \%$ ) reported having sex (i.e., any oral or anal intercourse) with a man during the preceding 12 months, 586 (31\%) reported they were abstinent, and $160(8 \%)$ reported they had sex but not with a man. The median number of male sex partners during this period was two (range: one to 500 sex partners). Data on sexual risk behavior were available for 1,153 MSM, who were categorized into two mutually exclusive groups based on the

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relationship of the sex partner(s): those who reported having only a steady partner (i.e., committed to that partner above anyone else) or any nonsteady partner. A total of 422 ( $37 \%$ ) MSM reported having only steady male sex partners during the preceding 12 months; 408 ( $97 \%$ ) reported having only one steady partner. A total of 731 (63\%) MSM reported having nonsteady male sex partners during the preceding 12 months; 86 (12\%) reported having only one partner.
A significantly higher percentage of men with nonsteady partners ( $36 \%$ ) did not know the serostatus of their most recent partner, compared with men who only had steady partners ( $8 \% ; \mathrm{p}<0.01$ ). Among the sexually active MSM, $30 \%$ reported oral sex exclusively and $13 \%$ reported anal sex exclusively at last sexual encounter; $55 \%$ reported both behaviors. Overall, $40 \%$ of sexually active MSM reported insertive anal intercourse at last sexual encounter; of these, $25 \%$ did not use a condom. No significant differences were observed by partner type (steady versus nonsteady) for insertive anal intercourse at last sexual encounter ( $43 \%$ versus $38 \%$, respectively) or not using a condom for insertive anal intercourse ( $28 \%$ versus $24 \%$, respectively); therefore, data were combined by partner type. Insertive anal intercourse at last sexual encounter was significantly less likely with HIV-negative partners and partners of unknown serostatus than with HIV-positive partners (Table 2). Among men who had insertive anal intercourse at last sexual encounter, UIAI was significantly less likely with HIV-negative partners than with HIV-positive partners. No difference was observed when UIAI among HIV-positive partners was compared with UIAI among partners of unknown serostatus.
Reported by: Supplement to HIVIAIDS Surveillance Project Group, participating state and local health departments. ML Campsmith, $D D S$, EB Begley, MPH, GV Nakamura, PhD, Div of HIV/AIDS Prevention, National Center for HIV, STD, and TB Prevention, CDC.
Editorial Note: The findings in this report indicate that approximately $40 \%$ of MSM who had HIV diagnosed for $\geq 12$ months did not have sex with a man (i.e., were abstinent or had sex with a woman) during the 12 months preceding the interview. Among sexually active MSM, anal sex was less common than oral sex. Insertive anal intercourse was significantly less likely with HIV-negative partners or unknown serostatus partners, compared with HIV-positive partners. Condom use for insertive anal intercourse was significantly higher with HIV-negative partners than with HIV-positive partners. Abstinence or sexual behaviors with a lower risk for transmitting HIV (e.g., oral sex, insertive anal intercourse with a seroconcordant partner, or protected insertive anal intercourse) were the common behaviors among this population of HIV-positive MSM.
Certain HIV-positive MSM reported behavior that had a greater risk for HIV transmission. For MSM who had insertive

TABLE 1. Number and percentage of men who have sex with men with HIV diagnosed for $\geq 12$ months, and of these, number and percentage who were sexually active with a male partner during the preceding 12 months, by selected characteristics 16 sites*, United States, May 2000-December 2002

| Characteristic | No. ${ }^{\dagger}$ | (\%) | Sexually active with a male partner during preceding 12 months |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Yes |  | No |  |
|  |  |  | No. ${ }^{\text {+ }}$ | (\%) | No. ${ }^{+}$ | (\%) |
| Age group (yrs) |  |  |  |  |  |  |
| 18-29 | 206 | (10.7) | 161 | (78.2) | 45 | (21.8) |
| 30-39 | 797 | (41.5) | 540 | (67.8) | 257 | (32.2) |
| 40-49 | 691 | (35.9) | 383 | (55.4) | 308 | (44.6) |
| $\geq 50$ | 229 | (11.9) | 93 | (40.6) | 136 | (59.4) |
| Race/Ethnicity |  |  |  |  |  |  |
| White, non-Hispanic | 701 | (36.5) | 470 | (67.1) | 231 | (32.9) |
| Black, non-Hispanic | 774 | (40.3) | 417 | (53.9) | 357 | (46.1) |
| Hispanic | 356 | (18.5) | 232 | (65.2) | 124 | (34.8) |
| American Indian/ |  |  |  |  |  |  |
| Alaska Native | 28 | (1.5) | 14 | (50.0) | 14 | (50.0) |
| Asian/Pacific Islander | 5 | (0.3) | 4 | (80.0) | 1 | (20.0) |
| Other§ | 56 | (2.9) | 37 | (66.1) | 19 | (33.9) |
| Education |  |  |  |  |  |  |
| $<12 \mathrm{yrs}$ | 324 | (16.8) | 159 | (49.1) | 165 | (50.9) |
| $\geq 12 \mathrm{yrs}$ | 1,595 | (82.9) | 1,016 | (63.7) | 579 | (36.3) |
| Sexual self-identity |  |  |  |  |  |  |
| Heterosexual | 215 | (11.2) | 17 | (7.9) | 198 | (92.1) |
| Homosexual/Gay | 1,295 | (67.3) | 958 | (74.0) | 337 | (26.0) |
| Bisexual | 336 | (17.5) | 159 | (47.3) | 177 | (52.7) |
| Other | 50 | (2.6) | 28 | (56.0) | 22 | (44.0) |
| Unknown/Refused | 27 | (1.4) | 15 | (55.5) | 12 | (44.4) |
| Disease status at interview |  |  |  |  |  |  |
| HIV | 590 | (30.7) | 391 | (66.3) | 99 | (33.7) |
| AIDS | 1,317 | (68.5) | 773 | (58.7) | 544 | (41.3) |
| Total | 1,923 | (100.0) | 1,177 | (61.2) | 746 | (38.8) |

*Located in Arizona, California, Colorado, Connecticut, Delaware, Florida, Georgia, Kansas, Maryland, Michigan, Minnesota, New Jersey, New Mexico, South Carolina, Texas, and Washington.
${ }_{\S}$ Numbers might not sum to total because of missing data.
§ Includes those who self-identified as multiple races.
that partners of unknown serostatus are seroconcordant might be inaccurate, resulting in high-risk behavior with partners who are HIV negative. Recent outbreaks of sexually transmitted diseases (STDs) among MSM, including many who were HIV positive ( 6 ), indicate a possible resurgence of high-risk sexual behavior in this population.
In response to the growing number of persons living with HIV/AIDS, CDC has increased its focus on prevention efforts for persons infected with HIV (those who have and have not yet received a diagnosis). In 2003, CDC launched Advancing HIV Prevention: New Strategies for a Changing Epidemic, a new initiative aimed at reducing barriers to early diagnosis of HIV and increasing access to quality medical care, treatment, and ongoing prevention services for HIV-infected persons (7). One key strategy is to prevent new HIV infections by helping persons with HIV and their partners reduce risk behavior and maintain behavior change. Current guidelines recommend routine provider-delivered prevention messages and STD screening for persons who are HIV positive (8). For those persons who have difficulty initiating and sustaining safer behaviors (e.g., adopting consistent condom use during insertive anal intercourse), higherlevel interventions such as individualized
anal intercourse with partners who were HIV negative or whose serostatus they did not know, $14 \%$ and $25 \%$, respectively, did not use a condom. No significant difference in UIAI was observed between those with HIV-positive or serostatusunknown partners. The assumption by HIV-positive MSM
support and counseling through prevention case management (9) or multisession behavioral interventions (10) might prove beneficial.
The findings in this report are subject to at least four limitations. First, recruitment for SHAS was not random; participants might not represent all persons reported with HIV or

TABLE 2. Number and percentage of sexually active men who have sex with men with HIV diagnosed for $\geq 12$ months who had insertive anal intercourse (with or without a condom) at last sexual encounter, by partner HIV serostatus - 16 sites*, United States, May 2000-December 2002

| Partner HIV serostatus | Insertive anal intercourse at last sexual encounter (with or without condom) |  |  |  | Did not use a condom at last insertive anal intercourse |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | No. | (\%) | Crude odds ratio | (95\% CIt ${ }^{\text {) }}$ | No. | (\%) | Crude odds ratio | (95\% CI) |
| HIV-positive | 196/406 | (48) | referent |  | 68/194§ | (35) | referent |  |
| HIV-negative | 155/446 | (35) | 0.6 | (0.4-0.8) ${ }^{\text {T}}$ | 21/155 | (14) | 0.3 | $(0.2-0.5)^{\dagger}$ |
| Unknown serostatus | 105/295 | (36) | 0.6 | (0.4-0.8) ${ }^{\text {¢ }}$ | 26/105 | (25) | 0.6 | (0.4-1.1) |

*Located in Arizona, California, Colorado, Connecticut, Delaware, Florida, Georgia, Kansas, Maryland, Michigan, Minnesota, New Jersey, New Mexico, South Carolina, Texas, and Washington.
$\dagger$ Confidence interval.
${ }^{\S}$ Data are missing for two MSM.
TStatistically different from referent group ( $\mathrm{p}<0.001$ ).

AIDS from the participating sites. Second, data on sexual behaviors were self-reported and subject to recall and desirability biases. No assessment was conducted of how participants determined the serostatus of their most recent male sex partner or whether the participants had disclosed their own HIV-positive status to their sex partners. Third, the analysis was limited to UIAI with male partners and did not examine differences in receptive anal intercourse or oral sex (behaviors with a lower per-episode risk for transmitting HIV [2]) by partner type or serostatus. Finally, behavioral data were available for only the most recent sexual encounter with the most recent partner and did not include information about motivations for behavior (e.g., whether HIV-positive MSM were abstinent, limiting sexual contact to seroconcordant partners, or substituting lower-risk sex as an HIV-risk-reduction strategy).

Unprotected sexual intercourse between HIV serodiscordant partners can lead to HIV transmission. This analysis suggests that although the majority of HIV-positive MSM are sexually active, most engage in behaviors with less risk for HIV transmission than UIAI. Nonetheless, UIAI occurred in $6 \%$ of the sexual encounters with HIV-negative and unknown serostatus partners. Sexual behaviors and risk-reduction strategies of HIVpositive MSM are complex and dependent on many factors, including partner relationship and perceived serostatus. To stop HIV transmission, public health authorities and healthcare providers must provide effective HIV-prevention activities to those who continue to demonstrate risk behaviors.

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## Imported Lassa Fever New Jersey, 2004

Lassa fever is an acute viral illness caused by Lassa virus, which is hosted by rodents in the Mastomys natalensis species complex and rarely imported to countries outside of those areas in Africa where the disease is endemic (1). Lassa fever is characterized by fever, muscle aches, sore throat, nausea, vomiting, and chest and abdominal pain. Approximately 15\%$20 \%$ of patients hospitalized for Lassa fever die from the illness; however, approximately $80 \%$ of human infections with Lassa virus are mild or asymptomatic, and $1 \%$ of infections overall result in death ( 1 ). On August 28, 2004, a man aged 38 years residing in New Jersey died from Lassa fever after returning from travel to West Africa. This report summarizes the clinical and epidemiologic investigations conducted by federal, state, and local public health agencies. The findings illustrate the need for clinicians and public health officials to remain alert to emerging infectious diseases and to institute appropriate measures to promptly identify and limit spread of unusual pathogens.

## Case Report

The patient, a businessman who was born in Liberia, had resided in the United States for 5 years. During the 4 -month period preceding hospitalization, he had been in West Africa, commuting frequently between Liberia and Sierra Leone, where he owned farms. One day in August, the patient began to experience fever, chills, severe sore throat, diarrhea, and back pain. Two days later, he left Freetown, Sierra Leone, and traveled by airplane through London, England, arriving in Newark, New Jersey. He then traveled from Newark to his home by train.
Within hours of his arrival in the United States, the patient sought treatment and was hospitalized in Trenton, New Jersey, for persistent fever, chills, sore throat, diarrhea, and back pain. On admission, the patient was alert and had a temperature of $103.6^{\circ} \mathrm{F}\left(39.8^{\circ} \mathrm{C}\right)$. Differential diagnoses at this time included malaria and typhoid fever. On the third and fourth days of hospitalization, despite treatment with antimalarial and antibiotic therapy, the patient's condition deteriorated, and adult respiratory distress syndrome was diagnosed. He was subsequently intubated and mechanically ventilated. Yellow fever and Lassa fever were considered as possible diagnoses. The New Jersey Department of Health and Senior Services (NJDHSS) was notified, CDC was consulted, and arrangements to administer intravenous ribavirin under an investigational new drug protocol were initiated. However, 6 hours later, the patient died before the drug could be administered.

Clinical and postmortem specimens were sent to CDC for specific diagnostic testing. Lassa fever was confirmed by using serum antigen detection, immunohistochemical staining of postmortem liver-biopsy specimens, virus isolation in cell culture (Figure 1), and sequencing of Lassa virus by reverse transcriptase-polymerase chain reaction.

