

Weekly

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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 ≥18 years who had HIV infection or AIDS recently reported to the 16 surveillance sites.

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 (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 ≥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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<sup>\*</sup> Arizona, California, Colorado, Connecticut, Delaware, Florida, Georgia, Kansas, Maryland, Michigan, Minnesota, New Jersey, New Mexico, South Carolina, Texas, and Washington.

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## Division of Public Health Surveillance and Informatics Notifiable Disease Morbidity and 122 Cities Mortality Data

Robert F. Fagan Deborah A. Adams Felicia J. Connor Lateka Dammond Rosaline Dhara Donna Edwards Patsy A. Hall Pearl C. Sharp 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%; 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 HIV/AIDS Surveillance Project Group, participating state and local health departments. ML Campsmith, DDS, 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

					vith a male p ding 12 mon	
			Y	es	1	No
Characteristic	No.†	(%)	No.†	(%)	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)
<u>≥</u> 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 yrs	324	(16.8)	159	(49.1)	165	(50.9)
≥12 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	v	. ,		. ,		
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. Numbers might not sum to total because of missing data.

<sup>§</sup> Includes those who self-identified as multiple races.

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 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

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 ≥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

	Insertive		ourse at last sexua without condom)		Did not use a condom at last insertive anal inte				
Partner HIV serostatus			Crude odds ratio	(95% Cl†)	No.	(95% CI)			
HIV-positive	196/406	(48)	referent		68/194 <sup>§</sup>	(35)	referent		
HIV-negative	155/446	(35)	0.6	(0.4–0.8) <sup>¶</sup>	21/155	(14)	0.3	(0.2–0.5)†	
Unknown serostatus	105/295	(36)	0.6	(0.4–0.8) <sup>¶</sup>	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.

<sup>T</sup>Confidence interval.

 ${}^{\$}_{\P}$ Data are missing for two MSM.

Statistically different from referent group (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°F (39.8°C). 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.

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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.

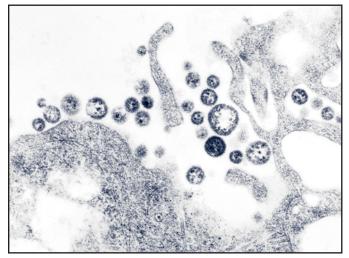
# Investigation

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

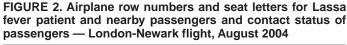
- Sharing a room or sitting in a vehicle within 6 feet (i.e., coughing distance) of a potentially infectious patient without direct contact with a potentially infectious material.
- Providing routine medical care while using personal protective equipment (PPE) appropriately.
- Routine cleaning and laundry 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.

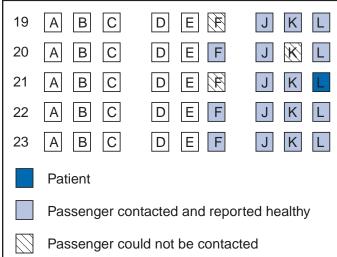
**Source:** Special Pathogens Branch, Division of Viral and Rickettsial Diseases, National Center for Infectious Diseases, CDC.

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  $\geq 101^{\circ}$ F ( $\geq 38.3^{\circ}$ C) 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





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  $\geq 101^{\circ}$ F ( $\geq 38.3^{\circ}$ C) 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.

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**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 hardto-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 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 cases	No. of deaths	Case- fatality rate
Fur Baranga, West Darfur	March 1–April 27	48	NA*	NA
El-Mashtal, North Darfur	March 27–June 16	521	88	17%
Habilla, West Darfur	April 1–June 3	142	20	14%
* Data not available	9			

\* Data not available.

Health Organization Eastern Mediterranean Regional Office, Cairo, Egypt. S Haithami, MD, H El-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

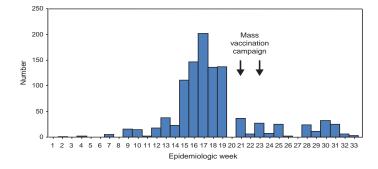
State	Total target population*	Target population in accessible areas*	No. vaccinated	% coverage in accessible areas	% coverage of total population
South Darfur	1,260,324	1,197,308	1,216,590	102	97
North Darfur	657,774	512,058	490,166	96	75
West Darfur	688,984	461,619	301,446	65	44
Total	2,607,082	2,170,985	2,008,202	93	77

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

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

**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.



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

The measles control activities in Darfur are funded, in part, by U.K. Dept for International Development, European Commission Health Office, Government of Japan, Government of Italy, U.S. Agency for International Development, CDC.

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

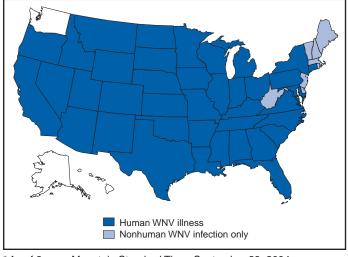
During September 22–28, a total of 180 cases of human West Nile virus (WNV) illness were reported in the District of Columbia (DC) and 24 states (Alabama, Arizona, California, Georgia, Illinois, Iowa, Kansas, Kentucky, Louisiana, Maryland, Michigan, Minnesota, Mississippi, Missouri, Montana, Nebraska, 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\*



\* As of 3 a.m., Mountain Standard Time, September 28, 2004.

TABLE. Number of human cases of West Nile virus (WNV) illness, by area — United States, 2004\*

lliness, by	area — United	J State	5, 2004		
		West	Other	Total	
	Neuroinvaşive	Nile	clinical/	reported	
Area	disease <sup>†</sup>	fever§	unspecified <sup>¶</sup>	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 C	olumbia 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		42	4	72	4
New York	3	2	0	5	0
North Caroli		0	0	2	0
North Dakot		17	0	19	1
Ohio	4	1	0	5	1
Oklahoma	4	1	0	5	1
Oregon	0	1	0	1	0
Pennsylvani		2	0	7	0
South Carol		1	0	1	0
South Dako		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.

<sup>†</sup> Cases with neurologic manifestations (i.e., West Nile meningitis, West Nile encephalitis, and West Nile myelitis).

§ Cases with no evidence of neuroinvasion.

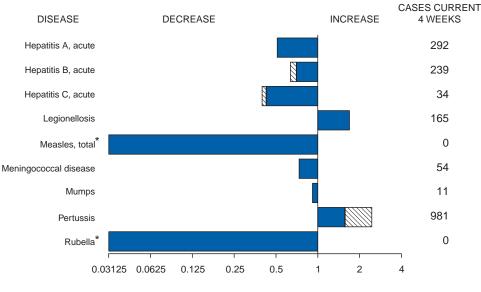
<sup>¶</sup> Illnesses for which sufficient clinical information was not provided.

\*\* 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



Ratio (Log scale)<sup>†</sup>

Beyond historical limits

\* No measles or rubella cases were reported for the current 4-week period yielding a ratio for week 38 of zero (0). † Ratio of current 4-week total to mean of 15 4-week totals (from previous, comparable, and subsequent 4-week periods for the past 5 years). The point where the hatched area begins is based on the mean and two standard deviations of these 4-week totals.

#### TABLE I. Summary of provisional cases of selected notifiable diseases, United States, cumulative, week ending September 25, 2004 (38th Week)\*

		Cum. 2004	Cum. 2003		Cum. 2004	Cum. 2003
Anthrax	Γ	-	-	Hemolytic uremic syndrome, postdiarrheal <sup>†</sup>	101	109
Botulism:		-	-	HIV infection, pediatric <sup>+1</sup>	113	149
foodborne		10	9	Measles, total	24**	51††
infant		54	51	Mumps	145	160
other (wound & u	nspecified)	7	20	Plague	1	1
Brucellosis <sup>†</sup>		79	69	Poliomyelitis, paralytic	-	-
Chancroid		27	43	Psittacosis <sup>†</sup>	8	9
Cholera		4	1	Q fever <sup>†</sup>	53	54
Cyclosporiasis <sup>†</sup>		193	58	Rabies, human	3	1
Diphtheria		-	-	Rubella	15	6
Ehrlichiosis:		-	-	Rubella, congenital syndrome	-	1
human granulocy	tic (HGE) <sup>†</sup>	202	237	SARS-associated coronavirus disease <sup>† §§</sup>	-	8
human monocytic	(HME) <sup>†</sup>	194	182	Smallpox <sup>†</sup> <sup>¶</sup>	-	NA
human, other and	unspecified	19	37	Staphylococcus aureus:	-	-
Encephalitis/Meningitis:		-	-	Vancomycin-intermediate (VISA)† 11	4	NA
California serogro	oup viral†§	53	95	Vancomycin-resistant (VRSA)† 11	2	NA
eastern equine		3	13	Streptococcal toxic-shock syndrome <sup>†</sup>	82	129
Powassan <sup>†§</sup>		-	-	Tetanus	10	15
St. Louis⁺§		7	35	Toxic-shock syndrome	100	95
western equine <sup>†§</sup>		-	-	Trichinosis	5	1
Hansen disease (leprosy) <sup>†</sup>		61	66	Tularemia <sup>†</sup>	60	61
Hantavirus pulmonary syndrom	e†	17	18	Yellow fever	-	-

-: No reported cases.

