



# **Morbidity and Mortality Weekly Report**

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# Progress Toward Global Eradication of Dracunculiasis, January-June 2003

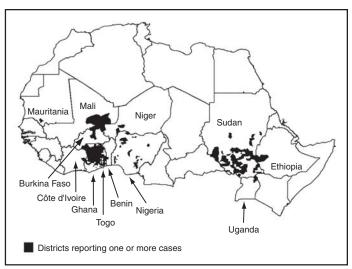
In 1986, when the World Health Assembly adopted a resolution calling for the eradication of dracunculiasis (Guinea worm disease), an estimated 3.5 million persons in 20 countries had the disease, and approximately 120 million persons were at risk for infection (1,2). By the end of 2002, annual incidence of the disease had been reduced >98%; seven countries in which dracunculiasis formerly was endemic (Cameroon, Chad, India, Kenya, Pakistan, Senegal, and Yemen) were free of the disease, and four countries (Central African Republic, Ethiopia, Mauritania, and Uganda) reported <100 cases each. During 1993–2002, the number of villages outside Sudan that reported cases decreased from approximately 23,000 to 2,022. This report describes the status of the global Dracunculiasis Eradication Program (DEP)\* as of June 2003. The data indicate that incidence of the disease outside Ghana and Sudan has declined substantially since June 2002. Continuing efforts in all countries in which the disease is endemic, intensified efforts in Ghana, and an end to the ongoing war in Sudan are required for the eradication of dracunculiasis.

To conduct surveillance, village–based health-care workers (usually volunteers) search for infected persons (those with skin lesions and emerging Guinea worms) in each village with endemic disease and complete a register that serves as a basis for monthly zonal, district-, regional-, and national-level reports. In 2002, a total of 54,648 cases were reported in 6,255 villages in 12 African countries (3); 4,233 (68%) of those villages were in Sudan, which reported 41,493 (76%) cases. Outside Sudan, 573 villages reported five or more cases each. The World Health Organization (WHO) is investigating whether dracunculiasis is endemic in Central African Republic,

which reported no cases in 2002 or during January–June 2003 (3) but which during previous years had reported cases imported from other countries and presumed indigenous cases.

During January–June 2003, a total of 15,688 cases were reported in 12 African countries (Figure), including 8,477

FIGURE. Distribution of cases of dracunculiasis (Guinea worm disease) — East and West Africa, January–June 2003\*



<sup>\*</sup> Provisional data as of June 30, 2003.

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<sup>\*</sup>Major program partners include the ministries of health in 20 countries in which dracunculiasis is or was endemic, The Carter Center, United Nations Children's Fund (UNICEF), World Health Organization, Bill and Melinda Gates Foundation, other bilateral and private donors, U.S. Peace Corps, and CDC.

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Notifiable Disease Morbidity and 122 Cities Mortality Data

Robert F. Fagan Deborah A. Adams Felicia J. Connor Lateka Dammond Donna Edwards Patsy A. Hall Pearl C. Sharp (54%) from Sudan and 5,436 (35%) from Ghana (Table), compared with 23,116 total cases reported during January–June 2002, including 16,871 (73%) from Sudan and 3,115 (13%) from Ghana.

In West Africa, the disease is most endemic in Ghana, which had 75% of cases reported outside Sudan. During January–June 2003, Ghana reported 5,436 cases, 75% more than during the same period in 2002; 5,242 (96%) of these cases occurred in 15 (14%) of 110 districts. This increase reflects improved surveillance in these mostly contiguous northern districts. In mid-2002, with the help of increased technical assistance, Ghana enhanced its surveillance, investigations, and interventions. Since then, approximately 6,000 more village-based personnel have been mobilized, and all interventions have been improved in the 15 districts in which the disease burden is greatest.

During January–June 2003, among 10 other countries with endemic disease, the number of reported cases declined 45%, compared with a reduction of 35% during the same reporting period in 2002 (4); the number of cases declined 44% in Nigeria, the country with the third-highest number of cases, and 60% in Benin, 63% in Burkina Faso, and 76% in Côte d'Ivoire. A total of 42 cases were exported from one country to another, including 18 from Sudan, 14 from Ghana, four from Togo, four from Niger, and one each from Mali and Nigeria.

Nomadic Tuareg populations in the shared border areas of Burkina Faso, Mali, and Niger have endemic dracunculiasis infection and pose special challenges to programs in those countries. During January–June 2003, these three countries intensified interventions (e.g., distribution of more cloth filters and more extensive health education in communities in which the disease is endemic) and increased their coordination. In Togo, which reported 20% fewer cases during January–June 2003 than during the same period in 2002, the number of cases in two northern regions adjacent to areas of northern Ghana in which disease is highly endemic increased 100% (from 88 cases to 176). Togo is intensifying interventions in these regions, including voluntary isolation of patients in health-care facilities during their illness.

Sudan's DEP is intervening in approximately 6,000 villages, primarily in the southern part of the country, where the civil war has prevented access to many areas in which disease is endemic. During January–June 2003, the eight affected northern states reported one indigenous case and five imported cases from southern Sudan, compared with three indigenous and nine imported cases during the same period in 2002. In the 3,613 villages in which Sudan's DEP intervened in 2001 and to which it still had access in 2002, dracunculiasis incidence declined 53% (from 45,761 cases to 21,321); however, newly accessed villages accounted for 49% of the cases reported in

TABLE. Number of indigenous dracunculiasis cases\*, percentage of cases contained<sup>†</sup>, and number and percentage of villages with endemic disease<sup>§</sup>, by country and intervention, January–June 2003<sup>¶</sup>

				% villages with endemic disease							
Country	No. indigenous cases reported	% cases contained	Reported no. villages with endemic disease	Reporting monthly	With filters in all households	Using Abate®	With ≥1 source of safe water	Provided health education			
Sudan	8,477	46	4,416	64	68	1	56	76			
Ghana	5,436	61	1,443	87	100	52	52	100			
Nigeria	1,109	72	584	100	99	26	66	100			
Togo	419	79	214	100	68	6	57	100			
Burkina Faso	93	48	134	97	76	44	85	97			
Côte d'Ivoire	39	49	29	97	100	59	98	97			
Mali**	23	92	190	62	92	2	36	87			
Benin	18	100	32	100	78	78	100	100			
Ethiopia	12	100	12	100	75	50	50	100			
Uganda	12	85	20	100	69	35	72	100			
Niger	8	100	77	100	100	4	21	100			
Mauritania	1	100	18	100	96	0	77	100			

\* The first occurrence in a person, during the calendar year, of a skin lesion with a Guinea worm protruding through that lesion.

As of month of last report.

<sup>1</sup> Data provisional as of June 30, 2003.

2002. In anticipation of persons who were displaced internally returning to their homes after a peace agreement, Sudan's DEP has educated approximately 210,000 (34%) of the estimated 700,000 Sudanese in camps inside the country, and DEPs in Ethiopia, Kenya, and Uganda are doing the same for Sudanese refugees in camps there.

**Reported by:** The Carter Center, Atlanta, Georgia. World Health Organization Collaborating Center for Research, Training, and Eradication of Dracunculiasis, Div of Parasitic Diseases, National Center for Infectious Diseases, CDC.

Editorial Note: Dracunculiasis is a parasitic infection caused by Dracunculus medinensis. Persons become infected by drinking water from ponds contaminated by copepods (water fleas) that contain immature forms of the parasite; 1 year after entering the infected person, adult worms approximately 1 meter (40 inches) in length emerge through skin lesions, usually on the lower limbs, which frequently develop severe secondary bacterial infections. No effective treatment or vaccine for the disease exists, and infected persons do not become immune to future infections by the parasite. However, dracunculiasis can be prevented by 1) filtering drinking water through a finely woven cloth, 2) treating contaminated water with the larvicide Abate<sup>®</sup> (temephos), 3) educating persons to avoid entering water sources when Guinea worms are emerging from their bodies, and 4) providing clean water from bore-hole or hand-dug wells (5).

DEPs continue to make progress toward dracunculiasis eradication in all countries with endemic disease other than Sudan and Ghana. In 2003, for the first time, Benin, Côte d'Ivoire, and Niger appear likely to report <100 indigenous cases. Benin (with 18 indigenous cases), Côte d'Ivoire (39

cases), Mauritania (one case), and Uganda (12 cases) appear close to interrupting transmission of the disease. However, armed conflict is delaying eradication in Côte d'Ivoire, Ethiopia, and Uganda. In Ghana, a substantial reduction in the number of cases is expected as a result of efforts begun in 2002. In Sudan, the ongoing civil war remains the greatest obstacle to eradicating dracunculiasis (6). Negotiating an end to the war is essential for progress toward disease eradication to be achieved.

In those countries in which the incidence of endemic dracunculiasis has declined substantially, the most formidable obstacles to disease eradication are apathy and complacency. To help address these obstacles, the Carter Center is beginning a media campaign to publicize the DEP campaign's accomplishments and the remaining challenges for key audiences in countries in which the disease is endemic and the international community. More information about the eradication campaign is available at http://www.cartercenter.org and http://www.cdc.gov/ncidod/dpd/parasites/guineaworm.

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A case of dracunculiasis is classified as contained if three conditions are met: 1) the infected person is detected within 24 hours of the emergence of the Guinea worm through the skin, 2) actions (i.e., occlusive bandages, counseling, and care of the patient until the worm is pulled out) are taken to prevent the person from contaminating sources of drinking water, and 3) these two conditions are confirmed by a supervisor within 7 days of occurrence.

<sup>\*\*</sup> Interventions for Ansongo, Gao, and Gurma Rharous districts.

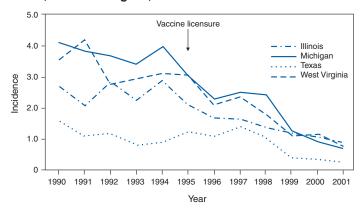
# Decline in Annual Incidence of Varicella — Selected States, 1990–2001

Varicella (chickenpox) is a common, highly infectious, and vaccine-preventable disease. Before the introduction of the live attenuated varicella vaccine in 1995, approximately 4 million cases of varicella occurred annually in the United States, resulting in approximately 11,000 hospitalizations and 100 deaths (1-3). In 1996, the Advisory Committee on Immunization Practices (ACIP) recommended routine vaccination of all children at age 12-18 months, catch-up vaccination of all susceptible children before age 13 years, and vaccination of susceptible persons with close contact to persons at high risk for serious complications (4). In 1999, ACIP updated these recommendations to include vaccination requirements for child care and school entry and for postexposure; ACIP also strengthened recommendations for vaccination of susceptible adults and indicated that varicella vaccine should be considered for outbreak control (5). Changes in the national annual reported incidence of varicella disease during 1972-1997 have been reported previously (6). This report summarizes trends in the annual reported incidence of varicella disease in selected states during 1990-2001. The findings underscore the continued need to improve varicella surveillance to monitor the impact of the varicella vaccination program and assess any changes in varicella transmission and disease.