## Investigation

An investigation was conducted to identify persons who might have had direct contact with the patient or his body fluids while he was ill. Contacts were categorized into lowand high-risk categories on the basis of multiple criteria (Box).
A total of 188 persons had contact with the patient during the period when he was likely infectious; of these, five persons were classified as at high risk and 183 as at low risk. The five at high risk were the patient's wife, three of their children, and the patient's brother, who was a hospital visitor; each reportedly had unprotected exposure to the patient's body fluids during his illness. Contacts at low risk included nine other family members, 139 health-care workers employed at the Trenton hospital (including 42 laboratory workers, 32 nurses, and 11 physicians), and 16 laboratory workers employed at commercial laboratories in Virginia and California. In addition, 19 contacts at low risk were exposed as passengers on the flight from London to Newark.

The NJDHSS notified CDC's Division of Global Migration and Quarantine (DGMQ) of possible travel-related exposures. Because the patient reported illness onset 3 days before air travel, DGMQ searched for those airline passengers who had been seated within 6 feet of the patient. Passengers were traced by using information from travel reservation records and customs declaration forms. Nineteen passengers

FIGURE 1. Electron micrograph image of Lassa virus


Photo/CDC

BOX. Level of risk related to exposure to a patient with Lassa fever

## High risk

- Exposure from a percutaneous injury (e.g., a needlestick or cut with a sharp object) to blood, tissue, or other body fluids that are potentially infectious (e.g., urine, vomitus, or stool).
- Exposure from direct, unprotected contact with potentially infectious material (e.g., touching vomitus with an ungloved hand).
- Mucosal exposure (e.g., of eyes, nose, or mouth) to splashes or droplets of potentially infectious blood and body fluids or sexual contact with a symptomatic patient.


## Low risk

- Sharing a room or sitting in a vehicle within 6 feet (i.e., coughing distance) of a potentially infectious patient without direct contact with a potentially infectious material.
- Providing routine medical care while using personal protective equipment (PPE) appropriately.
- Routine cleaning and laundry of contaminated linens and surfaces while using PPE appropriately.
- Transport of a potentially infectious patient or specimen without direct contact with potentially infectious material.
- Handling of clinical specimens while using PPE appropriately.
Source: Special Pathogens Branch, Division of Viral and Rickettsial Diseases, National Center for Infectious Diseases, CDC.
seated near the patient were identified (Figure 2). Within 5 days of notification, 13 of the 19 passengers had been interviewed; within 8 days, three more had been contacted. The remaining three could not be contacted. Seventeen of 19 passengers were citizens of the United Kingdom, and authorities in that country were notified; two of the passengers were U.S. citizens. Interviewed passengers did not report contact with the patient's body fluids and were considered to have low-risk exposure. All passengers contacted were healthy; none reported fever as of September 14, which marked the end of the 21-day incubation period for Lassa fever for this group.

All contacts at high risk (i.e., five family members) were monitored for temperature of $\geq 101^{\circ} \mathrm{F}\left(\geq 38.3^{\circ} \mathrm{C}\right)$ twice daily for 21 days after their last potential exposure to the patient on August 28. A public health nurse visited the family contacts each morning and recorded their temperatures. In the afternoon, the contacts recorded their own temperatures and reported the results.

The majority of contacts at low risk (i.e., nine other family members and 139 health-care workers) were instructed to

FIGURE 2. Airplane row numbers and seat letters for Lassa fever patient and nearby passengers and contact status of passengers - London-Newark flight, August 2004

| 19 | $A$ | $B$ | $C$ |  | $D$ | $E$ | $A$ | $J$ | $K$ |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

record their own temperatures at least twice daily and report the results. Other contacts at low risk (i.e., the 16 laboratory workers and 19 air passengers) were asked to self monitor for temperature of $\geq 101^{\circ} \mathrm{F}\left(\geq 38.3^{\circ} \mathrm{C}\right)$ and other symptoms compatible with Lassa fever.

No restriction was placed on work or movement for asymptomatic adults at either high or low risk. However, to facilitate monitoring, the patient's children were restricted from participating in school activities. None of the contacts at high risk reported any illness compatible with Lassa fever as of September 18, which ended their 21-day incubation period.
Reported by: PAufiero, MD, N Karabulut, MD, D Rumowitz, SShah, DO, Capital Health System, Trenton; I Nsubuga, MPH, B Piepszak, RD Salter, MA, City of Trenton Div of Health; E Bresnitz, MD, CR Lacy, MD, C Robertson, MD, C Tan, MD, New Jersey Dept of Health and Senior Svcs. Div of Global Migration and Quarantine, Div of Viral and Rickettsial Diseases, National Center for Infectious Diseases; ET Tan, MBBS, EIS Officer, CDC.
Editorial Note: This report describes the first case of imported Lassa fever diagnosed in the United States since 1989 (2). In West Africa, Lassa fever is endemic, causing 100,000-300,000 human infections and approximately 5,000 deaths each year ( 1 ).
Other than in regions where it is endemic, Lassa fever is encountered rarely. Cases identified in areas where Lassa fever is not endemic usually are imported, often by persons returning from West Africa (2). To date, approximately 20 cases of imported Lassa fever have been reported worldwide. The risk for human-to-human transmission of Lassa fever is low (3,4); however, health-care-associated transmission has occurred in areas where Lassa fever is endemic, and one instance of asymptomatic seroconversion was reported in a European
physician (4). Meticulous adherence to appropriate infectioncontrol practices to prevent unprotected exposure to blood or other body fluids is essential to the safe management of patients with possible Lassa fever and to the protection of health-care workers (2). Family members and others visiting a hospitalized patient must be instructed to adhere to infectioncontrol precautions and avoid exposure to potentially infectious blood or body fluids.
In the absence of proven effectiveness, oral ribavirin prophylaxis was not recommended for persons who might have been exposed to the patient described in this report. Instead, a standard treatment regimen of intravenous ribavirin was recommended for any contacts with clinical evidence of infection during the incubation period. However, none of the contacts had illness compatible with Lassa fever.
Increasing international travel has resulted in importation of microbial agents not endemic to the United States, posing diagnostic challenges to health-care providers. In addition to routine evaluation, clinicians should consider both uncommon and common causes of fever (e.g., malaria) in persons arriving from Africa. Clinical histories should include careful assessment of travel to regions where uncommon diseases are endemic (e.g., for Lassa fever, Liberia, Nigeria, and Sierra Leone). Every effort should be made to expedite delivery of clinical specimens to appropriate diagnostic laboratories.
The nonspecific presentation of Lassa fever and related viral infections that can cause viral hemorrhagic fever syndromes underscores the need for consistent application of infection-control practices. Suspected cases of Lassa fever or related infections should be reported immediately to hospital infection-control professionals and to state and local health departments for treatment recommendations and to facilitate implementation of infection-control precautions and tracing of contacts. Clinicians also should consult CDC's Special Pathogens Branch (telephone 404-639-1115), where specialized containment facilities exist to allow diagnostic confirmation by serologic, virologic, molecular, and pathology techniques. State health departments should notify DGMQ immediately of travel-related importations of suspected communicable diseases to ensure that prompt risk assessments, notifications, and appropriate containment measures are implemented for exposed travelers.

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## Emergency Measles Control Activities - Darfur, Sudan, 2004

The Darfur region of Sudan, composed of three states with a population of approximately six million, has experienced civil conflict during the previous year, resulting in the internal displacement of approximately one million residents and an exodus of an estimated 170,000 persons to neighboring Chad. The conflict has left a vulnerable population with limited access to food, health care, and other basic necessities. In addition, measles vaccination coverage has been adversely affected; in 2003, coverage was reported to be $46 \%, 57 \%$, and $77 \%$ in North, West, and South Darfur, respectively. This report describes measles-control activities in Darfur region conducted by the Federal Ministry of Health (FMOH) in Sudan in collaboration with the United Nations and nongovernmental organizations (NGOs) during March-August 2004. Ongoing measles transmission in camps for internally displaced persons (IDPs) and neighboring communities in Darfur led to a regionwide measles vaccination campaign targeting all children aged 9 months-15 years, resulting in a reduction in reported measles cases. Once security is improved, ongoing efforts to increase measles vaccine coverage will be required to eliminate persistent susceptibility to measles in the Darfur population.

## Measles Vaccination Activities

During March-April 2004, the Expanded Program on Immunization (EPI) at FMOH received reports of measles outbreaks among displaced populations in West and North

Darfur. In response to these outbreaks, the state ministries of health and various NGOs conducted vaccination campaigns in IDP camps and neighboring communities, targeting children aged 9 months- 5 years; these campaigns vaccinated approximately 80,000 children. In addition, clinics were established in IDP camps to vaccinate current and incoming residents. Despite these measures, measles virus transmission continued to occur both within the camps and in neighboring communities.
In early April, FMOH, the World Health Organization (WHO), and UNICEF conducted an assessment of the feasibility of a regionwide measles vaccination campaign in the context of lack of security, population movements, and the approaching rainy season. State-level EPI managers reported that approximately $83 \%$ of children aged 9 months -15 years in the region were accessible. The majority of the inaccessible areas were in West Darfur, from which much of the population had fled to Chad. On the basis of these assessments, a measles vaccination campaign targeting children aged 9 months -15 years was planned in the accessible areas of the Darfur region.
Authorities hoped that the negotiations between opposing parties necessary to permit widespread access to vaccination also might result in alleviation of civil conflict. Donor agencies pledged resources toward campaign activities, including renewal of the vaccine cold chain (i.e., maintaining proper vaccine temperatures during storage and handling to preserve potency) and reestablishment of EPI services. Because of widespread malnutrition and low poliomyelitis vaccine coverage, polio vaccination and vitamin A supplementation for children aged $<5$ years were included in the campaign.
A technical group composed of provincial health staff, NGOs, and international partners was established for campaign planning. State- and district-level staff participated in workshops in Khartoum during the first half of May 2004 to review campaign guidelines and develop a schedule for campaign planning. Extensive social mobilization was undertaken through mass media and community-level activities. In late May, training sessions were held for 6,259 vaccinators, 522 team leaders, and 206 supervisors.
A mass measles vaccination campaign was launched on June 5 in South Darfur and on June 12 in West and North Darfur and continued for 10 days in each state. Activities included vaccination using a combination of fixed posts and outreach immunization teams, the use of checklists to monitor vaccination sessions, social mobilization activities, and surveillance for adverse events after vaccination. In addition, rapid convenience surveys were used to monitor coverage in hard-to-reach areas. At the state level, meetings were held at the end of each working day to review progress and address
problems. Tally sheets were used to monitor campaign coverage, and data were sent to the federal level for compilation and analysis. Vaccination sites included 500 fixed centers, 1,088 temporary posts, and 189 mobile teams.
Approximately $93 \%$ of the accessible population and $77 \%$ of the total target population were vaccinated during the campaign (Table 1). Coverage were highest in South Darfur, an area with limited conflict, and lowest in West Darfur, where a substantial percentage of the population was inaccessible because of lack of security. Officials negotiated an agreement with rebel forces, allowing campaign staff to enter conflict areas in South Darfur, but were unable to negotiate similar agreements in West Darfur. In addition, the start of the rainy season limited access in parts of West Darfur.

## Measles Surveillance

During the measles outbreak in Darfur, WHO collaborated with FMOH and other partners to develop a system for routine surveillance and early outbreak detection of 12 epidemic diseases, including measles (1). Data are compiled at the state level and transmitted to FMOH weekly. Alert thresholds for outbreaks were agreed upon for selected diseases, and a surveillance bulletin was developed to disseminate data to key stakeholders. During the course of establishing surveillance in the IDP camps, three serologically confirmed measles outbreaks were investigated retrospectively. A total of 725 measles cases and 108 deaths were identified in outbreaks that occurred during March-June in West and North Darfur (Table 2).
Transmission of measles virus continued to be observed in Darfur after completion of the mass campaign (Figure). Of the 89 measles patients identified during July 10-August 6, a total of 45 ( $51 \%$ ) were from West Darfur, 33 ( $37 \%$ ) from North Darfur, and 11 ( $12 \%$ ) from South Darfur. Maintaining high-quality surveillance is necessary for enabling early detection of and response to outbreaks. When security improves, FMOH plans to repeat a mass campaign in these areas; this step will be critical in protecting remaining susceptible persons, thereby stopping transmission.
Reported by: EA Elsayed, MD, N Mousa, MD, Federal Ministry of Health of Sudan. A Dabbagh, MD, World Health Organization, Geneva, Switzerland. H El-Bushra, MD, F Mahoney, MD, World

TABLE 1. Reported measles vaccination campaign coverage, by state - Darfur, Sudan, 2004

|  | $\begin{array}{c}\text { Target } \\ \text { population in } \\ \text { accessible } \\ \text { areas }^{*}\end{array}$ |  |  |  | $\begin{array}{c}\text { No. } \\ \text { vaccinated }\end{array}$ |
| :--- | :---: | ---: | ---: | :---: | :---: | \(\left.\begin{array}{c}Total target <br>

in coverage <br>
areas\end{array} \quad $$
\begin{array}{c}\text { \% coverage } \\
\text { of total } \\
\text { population }\end{array}
$$\right]\)

Source: Expanded Program on Immunization at the Federal Ministry of Health in Sudan.