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

Not notifiable in all states. §

Updated weekly from reports to the Division of Vector-Borne Infectious Diseases, National Center for Infectious Diseases (ArboNet Surveillance).

<sup>1</sup> 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.

<sup>++</sup> Of 51 cases reported, 31 were indigenous, and 20 were imported from another country.

So Up a cases reported, ST were integenous, and 20 were imported from another assance. So Updated weekly from reports to the Division of Viral and Rickettsial Diseases, National Center for Infectious Diseases (notifiable as of July 2003).

Not previously notifiable.

(38th Week)*									Encephaliti	s/Meningitis
	AID		Chlan	,		lomycosis	Cryptospo		Wes	t Nile <sup>§</sup>
Reporting area	Cum. 2004 <sup>¶</sup>	Cum. 2003	Cum. 2004	Cum. 2003	Cum. 2004	Cum. 2003	Cum. 2004	Cum. 2003	Cum. 2004	Cum. 2003
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 N.H.	15 30	49 25	1,480 1,229	1,436 1,138	N	N	17 25	16 17	-	- 2
Vt. Mass.	13 289	14 475	750 9,921	768 7,918	-	-	21 42	24 62	-	- 11
R.I.	98	79	2,463	2,187	-	-	4	12	-	2
Conn. MID. ATLANTIC	428 5,955	416 6,860	6,211 78,248	6,553 77,177	N	N	21 315	11 294	- 8	7 181
Upstate N.Y.	683	672	16,267	14,111	Ν	Ν	85	81	1	-
N.Y. City N.J.	3,288 1,014	3,508 1,206	24,052 11,389	24,934 11,441	-	-	64 22	86 13	2	48 17
Pa.	970	1,474	26,540	26,691	Ν	Ν	144	114	5	116
E.N. CENTRAL Ohio	2,398 487	2,919 554	107,130 25,280	112,543 30,611	12 N	7 N	688 184	710 87	36 4	117 65
Ind.	276	378	13,328	12,564	Ν	N	73	71	2	14
III. Mich.	1,126 386	1,342 509	28,523 27,361	34,669 22,304	- 12	- 7	69 123	76 95	21 5	23 9
Wis.	123	136	12,638	12,395	-	-	239	381	4	6
W.N. CENTRAL Minn.	597 149	567 110	38,951 6,965	36,017 7,900	5 N	2 N	288 101	378 108	59 11	652 45
Iowa Mo.	47 263	63 268	4,864 14,981	3,757 12,975	N 3	N 1	63 47	71 28	7 19	77 31
N. Dak.	14	3	1,086	1,149	N	Ň	9	11	2	94
S. Dak. Nebr.**	7 33	8 38	1,857 3,699	1,859 3,317	- 2	- 1	23 23	32 12	5 2	145 183
Kans.	84	77	5,499	5,060	Ν	Ν	22	116	13	77
S. ATLANTIC Del.	8,434 108	8,966 183	125,587 2,092	117,363 2,160	N	3 N	391	255 3	42	149 10
Md.	991	1,147	13,956	11,724	-	3	14	16	5	43
D.C. Va.	523 481	764 697	2,390 15,268	2,293 13,784	-	-	11 42	8 32	1 2	3 16
W. Va. N.C.	57 427	60 852	2,077 21,309	1,865 19,004	N N	N N	4 57	4 30	- 2	1 15
S.C.**	509	597	14,734	10,200	-	-	15	5	-	2
Ga. Fla.	1,185 4,153	1,375 3,291	23,432 30,329	25,691 30,642	N	N	149 99	87 70	6 26	16 43
E.S. CENTRAL	1,336	1,424	41,237	40,649	4	1	99	99	38	75
Ky. Tenn.**	160 533	111 607	4,088 16,242	5,934 14,731	N N	N N	30 28	20 32	1 5	11 17
Ala. Miss.	316 327	344 362	8,839 12,068	10,677 9,307	- 4	- 1	20 21	37 10	12 20	21 26
W.S. CENTRAL	3,181	3,116	79,112	77,403	2	-	61	79	110	529
Ark. La.	134 655	146 417	5,326 16,584	5,743 15,021	1 1	-	14 2	12 2	5 42	18 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 Mont.	973 5	1,185 11	35,101 1,637	35,484 1,397	2,751 N	1,742 N	134 34	100 17	214 1	859 75
Idaho Wyo.	15 15	18 5	2,066 778	1,784 718	N 2	N 1	19 3	20 3	- 2	- 92
Colo.	166	313	8,557	9,380	N	N	46	26	32	614
N. Mex. Ariz.	140 385	90 485	4,212 11,669	5,465 9,953	16 2,664	7 1,700	10 17	8 5	26 125	72 4
Utah Nev.	54 193	47 216	2,416 3,766	2,698 4,089	25 44	6 28	3 2	14 7	5 23	- 2
PACIFIC	3,347	4,761	106,981	105,736	1,499	866	250	264	125	-
Wash. Oreg.	291 219	309 184	12,882 5,972	11,781 5,092	N	N	36 29	25 32	-	-
Calif.	2,727	4,184	83,469	82,160	1,499	866	183	207	125	-
Alaska Hawaii	37 73	13 71	2,663 1,995	2,792 3,911	-	-	- 2	-	-	-
Guam	2	5	-	459	-	-	-	-	-	-
P.R. V.I.	403 10	787 25	2,368 143	1,732 295	N	N	N	N	-	-
Amer. Samoa	U 2	U	U	UU	U	U U	U	U U	U	U U
C.N.M.I.	۷	U	32	U	-	U	-	U	-	U

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

N: Not notifiable.

<u>1</u>
 <u>1</u>

\*\* Contains data reported through National Electronic Disease Surveillance System (NEDSS).