CDC reviewed all varicella cases in states with adequate and consistent reporting to the National Notifiable Disease Surveillance System (NNDSS) during 1990–2001; reporting was considered adequate if states reported cases equivalent to ≥5% of their birth cohort before 1995 and consistent if their reporting methods did not change throughout the study period. Annual state population estimates were obtained from the U.S. Census Bureau, and vaccination coverage rates were obtained from the National Immunization Survey (7). Statespecific annual incidence was calculated by using all cases reported for each year divided by the state's total population.

During 1990–2001, four states (Illinois, Michigan, Texas, and West Virginia) had adequate and consistent reporting levels. Reporting levels ranged from 6% in Texas to 25% in Michigan. During 1990–1994, the average reported incidence of varicella in all four states remained stable, ranging from 1.1 cases per 1,000 population in Texas to 3.8 in Michigan (Figure). Starting in 1999, varicella incidence declined steadily, with the average for 1999–2001 ranging from 0.3 in Texas to 1.0 in Illinois. For all four states, the lowest reported incidence occurred in 2001, ranging from 0.3 in Texas to 0.9 in Illinois. Compared with the average incidence for 1990–1994,

FIGURE. Varicella incidence\*, by year — Illinois, Michigan, Texas, and West Virginia, 1990–2001



<sup>\*</sup> Per 1,000 population.

reduction in varicella disease in 2001 ranged from 67% in Illinois to 82% in Michigan. This decrease in incidence corresponded with the steady increase in vaccination coverage (Table). In 2001, vaccination coverage for children aged 19–35 months reached 57% in Illinois, 73% in West Virginia, 77% in Michigan, and 84% in Texas. States with higher vaccination coverage (Michigan, Texas, and West Virginia) implemented child care and/or school entry requirements in 2000, and Illinois implemented such requirements in 2002.

**Reported by:** A Ali, MD, D Path, MPH, Immunization Svcs Div; H Nguyen, MPH, A Jumaan, PhD, J Zhang, PhD, P Spradling, MD, J Seward, MBBS, Epidemiology and Surveillance Div, National Immunization Program, CDC.

**Editorial Note:** The findings in this report suggest that the steady decline in reported varicella incidence during 1999–2001 resulted from the increased use of varicella vaccine and not a decrease in reporting. These findings are consistent with data from three active surveillance sites at which individual cases are investigated (Antelope Valley, California; West Philadelphia, Pennsylvania; and Travis County, Texas). During 1995–2000, incidence of varicella for all age groups in these three sites declined substantially (range: 76%–87%), corresponding with the high average vaccination coverage of 80% (8).

The availability of a safe and effective varicella vaccine has reduced the impact of the disease substantially. High vaccination coverage levels among all age groups are necessary to ensure that persons do not reach adolescence or adulthood without having immunity to varicella. At the start of the 2002 school year, 33 states had implemented child care or school entry requirements for varicella (CDC, unpublished data, 2003), and five more states implemented such requirements in September 2003.

The existing national varicella surveillance system is not adequate to monitor the incidence of varicella disease or to

TABLE. Percentage of children aged 19–35 months who received varicella vaccine, by year and state — National Immunization Survey, Illinois, Michigan, Texas, and West Virginia, 1996–2001

State	1996	1997	1998	1999	2000	2001
Illinois	6.9	20.1	25.8	43.6	47.9	57.0
Michigan	8.3	15.7	29.6	43.5	69.6	76.6
Texas	8.8	23.8	44.1	58.9	73.6	83.5
West Virginia	6.9	20.0	42.5	51.3	59.9	73.0

assess the impact of the vaccination program. In 2001, disease incidence was reported by 22 states and the District of Columbia; however, only four states had adequate and consistent reporting for the study period. The Council of State and Territorial Epidemiologists has recommended that by 2005, states establish or enhance varicella surveillance programs that provide individual case reporting (9). To enhance their surveillance programs, states should collect key variables, including vaccination history, age at disease onset, and severity of disease. Collecting these data will enable states to detect changes in varicella epidemiology, which will be valuable in targeting vaccination programs, assessing the need for a change in vaccine policy, and further reducing the varicella disease burden. In addition, as circulation of the varicella-zoster virus decreases with the decline in incidence, laboratory confirmation of disease will become more important. CDC and the Association of Public Health Laboratories have upgraded the diagnostic capability of national and state laboratories to support varicella disease diagnosis and enhance national and state surveillance.

#### **Acknowledgments**

This report is based on data contributed by M Dworkin, MD, Illinois Dept of Public Health. M Boulton, MD, Michigan Dept of Health. D Perrotta, PhD, Texas Dept of Health. L Haddy, MS, West Virginia Dept of Health and Human Resources.

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## Wound Botulism Among Black Tar Heroin Users — Washington, 2003

During August 22–26, 2003, four injection-drug users (IDUs) in Yakima County, Washington, sought medical care at the same hospital with complaints of several days of weakness, drooping eyelids, blurred vision, and difficulty speaking and swallowing. All four were regular, nonintravenous injectors of black tar heroin (BTH), and one also snorted BTH. This report summarizes the investigation of these cases, which implicated wound botulism (WB) as the cause of illness.

Of the four patients, two were men; the patients had a median age of 38 years (range: 31-50 years). Two patients were married and used drugs at the same time and in the same setting as the third patient; however, they did not share injection equipment with the third patient. The fourth patient had no social connection with the other three. All four purchased BTH from the same dealer. No meals or gatherings were attended by all of the patients, and no single common food item had been eaten recently, including no home canned or vacuum-packed foods. On examination, all had cranial nerve palsies, including ptosis, ophthalmoplegia, dysarthria, and diminished or absent gag reflex, and upper extremity weakness, clear sensorium, and no sensory deficits. Three had infected wounds from drug injections. In two patients who went simultaneously to an emergency department, botulism was suspected immediately by the admitting physician, who alerted public health officials promptly and sought antitoxin. Antitoxin was administered within 14–24 hours of admission for all patients. Wound care and treatment with intravenous ampicillin/sulbactam was initiated within 12 hours for the three patients with wounds.

Two patients, both subcutaneous IDUs, progressed to respiratory failure despite antitoxin administration and continue to require mechanical ventilation. One is improving in strength and might progress to extubation. The other probably will require long-term ventilatory support. The third and fourth patients, both intramuscular IDUs with milder presentations, were discharged with minimal residual weakness 17 and 9 days after admission, respectively.

At the Washington State Public Health Laboratories, botulinum toxin type A was detected by mouse bioassay in serum specimens obtained from the first two patients, but not from serum of the third and fourth patients. Toxin assays and anaerobic stool cultures from all patients failed to demonstrate botulinum toxin or *Clostridium* growth, respectively. Anaerobic culture of a wound specimen from the third patient is pending, and a nasal aspirate from the fourth patient was negative. Injection paraphernalia and a sample of BTH have been submitted to CDC for further testing for toxigenic *Clostridium* bacteria.

Local and state public health officials have notified health-care providers and acute-care facilities to increase suspicion of WB in IDUs and have emphasized the importance of prompt recognition of WB, early antitoxin administration, and appropriate wound treatment (1). Outreach staff are working through a needle exchange and other venues to inform IDUs about the outbreak, the need to seek immediate care if affected, and the ongoing risks for using BTH.

Reported by: C Spitters, MD, Yakima Health District; J Moran, MD, Yakima Valley Farmworkers Clinic; D Kruse, MD, Yakama Indian Health Clinic, Toppenish; N Barg, MD, Yakima; M Leslie, DVM, J Hofmann, MD, Washington State Dept of Health. M Moore, MD, Div of Bacterial and Mycotic Diseases, National Center for Infectious Diseases; G Macgregor-Skinner, BVSc, EIS Officer, CDC.

Editorial Note: Clinical findings, laboratory results, and epidemiologic features of this outbreak reflect previous descriptions of WB in IDUs (2-4). BTH might be contaminated during the "cutting" process through incorporation of sporeladen adulterants such as dirt or boot polish (3,4). Heating the drug does not inactivate clostridial spores, and safe injection practices that protect against bloodborne infection do not reduce the risk for WB. In January 2002, a cluster of seven cases of necrotizing fasciitis occurred among IDUs in Yakima County (5). The route of injection was reported as subcutaneous in three of the patients, two of whom died. Clostridia spp. were identified in specimens from these three cases; in one case, subtyping was carried out, and the isolate was identified as Clostridium sordelii. These persons were in the same IDU network as those in the current botulism outbreak.

#### **Acknowledgments**

The following persons assisted with the investigation and reporting of this outbreak: J Ricking, MD, Yakima Valley Farmworkers Clinic, Toppenish; C Whittlesey, MD, Wapato; C Contreras, J Vargas, B Andrews, D Flodin-Hursh, P Benitez, M Patnode, D Klukan, MSPH, Yakima Health District; R Graham, Indian Health Svc, Toppenish; M McDowell, Washington State Dept of Health; J Jones, MD, Northwest Portland Area Indian Health Board, Portland.

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# Knowledge, Attitudes, and Behaviors About West Nile Virus — Connecticut, 2002

Since West Nile virus (WNV) was first recognized in the United States in 1999, the geographic distribution has widened progressively, and the resulting human morbidity and mortality has increased (1). The cornerstones of WNV control and prevention are 1) surveillance with sustained and integrated mosquito control to detect the presence of WNV in areas where humans are at risk and 2) public education on the use of personal protective behaviors (PPBs) and peridomestic mosquito control to reduce the risk for mosquito bites (2). In Connecticut, strategies to improve public education and WNV-risk awareness consist of issuing graded warnings after assessing local surveillance findings during the transmission season. In 2002, three of the 17 Connecticut patients with confirmed WNV infection reported having used any PPBs. To assess knowledge, attitudes, and behaviors about WNV during the transmission season, the Connecticut Department of Public Health added questions about WNV to its Behavioral Risk Factor Surveillance System (BRFSS) survey conducted during August-November 2002. This report summarizes the results of that analysis, which indicate that general awareness of WNV and knowledge of elderly persons being at risk for more severe illness were high; however, awareness of local surveillance findings was poor, and belief in the local presence of WNV did not predict the use of PPBs. The findings underscore the need for continued public education about the risk for WNV infection and the use of PPBs and the need for regular systematic evaluations of knowledge, attitudes, and behaviors to refine and improve public health messages effectively.