* Children aged 9 months-15 years. Estimated target population before the conflict.

TABLE 2. Number of measles-related cases and deaths in internally displaced persons located in West and North Darfur before mass vaccination campaigns, by location - Darfur, Sudan, 2004

| Location | Dates of outbreak | No. of <br> cases | No. of <br> deaths | Case- <br> fatality <br> rate |
| :--- | :--- | :---: | :---: | :---: |
| Fur Baranga, <br> West Darfur | March 1-April 27 | 48 | NA* | NA |
| El-Mashtal, <br> North Darfur <br> Habilla, <br> West Darfur | March 27-June 16 | 521 | 88 | $17 \%$ |

* Data not available.

Health Organization Eastern Mediterranean Regional Office, Cairo, Egypt. S Haithami, MD, HEl-Sakka, MD, G Sabitenelli, MD, World Health Organization; S Agbo, MD, UNICEF, Khartoum, Sudan. R Nandy, MBBS, L Cairns, MD, Global Immunization Div, National Immunization Program, CDC.
Editorial Note: In October 2003, FMOH developed a comprehensive strategy for measles mortality reduction in Sudan based on the WHO-UNICEF campaign (2). The strategy includes increasing routine measles vaccination coverage among infants, providing a second opportunity for measles immunization, strengthening measles surveillance, and improving case management of children with measles. The strategy calls for a nationwide supplemental vaccination campaign for all children aged 9 months- 15 years. A pilot campaign was conducted in four northern states in January 2004, after which plans were under way to cover the remainder of the northern states in Sudan in late 2004. The civil conflict in Darfur created a public health emergency, necessitating the modification of these plans for immediate response in Darfur.
Outbreaks of measles are common among refugee and displaced populations, and measles often is a leading cause of death in these settings (3-7). Overcrowding increases the likelihood of infection, and young age and malnutrition are associated with increased severity of disease (4). Consequently, measles vaccination is a priority health intervention for areas affected by humanitarian emergencies. The SPHERE Project guidelines ( 8 ), revised in 2004, provide minimum standards in disaster response. These guidelines recommend measles vaccination at the earliest opportunity for all children aged 6 months-15 years (8). Recent experience in Afghanistan suggests that large-scale measles vaccination campaigns are possible in a country affected by conflict and can substantially limit morbidity and mortality attributable to measles $(9,10)$. In addition to measles control efforts in Darfur, measles vaccination campaigns were conducted

FIGURE. Number of measles cases, by epidemiologic week Darfur, Sudan, 2004

during June-August 2004 in the 10 refugee camps in eastern Chad to which refugees from Darfur had fled. Reported vaccine coverage in these camp-based campaigns ranged from $80 \%$ to $92 \%$. As of August 2, these camps housed 165,685 persons. Sixty-five percent of weekly mortality reports and $60 \%$ of weekly morbidity reports from these camps are available for June 28-July 25 (United Nations High Commissioner for Refugees, unpublished data, 2004); during this period, 66 measles cases and 15 measles deaths were reported.

The high case-fatality rate (CFR) observed in Darfur and refugee camps in neighboring Chad is consistent with studies in similar settings and emphasizes the importance of providing measles vaccination as early as possible in such populations. The initial response to the measles outbreaks in Darfur included vaccination campaigns for children aged <5 years in IDP camps and surrounding communities and the vaccination of incoming residents in these camps. Although these efforts were important for providing protection to individual children who were vaccinated, they had limited impact on virus transmission because of the restricted target age group, the continuous movement of the displaced population, and the low vaccination coverage in the surrounding communities.
The unique circumstances in Darfur presented challenges to the rapid mobilization of a mass measles vaccination campaign. The substantial numbers of displaced persons residing throughout broad geographic areas created a situation in which the entire population needed to be targeted. Considerable resources were needed to purchase vaccine, reestablish the cold chain, and support operational aspects of the campaign. In addition, the challenging physical environment and lack of security in the region presented formidable logistic constraints that required extensive planning and support.
The findings in this report are subject to at least three limitations. First, the retrospective outbreak investigations described in this report might have resulted in incomplete ascertainment of measles cases or measles deaths. Either of
these factors could lead to an inaccurate estimate of CFRs. Second, coverage figures for these campaigns were calculated by dividing the total number of doses administered by the estimated target population of the community before the conflict. No coverage surveys were conducted after these campaigns. Finally, coverage was reported to be lowest in the insecure areas of West Darfur. However, some of the target population might have relocated to Chad, thus resulting in falsely low coverage estimates.
Despite low coverage in some areas, this campaign resulted in the vaccination of approximately three quarters of the total target population and appears to have reduced morbidity and mortality attributable to measles. This experience demonstrates that a large-scale vaccination campaign can rapidly and successfully be conducted in an area of conflict. However, a multisectoral approach with commitment of all stakeholders is needed to ensure success. The future challenge will be to ensure rebuilding of the EPI infrastructure and reestablishing of routine vaccination services when the security situation is normalized.

## Acknowledgments

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## West Nile Virus Activity United States, September 22-28, 2004

During September 22-28, a total of 180 cases of human West Nile virus (WNV) illness were reported in the District of Columbia (DC) and 24 states (Alabama, Arizona, California, Georgia, Illinois, Iowa, Kansas, Kentucky, Louisiana, Maryland, Michigan, Minnesota, Mississippi, Missouri, Montana, Nebraska, Nevada, New Mexico, Ohio, Pennsylvania, Texas, Utah, Wisconsin, and Wyoming).

During 2004, a total of 40 states have reported 1,784 cases of human WNV illness to CDC through ArboNET (Figure, Table). Of these, 563 (32\%) cases were reported in California, 362 (20\%) in Arizona, and 225 ( $13 \%$ ) in Colorado. A total of $1,015(58 \%)$ of the 1,752 cases for which such data were available occurred in males; the median age of patients was 51 years (range: 1 month-99 years). Illness onset ranged from April 23 to September 18; a total of 56 cases were fatal.
A total of 157 presumptive West Nile viremic blood donors (PVDs) have been reported to ArboNET in 2004. Of these, $53(34 \%)$ were reported in California; 37 (24\%) in Arizona; 15 in Texas; 12 in New Mexico; five each in Colorado, Louisiana, and Nevada; four in Georgia; three each in Florida, Oklahoma, and South Dakota; two each in Minnesota, Missouri, and Wisconsin; and one each in Iowa, Michigan, Nebraska, New Jersey, North Dakota, and Pennsylvania. Of the 157 PVDs, three persons aged 35,69 , and 77 years subsequently had neuroinvasive illness, and 36 persons (median age: 53 years; range: 17-73 years) subsequently had West Nile fever.

In addition, during 2004, a total of 4,400 dead corvids and 1,054 other dead birds with WNV infection have been reported in 45 states and New York City. WNV infections have been reported in horses in 35 states, one bat in Wisconsin, five dogs in Nevada and New Mexico, three squirrels in
FIGURE. Areas reporting West Nile virus (WNV) activity United States, 2004*


[^1]TABLE. Number of human cases of West Nile virus (WNV) illness, by area - United States, 2004*

| Area Ne | Neuroinvasive disease ${ }^{\dagger}$ | West Nile fever ${ }^{\S}$ | Other clinical/ unspecified ${ }^{\text {II }}$ | Total reported to CDC** | Deaths |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Alabama | 12 | 0 | 0 | 12 | 0 |
| Arizona | 125 | 65 | 172 | 362 | 7 |
| Arkansas | 5 | 6 | 0 | 11 | 0 |
| California | 125 | 200 | 238 | 563 | 16 |
| Colorado | 32 | 193 | 0 | 225 | 2 |
| Connecticut | 0 | 1 | 0 | 1 | 0 |
| District of Colum | umbia 1 | 0 | 0 | 1 | 0 |
| Florida | 26 | 5 | 0 | 31 | 1 |
| Georgia | 6 | 5 | 1 | 12 | 0 |
| Idaho | 0 | 0 | 2 | 2 | 0 |
| Illinois | 21 | 16 | 1 | 38 | 1 |
| Indiana | 2 | 0 | 1 | 3 | 1 |
| Iowa | 7 | 5 | 3 | 15 | 1 |
| Kansas | 13 | 18 | 0 | 31 | 1 |
| Kentucky | 1 | 4 | 0 | 5 | 0 |
| Louisiana | 42 | 8 | 0 | 50 | 3 |
| Maryland | 5 | 5 | 1 | 11 | 0 |
| Michigan | 5 | 1 | 0 | 6 | 0 |
| Minnesota | 11 | 16 | 0 | 27 | 2 |
| Mississippi | 20 | 4 | 1 | 25 | 3 |
| Missouri | 19 | 4 | 3 | 26 | 1 |
| Montana | 1 | 3 | 1 | 5 | 0 |
| Nebraska | 2 | 20 | 0 | 22 | 0 |
| Nevada | 23 | 16 | 0 | 39 | 0 |
| New Mexico | 26 | 42 | 4 | 72 | 4 |
| New York | 3 | 2 | 0 | 5 | 0 |
| North Carolina | a 2 | 0 | 0 | 2 | 0 |
| North Dakota | 2 | 17 | 0 | 19 | 1 |
| Ohio | 4 | 1 | 0 | 5 | 1 |
| Oklahoma | 4 | 1 | 0 | 5 | 1 |
| Oregon | 0 | 1 | 0 | 1 | 0 |
| Pennsylvania | 5 | 2 | 0 | 7 | 0 |
| South Carolina | a 0 | 1 | 0 | 1 | 0 |
| South Dakota | 5 | 33 | 0 | 38 | 1 |
| Tennessee | 5 | 1 | 0 | 6 | 0 |
| Texas | 59 | 12 | 0 | 71 | 8 |
| Utah | 5 | 4 | 0 | 9 | 0 |
| Virginia | 2 | 0 | 1 | 3 | 0 |
| Wisconsin | 4 | 4 | 1 | 9 | 1 |
| Wyoming | 2 | 5 | 1 | 8 | 0 |
| Total | 632 | 721 | 431 | 1,784 | 56 |

* As of September 28, 2004.
$\dagger$ Cases with neurologic manifestations (i.e., West Nile meningitis, West Nile encephalitis, and West Nile myelitis).
§ Cases with no evidence of neuroinvasion.
II Illnesses for which sufficient clinical information was not provided.
** Total number of human cases of WNV illness reported to ArboNet by state and local health departments.

Arizona, and 13 unidentified animal species in eight states (Arizona, Idaho, Illinois, Iowa, Missouri, Nevada, New York, and South Carolina). WNV seroconversions have been reported in 858 sentinel chicken flocks in 13 states (Alabama, Arizona, Arkansas, California, Delaware, Florida, Iowa, Louisiana, Nebraska, Nevada, Pennsylvania, South Dakota, and Utah) and in 25 wild hatchling birds in Missouri and Ohio. Four seropositive sentinel horses were reported in Minnesota and Puerto Rico. A total of 6,156 WNV-positive mosquito pools have been reported in 34 states, DC, and New York City.
Additional information about national WNV activity is available from CDC at http://www.cdc.gov/ncidod/dvbid/ westnile/index.htm and at http://westnilemaps.usgs.gov.

FIGURE I. Selected notifiable disease reports, United States, comparison of provisional 4-week totals September 25, 2004, with historical data

CASES CURRENT
DISEASE
DECREASE
INCREASE
4 WEEKS


* No measles or rubella cases were reported for the current 4 -week period yielding a ratio for week 38 of zero (0).
$\dagger$ 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 September 25, 2004 (38th Week)*

|  | $\begin{aligned} & \text { Cum. } \\ & 2004 \\ & \hline \end{aligned}$ | $\begin{aligned} & \text { Cum. } \\ & 2003 \end{aligned}$ |  | $\begin{aligned} & \text { Cum. } \\ & 2004 \\ & \hline \end{aligned}$ | $\begin{aligned} & \text { Cum. } \\ & 2003 \\ & \hline \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Anthrax |  | - | Hemolytic uremic syndrome, postdiarrheal ${ }^{\dagger}$ | 101 | 109 |
| Botulism: | - | - | HIV infection, pediatric ${ }^{+\pi}$ | 113 | 149 |
| foodborne | 10 | 9 | Measles, total | $24^{* *}$ | $51^{\text {tt }}$ |
| infant | 54 | 51 | Mumps | 145 | 160 |
| other (wound \& unspecified) | 7 | 20 | Plague | 1 | 1 |
| Brucellosis ${ }^{\dagger}$ | 79 | 69 | Poliomyelitis, paralytic | - | - |
| Chancroid | 27 | 43 | Psittacosis ${ }^{\dagger}$ | 8 | 9 |
| Cholera | 4 | 1 | Q fever ${ }^{+}$ | 53 | 54 |
| Cyclosporiasis ${ }^{\dagger}$ | 193 | 58 | Rabies, human | 3 | 1 |
| Diphtheria | - | - | Rubella | 15 | 6 |
| Ehrlichiosis: | - | - | Rubella, congenital syndrome | - | 1 |
| human granulocytic (HGE) ${ }^{\dagger}$ | 202 | 237 | SARS-associated coronavirus disease ${ }^{\text {¢ } ¢ 8}$ | - | 8 |
| human monocytic (HME) ${ }^{\dagger}$ | 194 | 182 | Smallpox ${ }^{1 \pi}$ | - | NA |
| human, other and unspecified | 19 | 37 | Staphylococcus aureus: | - | - |
| Encephalitis/Meningitis: | - | - | Vancomycin-intermediate (VISA) ${ }^{\text {¢ }}$ ¢ | 4 | NA |
| California serogroup viral ${ }^{\text {¢ }}$ \$ | 53 | 95 | Vancomycin-resistant (VRSA) ${ }^{\text {¢ }}$ \% | 2 | NA |
| eastern equine ${ }^{\text {¢ }}$ | 3 | 13 | Streptococcal toxic-shock syndrome ${ }^{\dagger}$ | 82 | 129 |
| Powassants | - | - | Tetanus | 10 | 15 |
| St. Louis ${ }^{\dagger}$ § | 7 | 35 | Toxic-shock syndrome | 100 | 95 |
| western equine ${ }^{\text {¢ }}$ | - | - | Trichinosis | 5 | 1 |
| Hansen disease (leprosy) ${ }^{\dagger}$ | 61 | 66 | Tularemia ${ }^{\dagger}$ | 60 | 61 |
| Hantavirus pulmonary syndrome ${ }^{\dagger}$ | 17 | 18 | Yellow fever | - | - |

-: No reported cases.