# **MMWR**

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

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

# **MMWR**

(38th Week)*										
				Haemophilus	<i>influenzae</i> , inv	asive			Нер	atitis
	All	ages			Age <5	5 years			(viral, acut	te), by type
		rotypes		ype b	Non-ser	otype b		n serotype		Α
Reporting area	Cum. 2004	Cum. 2003	Cum. 2004	Cum. 2003	Cum. 2004	Cum. 2003	Cum. 2004	Cum. 2003	Cum. 2004	Cum. 2003
UNITED STATES	1,388	1,393	10	2000	68	89	140	150	4,100	4,756
NEW ENGLAND	119	97	1	2	5	5	3	3	769	231
Maine	12	4	-	-	-	-	-	1	10	8
N.H. Vt.	14 6	11 7	-	1	2	-	- 1	-	17 8	13 6
Mass. R.I.	49 3	45 5	1	1	-	5	2	1	655 19	129
Conn.	35	25	-	-	3	-	-	1	60	11 64
MID. ATLANTIC	282	302	-	1	4	3	32	38	465	968
Upstate N.Y. N.Y. City	96 59	111 51	-	1	4	3	5 11	8 10	68 182	87 346
N.J.	57	56	-	-	-	-	3	8	93	160
Pa.	70	84	-	-	-	-	13	12	122	375
E.N. CENTRAL Ohio	218 81	233 58	-	3	6 2	3	34 14	41 10	399 38	459 83
Ind.	39	36	-	-	4	-	1	4	81	48
III. Mich.	50 17	87 19	-	- 3	-	- 3	11 6	20 1	132 119	140 148
Wis.	31	33	-	-	-	-	2	6	29	40
W.N. CENTRAL Minn.	89 37	87 34	2 1	-	3 3	6 6	9	12 2	142 28	133 37
lowa	1	-	1	-	-	-	-	-	38	20
Mo. N. Dak.	33 3	35 2	-	-	-	-	6	9	44 1	42
S. Dak.	-	1	-	-	-	-	-	-	3	-
Nebr. Kans.	8 7	1 14	-	-	-	-	1 2	- 1	8 20	11 23
S. ATLANTIC	346	303	_	1	18	12	27	16	808	1,130
Del.	-	-	-	-	-	-	-	-	5	6
Md. D.C.	49	69 1	-	-	4	5	-	-	87 5	113 30
Va.	28	39	-	-	-	-	1	5	95	65
W.Va. N.C.	13 44	14 33	-	-	- 5	- 3	3 1	- 1	4 75	13 71
S.C. Ga.	4 120	5 57	-	-	-	-	- 20	1 6	24 290	30 505
Fla.	88	85	-	1	9	4	20	3	223	297
E.S. CENTRAL	57	57	1	1	-	2	7	5	133	128
Ky. Tenn.	5 37	5 31	-	-	-	1 1	- 5	- 3	29 76	25 75
Ala.	12	19	1	1	-	-	2	2	7	14
Miss.	3	2	-	-	-	-	-	-	21	14
W.S. CENTRAL Ark.	58 2	64 5	1	2	6	10 1	1	4	284 54	465 23
La. Okla.	10 45	19 37	-	-	- 6	2 7	1	4	33 19	37 9
Tex.	45	3	1	2	-	-		-	178	396
MOUNTAIN	153	129	3	6	19	22	21	13	357	355
Mont. Idaho	- 5	- 4	-	-	-	-	- 2	- 1	5 17	7 12
Wyo.	1	1	-	-	-	-	1	-	4	1
Colo. N. Mex.	38 30	25 15	-	-	- 6	- 4	5 5	5 1	43 17	54 17
Ariz.	56	64	-	6	8	9	4	4	219	198
Utah Nev.	12 11	10 10	2 1	-	2 3	5 4	3 1	2	41 11	26 40
PACIFIC	66	121	2	4	7	26	6	18	743	887
Wash. Oreg.	3 34	9 30	2	-	-	6	1 2	2 2	44 54	44 45
Calif.	17	53	-	4	7	20	1	9	621	780
Alaska Hawaii	4 8	18 11	-	-	-	-	1 1	5	5 19	8 10
Guam	-	-	-	-	-	-	-	-	-	2
P.R.	-	-	-	-	-	-	-	-	19	61
V.I. Amer. Samoa	- U	- U	- U	- U	- U	- U	- U	U	- U	- U
C.N.M.I.	-	Ŭ	-	Ŭ	-	Ŭ	-	Ŭ	-	Ŭ

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

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

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

(38th Week)*				,	,		• •		•	,
	Mal	aria	Mening dise		Pertu	ıssis	Rabies	, animal		lountain d fever
Reporting area	Cum. 2004	Cum. 2003	Cum. 2004	Cum. 2003	Cum. 2004	Cum. 2003	Cum. 2004	Cum. 2003	Cum. 2004	Cum. 2003
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 N.H.	5 5	2 5	8 4	5 3	2 49	12 74	36 22	47 19	-	-
Vt. Mass.	4 26	1 23	2 30	2 36	60 961	56 606	21 204	28 158	- 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 Upstate N.Y.	215 34	250 41	125 29	151 35	2,069 1,463	658 290	418 384	691 314	64 2	37
N.Y. City N.J.	94 47	129 50	23 28	36 19	92 167	91 101	5	6 62	16 22	12 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 Ind.	26 13	14 2	54 21	47 37	419 103	187 44	61 9	44 17	14 4	7 1
III. Mich.	17 18	37 23	12 41	52 35	318 169	63 85	37 15	21 39	2 4	5 4
Wis.	10	10	11	25	1,207	215	2	11	-	-
W.N. CENTRAL Minn.	51 18	39 20	73 21	94 21	1,302 230	289 107	384 65	541 27	93	53 1
lowa	3	5	13	18	93	78	88	89	-	2
Mo. N. Dak.	17 3	4 1	20 2	38 1	224 643	59 6	35 49	29 47	76	43
S. Dak. Nebr.	1	2	2 4	1 6	18 25	3 7	10 53	113 91	4 12	4 2
Kans.	7	7	11	9	23 69	29	84	145	1	1
S. ATLANTIC	246	233	181	221	474	463	1,444	2,040	476	346
Del. Md.	5 52	2 53	4 10	8 24	7 85	7 64	9 157	43 269	59	1 81
D.C. Va.	11 36	8 28	4 14	5 19	3 135	- 77	- 371	- 404	- 23	- 24
W.Va.	17	4	5	4 30	17	14 90	50 475	69	4	5
N.C. S.C.	9	19 3	26 11	20	62 42	92	115	603 171	332 16	159 15
Ga. Fla.	46 70	53 63	20 87	24 87	30 93	27 92	265 2	293 188	25 17	54 7
E.S. CENTRAL	27	22	48	62	221	122	108	169	144	95
Ky. Tenn.	4 7	5 4	8 14	14 15	54 130	39 58	20 31	29 94	1 81	1 50
Ala.	11	7	13	17	25	16	48	45	33	18
Miss. W.S. CENTRAL	5 81	6 99	13 90	16 138	12 493	9 521	9 861	1 924	29 165	26 53
Ark.	7	4	14	13	54	40	43	25	86	-
La. Okla.	3 7	4 4	28 8	34 13	10 33	8 62	- 87	2 157	5 70	40
Tex.	64	87	40	78	396	411	731	740	4	13
MOUNTAIN Mont.	36	30	53 3	65 3	984 37	726 5	170 21	145 20	21 3	7 1
Idaho	1	1 1	6 3	6 2	29 25	63	7 4	14 4	3	2
Wyo. Colo.	13	15	12	18	484	123 251	40	34	1	2
N. Mex. Ariz.	2 10	1 7	6 12	8 21	114 155	52 118	4 84	5 54	2 2	-
Utah	6	4	4 7	- 7	128	88	7	10	6	-
Nev. PACIFIC	4 120	1 130	7 241	257	12 1,118	26 1,801	3 135	4 177	5	-
Wash.	14	20	24	26	512	494	-	-	-	-
Oreg. Calif.	15 88	9 96	51 158	41 175	325 257	377 919	6 121	6 163	3 2	-
Alaska Hawaii	- 3	- 5	3 5	4 11	8 16	2 9	8	8	-	-
Guam	-	1	-	-	-	9 1	-	-	-	-
P.R.	-	1	5	8	4	2	44	58	Ν	Ν
V.I. Amer. Samoa	U	U	U	U	U	- U	- U	- U	- U	U
C.N.M.I.	-	U	-	U	-	U	-	U	-	U