BRFSS is a state-based, random-digit—dialed telephone survey of the noninstitutionalized, civilian population aged ≥18 years. The set of WNV questions included a question about knowledge of age groups at higher risk for severe illness; a question about how worried a person was about getting WNV; two questions about awareness of local dead bird or mosquito surveillance findings; four questions about PPBs to protect against mosquito bites during July and August, the months of

peak risk in Connecticut; and a question about how often a person spent >30 minutes outdoors in the evening during July and August. PPB questions included avoiding outdoor areas where mosquitoes are present, avoiding outdoor activities, wearing long-sleeved shirts and long pants, and using insect repellent on skin or clothes. Descriptive and analytic analyses were performed by using SAS version 8.2 and SUDAAN version 7.5. Data were adjusted to account for differing probabilities of selection and to match the state population of adults by age and sex.

A total of 1,791 interviews were completed; response rate was 61%. The median age of respondents was 47 years (range: 18–97 years); 21% were aged 50–65 years, 20% were aged ≥65 years, 52% were female, 82% were white, and 98% were English-speaking.

Overall, 1,617 (96%) respondents believed that elderly persons were more likely than others to have severe illness from WNV infection, and 1,249 (63%) believed the same to be true for infants. A total of 906 (56%) respondents were at

least "a little" worried about getting WNV infection (10% "very" and 46% "a little"). A total of 19% of persons living in towns with positive WNV surveillance findings in 2002 were aware that WNV had been detected in their area.

To protect themselves from mosquitoes, 60% of respondents reported that they sometimes or always avoided outdoor areas with mosquitoes, 39% avoided outdoor activities, 51% wore long-sleeved shirts and long pants, and 57% used insect repellent on skin or clothes (Table 1). The majority (77%) of respondents sometimes or always used at least one PPB, and 45% always used at least one PPB; 59% sometimes or always used at least two PPBs, and 15% never used any PPBs.

Of the 291 persons aged ≥65 years who believed they were more likely to have severe illness, 61% always used at least one PPB, 68% sometimes or always used at least two, and 17% never used any.

Multivariable logistic regression analyses were used to examine four outcome variables, including sometimes or always using insect repellent, always using at least one PPB, sometimes or always using at least two PPBs, and never using any of the four PPBs (Table 2). Using insect repellent was significantly associated with being aged <50 years, being a little or very worried about getting WNV, and more often spending >30 minutes outdoors in the evenings. Always using at least one PPB was significantly associated with being female, being aged ≥65 years, having a lower annual income (\$25,000−\$75,000), and being a little or very worried about getting WNV. Sometimes or always using two or more PPBs also was significantly associated with being female and being a little or very worried about getting WNV. Never using PPBs was significantly associated with being male and not being worried about getting WNV.

**Reported by:** ML Adams, L LoBianco, L Wilcox, JL Hadler, MD, Connecticut Dept of Public Health. KS Griffith, MD, EIS Officer, CDC.

**Editorial Note:** The findings in this report document high awareness of WNV and knowledge of elderly persons being at risk for severe illness. Persons aged >50 years were more likely than persons aged 18–49 years to always use at least one PPB.

TABLE 1. Number and percentage of self-reported personal protective behaviors used to prevent mosquito bites, by behavior type and frequency — Connecticut, 2002

	Alw	ays	Sometimes		Never		Total	
Behavior	No.	(%)	No.	(%)	No.	(%)	No.	(%)
Avoiding areas with mosquitoes	529	(29)	557	(31)	685	(39)	1,771	(100)
Avoiding outdoor activities	238	(13)	493	(26)	1,039	(60)	1,771	(100)
Wearing long sleeves and long pants	342	(18)	591	(33)	836	(48)	1,769	(100)
Using mosquito repellent	370	(19)	676	(38)	740	(42)	1,778	(100)

TABLE 2. Multivariable logistic regression analyses of predictors of using personal protective behaviors (PPBs) to prevent mosquito bites, by behavior type and frequency — Connecticut, 2002

Behavior	OR*	(95% CI†)
Using mosquito repellent ("sometimes" or "always" versus "never")		
Spending >30 minutes outdoors most evenings versus never	2.3	(1.5-3.6)
Being very worried about getting West Nile Virus (WNV) versus not worried	2.0	(1.1-3.7)
Being a little worried about getting WNV versus not worried	1.5	(1.1-2.0)
Spending >30 minutes outdoors >1 evening per week versus never	1.5	(1.0-2.4)
Being aged >65 years versus aged 18–49 years	0.5	(0.3-0.7)
Always using at least one PPB		
Being aged >65 years versus aged 18–49 years	2.6	(1.7-3.9)
Being very worried about getting WNV versus not worried	2.2	(1.2-3.9)
Being aged 50-64 years versus aged 18-49 years	2.0	(1.4-2.8)
Being female versus male	1.9	(1.4-2.6)
Earning an annual income of \$25,000-\$75,000 versus >\$75,000	1.6	(1.1-2.2)
Being a little worried about getting WNV versus not worried	1.5	(1.1-2.1)
Always or sometimes using at least two PPBs		
Being very worried about getting WNV versus not worried	3.0	(1.6-5.5)
Being a little worried about getting WNV versus not worried	2.7	(2.0-3.7)
Being female versus male	2.0	(1.5-2.6)
Never using any PPBs		
Not being worried about WNV versus always worried	3.5	(1.3-9.9)
Being male versus female	1.8	(1.2-2.8)

<sup>\*</sup>Odds ratio.

Confidence interval.

In addition, nearly half of all respondents reported always using some form of personal protection, and reported use of PPBs was much higher among respondents than among persons with confirmed WNV infection. However, awareness of local WNV surveillance findings was poor, and, in contrast to concern about getting WNV infection, belief in the local presence of WNV was not a predictor of use of PPBs. Although public announcements of local surveillance findings should continue, additional methods of communicating the changing levels of risk and appropriate levels of concern should be explored.

The findings in this report are subject to at least four limitations. First, BRFSS relies on the use of self-reporting, which does not allow for validation of responses. Second, extensive public health outreach and education on the use of PPBs has occurred in Connecticut during the preceding 15 years, primarily because of the emergence and recognition of Lyme disease. Therefore, Connecticut residents might have a higher reported baseline use of and/or might be more responsive to public health messages concerning PPBs. Third, questions about the use of PPBs were asked specifically about behaviors during July and August; therefore, behaviors during September and October and how behaviors might have changed during the transmission season were not evaluated. Finally, because BRFSS is a telephone survey, data were not collected from persons who use cellular phones exclusively or who do not have a telephone.

The use of PPBs is the most effective means of controlling exposure to WNV infection and might depend on several factors, including an understanding of the disease and how exposure occurs, personal perception of risk, and acceptability of using available measures. The WNV epidemics of 2002 and 2003 underscore the need for continued public education, especially regarding personal protection. Additional efforts should be made to evaluate knowledge, attitudes, and behavior and to use this information to refine and improve public health messages and the effectiveness with which they are delivered. In Connecticut in 2003, questions about WNV were again added to BRFSS to monitor the use of PPBs and the effectiveness of health-education efforts.

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#### Public Health Dispatch

### Measles Epidemic — Majuro Atoll, Republic of the Marshall Islands, July 13–September 13, 2003

During July 13–September 13, 2003, a total of 647 clinically diagnosed measles cases\* were reported on Majuro Atoll in the Republic of the Marshall Islands (RMI); this is the first measles outbreak reported in RMI since 1988. An additional 74 suspected measles cases are under investigation. This report describes the clinically diagnosed measles cases and the public health response to stop the epidemic. Of the 647 cases, 15 (2%) are laboratory confirmed, either by serology, polymerase chain reaction, or viral culture. The age of patients ranged from 2 weeks to 43 years (median: 12 years); 479 (74%) patients were aged <20 years. The overall measles incidence on Majuro Atoll (estimated 2003 population: 25,097) is 26 cases per 1,000 population. The incidence is highest among infants aged <1 year (160 per 1,000 population), followed by children aged 1–4 years (40).

A total of 58 persons with measles have been hospitalized; three patients have died, including a malnourished child aged 15 months with diarrhea and pneumonia, a woman aged 27 years with pneumonia, and a woman aged 39 years whose immediate cause of death remains unknown. Postmortem examination was not available for any of these patients.

To stop measles transmission, the Ministry of Health in RMI recommended measles, mumps, and rubella vaccine (MMR) for all infants aged 6-11 months and all persons aged 1-40 years who did not have documented proof of measles immunity<sup>†</sup>. Before the epidemic, estimated vaccine coverage with 1 dose of MMR was <75% for children aged 1-13 years, according to evaluations of computerized vaccination records and of children screened during the vaccination campaign. As of September 13, a total of 98% of persons aged 6 months-40 years had documentation of receipt of at least 1 dose of MMR. Campaign activities that delivered 16,913 doses included 1) vaccinating health-care and public health workers, 2) vaccinating children at nine vaccination posts across the atoll, 3) delaying the start of the school year until school children were vaccinated and requiring documentation of vaccination for school entry, and 4) conducting neighborhood

<sup>\*</sup> Defined as a case in a person with fever, a generalized maculopapular rash, and cough, coryza, or conjunctivitis.

<sup>†</sup> Persons aged 12 months—18 years required documented history of 2 doses of MMR, with the first dose administered on or after the first birthday and the second dose at least 28 days after the first dose; otherwise, these persons received either their first or second dose as indicated. Persons aged >18 years required documented history of measles or 1 dose of MMR administered on or after the first birthday; otherwise, these persons received 1 dose of MMR.

and house-to-house vaccination in areas where adequate coverage was not reached.

To prevent spread from Majuro Atoll, vaccination campaigns were conducted in other atolls and islands in RMI. The Ministry of Health suspended travel of sea vessels and airlines from Majuro Atoll until vaccination campaigns had been completed in other atolls and islands, and required proof of MMR vaccination for all travelers leaving Majuro Atoll for other atolls or islands or for international destinations. A total of 17 measles cases have been reported from Ebeye Island in Kwajalein Atoll; 10 of these persons were exposed in Majuro Atoll. Two other atolls have reported six cases whose exposure was in Majuro Atoll. Measles surveillance has been enhanced in RMI, other Pacific islands, and in the United States. Spread to other areas in the Pacific and to the United States has been limited; five measles cases in Hawaii, three in Guam, one in Palau, and one in California are believed to be linked to this epidemic.

The source of importation of the measles virus to Majuro Atoll has not yet been determined, but the H1 genotype found in this outbreak is common in Asia, and the specific strain has been reported recently in measles cases from Japan and China (1,2). The Advisory Committee on Immunization Practices recommends that all international travelers be immune to measles because it is endemic or epidemic in many parts of the world, including developed countries (3,4). Persons aged <40 years who are traveling to RMI during the next 60 days should be aware that RMI requires documentation of measles immunity for all departing passengers on international flights. The documentation must fulfill the same age-specific requirements used in the vaccination campaign.