* Incidence data for reporting years 2003 and 2004 are provisional and cumulative (year-to-date).
${ }^{\dagger}$ Not notifiable in all states.
§ Updated weekly from reports to the Division of Vector-Borne Infectious Diseases, National Center for Infectious Diseases (ArboNet Surveillance).
${ }^{\|}$Updated monthly from reports to the Division of HIV/AIDS Prevention - Surveillance and Epidemiology, National Center for HIV, STD, and TB Prevention. Last update August 29, 2004.
** Of 24 cases reported, 11 were indigenous, and 13 were imported from another country.
$\$ \S$ Of 51 cases reported, 31 were indigenous, and 20 were imported from another country.
§ $\ddagger$ II Updated weekly from reports to the Division of Viral and Rickettsial Diseases, National Center for Infectious Diseases (notifiable as of July 2003).
IIT Not previously notifiable.

TABLE II. Provisional cases of selected notifiable diseases, United States, weeks ending September 25, 2004, and September 20, 2003 (38th Week)*

| Reporting area | AIDS |  | Chlamydia ${ }^{\dagger}$ |  | Coccidiodomycosis |  | Cryptosporidiosis |  | Encephalitis/Meningitis West Nile ${ }^{\S}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \hline \text { Cum. } \\ & 2004 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2003 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2004 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2003 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2004 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2003 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2004 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2003 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2004 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2003 \\ & \hline \end{aligned}$ |
| UNITED STATES | 27,094 | 30,856 | 634,401 | 622,372 | 4,273 | 2,621 | 2,356 | 2,321 | 632 | 2,584 |
| NEW ENGLAND | 873 | 1,058 | 22,054 | 20,000 | - | - | 130 | 142 | - | 22 |
| Maine | 15 | 49 | 1,480 | 1,436 | N | N | 17 | 16 | - | - |
| N.H. | 30 | 25 | 1,229 | 1,138 | - | - | 25 | 17 | - | 2 |
| V t. | 13 | 14 | 750 | 768 | - | - | 21 | 24 | - | - |
| Mass. | 289 | 475 | 9,921 | 7,918 | - | - | 42 | 62 | - | 11 |
| R.I. | 98 | 79 | 2,463 | 2,187 | - | - | 4 | 12 | - | 2 |
| Conn. | 428 | 416 | 6,211 | 6,553 | N | N | 21 | 11 | - | 7 |
| MID. ATLANTIC | 5,955 | 6,860 | 78,248 | 77,177 | - | - | 315 | 294 | 8 | 181 |
| Upstate N.Y. | 683 | 672 | 16,267 | 14,111 | N | N | 85 | 81 | 1 | - |
| N.Y. City | 3,288 | 3,508 | 24,052 | 24,934 | - | - | 64 | 86 | 2 | 48 |
| N.J. | 1,014 | 1,206 | 11,389 | 11,441 | - | - | 22 | 13 | - | 17 |
| Pa. | 970 | 1,474 | 26,540 | 26,691 | N | N | 144 | 114 | 5 | 116 |
| E.N. CENTRAL | 2,398 | 2,919 | 107,130 | 112,543 | 12 | 7 | 688 | 710 | 36 | 117 |
| Ohio | 487 | 554 | 25,280 | 30,611 | N | N | 184 | 87 | 4 | 65 |
| Ind. | 276 | 378 | 13,328 | 12,564 | N | N | 73 | 71 | 2 | 14 |
| III. | 1,126 | 1,342 | 28,523 | 34,669 | - | - | 69 | 76 | 21 | 23 |
| Mich. | 386 | 509 | 27,361 | 22,304 | 12 | 7 | 123 | 95 | 5 | 9 |
| Wis. | 123 | 136 | 12,638 | 12,395 | - | - | 239 | 381 | 4 | 6 |
| W.N. CENTRAL | 597 | 567 | 38,951 | 36,017 | 5 | 2 | 288 | 378 | 59 | 652 |
| Minn. | 149 | 110 | 6,965 | 7,900 | N | N | 101 | 108 | 11 | 45 |
| Iowa | 47 | 63 | 4,864 | 3,757 | N | N | 63 | 71 | 7 | 77 |
| Mo. | 263 | 268 | 14,981 | 12,975 | 3 | 1 | 47 | 28 | 19 | 31 |
| N. Dak. | 14 | 3 | 1,086 | 1,149 | N | N | 9 | 11 | 2 | 94 |
| S. Dak. | 7 | 8 | 1,857 | 1,859 | - | - | 23 | 32 | 5 | 145 |
| Nebr.** | 33 | 38 | 3,699 | 3,317 | 2 | 1 | 23 | 12 | 2 | 183 |
| Kans. | 84 | 77 | 5,499 | 5,060 | N | N | 22 | 116 | 13 | 77 |
| S. ATLANTIC | 8,434 | 8,966 | 125,587 | 117,363 | - | 3 | 391 | 255 | 42 | 149 |
| Del. | 108 | 183 | 2,092 | 2,160 | N | N | - | 3 | - | 10 |
| Md. | 991 | 1,147 | 13,956 | 11,724 | - | 3 | 14 | 16 | 5 | 43 |
| D.C. | 523 | 764 | 2,390 | 2,293 | - | - | 11 | 8 | 1 | 3 |
| Va . | 481 | 697 | 15,268 | 13,784 | - | - | 42 | 32 | 2 | 16 |
| W. Va. | 57 | 60 | 2,077 | 1,865 | $N$ | N | 4 | 4 | - | 1 |
| N.C. | 427 | 852 | 21,309 | 19,004 | N | N | 57 | 30 | 2 | 15 |
| S.C.** | 509 | 597 | 14,734 | 10,200 | - | - | 15 | 5 | - | 2 |
| Ga. | 1,185 | 1,375 | 23,432 | 25,691 | - | - | 149 | 87 | 6 | 16 |
| Fla. | 4,153 | 3,291 | 30,329 | 30,642 | N | N | 99 | 70 | 26 | 43 |
| E.S. CENTRAL | 1,336 | 1,424 | 41,237 | 40,649 | 4 | 1 | 99 | 99 | 38 | 75 |
| Ky. | 160 | 111 | 4,088 | 5,934 | N | N | 30 | 20 | 1 | 11 |
| Tenn.** | 533 | 607 | 16,242 | 14,731 | N | N | 28 | 32 | 5 | 17 |
| Ala. | 316 | 344 | 8,839 | 10,677 | - | - | 20 | 37 | 12 | 21 |
| Miss. | 327 | 362 | 12,068 | 9,307 | 4 | 1 | 21 | 10 | 20 | 26 |
| W.S. CENTRAL | 3,181 | 3,116 | 79,112 | 77,403 | 2 | - | 61 | 79 | 110 | 529 |
| Ark. | 134 | 146 | 5,326 | 5,743 | 1 | - | 14 | 12 | 5 | 18 |
| La. | 655 | 417 | 16,584 | 15,021 | 1 | - | 2 | 2 | 42 | 77 |
| Okla. | 133 | 162 | 8,182 | 8,379 | N | N | 16 | 10 | 4 | 43 |
| Tex.** | 2,259 | 2,391 | 49,020 | 48,260 | - | - | 29 | 55 | 59 | 391 |
| MOUNTAIN | 973 | 1,185 | 35,101 | 35,484 | 2,751 | 1,742 | 134 | 100 | 214 | 859 |
| Mont. | 5 | 11 | 1,637 | 1,397 | N | N | 34 | 17 | 1 | 75 |
| Idaho | 15 | 18 | 2,066 | 1,784 | N | N | 19 | 20 | - | - |
| Wyo. | 15 | 5 | 778 | 718 | 2 | 1 | 3 | 3 | 2 | 92 |
| Colo. | 166 | 313 | 8,557 | 9,380 | N | N | 46 | 26 | 32 | 614 |
| N. Mex. | 140 | 90 | 4,212 | 5,465 | 16 | 7 | 10 | 8 | 26 | 72 |
| Ariz. | 385 | 485 | 11,669 | 9,953 | 2,664 | 1,700 | 17 | 5 | 125 | 4 |
| Utah | 54 | 47 | 2,416 | 2,698 | 25 | 6 | 3 | 14 | 5 | - |
| Nev. | 193 | 216 | 3,766 | 4,089 | 44 | 28 | 2 | 7 | 23 | 2 |
| PACIFIC | 3,347 | 4,761 | 106,981 | 105,736 | 1,499 | 866 | 250 | 264 | 125 | - |
| Wash. | 291 | 309 | 12,882 | 11,781 | N | N | 36 | 25 | - | - |
| Oreg. | 219 | 184 | 5,972 | 5,092 | 1,- | - | 29 | 32 | - | - |
| Calif. | 2,727 | 4,184 | 83,469 | 82,160 | 1,499 | 866 | 183 | 207 | 125 | - |
| Alaska | 37 | 13 | 2,663 | 2,792 | - | - | - | - | - | - |
| Hawaii | 73 | 71 | 1,995 | 3,911 | - | - | 2 | - | - | - |
| Guam | 2 | 5 | - | 459 | - | - | - | - | - | - |
| P.R. | 403 | 787 | 2,368 | 1,732 | N | N | N | N | - | - |
| V.I. | 10 | 25 | 143 | 295 | - | - | - | - | - | - |
| Amer. Samoa | U | U | U | U | U | U | U | U | U | U |
| C.N.M.I. | 2 | U | 32 | 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 2003 and 2004 are provisional and cumulative (year-to-date).
${ }^{\dagger}$ Chlamydia refers to genital infections caused by C. trachomatis.
§ Updated weekly from reports to the Division of Vector-Borne Infectious Diseases, National Center for Infectious Diseases (ArboNet Surveillance).
${ }^{1}$ Updated monthly from reports to the Division of HIV/AIDS Prevention - Surveillance and Epidemiology, National Center for HIV, STD, and TB Prevention. Last update August 29, 2004.
** Contains data reported through National Electronic Disease Surveillance System (NEDSS).