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

# **MMWR**

(38th Week)*					Characteristic			tococcus pne	<i>umoniae</i> , inv	asive
	Salmon	ellosis	Shige	llosis	Streptococc invasive,		Drug res all ag		Age <	5 years
Reporting area	Cum. 2004	Cum. 2003	Cum. 2004	Cum. 2003	Cum. 2004	Cum. 2003	Cum. 2004	Cum. 2003	Cum. 2004	Cum. 2003
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 N.H.	70 110	99 111	2 6	6 6	8 16	23 27	2	-	3 N	N
Vt. Mass.	41 894	52 937	2 140	6 167	8 104	18 174	7 N	6 N	1 43	3 N
R.I.	91	86	13	10	17	11	13	10	7	3
Conn.	356	292	52	45	-	139	-	59	U	U
MID. ATLANTIC Upstate N.Y.	4,116 921	3,600 814	873 359	1,819 313	580 191	785 297	106 44	97 53	84 58	77 57
N.Y. City N.J.	934 638	988 609	272 164	309 298	79 136	113 149	U	U	U 6	U 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 Ind.	987 450	1,048 420	129 173	250 120	188 84	253 105	258 110	219 114	60 25	77 21
III. Mich.	1,072 657	1,466	251	780 196	152 243	272 307	- N	N	N	82 N
Wis.	608	605 703	91 117	105	42	135	N	N	34	41
W.N. CENTRAL	1,800	1,768	332	560	245	273	14	11	75	57
Minn. Iowa	447 357	386 272	50 61	72 52	123 N	134 N	N	N	50 N	40 N
Mo.	488	670	130	284	53	60	9	7	10	2
N. Dak. S. Dak.	31 75	27 83	3 9	6 13	10 12	13 20	- 5	3 1	2	4
Nebr. Kans.	119 283	114 216	22 57	69 64	12 35	22 24	N	N	5 8	5 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. D.C.	627 44	618 32	113 29	491 61	130 8	184 7	- 5	14	29 3	- 6
Va. W. Va.	891 170	728 104	119 5	303	61 19	90 31	N 88	N 57	N 8	N 10
N.C.	1,110	891	242	788	100	91	N	N	U	U
S.C. Ga.	635 1,416	469 1,405	269 525	360 945	37 252	36 148	65 263	117 182	N N	N N
Fla.	2,811	2,930	771	2,116	179	160	460	453	N	N
E.S. CENTRAL	1,844 265	2,086 310	589 53	684 81	175 51	158 39	109 23	106 14	2 N	N
Ky. Tenn.	473	547	300	239	124	119	85	92	N	N
Ala. Miss.	484 622	507 722	193 43	220 144	-	-	- 1	-	N 2	N
W.S. CENTRAL	2,341	4,577	1,776	4,348	213	213	44	61	90	83
Ark.	426	564	57	86	16 2	6 1	6	19 42	8	5
La. Okla.	511 300	649 332	217 348	366 629	52	67	38 N	N	18 35	17 41
Tex.	1,104	3,032	1,154	3,267	143	139	N	N	29	20
MOUNTAIN Mont.	1,785 164	1,616 78	587 4	835 2	399	372 1	28	4	36	56
Idaho	125 43	134 68	11 4	24 6	8 7	18 2	N 9	N 3	Ν	Ν
Wyo. Colo.	440	374	123	197	110	107	-	-	33	43
N. Mex. Ariz.	190 544	204 468	86 294	171 353	66 172	90 127	5 N	- N	N	9 N
Utah	162	159	32	35	34	25	12	1	3	4
Nev. PACIFIC	117 2 742	131	33	47	2 410	2 474	2	-	-	-
Wash.	3,743 391	3,722 398	1,158 82	1,874 126	53	41	81	4	N	N
Oreg. Calif.	321 2,731	335 2,783	55 970	183 1,523	N 281	N 342	N N	N N	N N	N N
Alaska	43	53	5	7	-	-	-	-	N	N
Hawaii	257	153	46	35	76	91	81	4	-	-
Guam P.R.	169	37 484	- 7	30 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	U	-	U	-	U	-	U	0	U