Reported by: J Langridrik, MPH, R Edwards, MPH, K Briand, MBBS, M Konelios, H Neamon, F Nathan, Ministry of Health. A Khalifah, Div of Applied Public Health Training, Epidemiology Program Office; H Nguyen, MPH, Epidemiology and Surveillance Div; Immunization Svcs Div, National Immunization Program; Div of Viral and Rickettsial Diseases, National Center for Infectious Diseases; M Marin, MD, R Nandy, MBBS, EIS officers, CDC.

#### **Acknowledgments**

This report is based on data contributed by P Asuo, MD, J Gancio, MD, H Emil, S Alfred, B Pharm, Majuro Hospital, Delap, Majuro Atoll, Republic of the Marshall Islands.

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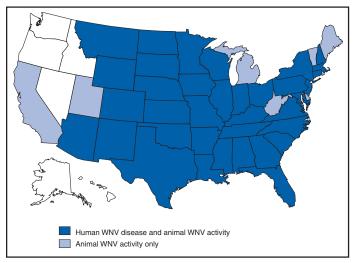
# West Nile Virus Activity — United States, September 11–17, 2003

This report summarizes West Nile virus (WNV) surveillance data reported to CDC through ArboNET as of 3 a.m., Mountain Daylight Time, September 17, 2003.

During the reporting week of September 11–17, a total of 1,214 human cases of WNV infection were reported from 28 states (Alabama, Colorado, Georgia, Iowa, Kansas, Kentucky, Louisiana, Maryland, Minnesota, Mississippi, Missouri, Montana, Nebraska, New Hampshire, New Jersey, New Mexico, New York, North Carolina, North Dakota, Ohio, Oklahoma, Pennsylvania, Rhode Island, South Dakota, Tennessee, Texas, Wisconsin, and Wyoming), including 26 fatal cases from nine states (Alabama, Colorado, Louisiana, Minnesota, New York, Ohio, South Dakota, Texas, and Wyoming). During the same period, WNV infections were reported in 1,118 dead birds, 355 horses, two dogs, two squirrels, five infections in unidentified animal species, and 638 mosquito pools.

During 2003, a total of 4,137 human cases of WNV infection have been reported from Colorado (n = 1,542), South Dakota (n = 580), Nebraska (n = 543), Wyoming (n = 282), Texas (n = 276), Montana (n = 154), North Dakota (n = 126), New Mexico (n = 124), Pennsylvania (n = 72), Minnesota (n = 57), Louisiana (n = 52), Mississippi (n = 48), Iowa (n = 38), Oklahoma (n = 28), Kansas (n = 23), New York (n = 23), Florida (n = 22), Ohio (n = 22), Alabama (n = 21), Maryland (n = 17), North Carolina (n = 14), Georgia (n = 11), Missouri (n = 10), Illinois (n = eight), Tennessee (n = seven), Indiana (n = six), Kentucky (n = six), Wisconsin (n = six), Arkansas (n = five), New Jersey (n = four), Virginia (n = four), Arizona (n = one), Connecticut (n = one), Massachusetts (n = one), New Hampshire (n = one), Rhode Island (n = one), and South Carolina (n = one) (Figure). Of 3,969 (96%) cases for which demographic data were available, 2,081 (52%) occurred among males; the median age was 47 years (range: 1 month-99 years), and the dates of illness onset ranged from March 28 to September 11. Of the 3,969 cases, 80 fatal cases were reported from Colorado (n = 27), Nebraska (n = 10), South Dakota (n = seven), Texas (n = seven), Wyoming (n = seven), New Mexico (n = four), Alabama (n = three), New York (n = three), Iowa (n = two), Minnesota (n = two), Ohio (n = two), Georgia (n = one), Kansas (n = one), Louisiana (n = one), Mississippi (n = one), Missouri (n = one), and

FIGURE. Areas reporting West Nile virus (WNV) activity — United States, 2003\*



\* As of 3 a.m., Mountain Daylight Time, September 17, 2003.

Montana (n = one). A total of 267 presumptive West Nile (WN)-viremic blood donors have been reported from Nebraska (n = 116), South Dakota (n = 56), Texas (n = 20),

Wyoming (n = 20), Oklahoma (n = 11), Colorado (n = 10), New Mexico (n = nine), Montana (n = five), Georgia (n = four), Iowa (n = three), Minnesota (n = three), Mississippi (n = three), New Jersey (n = two), Florida (n = one), Illinois (n = one), Louisiana (n = one), Michigan (n = one), and Tennessee (n = one). Of these 267 donors, 34 subsequently had onset of WNV fever, one subsequently had onset of encephalitis, and one subsequently had onset of WNV meningoencephalitis. In addition, 7,263 dead birds with WNV infection were reported from 42 states and New York City; 1,912 WNV infections in horses have been reported from 34 states, 12 WNV infections were reported in dogs, five infections in squirrels, and 17 infections in unidentified animal species. During 2003, WNV seroconversions have been reported in 591 sentinel chicken flocks from 12 states, and 11 seropositive sentinel horses have been reported from four states. A total of 4,412 WNV positive mosquito pools have been reported from 36 states and New York City.

Additional information about WNV activity is available from CDC at http://www.cdc.gov/ncidod/dvbid/westnile/index.htm and http://westnilemaps.usgs.gov.

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FIGURE I. Selected notifiable disease reports, United States, comparison of provisional 4-week totals September 13, 2003, with historical data

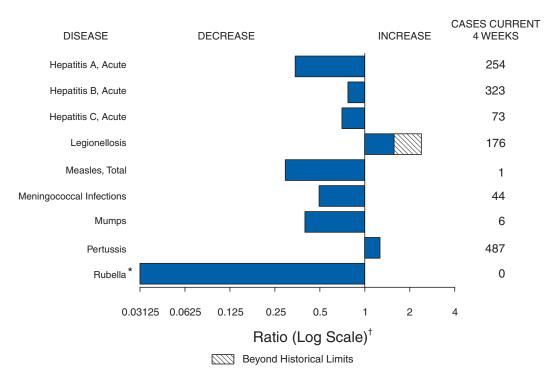


TABLE I. Summary of provisional cases of selected notifiable diseases, United States, cumulative, week ending September 13, 2003 (37th Week)\*

		Cum. 2003	Cum. 2002		Cum. 2003	Cum. 2002
Anthrax		-	2	Hansen disease (leprosy)†	37	65
Botulism:		-	-	Hantavirus pulmonary syndrome†	13	15
	foodborne	8	20	Hemolytic uremic syndrome, postdiarrheal†	89	153
	infant	39	51	HIV infection, pediatric†§	151	112
	other (wound & unspecified)	19	11	Measles, total	35 <sup>¶</sup>	26**
Brucellosis†		50	83	Mumps	138	197
Chancroid		32	54	Plague	1	-
Cholera		1	1	Poliomyelitis, paralytic	-	-
Cyclosporiasis	;t	52	143	Psittacosis†	12	13
Diphtheria		-	1	Q fever <sup>†</sup>	51	38
Ehrlichiosis:		-	-	Rabies, human	-	2
	human granulocytic (HGE)†	223	211	Rubella	7	10
	human monocytic (HME)†	105	135	Rubella, congenital	-	1
	other and unspecified	20	15	Streptococcal toxic-shock syndrome <sup>†</sup>	119	86
Encephalitis/M	leningitis:	-	-	Tetanus	10	17
	California serogroup viral†	23	71	Toxic-shock syndrome	93	76
	eastern equine <sup>†</sup>	5	2	Trichinosis	2	13
	Powassan <sup>†</sup>	-	1	Tularemia <sup>†</sup>	53	58
	St. Louis†	1	14	Yellow fever	-	-
	western equine <sup>†</sup>	91	-			

<sup>-:</sup> No reported cases.

<sup>\*</sup> No rubella cases were reported for the current 4-week period yielding a ratio for week 37 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.

Incidence data for reporting years 2002 and 2003 are provisional and cumulative (year-to-date).

Not notifiable in all states.

<sup>§</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 24, 2003.

Of 35 cases reported, 29 were indigenous, and six were imported from another country.

<sup>\*\*</sup> Of 26 cases reported, 13 were indigenous, and 13 were imported from another country.

TABLE II. Provisional cases of selected notifiable diseases, United States, weeks ending September 13, 2003, and September 14, 2002 (37th Week)\*

	AII	DS	Chla	mydia†	Coccidiodomycosis		Cryptosporidiosis		Encephalitis/Meningit West Nile	
Reporting area	Cum. 2003§	Cum. 2002	Cum. 2003	Cum. 2002	Cum. 2003	Cum. 2002	Cum. 2003	Cum. 2002	Cum. 2003	Cum. 2002
UNITED STATES	30,269	27,789	565,913	579,825	2,540	3,209	1,806	2,041	510	1,455
NEW ENGLAND	989	1,102	19,116	19,097	-	-	111	139	-	16
Лаine I.H.	49 24	25 22	1,345 1,023	1,127 1,099	N	N	15 11	9 23	-	-
/t.	13	8	690	626	-	-	23	23	-	-
∕lass. R.I.	408 79	579 74	7,919 2,055	7,628 1,930	-	-	41 12	57 14	-	11
Conn.	416	394	6,084	6,687	N	N	9	13	-	5
IID. ATLANTIC	6,726	6,437	76,377	64,936	-		232	257	30	53
Jpstate N.Y. I.Y. City	693 3,390	502 3,663	13,690 22,923	11,693 21,590	N -	N -	75 57	69 105	1 -	14 23
l.J.	1,159	1,026	9,670	9,873	-		4	15	2	15
Pa.	1,484	1,246	30,094	21,780	N	N	96	68	27	1
E.N. CENTRAL Dhio	2,925 555	2,868 510	90,075 19,151	106,520 26,481	7	19 -	460 77	689 95	21 21	786 77
nd.	378	397	10,745	11,829	Ν	N	59	28	-	16
II. ∕Iich.	1,348 506	1,357 461	27,917 21,727	33,858 22,396	7	2 17	45 85	90 82	-	492 178
Vis.	138	143	10,535	11,956	-	-	194	394	-	23
V.N. CENTRAL Jinn.	563 110	477 105	32,687 7,094	32,884 7,371	1 N	1 N	314 91	275 136	93 14	41
owa	63	58	2,676	3,828	N	N	52	32	6	-
Ло. I. Dak.	266 2	217 1	12,249 700	11,057 850	N	- N	24 12	26 10	6 5	17
S. Dak.	9	3	1,821	1,498	-	-	29	17	16	14
lebr.¶ (ans.	39 74	44 49	3,269 4,878	3,333 4,947	1 N	1 N	9 97	40 14	24 22	8 2
S. ATLANTIC	8,582	8,222	110,217	108,994	3	3	235	212	40	31
Del.	176	142	2,123	1,860	N	N	3	2	1	-
/ld. ).C.	994 765	1,199 394	11,655 2,053	11,167 2,310	3	3 -	13 12	13 4	10	9
′a.	655	578	11,770	12,436	-	-	34	10	-	-
V. Va. I.C.	61 869	66 628	1,787 18,594	1,699 17,285	N N	N N	4 27	2 26	-	-
S.C. <sup>1</sup>	551	586	10,678	10,360	-	-	3	5	1	1
a. Ta.	1,369 3,142	1,234 3,395	23,192 28,365	22,132 29,745	N	N	73 66	86 64	8 20	18 3
S. CENTRAL	1,306	1,247	36,959	37,325	N	N	92	100	14	198
⟨y. ⁻enn.	111 575	198 525	5,794 14,235	6,127 11,552	N N	N N	20 32	4 48	4 4	12
la.	308	248	8,424	11,671	-	-	32	41	6	13
liss.	312	276	8,506	7,975	N	N	8	7	-	173
V.S. CENTRAL ark.	3,128 127	3,024 175	70,708 5,345	77,316 5,368	-	10	32 8	48 7	135 9	329 6
.a.	414	782	12,093	13,881	N	N	2	8	2	181
Okla. Tex.	154 2,433	143 1,924	6,828 46,442	8,122 49,945	N -	N 10	9 13	10 23	9 115	142
MOUNTAIN	1,152	885	32,873	35,864	1,801	2,086	94	120	177	1
∕lont.	11	8	1,288	1,528	N	N	17	4	170	-
daho Vyo.	17 6	23 6	1,777 700	1,753 658	N 1	N -	20 3	20 9	3	-
Colo.	296	178	7,735	9,904	N	N 7	22	44	-	-
I. Mex. riz.	92 490	59 370	5,052 9,415	5,262 10,566	5 1,761	2,041	8 4	18 11	2	-
Jtah Joy	47 193	49	3,061	1,976	9	10	14 6	11 3	1	-
lev. PACIFIC	4,898	192 3,527	3,845 96,901	4,217 96,889	25 727	28 1,089	236	201	-	-
Vash.	311	336	11,466	10,354	N	N	25	22	-	-
Oreg. Calif.	184 4,319	234 2,854	4,378 76,240	4,798 76,016	- 727	1,089	31 180	29 149	-	-
Alaska	13	22	2,559	2,588	-	-	-	-	-	-
lawaii	71	81	2,258	3,133	-	-	-	1	-	-
auam P.R.	6 787	1 798	1,367	444 1,833	N	- N	- N	- N	-	-
<i>!</i> .l.	25	63	142	125	-	-	-	-	-	-
mer. Samoa C.N.M.I.	U 2	U U	U -	U U	U -	U U	U -	U U	U -	U U