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending September 25, 2004, and September 20, 2003 (38th Week)*

| Reporting area | Escherichia coli, Enterohemorrhagic (EHEC) |  |  |  |  |  | Giardiasis |  | Gonorrhea |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 0157:H7 |  | Shiga toxin positive, serogroup non-O157 |  | Shiga toxin positive, not serogrouped |  |  |  |  |  |
|  | $\begin{aligned} & \hline \text { Cum. } \\ & 2004 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2003 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2004 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2003 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2004 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2003 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2004 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2003 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2004 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2003 \\ & \hline \end{aligned}$ |
| UNITED STATES | 1,746 | 1,717 | 160 | 174 | 126 | 112 | 12,582 | 13,222 | 223,392 | 237,739 |
| NEW ENGLAND | 112 | 107 | 36 | 32 | 21 | 11 | 1,129 | 1,067 | 5,176 | 5,114 |
| Maine | 8 | 8 | - | - | - | - | 94 | 123 | 166 | 142 |
| N.H. | 14 | 13 | 5 | 3 | - | - | 27 | 27 | 91 | 87 |
| Vt. | 10 | 13 | - | - | - | - | 122 | 91 | 65 | 62 |
| Mass. | 50 | 43 | 9 | 8 | 21 | 11 | 513 | 537 | 2,344 | 2,012 |
| R.I. | 6 | 1 | 1 | - | - | - | 91 | 82 | 616 | 704 |
| Conn. | 24 | 29 | 21 | 21 | - | - | 282 | 207 | 1,894 | 2,107 |
| MID. ATLANTIC | 196 | 189 | 22 | 18 | 25 | 28 | 2,687 | 2,642 | 25,035 | 29,747 |
| Upstate N.Y. | 91 | 66 | 11 | 9 | 10 | 14 | 976 | 705 | 5,231 | 5,555 |
| N.Y. City | 31 | 6 | - | - | - | - | 710 | 867 | 7,672 | 9,738 |
| N.J. | 29 | 27 | 3 | 2 | 5 | - | 263 | 374 | 4,369 | 5,976 |
| Pa. | 45 | 90 | 8 | 7 | 10 | 14 | 738 | 696 | 7,763 | 8,478 |
| E.N. CENTRAL | 322 | 396 | 32 | 27 | 23 | 14 | 1,726 | 2,284 | 44,212 | 50,341 |
| Ohio | 76 | 74 | 9 | 14 | 17 | 14 | 588 | 627 | 12,805 | 16,175 |
| Ind. | 46 | 66 | - | - | - | - | - | - | 4,832 | 4,828 |
| III. | 49 | 85 | 1 | 2 | 1 | - | 338 | 689 | 12,452 | 15,548 |
| Mich. | 64 | 60 | 5 | - | 5 | - | 515 | 529 | 10,869 | 9,686 |
| Wis. | 87 | 111 | 17 | 11 | - | - | 285 | 439 | 3,254 | 4,104 |
| W.N. CENTRAL | 390 | 287 | 25 | 34 | 16 | 17 | 1,437 | 1,420 | 12,292 | 12,520 |
| Minn. | 91 | 100 | 13 | 16 | 1 | 1 | 546 | 523 | 2,202 | 2,164 |
| Iowa | 108 | 61 | - | - | - | - | 217 | 198 | 854 | 940 |
| Mo. | 66 | 57 | 12 | 9 | 7 | 1 | 358 | 367 | 6,370 | 6,242 |
| N. Dak. | 12 | 8 | - | 3 | 6 | 6 | 18 | 28 | 74 | 58 |
| S. Dak. | 27 | 20 | - | 4 | - | - | 42 | 53 | 209 | 159 |
| Nebr. | 58 | 18 | - | 2 | - | - | 104 | 103 | 728 | 1,084 |
| Kans. | 28 | 23 | - | - | 2 | 9 | 152 | 148 | 1,855 | 1,873 |
| S. ATLANTIC | 129 | 110 | 27 | 35 | 32 | 28 | 2,026 | 1,894 | 56,796 | 58,482 |
| Del. | 2 | 5 | N | N | N | N | 35 | 33 | 652 | 847 |
| Md. | 20 | 12 | 3 | 2 | 1 | 1 | 86 | 76 | 5,960 | 5,597 |
| D.C. | 1 | 1 | - | - | - | - | 46 | 37 | 1,811 | 1,769 |
| Va . | 28 | 30 | 9 | 9 | - | - | 376 | 242 | 6,150 | 6,448 |
| W. Va. | 2 | 3 | - | - | - | - | 27 | 31 | 685 | 636 |
| N.C. | - | - | - | - | 21 | 21 | N | N | 11,232 | 10,977 |
| S.C. | 7 | 1 | ${ }^{-}$ | - | - | - | 45 | 99 | 7,197 | 5,946 |
| Ga. | 20 | 23 | 10 | 5 | - | - | 595 | 614 | 10,175 | 12,745 |
| Fla. | 49 | 35 | 5 | 19 | 10 | 6 | 816 | 762 | 12,934 | 13,517 |
| E.S. CENTRAL | 70 | 60 | 1 | 1 | 8 | 5 | 273 | 260 | 17,888 | 20,156 |
| Ky. | 21 | 20 | 1 | 1 | 5 | 5 | N | N | 1,821 | 2,627 |
| Tenn. | 30 | 26 | - | - | 3 | - | 147 | 117 | 6,047 | 6,085 |
| Ala. | 12 | 11 | - | - | - | - | 126 | 143 | 5,375 | 6,776 |
| Miss. | 7 | 3 | - | - | - | - |  |  | 4,645 | 4,668 |
| W.S. CENTRAL | 60 | 69 | 2 | 4 | 1 | 4 | 239 | 218 | 30,255 | 31,982 |
| Ark. | 11 | 9 | 1 | - | - | - | 96 | 113 | 2,599 | 3,051 |
| La. | 3 | 3 | - | - | - | - | 34 | 9 | 7,695 | 8,545 |
| Okla. | 15 | 21 | - | - | - | - | 106 | 96 | 3,476 | 3,362 |
| Tex. | 31 | 36 | 1 | 4 | 1 | 4 | 3 | - | 16,485 | 17,024 |
| MOUNTAIN | 174 | 206 | 14 | 20 | - | 5 | 1,095 | 1,107 | 7,471 | 7,569 |
| Mont. | 12 | 12 | - | - | - | - | 51 | 77 | 49 | 78 |
| Idaho | 38 | 46 | 7 | 14 | - | - | 128 | 137 | 63 | 55 |
| Wyo. | 7 | 2 | 1 | - | - | 5 | 18 | 16 | 46 | 33 |
| Colo. | 43 | 52 | 2 | 3 | - | 5 | 389 | 315 | 1,900 | 2,097 |
| N. Mex. | 8 | 9 | 1 | 3 | - | - | 54 | 36 | 574 | 891 |
| Ariz. | 20 | 25 | N | N | N | N | 138 | 188 | 2,785 | 2,746 |
| Utah | 31 | 41 | 2 | N | - | - | 235 | 241 | 365 | 264 |
| Nev. | 15 | 19 | 1 | - | - | - | 82 | 97 | 1,689 | 1,405 |
| PACIFIC | 293 | 293 | 1 | 3 | - | - | 1,970 | 2,330 | 24,267 | 21,828 |
| Wash. | 105 | 70 | - | 1 | - | - | 252 | 230 | 1,936 | 1,951 |
| Oreg. | 51 | 84 | 1 | 2 | - | - | 337 | 311 | 842 | 671 |
| Calif. | 126 | 131 | - | - | - | - | 1,267 | 1,662 | 20,574 | 17,948 |
| Alaska | 1 | 2 | - | - | - | - | 56 | 61 | 413 | 404 |
| Hawaii | 10 | 6 | - | - | - | - | 58 | 66 | 502 | 854 |
| Guam | N | N | - | - | - | - | - | 2 | - | 50 |
| P.R. | - | 1 | - | - | - | - | 72 | 206 | 175 | 193 |
| V.I. | , | - | - | - | - |  | - | - | 49 | 65 |
| Amer. Samoa | U | U | U | U | U | U | U | U | U | U |
| C.N.M.I. | - | U | - | U | - | U | - | U | 3 | U |

N: Not notifiable. U:Unavailable. - : No reported cases.

* Incidence data for reporting years 2003 and 2004 are provisional and cumulative (year-to-date).

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending September 25, 2004, and September 20, 2003 (38th Week)*

$\overline{\mathrm{N}: ~ N o t ~ n o t i f i a b l e . ~}$
U: Unavailable.
-: No reported cases.

* Incidence data for reporting years 2003 and 2004 are provisional and cumulative (year-to-date).

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending September 25, 2004, and September 20, 2003 (38th Week)*

| Reporting area | Hepatitis (viral, acute), by type |  |  |  | Legionellosis |  | Listeriosis |  | Lyme disease |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | B |  | C |  |  |  |  |  |  |  |
|  | $\begin{aligned} & \hline \text { Cum. } \\ & 2004 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2003 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2004 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2003 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2004 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2003 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2004 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2003 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2004 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2003 \\ & \hline \end{aligned}$ |
| UNITED STATES | 4,633 | 5,051 | 763 | 773 | 1,301 | 1,503 | 455 | 482 | 12,058 | 15,611 |
| NEW ENGLAND | 258 | 258 | 7 | 6 | 39 | 74 | 25 | 35 | 1,475 | 3,019 |
| Maine | 1 | 1 | - | - | - | 2 | 5 | 6 | 53 | 116 |
| N.H. | 27 | 12 | - | - | 7 | 7 | 2 | 3 | 157 | 118 |
| V t. | 5 | 3 | 3 | 6 | 3 | 5 | 1 | - | 40 | 34 |
| Mass. | 142 | 169 | 3 | - | 6 | 41 | 3 | 14 | 403 | 1,356 |
| R.I. | 5 | 8 | - | - | 8 | 3 | 1 | - | 166 | 402 |
| Conn. | 78 | 65 | 1 | - | 15 | 16 | 13 | 12 | 656 | 993 |
| MID. ATLANTIC | 890 | 570 | 89 | 90 | 354 | 439 | 109 | 102 | 8,273 | 10,378 |
| Upstate N.Y. | 66 | 63 | 10 | 10 | 70 | 109 | 35 | 24 | 2,713 | 3,280 |
| N.Y. City | 79 | 152 | - | - | 32 | 52 | 14 | 17 | , | 181 |
| N.J. | 521 | 141 | - | - | 66 | 63 | 18 | 22 | 2,252 | 2,489 |
| Pa. | 224 | 214 | 79 | 80 | 186 | 215 | 42 | 39 | 3,308 | 4,428 |
| E.N. CENTRAL | 414 | 359 | 80 | 118 | 357 | 310 | 78 | 66 | 780 | 793 |
| Ohio | 94 | 98 | 5 | 7 | 166 | 171 | 34 | 18 | 59 | 48 |
| Ind. | 33 | 28 | 7 | 7 | 58 | 22 | 16 | 5 | 14 | 18 |
| III. | 63 | 51 | 11 | 17 | 18 | 36 | 5 | 18 | - | 63 |
| Mich. | 201 | 148 | 57 | 82 | 108 | 65 | 21 | 17 | 21 | 6 |
| Wis. | 23 | 34 | - | 5 | 7 | 16 | 2 | 8 | 686 | 658 |
| W.N. CENTRAL | 277 | 236 | 178 | 160 | 38 | 56 | 9 | 12 | 367 | 273 |
| Minn. | 39 | 28 | 15 | 7 | 7 | 3 | 3 | 3 | 270 | 189 |
| lowa | 13 | 8 | - | 1 | 4 | 9 | 1 | - | 36 | 38 |
| Mo. | 180 | 162 | 163 | 150 | 18 | 28 | 3 | 5 | 50 | 41 |
| N. Dak. | 4 | 2 | - | - | 2 | 1 | - | - | - | - |
| S. Dak. | - | 2 | - | - | 3 | 2 | - | - | - | - |
| Nebr. | 28 | 20 | - | 2 | 1 | 5 | 2 | 3 | 6 | 2 |
| Kans. | 13 | 14 | - | - | 3 | 8 | - | 1 | 5 | 3 |
| S. ATLANTIC | 1,430 | 1,432 | 133 | 115 | 281 | 387 | 78 | 93 | 990 | 930 |
| Del. | , 26 | - 6 | 1 | - | 12 | 19 | N | N | 119 | 168 |
| Md. | 117 | 91 | 13 | 6 | 55 | 94 | 10 | 15 | 575 | 562 |
| D.C. | 15 | 9 | 1 | - | 8 | 11 | - | 1 | 6 | 5 |
| Va . | 191 | 132 | 16 | 7 | 38 | 72 | 14 | 9 | 117 | 68 |
| W. Va. | 27 | 22 | 19 | 1 | 6 | 14 | 2 | 5 | 15 | 17 |
| N.C. | 138 | 110 | 10 | 10 | 28 | 28 | 16 | 15 | 92 | 66 |
| S.C. | 60 | 120 | 7 | 24 | 3 | 6 | 1 | 2 | 8 | 3 |
| Ga. | 499 | 489 | 15 | 9 | 36 | 29 | 15 | 24 | 9 | 10 |
| Fla. | 357 | 453 | 51 | 58 | 95 | 114 | 20 | 22 | 49 | 31 |
| E.S. CENTRAL | 333 | 335 | 79 | 61 | 64 | 86 | 20 | 21 | 39 | 48 |
| Ky. | 45 | 51 | 23 | 10 | 25 | 35 | 4 | 5 | 13 | 10 |
| Tenn. | 163 | 143 | 32 | 15 | 27 | 28 | 10 | 5 | 16 | 13 |
| Ala. | 54 | 71 | 4 | 5 | 11 | 18 | 4 | 9 | 2 | 7 |
| Miss. | 71 | 70 | 20 | 31 | 1 | 5 | 2 | 2 | 8 | 18 |
| W.S. CENTRAL | 196 | 787 | 100 | 134 | 48 | 50 | 27 | 40 | 35 | 84 |
| Ark. | 58 | 63 | 2 | 3 | - | 2 | 2 | 1 | 8 | - |
| La. | 46 | 95 | 57 | 88 | 4 | 1 | 2 | 2 | 3 | 6 |
| Okla. | 43 | 46 | 3 | 2 | 3 | 6 | - | 2 | - | - |
| Tex. | 49 | 583 | 38 | 41 | 41 | 41 | 23 | 35 | 24 | 78 |
| MOUNTAIN | 343 | 443 | 40 | 39 | 66 | 48 | 19 | 29 | 26 | 12 |
| Mont. | 2 | 13 | 2 | 1 | 1 | 3 | - | 2 | - | - |
| Idaho | 10 | 7 | - | 1 | 7 | 3 | 1 | 2 | 6 | 3 |
| Wyo. | 7 | 27 | 2 | - | 5 | 2 | - | - | 2 | 2 |
| Colo. | 42 | 61 | 8 | 9 | 17 | 9 | 9 | 9 | 3 | - |
| N. Mex. | 11 | 31 | 7 | - | 3 | 2 | - | 2 |  | 1 |
| Ariz. | 184 | 202 | 5 | 7 | 11 | 9 | - | 9 | 6 | 1 |
| Utah | 33 | 38 | 4 | - | 18 | 14 | 2 | 2 | 9 | 2 |
| Nev. | 54 | 64 | 12 | 21 | 4 | 6 | 7 | 3 | - | 3 |
| PACIFIC | 492 | 631 | 57 | 50 | 54 | 53 | 90 | 84 | 73 | 74 |
| Wash. | 39 | 53 | 17 | 16 | 9 | 8 | 8 | 5 | 10 | 2 |
| Oreg. | 88 | 85 | 13 | 10 | N | N | 5 | 4 | 27 | 13 |
| Calif. | 346 | 470 | 23 | 22 | 45 | 45 | 73 | 71 | 34 | 56 |
| Alaska | 14 | 4 | - | - | - | - | - | - | 2 | 3 |
| Hawaii | 5 | 19 | 4 | 2 | - | - | 4 | 4 | N | N |
| Guam | - | 9 | - | 3 | - | - | - | - | - | - |
| P.R. | 42 | 96 | - | - | 1 | - | - | - | N | N |
| V.I. | - | - | - | - | - | - | - | - | - | - |
| Amer. Samoa | U | U | U | U | U | U | U | U | U | U |
| C.N.M.I. | - | U | - | U | - | U | - | U | U | U |

N : Not notifiable.