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

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

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

#### TABLE III. Deaths in 122 U.S. cities,\* week ending September 25, 2004 (38th Week)

Reporting Area         Loge         Letter Vision Area         Loge         Loge <thloge< th="">         Loge         <thloge< th=""> <th< th=""><th>TABLE III. Deatils</th><th>  122 0.</th><th colspan="4">All causes, by age (years)</th><th></th><th></th><th>All</th><th colspan="7">All causes, by age (years)</th></th<></thloge<></thloge<>	TABLE III. Deatils	122 0.	All causes, by age (years)						All	All causes, by age (years)						
EVE         EVE         EVE         EVE         EVE         AUG         48         30         67         32         6         11         35         6         11         35         6         11         37         16         10         37         16         10         37         16         10         37         16         10         16         11         17         10         15         17         14         1         1         2         11         11         2         11         11         2         11 <th>Reporting Area</th> <th></th> <th>&gt;65</th> <th>45-64</th> <th>25-44</th> <th>1_24</th> <th>د1</th> <th></th> <th>Reporting Area</th> <th></th> <th>&gt;65</th> <th>45-64</th> <th>25-44</th> <th>1_24</th> <th>1</th> <th>P&amp;I<sup>†</sup> Total</th>	Reporting Area		>65	45-64	25-44	1_24	د1		Reporting Area		>65	45-64	25-44	1_24	1	P&I <sup>†</sup> Total
Boston, Mass.         108         73         10         9         1         6         12         Atlanta, Ga.         152         79         43         16         10         4           Cambridge, Mass.         16         11         1         1         2         2         1         1         Charlotta, NC, Ta         100         06         23         3         3         3         3         1         1         Charlotta, NC, Ta         100         06         22         1         4         -         1         Charlotta, NC, Ta         100         4         7         1         5         2         1         1         -         -         2         Norfok, Va.         49         3         7         1         5         2         -         1         Norfok, Va.         49         14         4         1         -         -         -         Samarnah, Ga.         56         10         -         2         -         3         Samarnah, Ga.         10         1         -         -         -         Norfok, Va.         10         1         -         -         -         Washington, D.C.         14         4         1         -         -										-						79
Cambridge, Mass. 16 13 1 - 2																8
Fail River, Mass.       14       11       2       1       -	,	35					1				101			4		15
Hentrody, Conn.         57         34         15         7         -         1         1         Mam, Fia.         109         65         27         14         2         1           Lyon, Mass.         20         11         1         -         -         1         2         Richmond, Van.         70         44         2         -           Lyon, Mass.         12         11         1         -         -         1         Richmond, Van.         70         44         2         -           Providence, R.I.         49         39         5         2         3         -         -         Tampa, Fia.         212         9         1         -         -           Springfield, Mass.         47         27         14         4         -         2         -         Birmingham, Ria.         242         14         4         1         -         -         -         Worester, Mass.         13         3         3         1         -         -         Group min, Ria.         243         44         4         1         -         -         Group min, Ria.         71         51         4         4         1         -         -	Cambridge, Mass.	16	13	1	-	2	-	-	Charlotte, N.C.	109	70	23	9	3	3	9
Leweil, Mass. 12 0, 18 2, -, -, -, -, -, -, -, -, -, -, -, -, -,	'					-			1 '							9
Lynn, Mass. 12 11 1 1 1 Richmond, Va. 70 47 17 4 2					7	-	1									4
New Bedrod, Mass.         17         13         3         1         -         -         2         Savannah, Ga.         58         42         10         4         1         1           New Have, Conce, R.I.         49         39         5         2         3         -         -         Tampa, Fla.         12         12         14         4         2         Springflet, Mass.         6         21         14         4         2         6         Wilnington, Del.         22         12         9         1         -         -         -         Mashington, Del.         22         12         9         1         -         -         -         -         Minington, Del.         22         12         9         1         -					-	-	-									3
New Haven, Conn.         32         22         7         2         -         1         6         51: Petersburg, Fia.         64         45         15         3         1         -           Somewrife, Mass.         6         5         1         -					-	-	-									1
Providence, R.I.         49         39         5         2         3         -         -         Tampa, Fla.         21         142         49         14         4         2           Springfield, Mass.         47         27         14         4         -         2         6         Washington, DL.         91         42         32         91         -         -         2           Washington, DL.         10         3         2         -         3         ESCENTRAL         836         565         13         44         1           MD, ATLANTC         1.88         3         1         -         2         8         Birmingham, Ala.         833         1         -         1         Chatanooga, Ren.         55         21         4         4         1           Alban, N.Y.         43         3         3         1         -         2         83         1         1         Chatanooga, Ren.         36         31         1         -         1         Montgomery, Ala.         40         37         2         1         -         1         Montgomery, Ala.         40         37         2         1         -         1         1						-	-									5 6
Someralle, Mass.         6         5         1         -         -         -         Washington, D.C.         91         45         32         10         -         2           Waterbury, Conn.         16         14         1         1         -         -         -         E.S. CENTRAL         836         556         131         59         25         3           MD, ATLANTIC         1.889         1.302         400         152         25         29         89         Chattanooga, Tenn.         161         1         1         -         1         1         -         1         1         1         -         1         1         1         1         1         -         1         3         2         -         1         1         1         3         3         2         -         1         1         1         1         1         1         1         1						3										15
Springfiel, Mass.         47         27         14         4         -         2         6         Winngfon, Del.         22         12         9         1         -         -           Waterbury, Com.         16         14         1         -         <	'				-	-	-									2
Waterbury, Conn.         16         14         1         1         -         -         -         E.S. CENTRAL         288         568         193         59         25         3           MID ATLANTIC         1.889         1.302         400         132         25         29         89         Chattanoga, Tenn.         117         5         31         0         -         1           Allentown, Pa.         18         13         3         1         -         1         Lexington, Ky.         184         33         3         2         9         1         1         -         1         Monoville, Tenn.         187         33         32         2         9         1         1         -         1         Lexington, Ky.         183         30         7         2         -         1         Lexington, Ky.         30         7         2         1         -         1         Montgomery, Ala.         40         0         7         2         1         -         1         Montgomery, Ala.         40         10         3         -         1         -         1         Allento, Kor, Kor, Kor, Kor, Kor, Kor, Kor, Ko					4	-	2	6						-		2
Wordester, Mass.         99         44         10         3         2         -         3         Birmingham, Ala.         224         150         49         19         5         1           Albary, N.Y.         43         31         8         3         1         -         2         Knoxville, Tenn.         85         55         55         21         4         4         1           Albary, N.Y.         43         31         3         1         -         2         Knoxville, Tenn.         152         98         39         13         2         -           Buffalo, N.Y.         76         47         20         3         3         2         -         Mobile, Ala.         162         98         39         13         2         -           Buffalo, N.Y.         36         27         7         2         -         1         3         Mobile, Ala.         Ala.         17         18         18         1         -         -         Massinite, Tenn.         114         75         33         7         9         -         -         1         Alasin, Tenn.         114         75         34         10         2         3         <					1	-								05	0	
MID. ATLANTIC       1.889       1.302       400       132       25       29       89       Chatamooga, Tenn.       85       55       21       4       4       1         Allentown, Pa.       18       13       3       1       -       1       -       1       Knoxvillo, Tenn.       117       75       31       10       -       1         Camden, N.J.       20       11       5       3       -       1       1       Memphis, Tenn.       152       98       39       13       2       -         Carden, N.J.       34       27       7       2       -       1       Montgomery, Ala.       40       30       7       2       1       -         Lersey Cirk, N.L.       38       27       7       2       -       14       75       31       10       2       1       -         Jersey Cirk, N.L.       38       26       7       7       -       1       23       8       9       23       8       9       -       -       -       14       43       9       36       5       7       -       -       13       Baton Rouge, La.       41       24 <t< td=""><td></td><td>59</td><td>44</td><td>10</td><td>3</td><td>2</td><td>-</td><td>3</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>35 12</td></t<>		59	44	10	3	2	-	3								35 12
Albarow, N.Y.       43       63       8       3       1       -       2       Knowlie, Tern.       117       75       31       10       -       1         Buffal, N.Y.       76       47       20       3       3       3       2       Henvor, Ky.       33       22       9       1       1       -         Buffal, N.Y.       76       47       20       3       3       3       2       Momphis, Tern.       152       98       39       13       2       -         Carden, N.J.       14       11       2       -       1       -       -       Motign, Ala.       71       1       14       3       3       -       -       Motign, Fenn.       114       75       23       7       9       -       -       Mostign, Fenn.       144       18       10       2       1       Paterson, N.J.       14       8       1       1       -       -       Mostign, Fenn.       176       18       10       2       1       Paterson, N.J.       14       8       1       -       -       1       3       Baton Rouge, La.       10       13       17       -       Corpus Chrisi, Tex.		1 889	1 302	400	132	25	29	89								4
Allentiform, Pa.       18       13       3       1       -       1       -       Lexington, Ky.       33       22       9       1       1       -         Camden, N.J.       20       11       5       3		,	,													3
Buffalo, N.Y.         76         47         20         3         3         3         2         Mempins, Tern.         152         98         39         13         2         -           Elizabeth, N.J.         14         11         2         -         1         -         -         Montgomery, Ala.         40         30         7         2         1         -         -         Montgomery, Ala.         40         30         7         2         1         -         -         Montgomery, Ala.         40         30         7         2         1         -         -         Montgomery, Ala.         40         30         7         2         3         16         47         10         7         30         13         2         -         -         -         WSC CENTRAL         1.40         856         344         120         49         38         -         -         Corpus Christi, Tex.         41         20         8         9         -         -         -         Corpus Christi, Tex.         41         30         1         -         23         F         F         -         1         Houston, Tex.         131         16         7         - <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td>1</td><td></td><td>3</td></t<>							1							1		3