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

\* Incidence data for reporting years 2002 and 2003 are provisional and cumulative (year-to-date).

† Chlamydia refers to genital infections caused by *C. trachomatis*.

§ 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 31, 2003.

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

TABLE II. (*Continued*) Provisional cases of selected notifiable diseases, United States, weeks ending September 13, 2003, and September 14, 2002 (37th Week)\*

(37th Week)*		Eschor	ichia coli, Ente	rohomorrhagic	· /EUEC\					
		Escrier		n positive,	Shiga toxii	n positive,				
	01	57:H7	_	non-O157	not sero	-	Gia	rdiasis	Gor	orrhea
Reporting area	Cum. 2003	Cum. 2002	Cum. 2003	Cum. 2002	Cum. 2003	Cum. 2002	Cum. 2003	Cum. 2002	Cum. 2003	Cum. 2002
UNITED STATES	1,454	2,469	157	135	95	32	11,627	13,786	214,259	247,229
NEW ENGLAND	98	187	28	37	11	4	817	1,251	4,916	5,399
Maine N.H.	8 11	24 22	1 2	6	-	-	115 21	133 33	138 76	95 86
Vt.	13	8	-	1	-	-	84	91	54	75
Mass. R.I.	39 1	89 8	3	16 1	11	4	354 82	682 101	2,045 672	2,329 611
Conn.	26	36	22	13	-	-	161	211	1,931	2,203
MID. ATLANTIC Upstate N.Y.	167 68	265 118	11 7	1 -	24 11	6	2,307 666	2,794 777	29,449 5,368	29,652 6,042
N.Y. City	3	13	-	-	-	<del>-</del>	752	1,048	9,032	8,893
N.J. Pa.	13 83	46 88	4	1	13	1 5	241 648	329 640	5,744 9,305	5,404 9,313
E.N. CENTRAL	336	620	18	26	16	3	1,893	2,365	40,078	51,637
Ohio Ind.	69 63	103 47	13 -	9	15 -	2	610 -	611 -	10,401 4,170	14,934 5,054
III.	63	147	-	6	-	-	482	682	12,577	17,179
Mich. Wis.	56 85	98 225	5	3 8	1	1 -	484 317	606 466	9,343 3,587	10,182 4,288
W.N. CENTRAL	254	347	26	25	20	3	1,280	1,381	11,527	12,705
Minn. Iowa	83 57	117 86	14	21 -	1 -	-	497 174	530 211	1,951 607	2,207 877
Mo. N. Dak.	57	46 4	8	-	1 9	-	333 24	332 13	5,876 30	6,268 51
S. Dak.	8 17	31	3	1	-	-	50	50	159	178
Nebr. Kans.	14 18	41 22	1 -	3	9	3	84 118	122 123	1,083 1,821	1,105 2,019
S. ATLANTIC	105	190	49	22	5	-	1,864	2,025	54,674	63,010
Del. Md.	4 7	5 20	N	N	N	N	29 75	36 85	835 5,527	1,122 6,293
D.C.	1	-	-	-	-	-	36	29	1,648	1,878
Va. W. Va.	30 3	44 4	8 -	5	-	-	237 27	191 35	5,445 611	7,337 686
N.C.	4	31	16	-	-	-	N	N	10,741	11,406
S.C. Ga.	21	5 38	2	7	-	-	82 645	75 660	5,827 11,520	6,686 12,182
Fla.	35	43	23	10	5	-	733	914	12,520	15,420
E.S. CENTRAL Ky.	55 18	81 20	2 2	-	6 6	9 9	236 N	259 N	17,943 2,555	21,572 2,582
Tenn. Ala.	22 12	36 17	-	-	-	-	116 120	117 142	5,851 5,251	6,672 7,525
Miss.	3	8	-	-	-	-	-	-	4,286	4,793
W.S. CENTRAL	40	86	1	-	7	3	203	164	29,112	34,765
Ark. La.	7 3	9 3	-	-	-	-	106 5	110 4	2,817 7,250	3,337 8,568
Okla. Tex.	20 10	16 58	- 1	-	7	3	92	48 2	2,691 16,354	3,455 19,405
MOUNTAIN	182	238	20	18	6	4	1,055	1,092	6,960	7,742
Mont.	12	21	-	-	-	-	75	65	69	65
Idaho Wyo.	42 2	33 8	15	10 1	-	-	132 16	83 21	55 32	60 43
Colo. N. Mex.	39 6	72 5	2 3	4 3	6	4	286 32	361 118	1,772 819	2,439 1,060
Ariz.	24	27	N	N	N	N	194	140	2,587	2,559
Utah Nev.	40 17	50 22	-	-	-	-	239 81	206 98	304 1,322	189 1,327
PACIFIC	217	455	2	6	-	-	1,972	2,455	19,600	20,747
Wash. Oreg.	62 63	103 160	1	- 6	-	-	197 275	284 299	1,924 581	2,049 598
Calif.	85	154	-	-	-	-	1,390	1,737	16,205	17,205
Alaska Hawaii	2 5	6 32	-	-	-	-	52 58	68 67	360 530	425 470
Guam	N	N	-	-	-	-	-	7	-	36
P.R. V.I.	-	1	-	-	-	-	35	55 -	147 36	264 31
Amer. Samoa	U	Ü	U	U	U	U	U	U	U	U
C.N.M.I.	-	U	-	U	-	U	-	U	-	U

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

\* Incidence data for reporting years 2002 and 2003 are provisional and cumulative (year-to-date).

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending September 13, 2003, and September 14, 2002 (37th Week)\*

(37th Week)*				Haemonhilus	influenzae, inv	vasive <sup>†</sup>			Hen	atitis
	All a	ages		naemopinius		years			<b>→</b>	te), by type
		rotypes	Sero	type b		rotype b	Unknown	serotype	<u> </u>	A
	Cum.	Cum.	Cum.	Cum.	Cum.	Cum.	Cum.	Cum.	Cum.	Cum.
Reporting area UNITED STATES	<b>2003</b> 1,241	1,230	<b>2003</b>	<b>2002</b> 25	<b>2003</b> 71	<b>2002</b> 100	2003 131	<b>2002</b> 112	<b>2003</b> 4,108	<b>2002</b> 6,529
NEW ENGLAND	97	83	1	25	6	8	5	2	202	227
Maine	4	1	-	-	-	-	1	-	9	7
N.H. Vt.	11 7	7 6	1	-	-	-	-	-	11 6	11 1
Mass.	45	39	-	-	6	4	3	2	117	102
R.I. Conn.	5 25	10 20	-	-	-	4	1 -	-	11 48	29 77
MID. ATLANTIC	279	225	-	2	1	13	35	20	854	824
Upstate N.Y. N.Y. City	103 44	88 54	-	2	1	4	11 9	6 9	89 310	131 310
N.J.	52	44	-	-	-	-	6	5	103	138
Pa.	80	39	-	-	-	9	9	-	352	245
E.N. CENTRAL Ohio	181 57	243 62	3	3 -	7	9 1	28 10	31 7	443 76	820 231
Ind.	36	35	-	1	4	7	-	-	49	37
III. Mich.	58 19	93 11	3	2	3	1	14 1	16 -	140 140	216 174
Wis.	11	42	-	-	-	-	3	8	38	162
W.N. CENTRAL Minn.	89 34	52 32	-	1	6 6	2 2	11 2	3 1	137 37	236 36
Iowa	-	1	-	-	-	-	-	-	22	53
Mo. N. Dak.	35 1	11 4	-	-	-	-	9	2	48	69 1
S. Dak.	1	1	-	-	-	-	-	-	-	3
Nebr. Kans.	2 16	3	-	-	-	-	-	-	7 23	16 58
S. ATLANTIC	287	280	1	5	12	15	14	21	981	1,796
Del. Md.	- 63	- 71	-	2	- 5	3	-	- 1	4 105	10 228
D.C.	-	-	-	-	-	-	-	-	29	57
Va. W. Va.	40 13	24 15	-	-	-	1	5	4 1	62 13	81 15
N.C.	32	30	-	-	3	3	1	-	58	168
S.C. Ga.	3 51	10 58	-	-	-	-	5	2 10	26 368	49 361
Fla.	85	72	1	3	4	8	3	3	316	827
E.S. CENTRAL Ky.	55 4	52 4	1	1	-	4 1	7	9	123 23	199 40
Tenn.	31	26	-	-	-	-	4	6	73	80
Ala. Miss.	18 2	14 8	1 -	1 -	-	3	2 1	1 2	13 14	31 48
W.S. CENTRAL	50	42	1	2	7	7	3	2	177	750
Ark.	6 7	1	-	-	1	-	-	-	17	41
La. Okla.	34	6 33	-	-	6	7	2 1	2	38 10	63 38
Tex.	3	2	1	2	-	-	-	-	112	608
MOUNTAIN Mont.	127	139	4	4	17 -	25 -	18	13	348 7	411 12
Idaho	4	2	-	-	-	-	1	1	-	24
Wyo. Colo.	1 25	2 26	-	-	-	-	5	2	1 53	2 65
N. Mex. Ariz.	14 64	22 62	- 4	2	4 6	6 14	1 8	1 6	15	15 225
Utah	11	62 14	-	1	4	3	3	-	205 28	31
Nev.	8	11	-	1	3	2	-	3	39	37
PACIFIC Wash.	76 9	114 2	1 -	7 1	15 6	17 1	10 2	11	843 40	1,266 122
Oreg.	37	44	-	-	-	-	3	3	46	49
Calif. Alaska	17 -	38 1	1 -	6	9	16	4	4 1	743 8	1,067 8
Hawaii	13	29	-	-	-	-	1	3	6	20
Guam P.R.	-	- 1	-	-	-	-	-	-	- 26	- 168
V.I.		-		- -			-	- -	-	-
Amer. Samoa C.N.M.I.	U -	U U	U -	U U	U -	U U	U -	U U	U -	U U
N: Not notifiable.	U: Unavailable.		orted cases.							