* Incidence data for reporting years 2003 and 2004 are provisional and cumulative (year-to-date).

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending September 25, 2004, and September 20, 2003 (38th Week)*

| Reporting area | Malaria |  | Meningococcal disease |  | Pertussis |  | Rabies, animal |  | Rocky Mountain spotted fever |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \hline \text { Cum. } \\ & 2004 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2003 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2004 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2003 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2004 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2003 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2004 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2003 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2004 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2003 \\ & \hline \end{aligned}$ |
| UNITED STATES | 916 | 936 | 1,001 | 1,242 | 9,983 | 5,978 | 4,119 | 5,258 | 1,009 | 616 |
| NEW ENGLAND | 56 | 47 | 51 | 58 | 1,106 | 804 | 475 | 439 | 17 | 7 |
| Maine | 5 | 2 | 8 | 5 | 2 | 12 | 36 | 47 | - | - |
| N.H. | 5 | 5 | 4 | 3 | 49 | 74 | 22 | 19 | - | - |
| Vt. | 4 | 1 | 2 | 2 | 60 | 56 | 21 | 28 | - | - |
| Mass. | 26 | 23 | 30 | 36 | 961 | 606 | 204 | 158 | 15 | 7 |
| R.I. | 3 | 1 | 1 | 2 | 22 | 14 | 28 | 52 | 1 | - |
| Conn. | 13 | 15 | 6 | 10 | 12 | 42 | 164 | 135 | 1 | - |
| MID. ATLANTIC | 215 | 250 | 125 | 151 | 2,069 | 658 | 418 | 691 | 64 | 37 |
| Upstate N.Y. | 34 | 41 | 29 | 35 | 1,463 | 290 | 384 | 314 | 2 | - |
| N.Y. City | 94 | 129 | 23 | 36 | 92 | 91 | 5 | 6 | 16 | 12 |
| N.J. | 47 | 50 | 28 | 19 | 167 | 101 | - | 62 | 22 | 16 |
| Pa . | 40 | 30 | 45 | 61 | 347 | 176 | 29 | 309 | 24 | 9 |
| E.N. CENTRAL | 84 | 86 | 139 | 196 | 2,216 | 594 | 124 | 132 | 24 | 17 |
| Ohio | 26 | 14 | 54 | 47 | 419 | 187 | 61 | 44 | 14 | 7 |
| Ind. | 13 | 2 | 21 | 37 | 103 | 44 | 9 | 17 | 4 | 1 |
| III. | 17 | 37 | 12 | 52 | 318 | 63 | 37 | 21 | 2 | 5 |
| Mich. | 18 | 23 | 41 | 35 | 169 | 85 | 15 | 39 | 4 | 4 |
| Wis. | 10 | 10 | 11 | 25 | 1,207 | 215 | 2 | 11 | - | - |
| W.N. CENTRAL | 51 | 39 | 73 | 94 | 1,302 | 289 | 384 | 541 | 93 | 53 |
| Minn. | 18 | 20 | 21 | 21 | 230 | 107 | 65 | 27 | - | 1 |
| Iowa | 3 | 5 | 13 | 18 | 93 | 78 | 88 | 89 | - | 2 |
| Mo. | 17 | 4 | 20 | 38 | 224 | 59 | 35 | 29 | 76 | 43 |
| N. Dak. | 3 | 1 | 2 | 1 | 643 | 6 | 49 | 47 | - | - |
| S. Dak. | 1 | 2 | 2 | 1 | 18 | 3 | 10 | 113 | 4 | 4 |
| Nebr. | 2 | - | 4 | 6 | 25 | 7 | 53 | 91 | 12 | 2 |
| Kans. | 7 | 7 | 11 | 9 | 69 | 29 | 84 | 145 | 1 | 1 |
| S. ATLANTIC | 246 | 233 | 181 | 221 | 474 | 463 | 1,444 | 2,040 | 476 | 346 |
| Del. | 5 | 2 | 4 | 8 | 7 | 7 | 9 | 43 | - | 1 |
| Md. | 52 | 53 | 10 | 24 | 85 | 64 | 157 | 269 | 59 | 81 |
| D.C. | 11 | 8 | 4 | 5 | 3 | - | - | - | - | - |
| Va . | 36 | 28 | 14 | 19 | 135 | 77 | 371 | 404 | 23 | 24 |
| W. Va. | - | 4 | 5 | 4 | 17 | 14 | 50 | 69 | 4 | 5 |
| N.C. | 17 | 19 | 26 | 30 | 62 | 90 | 475 | 603 | 332 | 159 |
| S.C. | 9 | 3 | 11 | 20 | 42 | 92 | 115 | 171 | 16 | 15 |
| Ga. | 46 | 53 | 20 | 24 | 30 | 27 | 265 | 293 | 25 | 54 |
| Fla. | 70 | 63 | 87 | 87 | 93 | 92 | 2 | 188 | 17 | 7 |
| E.S. CENTRAL | 27 | 22 | 48 | 62 | 221 | 122 | 108 | 169 | 144 | 95 |
| Ky. | 4 | 5 | 8 | 14 | 54 | 39 | 20 | 29 | 1 | 1 |
| Tenn. | 7 | 4 | 14 | 15 | 130 | 58 | 31 | 94 | 81 | 50 |
| Ala. | 11 | 7 | 13 | 17 | 25 | 16 | 48 | 45 | 33 | 18 |
| Miss. | 5 | 6 | 13 | 16 | 12 | 9 | 9 | 1 | 29 | 26 |
| W.S. CENTRAL | 81 | 99 | 90 | 138 | 493 | 521 | 861 | 924 | 165 | 53 |
| Ark. | 7 | 4 | 14 | 13 | 54 | 40 | 43 | 25 | 86 | - |
| La. | 3 | 4 | 28 | 34 | 10 | 8 | - | 2 | 5 | - |
| Okla. | 7 | 4 | 8 | 13 | 33 | 62 | 87 | 157 | 70 | 40 |
| Tex. | 64 | 87 | 40 | 78 | 396 | 411 | 731 | 740 | 4 | 13 |
| MOUNTAIN | 36 | 30 | 53 | 65 | 984 | 726 | 170 | 145 | 21 | 7 |
| Mont. | - | - | 3 | 3 | 37 | 5 | 21 | 20 | 3 | 1 |
| Idaho | 1 | 1 | 6 | 6 | 29 | 63 | 7 | 14 | 3 | 2 |
| Wyo. | - | 1 | 3 | 2 | 25 | 123 | 4 | 4 | 4 | 2 |
| Colo. | 13 | 15 | 12 | 18 | 484 | 251 | 40 | 34 | 1 | 2 |
| N. Mex. | 2 | 1 | 6 | 8 | 114 | 52 | 4 | 5 | 2 | - |
| Ariz. | 10 | 7 | 12 | 21 | 155 | 118 | 84 | 54 | 2 | - |
| Utah | 6 | 4 | 4 | 7 | 128 | 88 | 7 | 10 | 6 | - |
| Nev. | 4 | 1 | 7 | 7 | 12 | 26 | 3 | 4 | - | - |
| PACIFIC | 120 | 130 | 241 | 257 | 1,118 | 1,801 | 135 | 177 | 5 | 1 |
| Wash. | 14 | 20 | 24 | 26 | 512 | 494 | - | - | - | - |
| Oreg. | 15 | 9 | 51 | 41 | 325 | 377 | 6 | 6 | 3 | - |
| Calif. | 88 | 96 | 158 | 175 | 257 | 919 | 121 | 163 | 2 | 1 |
| Alaska | - | - | 3 | 4 | 8 | 2 | 8 | 8 | - | - |
| Hawaii | 3 | 5 | 5 | 11 | 16 | 9 | - | - | - | - |
| Guam | - | 1 | - | - | - | 1 | - | - | - | - |
| P.R. | - | 1 | 5 | 8 | 4 | 2 | 44 | 58 | N | N |
| V.I. | - | - | - | - | - | - | - | - | - | - |
| 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.

* Incidence data for reporting years 2003 and 2004 are provisional and cumulative (year-to-date).

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending September 25, 2004, and September 20, 2003 (38th Week)*