Elizabeth, N.J. 14 11 2 - 1 Montgorney, Ala. 40 30 7 2 1 J Jersey, City, N.J. 36 27 7 2 - 1 Montgorney, Ala. 40 30 7 2 1 J Jersey, City, N.J. 36 27 7 2 - 1 Montgorney, Ala. 40 30 7 2 1	,	76	47		3	3	3	2			98	39	13	2	-	-
Erie, Pa.         39         27         9         2         -         1         2         Nashville, Tenn.         114         75         23         7         9         -           Jersey City, N.J.         36         27         7         2         -         -         -         WS. CENTRAL         1,407         856         344         120         49         38           New York City, N.Y.         99         661         216         12         -         1         Austin, Tex.         70         39         18         10         2         1           Paterson, N.J.         44         8         4         1         -         -         1         Baton Rouge, La.         41         24         9         8         -         -         1         Dallas, Tex.         215         117         58         23         8         9         23         7         7         7         5         15         7         7         5         15         7         7         5         15         7         7         7         7         5         15         17         7         5         5         17         7         7         13         <	Camden, N.J.	20	11	5	3	-	1	1	Mobile, Ala.	71	51	14	3	3	-	3
Jersey City, N.J. 36 27 7 7 2 Multiple City, N.Y. 99 681 27 7 7 2 Multiple City, N.Y. 99 681 27 7 7 2	Elizabeth, N.J.	14			-	1			Montgomery, Ala.	40	30	7			-	5
New York City, N.Y.         999         681         216         72         13         16         47         W.S. DEN IRAL         1,40/         680         344         120         49         35           Paterson, N.J.         14         8         4         1         1         -         Baton Rouge, La.         41         24         9         8         -         -           Phitadelphia, Pa.         24         170         39         18         4         1         -         -         Baton Rouge, La.         41         24         9         8         -         -           Phitadelphia, Pa.         24         16         7         -         1         -         1         Dallas, Tex.         215         117         58         23         8         9           Schenectady, N.Y.         17         12         5         -         -         1         Little Rock, Ark.         61         35         17         -         -         -         1         Strantonio, Tex.         207         143         39         11         7         5         -         -         -         1         Strantonio, Tex.         207         143         39         11<						-		2	Nashville, Tenn.	114	75	23	7	9	-	5
New York City, N.Y.         999         681         216         /2         13         16         4/         Austin, Tex.         70         39         18         10         2         1           Paterson, N.J.         14         8         4         1         1         -         -         Corpus Christ, Tex.         44         30         10         3         -         1           Phitadelphia, Pa.         24         170         39         13         2         -         9         Dallas, Tex.         75         51         16         7         1         -         -         1         El Paso, Tex.         75         51         16         7         1         -         -         1         Lift Rock, Ark.         61         35         18         3         2         3         Scranton, N.J.         22         12         6         3         -         1         New Orleans, I.a.         61         38         18         4         2         -         3         Intice Rock, Ark.         61         38         14         4         4         4         4         4         4         4         4         4         4         4         4         4									W.S. CENTRAL	1.407	856	344	120	49	38	62
Newari, N.J.         14         26         15         12         -         1         -         Corpus Christi, Tex.         24         9         8         -         -           Philadelphia, Pa.         224         170         39         13         2         -         9         Dallas, Tex.         245         117         58         23         8         9           Pritsburgh, Pa.         14         16         -         -         1         1         1         -         Corpus Christi, Tex.         215         116         7         1         -           Reading, Pa.         17         10         6         -         -         1         New Orleans, La.         131         179         77         35         15         7           Screntor, Pa.         29         28         1         -         -         -         1         New Orleans, La.         61         35         11         4										,						5
Philadephia, Pa.         224         170         39         13         2         -         9         Corpus Constraints, IeX.         444         30         10         3         -         1           Pitsburgh, Pa.         17         10         6         -         -         1         3         El Paso, Tex.         75         51         16         7         1         -           Rochester, NY.         129         98         20         8         1         2         4         Houston, Tex.         131         179         77         35         15         7           Schenectady, N.Y.         177         12         6         3         -         1         Houston, Tex.         131         179         77         35         15         7           Stranton, Pa.         29         28         1         -         -         1         Bana Antonio, Tex.         207         145         39         11         7         5           Otheres, N.Y.         24         18         5         1         -         2         MOUNTAIN         800         579         186         68         27         16           Akron, Ohio         48	,									41						-
Pittsburgh, Pa, 3       24       16       7       -       1       -       1       Dallas, 1ex.       215       117       58       2.3       8       9         Reading, Pa, 407       10       6       -       -       1       33       El Paso, Tex.       715       51       16       7       57       7       35       7       7       35       7       7       35       7       7       35       7       7       35       7       7       35       1       7       35       7       7       35       7       7       35       1       7       35       3       2       3       3       2       3       3       2       3       3       2       3       3       2       3       3       2       3       3       3       2       3       3       3       2       3       3       3       2       3       3       3       2       3       3       3       11       7       3       3       3       2       3       3       3       3       3       3       3       3       3       3       3       3       3       3									Corpus Christi, Tex.	44	30	10	3	-	1	2
Reading, Pa.       17       10       6       -       -       1       3       ELP 360, [48.       75       51       16       7       1         Rochestier, N.Y.       129       98       20       8       1       2       4       4       Huworth, Tex.       127       76       33       6       5       7         Schenectady, N.Y.       17       12       5       -       -       1       Huworth, Tex.       137       177       35       15       7         Scranton, Pa.       29       28       1       -       -       1       Huite, N.K.       61       38       17       4       2       -       New Orleans, La.       61       38       17       4       2       -       Shreeyon, La.       62       38       15       1       4       4       11       76       Shreeyon, La.       131       84       34       9       3       1       1       76       36       5       7       16       Atron, Onio       63       32       12       1       3       6       2       -       2       Colo, Springs, Colo,       51       32       13       6       -       -					13		-			215	117	58	23	8	9	9
Rechessier, N.Y.       129       98       20       8       1       2       4       IPU Wint, Iex.       127       76       37       35       5       7         Schenetady, N.Y.       17       12       5       -       -       1       Houston, Tex.       313       179       35       15       7         Schenetady, N.Y.       17       32       28       1       -       -       1       Houston, Tex.       611       38       18       3       2       3         Syrause, N.Y.       73       41       20       8       2       2       10       New Orleans, La.       621       38       15       1       4       4         Utica, N.Y.       17       15       2       -       -       1       Tulsa, Okla.       131       84       34       9       3       1         E.N.CENTRAL       1.912       1.237       442       136       48       49       122       Albuquerque, N.M.       67       49       13       5       -       -       -       Colo. Springs, Colo.       51       32       13       6       -       -       -       Derver, Colo.       42       14 <td></td> <td></td> <td></td> <td></td> <td>_</td> <td></td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>2</td>					_		1									2
Schenectady, N.Y.       17       12       5       -       -       1       Houson, IeX.       313       179       //       35       15       /         Stranton, Pa.       29       28       1       -       -       1       Little Rock, Ark.       61       38       17       4       2       -       -       New Orleans, La.       61       38       17       4       2       -       -       Sha Antonio, Tex.       61       38       17       4       2       -       -       -       Sha Antonio, Tex.       61       38       15       1       4       4         Yonkers, N.Y.       17       15       2       -       -       -       1       Tulsa, Okla.       131       84       34       9       3       1         Yonkers, N.Y.       124       186       68       9       122       MOUNTAIN       880       579       186       68       27       16         Akron, Ohio       48       36       9       3       -       5       20       20       20       20       20       20       20       20       20       20       20       20       20       20					8	1			1							4
Scranton, Pa.       29       28       1       -       -       1       Introduct, ARK       61       35       18       3       2       3         Syracuse, N.Y.       73       41       20       8       2       10       New Orleans, La.       61       38       17       4       2       -         Trenton, N.J.       22       12       6       3       -       1       New Orleans, La.       62       38       15       1       4       4         Vonkers, N.Y.       17       15       2       -       -       1       Tulsa, Okla.       131       84       34       9       3       1         Concentro, Dhio       48       6       9       3       -       5       Colo. Springs, Colo.       51       32       13       6       -       -       Colo. Springs, Colo.       51       32       13       6       -       -       Colo. Springs, Colo.       51       32       13       6       -       -       Colo. Springs, Colo.       101       59       29       7       4       2       2       Colo. Springs, Colo.       101       50       32       15       6       1       2<					-	-										23
Syracuse, N.Y.       73       41       20       8       2       2       10       San Antonio, Tex.       207       145       39       11       7       5         Utica, N.Y.       17       15       2       -       -       1       5       Shreveport, La.       62       38       15       1       4       4         Yonkers, N.Y.       17       15       2       -       -       1       Shreveport, La.       62       38       15       1       4       4         Yonkers, N.Y.       24       185       1       -       2       NUNTAIN       800       579       186       68       27       16         Akron, Ohio       50       32       12       2       1       3       6       Boise, Idaho       43       33       6       2       2       Colo. Springs, Colo.       51       32       13       6       -       -       2       Colo. Springs, Colo.       51       32       1       1       2       2       1       2       2       11       3       5       2       2       1       1       3       1       3       5       2       2       1				1	-	-	-	1	1 · · · ·							-