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

\* Incidence data for reporting years 2002 and 2003 are provisional and cumulative (year-to-date).

† Non-serotype b: nontypeable and type other than b; Unknown serotype: type unknown or not reported. Previously, cases reported without type information were counted as non-serotype b.

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending September 13, 2003, and September 14, 2002 (37th Week)\*

Reporting area  UNITED STATES  NEW ENGLAND Maine N.H. Vt. Mass. R.I. Conn. MID. ATLANTIC Upstate N.Y. N.Y. City N.J. Pa.  E.N. CENTRAL Ohio Ind. III. Mich. Wis.  W.N. CENTRAL Minn. Iowa Mo. N. Dak. S. Dak. Nebr. Kans. S. ATLANTIC Del. Md. D.C. Va. W. Va. N.C. S.C. Ga. Fla. E.S. CENTRAL Ky. Tenn. Ala. Miss. W.S. CENTRAL	Cum. 2003 4,302 169 1 11 2 139 8 8 694 80 251 165 198 267 92 25 1 126 23 227 28 7 158 2 2 17 13 1,356 5	Cum. 2002  5,154  198  8  13  4  112  21  40  1,087  83  538  220  246  460  68  31  98  224  39  158  20  13  82  4  1  21  17	acute), by ty  Cum. 2003  910  2  - 2  - U  119 35 - 84  118 7 7 7 14 90 - 163 8 1 153 - 1	C Cum. 2002  1,347  18  12  6 - U  71 30 - 4 37 76 - 16 57 3 585 2 1 572 - 1	Legion Cum. 2003  1,275  51 2 6 5 19 3 16 353 105 28 34 186 259 164 20 3 59 13 46 3 9 21	Cum. 2002 757 66 2 4 26 25 1 8 206 54 43 25 84 194 67 13 21 63 30 40 9	Lister Cum. 2003 400 33 6 3 - 13 - 11 78 22 11 11 34 48 18 5 5 16 4 15 8	Cum. 2002 412 40 4 4 2 19 1 10 120 34 30 24 32 56 15 6 13 15 7	Cum. 2003  11,315  1,963 150 87 30 412 402 882 7,625 2,996 4 1,372 3,253 498 51 15 4 428 252 185	Cum. 2002  13,723  3,400 49 178 28 1,626 186 1,333 7,770 3,423 55 1,915 2,377 1,090 45 17 46 24 958 186 112
Reporting area UNITED STATES  NEW ENGLAND Maine N.H. Vt. Mass. R.I. Conn. MID. ATLANTIC Upstate N.Y. N.Y. City N.J. Pa. E.N. CENTRAL Ohio Ind. III. Mich. Wis. W.N. CENTRAL Minn. lowa Mo. N. Dak. S. Dak. Nebr. Kans. S. ATLANTIC Del. Md. D.C. Va. W. Va. N.C. S.C. Ga. Fla. E.S. CENTRAL Ky. Tenn. Ala. Miss. W.S. CENTRAL	2003 4,302 169 1 11 2 139 8 8 694 80 251 165 198 267 92 25 1 126 23 227 28 7 158 2 2 17 13 13 13 13 16 16 16 16 16 16 16 16 16 16	5,154  198  8  13  4  112  21  40  1,087  83  538  220  246  460  68  31  98  224  39  158  20  13  82  4  1  21  17	2003 910 2 2 U 119 35 84 118 7 7 14 90 163 8 1 153	2002  1,347  18  12  6 U  71 30 - 4 37 76 16 57 3 585 2 1 572	2003  1,275  51 2 6 5 19 3 16 353 105 28 34 186 259 164 20 3 59 13 46 3 9 21	757 66 2 4 26 25 1 8 206 54 43 25 84 194 67 13 21 63 30 40 9 9	2003  400  33  6  3  -  13  -  11  78  22  11  11  34  48  18  5  5  16  4  15  8  -	2002 412 40 4 4 2 19 1 10 120 34 30 24 32 56 15 6 13 15 7 11 1	2003  11,315  1,963 150 87 30 412 402 882 7,625 2,996 4 1,372 3,253 498 51 15 4 428 252 185	2002  13,723  3,400  49  178  28  1,626  186  1,333  7,770  3,423  55  1,915  2,377  1,090  45  17  46  24  958  186
UNITED STATES  NEW ENGLAND Maine N.H. Vt. Mass. R.I. Conn. MID. ATLANTIC Upstate N.Y. N.Y. City N.J. Pa. E.N. CENTRAL Ohio Ind. III. Mich. Wis. W.N. CENTRAL Minn. lowa Mo. N. Dak. S. Dak. Nebr. Kans. S. ATLANTIC Del. Md. D.C. Va. W. Va. N.C. S.C. Ga. Fla. E.S. CENTRAL Ky. Tenn. Ala. Miss. W.S. CENTRAL	4,302 169 1 11 2 139 8 8 694 80 251 165 198 267 92 25 1 126 23 227 28 7 158 2 2 17 13 13 13 13 14 15 16 17 17 18 18 18 18 18 18 18 18 18 18	5,154  198  8  13  4  112  21  40  1,087  83  538  220  246  460  68  31  98  224  39  158  20  13  82  4  1  21  17	910 2 - - 2 - U 119 35 - - 84 118 7 7 14 90 - - 163 8 1 153	1,347  18  12  6 - U  71 30 - 4 37 76 16 57 3 585 2 1 572	1,275 51 2 6 5 19 3 16 353 105 28 34 186 259 164 20 3 59 13 46 3 9 21	757 66 2 4 26 25 1 8 206 54 43 25 84 194 67 13 21 63 30 40 9 9	400 33 6 3 - 13 - 11 78 22 11 11 34 48 18 5 5 16 4 15 8	412 40 4 4 2 19 1 10 120 34 30 24 32 56 13 15 6 13 15 7	11,315 1,963 1,50 87 30 412 402 882 7,625 2,996 4 1,372 3,253 498 51 15 4 428 252 185	13,723 3,400 49 178 28 1,626 186 1,333 7,770 3,423 55 1,915 2,377 1,090 45 17 46 24 958
Maine N.H. Vt. Mass. R.I. Conn. MID. ATLANTIC Upstate N.Y. N.Y. City N.J. Pa. E.N. CENTRAL Ohio Ind. III. Mich. Wis. W.N. CENTRAL Minn. Iowa Mo. N. Dak. S. Dak. Nebr. Kans. S. ATLANTIC Del. Md. D.C. Va. W. Va. N.C. S.C. Ga. Fla. E.S. CENTRAL Ky. Tenn. Ala. Miss. W.S. CENTRAL	1 11 2 139 8 8 8 694 80 251 165 198 267 92 25 1 126 23 227 28 7 158 2 2 17 13 1,356 5	8 13 4 112 21 40 1,087 83 538 220 246 460 68 31 98 224 39 158 20 13 82 4 1 21	2 - - U 119 35 - - 84 118 7 7 7 14 90 - - 163 8 1 153	12 6 - U 71 30 - 4 37 76 - 16 57 3 585 2 1 572	2 6 5 19 3 16 353 105 28 34 186 259 164 20 3 59 13 46 3 9 21	2 4 26 25 1 8 206 54 43 25 84 194 67 13 21 63 30 40 9	6 3 - 13 - 11 78 22 11 11 34 48 18 5 5 16 4 15 8	4 4 2 19 1 10 120 34 30 24 32 56 13 15 6	150 87 30 412 402 882 7,625 2,996 4 1,372 3,253 498 51 15 4 428 252 185	49 178 28 1,626 186 1,333 7,770 3,423 55 1,915 2,377 1,090 45 17 46 24 958
N.H. Vt. Mass. R.I. Conn. MID. ATLANTIC Upstate N.Y. N.Y. City N.J. Pa. E.N. CENTRAL Ohio Ind. III. Mich. Wis. W.N. CENTRAL Minn. lowa Mo. N. Dak. S. Dak. Nebr. Kans. S. ATLANTIC 1 Del. Md. D.C. Va. W. Va. N.C. S.C. Ga. Fla. E.S. CENTRAL Ky. Tenn. Ala. Miss. W.S. CENTRAL	11 2 139 8 8 8 694 80 251 165 198 267 92 25 1 126 23 227 28 7 158 2 2 17 13 1,356 5	13 4 112 21 40 1,087 83 538 220 246 460 68 31 98 224 39 158 20 13 82 4 1 21	2 U 119 35 - 84 118 7 7 7 14 90 - 163 8 1 153	12 6 - U 71 30 - 4 37 76 - 16 57 3 585 2 1 572	6 5 19 3 16 353 105 28 34 186 259 164 20 3 59 13 46 3 9 21	4 26 25 1 8 206 54 43 25 84 194 67 13 21 63 30 40 9	3 - 13 - 11 78 22 11 11 34 48 18 5 5 16 4	4 2 19 1 10 120 34 30 24 32 56 15 6 13 15 7	87 30 412 402 882 7,625 2,996 4 1,372 3,253 498 51 15 4 428	178 28 1,626 186 1,333 7,770 3,423 55 1,915 2,377 1,090 45 17 46 24 958
Mass. R.I. Conn. MID. ATLANTIC Upstate N.Y. N.Y. City N.J. Pa. E.N. CENTRAL Ohio Ind. III. Mich. Wis. W.N. CENTRAL Minn. Iowa Mo. N. Dak. S. Dak. Nebr. Kans. S. ATLANTIC Del. Md. D.C. Va. W. Va. W. Va. N. C. S. C. Ga. Fla. E.S. CENTRAL Ky. Tenn. Ala. Miss. W.S. CENTRAL	139 8 8 694 80 251 165 198 267 92 25 1 126 23 227 28 7 158 2 2 17 13 1,356 5	112 21 40 1,087 83 538 220 246 460 68 31 98 224 39 158 20 13 82 4 1 21	119 35 - - 84 118 7 7 7 14 90 - 163 8 1 153	6 - U 71 30 - 4 37 76 - 16 57 3 585 2 1 572	19 3 16 353 105 28 34 186 259 164 20 3 59 13 46 3 9 21	25 1 8 206 54 43 25 84 194 67 13 21 63 30 40 9	11 78 22 11 11 34 48 18 5 5 16 4	19 1 10 120 34 30 24 32 56 15 6 13 15 7	412 402 882 7,625 2,996 4 1,372 3,253 498 51 15 4 428	1,626 186 1,333 7,770 3,423 55 1,915 2,377 1,090 45 17 46 24 958
R.I. Conn. MID. ATLANTIC Upstate N.Y. N.Y. City N.J. Pa. E.N. CENTRAL Ohio Ind. III. Mich. Wis. W.N. CENTRAL Minn. Iowa Mo. N. Dak. S. Dak. Nebr. Kans. S. ATLANTIC Del. Md. D.C. Va. W. Va. N.C. S.C. Ga. Fla. E.S. CENTRAL Ky. Tenn. Ala. Miss. W.S. CENTRAL	8 8 8 8 694 80 251 165 198 267 92 25 1 126 23 227 28 7 7 158 2 2 17 13 1,356 5	21 40 1,087 83 538 220 246 460 68 31 98 224 39 158 20 13 82 4 1 21	119 35 - 84 118 7 7 14 90 - 163 8 1 153	71 30 4 37 76 - 16 57 3 585 2 1 572	3 16 353 105 28 34 186 259 164 20 3 59 13 46 3 9	1 8 206 54 43 25 84 194 67 13 21 63 30 40 9	11 78 22 11 11 34 48 18 5 5 16 4	1 10 120 34 30 24 32 56 15 6 13 15 7	402 882 7,625 2,996 4 1,372 3,253 498 51 15 4 428 252	186 1,333 7,770 3,423 55 1,915 2,377 1,090 45 17 46 24 958