| Reporting area | Salmonellosis |  | Shigellosis |  | Streptococcal disease, invasive, group A |  | Streptococcus pneumoniae, invasive |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Drug resistant, all ages | Age < 5 years |  |
|  | $\begin{aligned} & \hline \text { Cum. } \\ & 2004 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2003 \\ & \hline \end{aligned}$ |  |  | $\begin{aligned} & \hline \text { Cum. } \\ & 2004 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2003 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2004 \\ & \hline \end{aligned}$ | $\begin{aligned} & \text { Cum. } \\ & 2003 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2004 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2003 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2004 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2003 \\ & \hline \end{aligned}$ |
| UNITED STATES | 28,750 | 30,440 | 8,370 | 17,029 |  |  | 3,673 | 4,492 | 1,657 | 1,515 | 500 | 516 |
| NEW ENGLAND | 1,562 | 1,577 | 215 | 240 | 153 | 392 | 22 | 75 | 54 | 6 |
| Maine | 70 | 99 | 2 | 6 | 8 | 23 | 2 | - | 3 | - |
| N.H. | 110 | 111 | 6 | 6 | 16 | 27 | - | - | N | N |
| Vt. | 41 | 52 | 2 | 6 | 8 | 18 | 7 | 6 | 1 | 3 |
| Mass. | 894 | 937 | 140 | 167 | 104 | 174 | N | N | 43 | N |
| R.I. | 91 | 86 | 13 | 10 | 17 | 11 | 13 | 10 | 7 | 3 |
| Conn. | 356 | 292 | 52 | 45 | - | 139 |  | 59 | U | U |
| MID. ATLANTIC | 4,116 | 3,600 | 873 | 1,819 | 580 | 785 | 106 | 97 | 84 | 77 |
| Upstate N.Y. | 921 | 814 | 359 | 313 | 191 | 297 | 44 | 53 | 58 | 57 |
| N.Y. City | 934 | 988 | 272 | 309 | 79 | 113 | U | U | U | U |
| N.J. | 638 | 609 | 164 | 298 | 136 | 149 | - | - | 6 | 2 |
| Pa. | 1,623 | 1,189 | 78 | 899 | 174 | 226 | 62 | 44 | 20 | 18 |
| E.N. CENTRAL | 3,774 | 4,242 | 761 | 1,451 | 709 | 1,072 | 368 | 333 | 119 | 221 |
| Ohio | 987 | 1,048 | 129 | 250 | 188 | 253 | 258 | 219 | 60 | 77 |
| Ind. | 450 | 420 | 173 | 120 | 84 | 105 | 110 | 114 | 25 | 21 |
| III. | 1,072 | 1,466 | 251 | 780 | 152 | 272 | - | - | - | 82 |
| Mich. | 657 | 605 | 91 | 196 | 243 | 307 | N | N | N | N |
| Wis. | 608 | 703 | 117 | 105 | 42 | 135 | N | N | 34 | 41 |
| W.N. CENTRAL | 1,800 | 1,768 | 332 | 560 | 245 | 273 | 14 | 11 | 75 | 57 |
| Minn. | 447 | 386 | 50 | 72 | 123 | 134 |  |  | 50 | 40 |
| Iowa | 357 | 272 | 61 | 52 | N | N | N | N | N | N |
| Mo. | 488 | 670 | 130 | 284 | 53 | 60 | 9 | 7 | 10 | 2 |
| N. Dak. | 31 | 27 | 3 | 6 | 10 | 13 | - | 3 | 2 | 4 |
| S. Dak. | 75 | 83 | 9 | 13 | 12 | 20 | 5 | 1 | - | - |
| Nebr. | 119 | 114 | 22 | 69 | 12 | 22 | - | - | 5 | 5 |
| Kans. | 283 | 216 | 57 | 64 | 35 | 24 | N | N | 8 | 6 |
| S. ATLANTIC | 7,785 | 7,252 | 2,079 | 5,218 | 789 | 753 | 885 | 824 | 40 | 16 |
| Del. | 81 | 75 | 6 | 154 | 3 | 6 | 4 | 1 | N | N |
| Md. | 627 | 618 | 113 | 491 | 130 | 184 | - | 14 | 29 | - |
| D.C. | 44 | 32 | 29 | 61 | 8 | 7 | 5 | - | 3 | 6 |
| Va . | 891 | 728 | 119 | 303 | 61 | 90 | N | N | N | N |
| W. Va. | 170 | 104 | 5 | - | 19 | 31 | 88 | 57 | 8 | 10 |
| N.C. | 1,110 | 891 | 242 | 788 | 100 | 91 | N | N | U | U |
| S.C. | 635 | 469 | 269 | 360 | 37 | 36 | 65 | 117 | N | N |
| Ga. | 1,416 | 1,405 | 525 | 945 | 252 | 148 | 263 | 182 | N | N |
| Fla. | 2,811 | 2,930 | 771 | 2,116 | 179 | 160 | 460 | 453 | N | N |
| E.S. CENTRAL | 1,844 | 2,086 | 589 | 684 | 175 | 158 | 109 | 106 | 2 | - |
| Ky. | 265 | 310 | 53 | 81 | 51 | 39 | 23 | 14 | N | N |
| Tenn. | 473 | 547 | 300 | 239 | 124 | 119 | 85 | 92 | N | N |
| Ala. | 484 | 507 | 193 | 220 | - | - | - | - | N | N |
| Miss. | 622 | 722 | 43 | 144 | - | - | 1 | - | 2 | - |
| W.S. CENTRAL | 2,341 | 4,577 | 1,776 | 4,348 | 213 | 213 | 44 | 61 | 90 | 83 |
| Ark. | 426 | 564 | 57 | 86 | 16 | 6 | 6 | 19 | 8 | 5 |
| La. | 511 | 649 | 217 | 366 | 2 | 1 | 38 | 42 | 18 | 17 |
| Okla. | 300 | 332 | 348 | 629 | 52 | 67 | N | N | 35 | 41 |
| Tex. | 1,104 | 3,032 | 1,154 | 3,267 | 143 | 139 | N | N | 29 | 20 |
| MOUNTAIN | 1,785 | 1,616 | 587 | 835 | 399 | 372 | 28 | 4 | 36 | 56 |
| Mont. | 164 | 78 | 4 | 2 | - | 1 | - | - | - | N |
| Idaho | 125 | 134 | 11 | 24 | 8 | 18 | N | N | N | N |
| Wyo. | 43 | 68 | 4 | 6 | 7 | 2 | 9 | 3 | N | N |
| Colo. | 440 | 374 | 123 | 197 | 110 | 107 | - | - | 33 | 43 |
| N. Mex. | 190 | 204 | 86 | 171 | 66 | 90 | 5 | - | - | 9 |
| Ariz. | 544 | 468 | 294 | 353 | 172 | 127 | N | N | N | N |
| Utah | 162 | 159 | 32 | 35 | 34 | 25 | 12 | 1 | 3 | 4 |
| Nev. | 117 | 131 | 33 | 47 | 2 | 2 | 2 | - | - | - |
| PACIFIC | 3,743 | 3,722 | 1,158 | 1,874 | 410 | 474 | 81 | 4 | - | - |
| Wash. | 391 | 398 | 82 | 126 | 53 | 41 | - | - | N | N |
| Oreg. | 321 | 335 | 55 | 183 | N | N | N | N | N | N |
| Calif. | 2,731 | 2,783 | 970 | 1,523 | 281 | 342 | N | N | N | N |
| Alaska | 43 | 53 | 5 | 7 | - | - | - | - | N | N |
| Hawaii | 257 | 153 | 46 | 35 | 76 | 91 | 81 | 4 | - | - |
| Guam | - | 37 | - | 30 | - | - | - | - | - | - |
| P.R. | 169 | 484 | 7 | 20 | N | N | N | N | N | N |
| V.I. | - | - | - | - | - | - |  | - | - | - |
| Amer. Samoa | U | U | U | U | U | U | U | U | U | U |
| C.N.M.I. | 3 | $\cup$ | U | $\cup$ | U | U | U | U | - | U |

[^2]* Incidence data for reporting years 2003 and 2004 are provisional and cumulative (year-to-date).

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending September 25, 2004, and September 20, 2003 (38th Week)*

| Reporting area | Syphilis |  |  |  | Tuberculosis |  | Typhoid fever |  | Varicella (Chickenpox) |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Primary \& secondary |  | Congenital |  |  |  |  |  |  |  |
|  | $\begin{aligned} & \hline \text { Cum. } \\ & 2004 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2003 \\ & \hline \end{aligned}$ | $\begin{aligned} & \text { Cum. } \\ & 2004 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2003 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2004 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2003 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2004 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2003 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2004 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2003 \\ & \hline \end{aligned}$ |
| UNITED STATES | 5,331 | 5,080 | 250 | 328 | 7,385 | 9,048 | 208 | 276 | 13,338 | 11,574 |
| NEW ENGLAND | 142 | 155 | 4 |  | 274 | 300 | 19 | 23 | 591 | 2,316 |
| Maine | 2 | 6 | - | - | - | 18 | - | - | 180 | 642 |
| N.H. | 3 | 15 | 3 | - | 12 | 11 | - | 2 | - |  |
| V t. | - | - | - | - | - | 8 | - | - | 411 | 510 |
| Mass. | 93 | 100 | - | - | 177 | 151 | 13 | 13 |  | 128 |
| R.I. | 18 | 16 | - | - | 23 | 40 | 1 | 2 |  | 4 |
| Conn. | 26 | 18 | 1 | - | 62 | 72 | 5 | 6 | - | 1,032 |
| MID. ATLANTIC | 711 | 601 | 35 | 49 | 1,521 | 1,593 | 45 | 61 | 71 | 26 |
| Upstate N.Y. | 73 | 31 | 2 | 8 | 188 | 201 | 8 | 10 | - | - |
| N.Y. City | 426 | 336 | 11 | 27 | 787 | 827 | 14 | 30 | - | - |
| N.J. | 114 | 118 | 21 | 14 | 299 | 315 | 12 | 17 | $7{ }^{-}$ | $\stackrel{-}{-}$ |
| Pa. | 98 | 116 | 1 | - | 247 | 250 | 11 | 4 | 71 | 26 |
| E.N. CENTRAL | 589 | 689 | 47 | 56 | 854 | 833 | 16 | 31 | 4,120 | 3,939 |
| Ohio | 161 | 157 | 1 | 3 | 149 | 148 | 5 | 2 | 1,055 | 951 |
| Ind. | 42 | 34 | 8 | 10 | 89 | 95 | - | 4 | - | - |
| III. | 226 | 289 | 10 | 18 | 367 | 395 | - | 15 |  | - |
| Mich. | 139 | 194 | 28 | 25 | 185 | 148 | 9 | 10 | 2,673 | 2,364 |
| Wis. | 21 | 15 | - | - | 64 | 47 | 2 | - | 392 | 624 |
| W.N. CENTRAL | 118 | 114 | 3 | 4 | 317 | 342 | 8 | 6 | 125 | 42 |
| Minn. | 15 | 34 | 1 | - | 128 | 138 | 4 | 2 |  | - |
| Iowa | 5 | 8 | - | - | 23 | 21 | - | 2 | N | N |
| Mo. | 73 | 43 | 1 | 4 | 77 | 89 | 2 | 1 | 5 | - |
| N. Dak. | - | 2 | - | - | 3 | - | - | - | 77 | 42 |
| S. Dak. | - | 1 | - | - | 8 | 16 | - | - | 43 |  |
| Nebr. | 5 | 5 | - | - | 27 | 15 | 2 | 1 | - | - |
| Kans. | 20 | 21 | 1 | - | 51 | 63 | - | - | - | - |
| S. ATLANTIC | 1,396 | 1,344 | 36 | 66 | 1,461 | 1,685 | 38 | 39 | 1,739 | 1,634 |
| Del. | 7 | 4 | 1 | - | - | - | - | - | 4 | 21 |
| Md. | 268 | 233 | 5 | 10 | 183 | 162 | 11 | 8 | - | - |
| D.C. | 62 | 37 | 1 | - | 63 | - | 1 | - | 20 | 22 |
| Va . | 70 | 63 | 2 | 1 | 167 | 180 | 5 | 13 | 466 | 442 |
| W. Va. | 2 | 2 | - | - | 14 | 12 | - | - | 1,001 | 956 |
| N.C. | 137 | 118 | 8 | 16 | 223 | 219 | 6 | 6 | N | N |
| S.C. | 95 | 81 | 6 | 7 | 140 | 119 | - | - | 248 | 193 |
| Ga. | 223 | 353 | 1 | 13 | 11 | 382 | 6 | 5 | - | - |
| Fla. | 532 | 453 | 12 | 19 | 660 | 611 | 9 | 7 | - | - |
| E.S. CENTRAL | 302 | 231 | 17 | 11 | 398 | 478 | 6 | 5 | - | - |
| Ky. | 33 | 29 | 1 | 1 | 77 | 85 | 2 | - | - | - |
| Tenn. | 98 | 95 | 8 | 2 | 144 | 164 | 4 | 2 | - | - |
| Ala. | 131 | 85 | 6 | 6 | 144 | 154 | - | 3 |  | - |
| Miss. | 40 | 22 | 2 | 2 | 33 | 75 | - | - | - | - |
| W.S. CENTRAL | 864 | 660 | 39 | 58 | 648 | 1,368 | 14 | 27 | 4,911 | 3,208 |
| Ark. | 34 | 40 | - | 2 | 84 | 67 | - | - | - | - |
| La. | 196 | 100 | - | 1 | - | - | - | - | 45 | 10 |
| Okla. | 19 | 47 | 2 | 1 | 112 | 107 | 1 | - | - | - |
| Tex. | 615 | 473 | 37 | 54 | 452 | 1,194 | 13 | 27 | 4,866 | 3,198 |
| MOUNTAIN | 270 | 231 | 43 | 28 | 351 | 325 | 5 | 6 | 1,781 | 409 |
| Mont. | - | - | - | - | 4 | 5 | . | - | 1,781 | - |
| Idaho | 15 | 4 | 2 | 2 | 4 | 5 | - | 1 | - | - |
| Wyo. | 1 | - | - | - | 2 | 3 | - | - | 27 | 39 |
| Colo. | 27 | 27 | - | 3 | 80 | 68 | 1 | 3 | 1,365 | - |
| N. Mex. | 46 | 46 | 1 | 5 | 18 | 36 | - | - | 68 | 1 |
| Ariz. | 152 | 139 | 40 | 18 | 161 | 157 | 2 | 2 | - | - |
| Utah | 4 | 5 | - | - | 29 | 29 | 1 | - | 321 | 369 |
| Nev. | 25 | 10 | - | - | 53 | 22 | 1 | - | - | - |
| PACIFIC | 939 | 1,055 | 26 | 56 | 1,561 | 2,124 | 57 | 78 | - | - |
| Wash. | 97 | , 56 | - | - | 163 | 181 | 4 | 3 | - | - |
| Oreg. | 21 | 30 | ${ }^{-}$ | ${ }_{5}$ | 58 | 80 | 2 | 3 | - | - |
| Calif. | 817 | 962 | 26 | 55 | 1,235 | 1,738 | 45 | 71 | - | - |
| Alaska | - | 1 | - | - | 28 | 46 | - | - | - | - |
| Hawaii | 4 | 6 | - | 1 | 77 | 79 | 6 | 1 | - | - |
| Guam | - | 1 | - | - | - | 41 | - | - | - | 104 |
| P.R. | 93 | 153 | 5 | 13 | 60 | 75 | - | - | 215 | 423 |
| V.I. | 4 | 1 | - | - | - | - | - | - | - | - |
| Amer. Samoa | U | U | U | U | U | U | U | U | U | U |
| C.N.M.I. | 2 | U | U | U | 10 | U | - | U | - | U |

N : Not notifiable. U: Unavailable. $\quad$ : No reported cases.

* Incidence data for reporting years 2003 and 2004 are provisional and cumulative (year-to-date).