Inferition, N.J.       22       12       0       3       -       1       -       Shreveport, La.       62       38       15       1       4       4         Yonkers, N.Y.       24       18       5       1       -       -       1       Tulsa, Okla.       131       84       34       9       3       1         E.N. CENTRAL       1,912       1,237       442       136       48       49       122       MOUNTAIN       880       579       186       68       27       16         Akron, Ohio       48       36       9       3       -       -       5       Colo. Springs, Colo.       51       32       13       6       -       -       -       2       Colo. Springs, Colo.       51       32       13       6       -       -       -       2       Colo. Springs, Colo.       51       32       13       6       -	Syracuse, N.Y.	73	41	20	8	2	2	10								- 11
Utica, N.Y.       17       15       2       -       -       -       1       Tulsa, Okla.       131       84       34       9       3       1         Yonkers, N.Y.       1912       1,237       442       136       48       49       122       MOUNTAIN       880       579       186       68       27       16         Akron, Ohio       50       32       12       2       1       3       6       2       -       2       1       36       Boise, Idaho       43       33       6       2       -       2       2       1       36       Boise, Idaho       43       33       6       2       -       2       2       1       36       16       10       15       7       4       2       2       1       4       Abuqueque, N.M.       67       49       13       5       -       -       2       2       1       4       4       2       13       14       4       133       6       2       -       2       2       16       13       11       1       2       2       3       1       1       2       2       12       13       14 <td< td=""><td></td><td></td><td></td><td></td><td>3</td><td>-</td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>6</td></td<>					3	-	1									6
Yonkers, N.Y.         24         18         5         1         -         2         2         1000000000000000000000000000000000000	'				-											-
E.N. CEN IRAL       1,912       1,237       4422       1 36       48       49       122       2       1 36       6       49       122       2       1 36       6       Boise, Idaho       67       49       13       5       -       -       -       -       -       5       Boise, Idaho       43       33       6       2       -       2         Canton, Ohio       48       36       9       3       -       -       5       Boise, Idaho       43       33       6       2       -       2         Cincinnai, Ohio       55       39       11       3       2       -       3       14       Poenver, Colo.       101       59       29       7       4       2         Columbus, Ohio       76       10       40       17       4       5       15       Poenver, Colo.       42       34       6       1       1       2       2       3       141       Poenver, Colo.       42       34       6       1       1       2       2       3       1       4       6       6       1       1       1       2       3       2       2       0       2	Yonkers, N.Y.	24	18	5	1	-	-	2								E 4
Aktor       Ohio       30       32       12       2       1       3       0       Disk       Idaho       43       33       6       2       -       2         Canton, Ohio       48       36       9       3       -       5       Colos, Springs, Colo.       51       32       13       6       -       -       2         Cincinnati, Ohio       55       39       11       3       2       -       3       Derver, Colo.       101       59       29       7       4       2         Cincinnati, Ohio       238       151       67       16       4       11       Qdgen, Utah       44       28       12       1       1       2         Opation, Ohio       97       70       21       2       3       1       44       28       11       3       5       2         Detroit, Mich.       151       74       50       12       6       9       10       Satt Lake City, Utah       96       42       8       2       1       3       5       2         Portand Rapids, Mich.       60       43       8       4       1       4       6       Berkeley, Cali	E.N. CENTRAL	1,912	1,237	442		48		122								51 5
Canton, Unito       48       36       9       3       -       -       -       5       Clo. Springs, Colo.       51       32       13       6       -       -         Chicago, Ill.       315       187       76       30       13       9       22       Denver, Colo.       101       59       29       7       4       2         Cincinnati, Ohio       238       151       67       16       4       -       11       Cleveland, Ohio       238       13       6       7       4       2         Columbus, Ohio       97       70       21       2       3       1       14       Pueblo, Colo.       42       4       6       1       1       -       2       8       3       2       2       8       3       2       2       8       3       2       -       2       Satt Lake City, Utah       99       64       22       8       3       2       -       2       -       2       -       2       -       2       -       2       -       2       -       2       -       2       -       2       -       2       -       2       -       2						1										4
Chicago, III.       315       187       76       30       13       9       22       Derver, Colo.       101       59       29       7       4       2         Cleveland, Ohio       238       151       67       16       4       -       11       Cas Vegas, Nev.       212       129       44       26       10       2         Cleveland, Ohio       238       151       67       16       4       -       11       Cas Vegas, Nev.       212       129       44       26       10       2         Dayton, Ohio       97       70       21       2       3       1       14       Phoenix, Ariz.       67       43       11       3       5       2         Perorit, Mich.       151       74       50       12       6       9       10       Pueblo, Colo.       42       34       6       1       1       -         Fort Wayne, Ind.       80       54       19       2       2       3       4       12       4       2       2       2       1       10       76       23       7       3       1         Gara, Ind.       164       113       34 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>4</td></t<>																4
Chronnall, Onio       35       39       11       3       2       -       3       Las Vegas, Nev.       212       129       44       26       10       2         Columbus, Ohio       176       110       40       17       4       5       15       Ogden, Utah       44       28       12       1       1       2         Dayton, Ohio       97       70       21       2       3       1       14       Pueblo, Colo.       42       34       6       1       -         Detroit, Mich.       151       74       50       12       6       9       10       Salt Lake City, Utah       99       64       22       8       3       2         Fort Wayne, Ind.       80       54       19       2       2       3       4       Tucson, Ariz.       154       108       30       9       3       4         Gary, Ind.       21       12       4       3       2       -       -       PACIFIC       1,545       1,078       293       99       40       35       1         Lansing, Mich.       60       43       8       4       1       4       6       Berkeley, Cali														4	2	6
Columbus, Ohio       176       110       40       17       4       5       15       Oggen, Utan       44       28       12       1       1       2         Dayton, Ohio       97       70       21       2       3       1       14       Phoenix, Ariz.       67       43       11       3       5       2         Detroit, Mich.       151       74       50       12       6       9       10       Salt Lake City, Utah       99       64       22       8       3       2         Fort Wayne, Ind.       80       54       19       2       2       3       4       4       6       BarkLake City, Utah       99       64       22       8       3       2         Grand Rapids, Mich.       60       43       8       4       1       4       6       Berkeley, Calif.       100       76       23       7       3       1         Lansing, Mich.       34       23       6       4       1       1       3       22       Long Beach, Calif.       16       15       1       -       -       -       -       -       -       -       -       -       -       -<														10		8
Dayton, Onio       97       70       21       2       3       1       14       Phoenix, Ariz.       67       43       11       3       5       2         Detroit, Mich.       151       74       50       12       6       9       10       Salt Lake City, Utah       99       64       22       8       3       2         Fort Wayne, Ind.       80       54       19       2       2       3       4       7ucson, Ariz.       154       108       30       9       3       4         Gary, Ind.       21       12       4       3       2       -       -       PACIFIC       1,545       1,078       293       99       40       35       1         Indianapolis, Ind.       164       113       34       9       1       7       8       Fresno, Calif.       110       76       23       7       3       1         Lansing, Mich.       34       23       6       4       1       -       1       Glendale, Calif.       16       15       1       -       -       -       -       -       -       -       -       -       -       -       -       -									Ogden, Utah	44	28	12	1	1	2	2
Detroit, Mich.       151       74       50       12       6       9       10       Pueblo, Colo.       42       34       6       1       1       -         Evansville, Ind.       41       33       6       2       -       -       -       -       Salt Lake City, Utah       99       64       22       8       3       2         Fort Wayne, Ind.       21       12       4       3       2       -       -       PACIFIC       1,545       1,078       293       99       40       35       1         Grand Rapids, Mich.       60       43       8       4       1       4       6       Berkeley, Calif.       20       12       4       2       -       2         Indianapolis, Ind.       164       113       34       9       1       7       8       Fresno, Calif.       110       76       23       7       3       1       2       -       2       2       -       2       2       -       2       2       -       2       3       6       5       1       2       -       2       2       1       1       3       3       1       1       5 <td></td> <td>3</td> <td></td> <td>2</td> <td>3</td>													3		2	3
Evansville, Ind.       41       33       6       2       -       -       -       San Lake City, Uran       99       64       22       8       3       2         Fort Wayne, Ind.       80       54       19       2       2       3       4       Tucson, Ariz.       154       108       30       9       3       4         Gary, Ind.       21       12       4       3       2       -       -       PACIFIC       1,545       1,078       293       99       40       35       1         Grand Rapids, Mich.       60       43       8       4       1       4       6       Berkeley, Calif.       20       12       4       2       -       2       2         Indianapolis, Ind.       164       113       34       9       1       7       8       Fresno, Calif.       110       76       23       7       3       1         Lansing, Mich.       34       23       6       4       1       -       1       30       99       64       52       7       3       1       2       Long Beach, Calif.       100       10       2       2       2									1 <sup>7</sup>							5
Fort Wayne, Ind.       80       54       19       2       2       3       4       Iucson, Anz.       154       108       30       9       3       4         Gary, Ind.       21       12       4       3       2       -       -       PACIFIC       1,545       1,078       293       99       40       35       1         Grand Rapids, Mich.       60       43       8       4       1       4       6       Berkeley, Calif.       110       76       23       7       3       1         Lansing, Mich.       34       23       6       4       1       -       1       Glendale, Calif.       16       15       1       -       -       -         Milwaukee, Wis.       95       65       20       5       3       2       2       Los Rapeles, Calif.       16       15       1       - <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>11</td></th<>																11
Grand Rapids, Mich.       60       43       8       4       1       4       6       Berkeley, Calif.       20       12       4       2       -       2         Indianapolis, Ind.       164       113       34       9       1       7       8       Fresno, Calif.       110       76       23       7       3       1         Lansing, Mich.       34       23       6       4       1       -       1       Glendale, Calif.       16       15       1       -       20       2       2       -       23       7       3       1       2       -       -       -       -       2       -       2       -       2       -       2       -       2       -       2       -       2       2       -       <		80	54	19		2	3	4	Tucson, Ariz.	154	108	30	9	3	4	3