MID. ATLANTIC Upstate N.Y. N.Y. City N.J. Pa. E.N. CENTRAL Ohio Ind. III. Mich. Wis. W.N. CENTRAL Minn. Iowa Mo. N. Dak. S. Dak. Nebr. Kans. S. ATLANTIC Del. Md. D.C. Va. W. Va. N.C. S.C. Ga. Fla. E.S. CENTRAL Ky. Tenn. Ala. Miss. W.S. CENTRAL	694 80 251 165 198 267 92 25 1 126 23 227 28 7 158 2 2 17 13	1,087 83 538 220 246 460 68 31 98 224 39 158 20 13 82 4 1 21	119 35 - 84 118 7 7 7 14 90 - 163 8 1 153	71 30 - 4 37 76 - - 16 57 3 585 2 1 572	353 105 28 34 186 259 164 20 3 59 13 46 3 9	206 54 43 25 84 194 67 13 21 63 30 40 9	78 22 11 11 34 48 18 5 5 16 4 15 8	120 34 30 24 32 56 15 6 13 15 7	7,625 2,996 4 1,372 3,253 498 51 15 4 428	7,770 3,423 55 1,915 2,377 1,090 45 17 46 24 958
Upstate N.Y. N.Y. City N.J. Pa. E.N. CENTRAL Ohio Ind. III. Mich. Wis. W.N. CENTRAL Minn. Iowa Mo. N. Dak. S. Dak. Nebr. Kans. S. ATLANTIC Del. Md. D.C. Va. W. Va. N.C. S.C. Ga. Fla. E.S. CENTRAL Ky. Tenn. Ala. Miss. W.S. CENTRAL	80 251 165 198 267 92 25 1 126 23 227 28 7 158 2 2 17 13 1,356 5	83 538 220 246 460 68 31 98 224 39 158 20 13 82 4 1 21	35 - 84 118 7 7 14 90 - 163 8 1 153	30 - 4 37 76 - - 16 57 3 585 2 1 572	105 28 34 186 259 164 20 3 59 13 46 3 9	54 43 25 84 194 67 13 21 63 30 40 9	22 11 11 34 48 18 5 5 16 4 15 8	34 30 24 32 56 15 6 13 15 7	2,996 4 1,372 3,253 498 51 15 4 428 252 185	3,423 55 1,915 2,377 1,090 45 17 46 24 958
N.J. Pa. E.N. CENTRAL Ohio Ind. III. Mich. Wis. W.N. CENTRAL Minn. Iowa Mo. N. Dak. S. Dak. Nebr. Kans. S. ATLANTIC Del. Md. D.C. Va. W. Va. N.C. S.C. Ga. Fla. E.S. CENTRAL Ky. Tenn. Ala. Miss. W.S. CENTRAL	165 198 267 92 25 1 126 23 227 28 7 158 2 2 17 13	220 246 460 68 31 98 224 39 158 20 13 82 4 1 21	118 7 7 7 14 90 - 163 8 1 153	4 37 76 - 16 57 3 585 2 1 572	34 186 259 164 20 3 59 13 46 3	25 84 194 67 13 21 63 30 40 9	11 34 48 18 5 5 16 4 15	24 32 56 15 6 13 15 7	1,372 3,253 498 51 15 4 428 252 185	1,915 2,377 1,090 45 17 46 24 958
Pa. E.N. CENTRAL Ohio Ind. III. Mich. Wis. W.N. CENTRAL Minn. Iowa Mo. N. Dak. S. Dak. Nebr. Kans. S. ATLANTIC Del. Md. D.C. Va. W. Va. N.C. S.C. Ga. Fla. E.S. CENTRAL Ky. Tenn. Ala. Miss. W.S. CENTRAL	198 267 92 25 1 126 23 227 28 7 158 2 2 17 13 1,356 5	246 460 68 31 98 224 39 158 20 13 82 4 1 21	118 7 7 14 90 - 163 8 1 153	37 76 - 16 57 3 585 2 1 572	186 259 164 20 3 59 13 46 3 9	84 194 67 13 21 63 30 40 9	34 48 18 5 5 16 4 15 8	32 56 15 6 13 15 7	3,253 498 51 15 4 428 252 185	2,377 1,090 45 17 46 24 958 186
Ohio Ind. Ind. III. Mich. Wis. W.N. CENTRAL Minn. Iowa Mo. N. Dak. S. Dak. Nebr. Kans. S. ATLANTIC Del. Md. D.C. Va. W. Va. N.C. S.C. Ga. Fla. E.S. CENTRAL Ky. Tenn. Ala. Miss. W.S. CENTRAL	92 25 1 126 23 227 28 7 158 2 2 17 13	68 31 98 224 39 158 20 13 82 4 1 21	7 7 14 90 - 163 8 1 153	- 16 57 3 585 2 1 572	164 20 3 59 13 46 3 9	67 13 21 63 30 40 9	18 5 5 16 4 15 8	15 6 13 15 7 11	51 15 - 4 428 252 185	45 17 46 24 958
Ind. III. Mich. Wis. W.N. CENTRAL Minn. Iowa Mo. N. Dak. S. Dak. Nebr. Kans. S. ATLANTIC Del. Md. D.C. Va. W. Va. N.C. S.C. Ga. Fla. E.S. CENTRAL Ky. Tenn. Ala. Miss. W.S. CENTRAL	25 1 126 23 227 28 7 158 2 2 17 13 1,356 5	31 98 224 39 158 20 13 82 4 1 21	7 14 90 - 163 8 1 153	- 16 57 3 585 2 1 572	20 3 59 13 46 3 9	13 21 63 30 40 9	5 5 16 4 15 8	6 13 15 7 11 1	15 - 4 428 252 185	17 46 24 958 186
Mich. Wis. W.N. CENTRAL Minn. Iowa Mo. N. Dak. S. Dak. Nebr. Kans. S. ATLANTIC Del. Md. D.C. Va. W. Va. N.C. S.C. Ga. Fla. E.S. CENTRAL Ky. Tenn. Ala. Miss. W.S. CENTRAL	126 23 227 28 7 158 2 2 17 13 1,356 5	224 39 158 20 13 82 4 1 21	90 - 163 8 1 153	57 3 585 2 1 572	59 13 46 3 9 21	63 30 40 9 9	16 4 15 8	15 7 11 1	4 428 252 185	24 958 186
Wis. W.N. CENTRAL Minn. lowa Mo. N. Dak. S. Dak. Nebr. Kans. S. ATLANTIC 1 Del. Md. D.C. Va. W. Va. N.C. S.C. Ga. Fla. E.S. CENTRAL Ky. Tenn. Ala. Miss. W.S. CENTRAL	23 227 28 7 158 2 2 17 13 1,356 5	39 158 20 13 82 4 1 21	- 163 8 1 153 -	3 585 2 1 572	13 46 3 9 21	30 40 9 9	4 15 8	7 11 1	428 252 185	958 186
Minn. Iowa Mo. N. Dak. S. Dak. Nebr. Kans. S. ATLANTIC Del. Md. D.C. Va. W. Va. N.C. S.C. Ga. Fla. E.S. CENTRAL Ky. Tenn. Ala. Miss. W.S. CENTRAL	28 7 158 2 2 17 13 1,356 5	20 13 82 4 1 21	8 1 153 -	2 1 572	3 9 21	9 9	8 -	1	185	
lowa Mo. N. Dak. S. Dak. Nebr. Kans. S. ATLANTIC Del. Md. D.C. Va. W. Va. N.C. S.C. Ga. Fla. E.S. CENTRAL Ky. Tenn. Ala. Miss. W.S. CENTRAL	7 158 2 2 17 13 1,356 5	13 82 4 1 21 17	1 153 - -	1 572 -	9 21	9	-			112
N. Dak. S. Dak. Nebr. Kans. S. ATLANTIC 1 Del. Md. D.C. Va. W. Va. N.C. S.C. Ga. Fla. E.S. CENTRAL Ky. Tenn. Ala. Miss. W.S. CENTRAL	2 2 17 13 1,356 5	4 1 21 17	-	-		4.4		1	26	30
S. Dak. Nebr. Kans. S. ATLANTIC 1 Del. Md. D.C. Va. W. Va. N.C. S.C. Ga. Fla. E.S. CENTRAL Ky. Tenn. Ala. Miss. W.S. CENTRAL	2 17 13 1,356 5	1 21 17			1	11	4	6 1	29	34
Kans. S. ATLANTIC 1 Del. Md. D.C. Va. W. Va. N.C. S.C. Ga. Fla. E.S. CENTRAL Ky. Tenn. Ala. Miss. W.S. CENTRAL	13 1,356 5	17	1		2	2	-	-	-	1
Del. Md. DC. Va. W. Va. N. C. S. C. Ga. Fla. E. S. CENTRAL Ky. Tenn. Ala. Miss. W.S. CENTRAL	5	1 000	-	9	2 8	9	3	1 1	2 10	5 4
Md. D.C. Vva. W. Va. N.C. S.C. Ga. Fla. E.S. CENTRAL Ky. Tenn. Ala. Miss. W.S. CENTRAL		1,230	124	149	362	133	86	56	811	1,017
D.C. Va. W. Va. W. Va. N.C. S. C. Ga. Fla. E.S. CENTRAL Ky. Tenn. Ala. Miss. W.S. CENTRAL	94	13 94	- 13	8	20 86	7 25	N 13	N 12	133 480	146 585
W. Va. N. C. S. C. Ga. Fla. E. S. CENTRAL Ky. Tenn. Ala. Miss. W. S. CENTRAL	7	14	-	-	11	5	-	-	6	17
S.C. Ga. Fla. E.S. CENTRAL Ky. Tenn. Ala. Miss. W.S. CENTRAL	130 20	142 18	6 1	6 2	69 12	16 -	9 5	4	57 14	101 12
Ga. Fla. E.S. CENTRAL Ky. Tenn. Ala. Miss. W.S. CENTRAL	111 110	174 81	10 24	22 4	26 5	7 6	14 2	5 8	62 2	95 12
E.S. CENTRAL Ky. Tenn. Ala. Miss. W.S. CENTRAL	404	318	3	60	19	12	21	9	12	1
Ky. Tenn. Ala. Miss. W.S. CENTRAL	475	376	67	47	114	55	22	18	45	48
Ala. Miss. W.S. CENTRAL	285 49	264 45	60 9	101 4	75 31	24 10	23 5	10 2	42 10	51 18
Miss. W.S. CENTRAL	139 45	100 53	18 6	22 6	28 13	8 6	6 10	5 3	12 5	16 8
	52	66	27	69	3	-	2	-	15	9
A 1	222	718	195	214	25	23	19	24	33	110
Ark. La.	38 46	89 96	3 46	10 67	2	4	1 1	1	3	2 3
Okla. Tex.	31 107	41 492	2 144	4 133	5 18	3 16	2 15	7 16	30	105
MOUNTAIN	455	447	53	45	45	28	24	23	15	13
Mont.	13	4	1	-	2	3	2	-	-	-
daho Wyo.	27	6 14	-	5	3 2	2	-	2	3 1	1
Colo. N. Mex.	59 26	58 125	26	6 2	9 2	5 2	9 2	4 2	4	1 1
Ariz.	227	166	7	4	9	6	7	11	1	2
Utah Nev.	47 56	30 44	19	4 24	13 5	7 3	2	3 1	3 3	4 1
PACIFIC	627	592	76	88	59	43	74	72	76	86
Wash. Oreg.	47 83	53 100	13 11	17 10	8 N	3 N	2 4	8 8	2 15	8 11
Calif.	474	427	50	60	51	40	64	49	56	65
Alaska Hawaii	8 15	6 6	1 1	1	-	-	4	7	3 N	2 N
Guam		-	-	-	-	-	-	-	-	-
P.R. V.I.	-	1/10	-	-	-	-	-	2	N -	N -
Amer. Samoa C.N.M.I.	- 41 -	140	U	U	U	U U	U	U U	U	U U