TABLE III. Deaths in 122 U.S. cities,* week ending September 25, 2004 (38th 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 | 488 | 350 | 87 | 32 | 8 | 11 | 35 | S. ATLANTIC | 1,262 | 781 | 317 | 104 | 37 | 18 | 79 |
| Boston, Mass. | 108 | 73 | 19 | 9 | 1 | 6 | 12 | Atlanta, Ga. | 152 | 79 | 43 | 16 | 10 | 4 | 8 |
| Bridgeport, Conn. | 35 | 26 | 6 | 2 | - | 1 | 2 | Baltimore, Md. | 177 | 101 | 55 | 17 | 4 | - | 15 |
| Cambridge, Mass. | 16 | 13 | 1 | - | 2 | - | - | Charlotte, N.C. | 109 | 70 | 23 | 9 | 3 | 3 | 9 |
| Fall River, Mass. | 14 | 11 | 2 | 1 | - | - | - | Jacksonville, Fla. | 149 | 99 | 30 | 11 | 5 | 3 | 9 |
| Hartford, Conn. | 57 | 34 | 15 | 7 | - | 1 | 1 | Miami, Fla. | 109 | 65 | 27 | 14 | 2 | 1 | 4 |
| Lowell, Mass. | 20 | 18 | 2 | - | - | - | 2 | Norfolk, Va. | 49 | 34 | 7 | 1 | 5 | 2 | 3 |
| Lynn, Mass. | 12 | 11 | 1 | - | - | - | 1 | Richmond, Va. | 70 | 47 | 17 | 4 | 2 | - | 1 |
| New Bedford, Mass. | 17 | 13 | 3 | 1 | - | - | 2 | Savannah, Ga. | 58 | 42 | 10 | 4 | 1 | 1 | 5 |
| New Haven, Conn. | 32 | 22 | 7 | 2 | - | 1 | 6 | St. Petersburg, Fla. | 64 | 45 | 15 | 3 | 1 | - | 6 |
| Providence, R.I. | 49 | 39 | 5 | 2 | 3 | - | - | Tampa, Fla. | 212 | 142 | 49 | 14 | 4 | 2 | 15 |
| Somerville, Mass. | 6 | 5 | 1 | - | - | - | - | Washington, D.C. | 91 | 45 | 32 | 10 | - | 2 | 2 |
| Springfield, Mass. | 47 | 27 | 14 | 4 | - | 2 | 6 | Wilmington, Del. | 22 | 12 | 9 | 1 | - | - | 2 |
| Waterbury, Conn. | 16 | 14 | 1 | 1 | - | - | - | E.S. CENTRAL | 836 | 556 | 193 | 59 | 25 | 3 | 35 |
| Worcester, Mass. | 59 | 44 | 10 | 3 | 2 | - | 3 | Birmingham, Ala. | 224 | 150 | 49 | 19 | 5 | 1 | 12 |
| MID. ATLANTIC | 1,889 | 1,302 | 400 | 132 | 25 | 29 | 89 | Chattanooga, Tenn. | 85 | 55 | 21 | 4 | 4 | 1 | 4 |
| Albany, N.Y. | 43 | 31 | 8 | 3 | 1 | - | 2 | Knoxville, Tenn. | 117 | 75 | 31 | 10 | - | 1 | 3 |
| Allentown, Pa. | 18 | 13 | 3 | 1 | - | 1 | - | Lexington, Ky. | 33 | 22 | 9 | 1 | 1 | - | 3 |
| Buffalo, N.Y. | 76 | 47 | 20 | 3 | 3 | 3 | 2 | Memphis, Tenn. | 152 | 98 | 39 | 13 | 2 | - | - |
| Camden, N.J. | 20 | 11 | 5 | 3 | - | 1 | 1 | Mobile, Ala. | 71 | 51 | 14 | 3 | 3 | - | 3 |
| Elizabeth, N.J. | 14 | 11 | 2 | - | 1 | - | - | Montgomery, Ala. | 40 | 30 | 7 | 2 | 1 | - | 5 |
| Erie, Pa. | 39 | 27 | 9 | 2 | - | 1 | 2 | Nashville, Tenn. | 114 | 75 | 23 | 7 | 9 | - | 5 |
| Jersey City, N.J. | 36 | 27 | 7 | 2 | 13 | 16 | 47 | W.S. CENTRAL | 1,407 | 856 | 344 | 120 | 49 | 38 | 62 |
| New York City, N.Y. | 999 | 681 | 216 | 72 | 13 | 16 | 47 | Austin, Tex. | 1,407 | $\begin{array}{r}35 \\ \hline\end{array}$ | r 18 | 10 | 2 | 1 | 5 |
| Newark, N.J. | 54 | 26 | 15 | 12 | - | 1 | 3 | Baton Rouge, La. | 41 | 34 24 | 18 9 | 8 | 2 | 1 | 5 |
| Paterson, N.J. | 14 | 8 | 4 | 1 | 1 | - | - | Corpus Christi, Tex. | 44 | 30 | 10 | 3 | - | 1 | 2 |
| Philadelphia, Pa. | 224 | 170 | 39 | 13 | 2 | - | 9 | Dallas, Tex. | 215 | 117 | 58 | 23 | 8 | 9 | 9 |
| Pittsburgh, Pa.s | 24 | 16 | 7 | - | 1 | - | 1 | El Paso, Tex. | 215 75 | 51 | 16 | 23 7 | 1 | 9 | 2 |
| Reading, Pa. | 17 129 | 10 | 6 | 8 | 1 | , | 3 | Ft. Worth, Tex. | 127 | 76 | 33 | 6 | 5 | 7 | 4 |
| Rochester, N.Y. | 129 | 98 | 20 | 8 | 1 | 2 | 4 | Houston, Tex. | 313 | 179 | 77 | 35 | 15 | 7 | 23 |
| Schenectady, N.Y. | 17 | 12 | 5 | - | - | - | 1 | Little Rock, Ark. | 61 | 35 | 18 | 3 | 2 | 3 | 23 |
| Scranton, Pa. | 29 | 28 | 1 | 8 | 2 | 2 | 1 | New Orleans, La. | 61 | 38 | 17 | 4 | 2 | 3 | - |
| Syracuse, N.Y. | 73 | 41 | 20 | 8 | 2 | 2 | 10 | San Antonio, Tex. | 207 | 145 | 39 | 11 | 7 | 5 | 11 |
| Trenton, N.J. | 22 | 12 | 6 | 3 | - | 1 | - | Shreveport, La. | 62 | 38 | 15 | 1 | 4 | 4 | 6 |
| Utica, N.Y. | 17 | 15 | 2 | - | - | - | 1 | Tulsa, Okla. | 131 | 84 | 34 | 9 | 3 | 1 | - |
| Yonkers, N.Y. | 24 | 18 | 5 | 1 | - | - | 2 | Tulsa, Okla. |  |  |  |  |  |  |  |
| E.N. CENTRAL | 1,912 | 1,237 | 442 | 136 | 48 | 49 | 122 | MOUNTAIN | 880 | 579 | 186 | 68 | 27 | 16 | 51 |
| Akron, Ohio | 50 | 32 | 12 | 2 | 1 | 3 | 6 | Albuquerque, N.M. | 67 | 49 | 13 | 5 | - | - | 5 |
| Canton, Ohio | 48 | 36 | 9 | 3 | - | - | 5 | Boise, Idaho | 51 | 3 | 6 | 2 | - | 2 | 4 |
| Chicago, III. | 315 | 187 | 76 | 30 | 13 | 9 | 22 | olo. Springs, | 10 | 9 | 9 | 6 | 4 | 2 | 4 |
| Cincinnati, Ohio | 55 | 39 | 11 | 3 | 2 | - | 3 | Denver, Colo. | 212 | 129 | 44 | 26 | 10 | 2 | 8 |
| Cleveland, Ohio | 238 | 151 | 67 | 16 | 4 | - | 11 | Las Vegas, Nev. | 212 44 | 129 28 | 44 | 26 1 | 10 1 | 2 | 8 |
| Columbus, Ohio | 176 | 110 | 40 | 17 | 4 | 5 | 15 | Ogden, Utah Phoenix, Ariz. | 44 | 28 | 12 | 1 3 | 1 | 2 | 2 |
| Dayton, Ohio | 97 | 70 | 21 | 2 | 3 | 1 | 14 | Pueblo, Colo. | 42 | 43 34 | 11 6 | 3 1 | 5 1 | 2 | 3 |
| Detroit, Mich. | 151 | 74 | 50 | 12 | 6 | 9 | 10 | Pueblo, Colo. | 42 99 | 34 64 | 22 | 1 | 1 | 2 | 5 |
| Evansville, Ind. | 41 | 33 | 6 | 2 | - | - | - | Salt Lake City, Utah Tucson, Ariz. | 99 154 | 64 108 | 22 30 | 8 | 3 | 4 | 11 3 |
| Fort Wayne, Ind. | 80 | 54 | 19 | 2 | 2 | 3 | 4 | Tucson, Ariz. | 154 | 108 | 30 | 9 | 3 | 4 | 3 |
| Gary, Ind. | 21 | 12 | 4 | 3 | 2 | - | - | PACIFIC | 1,545 | 1,078 | 293 | 99 | 40 | 35 | 110 |
| Grand Rapids, Mich. | 60 | 43 | 8 | 4 | 1 | 4 | 6 | Berkeley, Calif. | 20 | 12 | 4 | 2 | - | 2 | 1 |
| Indianapolis, Ind. | 164 | 113 | 34 | 9 | 1 | 7 | 8 | Fresno, Calif. | 110 | 76 | 23 | 7 | 3 | 1 | 4 |
| Lansing, Mich. | 34 | 23 | 6 | 4 | 1 | - | 1 | Glendale, Calif. | 16 | 15 | 1 | - | - | - | 2 |
| Milwaukee, Wis. | 95 | 65 | 20 | 5 | 3 | 2 | 5 | Honolulu, Hawaii | 63 | 49 | 6 | 5 | 1 | 2 | 6 |
| Peoria, III. | 59 | 28 | 17 | 9 | 3 | 2 | 2 | Long Beach, Calif. | 57 | 43 | 10 | 2 | - | 2 | 8 |
| Rockford, III. | 42 | 27 | 10 | 4 | - | 1 | 2 | Los Angeles, Calif. | 287 | 193 | 50 | 26 | 12 | 6 | 19 |
| South Bend, Ind. | 41 | 35 | 4 | - | 1 | 1 | 3 | Pasadena, Calif. | 24 | 17 | 6 | 1 | - | - | 3 |
| Toledo, Ohio | 77 | 57 | 15 | 3 | 1 | 1 | 5 | Portland, Oreg. | 100 | 74 | 18 | 6 | 2 | - | 6 |
| Youngstown, Ohio | 68 | 48 | 13 | 6 | - | 1 | - | Sacramento, Calif. | 188 | 132 | 44 | 7 | 2 | 3 | 13 |
| W.N. CENTRAL | 528 | 360 | 115 | 25 | 13 | 14 | 32 | San Diego, Calif. | 157 | 110 | 30 | 9 | 2 | 6 | 10 |
| Des Moines, Iowa | U | U | U | U | U | U | U | San Francisco, Calif. | 90 | 66 | 16 | 4 | 3 | 1 | 7 |
| Duluth, Minn. | 23 | 20 | 2 | 1 |  | U | 2 | San Jose, Calif. | 132 | 92 | 27 | 7 | 4 | 2 | 17 |
| Kansas City, Kans. | 24 | 15 | 5 | 2 | - | 2 | 3 | Santa Cruz, Calif. | 27 | 22 | 4 | 1 | - | - | 1 |
| Kansas City, Mo. | 91 | 57 | 27 | 3 | 3 | 1 | 7 | Seattle, Wash. | 109 | 67 | 23 | 12 | 5 | 2 | 7 |
| Lincoln, Nebr. | 44 | 31 | 6 | 3 | 3 | 1 | 4 | Spokane, Wash. | 66 | 44 | 17 | ${ }^{-}$ | 1 | 4 | 6 |
| Minneapolis, Minn. | 47 | 31 | 11 | 4 | - | 1 | 2 | Tacoma, Wash. | 99 | 66 | 14 | 10 | 5 | 4 | - |
| Omaha, Nebr. | 84 | 58 | 19 | 3 | - | 4 | 4 | TOTAL | 10,747 | 7,099 | 2,377 | 775 | 272 | 213 | 615 |
| St. Louis, Mo. | 87 | 59 | 20 | 4 | - | 3 | 5 |  |  |  |  |  |  |  |  |
| St. Paul, Minn. | 54 | 35 | 12 | 2 | 3 | 2 | 2 |  |  |  |  |  |  |  |  |
| Wichita, Kans. | 74 | 54 | 13 | 3 | 4 | - | 3 |  |  |  |  |  |  |  |  |

[^3]* Mortality data in this table are voluntarily reported from 122 cities in the United States, most of which have populations of $\geq 100,000$. A death is reported by the place of its occurrence and by the week that the death certificate was filed. Fetal deaths are not included.
$\dagger$ Pneumonia and influenza.
§ Because of changes in reporting methods in this Pennsylvania city, these numbers are partial counts for the current week. Complete counts will be available in 4 to 6 weeks.
" Total includes unknown ages.

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[^0]:    *Arizona, California, Colorado, Connecticut, Delaware, Florida, Georgia, Kansas, Maryland, Michigan, Minnesota, New Jersey, New Mexico, South Carolina, Texas, and Washington.

[^1]:    *As of 3 a.m., Mountain Standard Time, September 28, 2004.

[^2]:    N : Not notifiable.
    U:Unavailable.

[^3]:    U: Unavailable. -:No reported cases