Indianapolis, Ind.       164       113       34       9       1       7       8       Fresno, Calif.       110       76       23       7       3       1         Lansing, Mich.       34       23       6       4       1       -       1       Glendale, Calif.       16       15       1       -       -       -         Milwaukee, Wis.       95       65       20       5       3       2       5       Honolulu, Hawaii       63       49       6       5       1       2       2         Peoria, III.       59       28       17       9       3       2       2       Long Beach, Calif.       57       43       10       2       -       2         Rockford, III.       42       27       10       4       -       1       2       Los Angeles, Calif.       287       193       50       26       12       6         South Bend, Ind.       41       35       4       -       1       5       Portland, Oreg.       100       74       18       6       2       -       2       3       San Diego, Calif.       157       110       30       9       2       6       S		21	12		3	2		-	PACIFIC	1,545	1,078	293		40		110
Lansing, Mich.       34       23       6       4       1       -       1       Glendale, Calif.       16       15       1       -       -       -         Milwaukee, Wis.       95       65       20       5       3       2       5       Honolulu, Hawaii       63       49       6       5       1       2         Peoria, III.       59       28       17       9       3       2       2       Long Beach, Calif.       57       43       10       2       -       2         Rockford, III.       42       27       10       4       -       1       2       Los Angeles, Calif.       287       193       50       26       12       6         South Bend, Ind.       41       35       4       -       1       1       3       Pasadena, Calif.       24       17       6       1       -																1
Milwaukee, Wis.       95       65       20       5       3       2       5       Honolulu, Hawaii       63       49       6       5       1       2         Peoria, III.       59       28       17       9       3       2       2       Long Beach, Calif.       57       43       10       2       -       2         Rockford, III.       42       27       10       4       -       1       2       Los Angeles, Calif.       287       193       50       26       12       6         South Bend, Ind.       41       35       4       -       1       1       3       Pasadena, Calif.       24       17       6       1       -       -         Youngstown, Ohio       68       48       13       6       -       1       -       Sacramento, Calif.       188       132       44       7       2       3         W.N. CENTRAL       528       360       115       25       13       14       32       San Diego, Calif.       157       110       30       9       2       6         Duluth, Minn.       23       20       2       1       -       -       2	Indianapolis, Ind.				9	1	7	8				23	7	3	1	4
Peoria, III.       59       28       17       9       3       2       2       Long Beach, Calif.       57       43       10       2       -       2         Rockford, III.       42       27       10       4       -       1       2       Los Angeles, Calif.       287       193       50       26       12       6         South Bend, Ind.       41       35       4       -       1       1       3       Pasadena, Calif.       24       17       6       1       -       -         Toledo, Ohio       77       57       15       3       1       1       5       Portland, Oreg.       100       74       18       6       2       -         Youngstown, Ohio       68       48       13       6       -       1       -       Sacramento, Calif.       188       132       44       7       2       3         W.N. CENTRAL       528       360       115       25       13       14       32       San Diego, Calif.       157       110       30       9       2       6         Des Moines, Iowa       U       U       U       U       U       U       Sant Grac, Cal						1	-	-				1	-	-	-	2
Rockford, III.       42       27       10       4       -       1       2       Los Angeles, Calif.       287       193       50       26       12       6         South Bend, Ind.       41       35       4       -       1       1       3       Pasadena, Calif.       24       17       6       1       -       -         Toledo, Ohio       77       57       15       3       1       1       5       Portland, Oreg.       100       74       18       6       2       -         Youngstown, Ohio       68       48       13       6       -       1       -       Sacramento, Calif.       188       132       44       7       2       3         W.N. CENTRAL       528       360       115       25       13       14       32       San Diego, Calif.       157       110       30       9       2       6         Des Moines, Iowa       U       U       U       U       U       U       U       San Jose, Calif.       132       92       27       7       4       2         Kansas City, Kans.       24       15       5       2       -       2       Sant Cruz,																6
South Bend, Ind.       41       35       4       -       1       1       3       Pasadena, Calif.       24       17       6       1       -       -         Toledo, Ohio       77       57       15       3       1       1       5       Portland, Oreg.       100       74       18       6       2       -         Youngstown, Ohio       68       48       13       6       -       1       -       Sacramento, Calif.       188       132       44       7       2       3         W.N. CENTRAL       528       360       115       25       13       14       32       San Diego, Calif.       157       110       30       9       2       6         Des Moines, Iowa       U       U       U       U       U       U       U       San Jose, Calif.       132       92       27       7       4       2         Massas City, Kans.       24       15       5       2       -       2       3       3       1       7       Seattle, Wash.       109       67       23       12       5       2         Kansas City, Mo.       91       57       27       3 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>8 19</td></t<>																8 19
Toledo, Ohio       77       57       15       3       1       1       5       Portland, Óreg.       100       74       18       6       2       -         Youngstown, Ohio       68       48       13       6       -       1       -       Sacramento, Calif.       188       132       44       7       2       3         W.N. CENTRAL       528       360       115       25       13       14       32       San Diego, Calif.       157       110       30       9       2       6         Des Moines, Iowa       U       U       U       U       U       U       U       U       31       4       32       San Diego, Calif.       157       110       30       9       2       6         San San Diego, Calif.       132       92       27       7       4       2       3       3       1       San Jose, Calif.       132       92       27       7       4       2         Kansas City, Kans.       24       15       5       2       -       2       3       Santa Cruz, Calif.       27       22       4       1       -       -       Seattle, Wash.       109       67 <td></td> <td></td> <td></td> <td></td> <td>4</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> <td>3</td>					4										0	3
Youngstown, Ohio       68       48       13       6       -       1       -       Sacramento, Čalif.       188       132       44       7       2       3         W.N. CENTRAL       528       360       115       25       13       14       32       San Diego, Calif.       157       110       30       9       2       6         Des Moines, Iowa       U       U       U       U       U       U       U       U       30       9       2       6         San Diego, Calif.       157       110       30       9       2       6         Duluth, Minn.       23       20       2       1       -       -       2       Sant Scora, Calif.       90       66       16       4       3       1         Kansas City, Kans.       24       15       5       2       -       2       3       Sant Scora, Calif.       109       67       23       12       5       2         Kansas City, Mo.       91       57       27       3       3       1       4       Spokane, Wash.       109       67       23       12       5       2       2       Spokane, Wash.       66					3										_	6
W.N. CENTRAL       528       360       115       25       13       14       32       San Diego, Calif.       157       110       30       9       2       6         Des Moines, Iowa       U       San Jose, Calif.       132       92       27       7       4       2       Santa Cruz, Calif. <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>3</td><td>13</td></td<>															3	13
Des Moines, Iowa       U       U       U       U       U       U       U       U       U       San Francisco, Calif.       90       66       16       4       3       1         Duluth, Minn.       23       20       2       1       -       -       2       Sant San Jose, Calif.       132       92       27       7       4       2         Kansas City, Kans.       24       15       5       2       -       2       3       3       1       7       Sant Gruz, Calif.       132       92       27       7       4       2         Kansas City, Kans.       24       15       5       2       -       2       3       Santa Cruz, Calif.       17       22       4       1       -       -       -       Seattle, Wash.       109       67       23       12       5       2       2       Spokane, Wash.       66       44       17       -       1       4       1       4       1       4       1       4       1       4       1       4       1       4       1       4       1       4       1       1       4       1       4       1       4       1 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td>40</td> <td></td> <td>20</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>10</td>						40		20								10
Duluth, Minn.       23       20       2       1       -       -       2       San Jose, Calif.       132       92       27       7       4       2         Kansas City, Kans.       24       15       5       2       -       2       3       Santa Cruz, Calif.       132       92       27       7       4       2         Kansas City, Kans.       24       15       5       2       -       2       3       Santa Cruz, Calif.       27       22       4       1       -       -         Kansas City, Mo.       91       57       27       3       3       1       7       Seattle, Wash.       109       67       23       12       5       2         Lincoln, Nebr.       44       31       6       3       3       1       4       Tacoma, Wash.       66       44       17       -       1       4         Minneapolis, Minn.       47       31       11       4       -       1       2       4       10       5       4									San Francisco, Calif.	90	66	16	4	3	1	7
Kansas City, Kans.       24       15       5       2       -       2       3       Santa Cruz, Canr.       27       22       4       1       -       -         Kansas City, Mo.       91       57       27       3       3       1       7       Seattle, Wash.       109       67       23       12       5       2         Lincoln, Nebr.       44       31       6       3       3       1       4       Tacoma, Wash.       66       44       17       -       1       4         Minneapolis, Minn.       47       31       11       4       -       1       2       4       10       5       4													7	4	2	17
Kansas City, Mo.       91       57       27       3       3       1       7       Seattle, Wash.       109       67       23       12       5       2         Lincoln, Nebr.       44       31       6       3       3       1       4       Spokane, Wash.       66       44       17       -       1       4         Minneapolis, Minn.       47       31       11       4       -       1       2       Tacoma, Wash.       99       66       14       10       5       4														-		1
Lincoln, Nebr. 44 31 6 3 3 1 4 Minneapolis, Minn. 47 31 11 4 - 1 2																7
Minneapolis, Minn. 47 31 11 4 - 1 2 Jacoma, wasn. 99 66 14 10 5 4																6
									Tacoma, Wash.	99	66	14	10	5	4	-
Omaha, Nebr. 84 58 19 3 - 4 4 TOTAL 10,747 <sup>1</sup> 7,099 2,377 775 272 213 6	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		54		12		3	2									
Wichita, Kans. 74 54 13 3 4 - 3	Wichita, Kans.	74	54	13	3	4	-	3								

U: Unavailable. -: No reported cases.

\* Mortality data in this table are voluntarily reported from 122 cities in the United States, most of which have populations of ≥100,000. A death is reported by the place of its

<sup>1</sup> Total includes unknown ages.

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