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

\* Incidence data for reporting years 2002 and 2003 are provisional and cumulative (year-to-date).

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending September 13, 2003, and September 14, 2002 (37th Week)\*

	Mal	aria	Meningococcal disease		Pert	Pertussis		s, animal	Rocky Mountain spotted fever	
Reporting area	Cum. 2003	Cum. 2002	Cum. 2003	Cum. 2002	Cum. 2003	Cum. 2002	Cum. 2003	Cum. 2002	Cum. 2003	Cum. 2002
UNITED STATES	688	1,024	1,150	1,358	4,730	5,692	4,084	5,509	483	710
NEW ENGLAND	27	59	52	77	496	503	401	654	-	4
Maine	3 2	4 6	5 3	4	12 57	8 10	43	43	-	-
N.H. Vt.	1	2	3 1	10 4	57 54	96	13 27	32 81	-	-
Mass.	6	25	33	41	358	353	153	205	-	3
R.I. Conn.	1 14	4 18	2 8	5 13	14 1	10 26	43 122	55 238	-	1 -
MID. ATLANTIC	167	273	139	169	486	283	651	897	27	46
Upstate N.Y.	40	31	35	38	269	197	288	509	2	-
N.Y. City N.J.	78 25	177 37	27 19	32 25	39	12	5 62	10 121	7 10	9 16
Pa.	24	28	58	74	178	74	296	257	8	21
E.N. CENTRAL	62	134	173	193	396	671	115	132	9	26
Ohio Ind.	14 2	15 12	47 37	60 24	178 45	312 86	41 15	29 27	6 1	10 3
III.	20	57	38	44	-	109	15	28	-	11
Mich.	20	40	34	30	75 08	41	37	34	2	2
Wis.	6	10	17	35 116	98	123	7	14	-	-
W.N. CENTRAL Minn.	38 21	51 16	106 20	116 29	273 106	483 220	453 26	371 30	52 1	92
lowa	4	3	17	17	64	108	89	60	2	3
Mo. N. Dak.	3 1	14 1	52 1	39	61 4	94 5	32 45	40 32	41	85 -
S. Dak.	2	1	1	2	3	5	67	74	4	-
Nebr. Kans.	7	5 11	7 8	22 7	5 30	7 44	58 136	135	2 2	4
S. ATLANTIC	210	236	218	217	432	315	1,871	1,939	279	326
Del.	3	2	7	6	1	2	43	24	1	1
Md. D.C.	51 8	84 15	24	7	54	53 1	245	297	80	32
Va.	26	20	20	33	76	107	393	428	19	24
W. Va. N.C.	4 18	3 16	4 30	4 25	6 90	29 29	67 575	135 516	5 121	1 199
S.C.	3	6	20	21	90	32	172	101	14	44
Ga. Fla.	36 61	40 50	25 88	25 96	30 85	23 39	261 115	303 135	31 8	19 6
E.S. CENTRAL	12	17	60	75	113	179	136	181	67	99
Ky.	5	6	14	12	37	78	29	19	1	5
Tenn.	4 3	3 3	16 15	30 17	57 15	65 28	86	108	48 10	59
Ala. Miss.	- -	5 5	15	16	15 4	28 8	21	52 2	8	11 24
W.S. CENTRAL	18	57	99	166	382	1,340	175	882	40	102
Ark.	4	1	12	22	28	468	25	3	-	30
La. Okla.	3 4	3 7	25 13	32 17	6 12	7 34	150	90	39	- 61
Tex.	7	46	49	95	336	831	-	789	1	11
MOUNTAIN	34	37	57 3	77 2	700 4	695 4	134	224	9 1	13 1
Mont. daho	1	1 -	6	3	60	53	20 13	14 27	2	-
Vyo.	1	-	2	-	119	10	4	15	2	4
Colo. N. Mex.	14 1	20 2	16 7	23 4	232 50	269 146	31 5	35 9	2	2 1
Ariz.	12	6	15	23	125	109	49	112	1	-
Jtah Nev.	4 1	5 3	1 7	4 18	87 23	61 43	9 3	9 3	1 -	- 5
PACIFIC	120	160	246	268	1,452	1,223	148	229	_	2
Nash.	19	16	24	51	417	340	-	-	-	-
Oreg. Calif.	10 85	8 128	41 169	38 170	344 681	158 695	6 135	14 189	-	2
Alaska	-	2	3	3	-	4	7	26	-	-
Hawaii	6	6	9	6	10	26	-	-	-	-
Guam	-	- 1	- 0	1	-	2	- 55	- 62	- NI	- NI
P.R. /.I.	1 -	1 -	2	6	-	2	55 -	62 -	N -	N -
	U	U	U	U	U	U	U	U	U	U

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

\* Incidence data for reporting years 2002 and 2003 are provisional and cumulative (year-to-date).

TABLE II. (*Continued*) Provisional cases of selected notifiable diseases, United States, weeks ending September 13, 2003, and September 14, 2002 (37th Week)\*

								ptococcus pne	<i>umoniae</i> , inv	asive
	Salmo	nellosis	Shige	llosis	Streptococo invasive,		Drug rea		Age <5 years	
Reporting area	Cum. 2003	Cum. 2002	Cum. 2003	Cum. 2002	Cum. 2003	Cum. 2002	Cum. 2003	Cum. 2002	Cum. 2003	Cum. 2002
UNITED STATES	25,439	28,489	13,753	13,061	4,064	3,537	1,586	1,808	320	239
NEW ENGLAND	1,478	1,548	213	241	332	271	40	86	6	2
Maine N.H.	98 94	102 95	6 5	4 8	22 21	20 31	-	-	- N	- N
Vt.	48	59	6	1	17	9	6	4	3	1
Mass.	872	882	145	156	159	92	N	N	N	N
R.I. Conn.	89 277	109 301	11 40	9 63	11 102	14 105	10 24	11 71	3 U	1 U
MID. ATLANTIC	3,012	3,861	1,589	1,171	740	572	96	84	73	59
Upstate N.Y.	759	1,019	280	193	297	231	54	72	56	49
N.Y. City N.J.	802 358	1,000 769	258 206	337 428	96 130	132 121	U N	U N	U N	U N
Pa.	1,093	1,073	206 845	213	217	88	42	12	17	10
E.N. CENTRAL	3,808	4,043	1,242	1,491	890	757	332	163	133	89
Ohio	1,026	941	249	456	253	169	219	33	77	2
Ind.	423	372	112 601	77 600	92	41 217	113	128	34	44
III. Mich.	1,211 572	1,392 654	191	699 123	180 303	240	N	2 N	N	N
Wis.	576	684	89	136	62	90	N	N	22	43
W.N. CENTRAL	1,740	1,747	569	779	264	193	128	332	44	41
Minn.	368	403	68	159	131	99	- N	220	38	37
Iowa Mo.	260 702	285 595	48 290	99 121	N 56	N 38	N 9	N 5	N 2	N 1
N. Dak.	28	24	3	16	11	-	3	1	4	3
S. Dak.	78	76	13	151	19	11	1	1		
Nebr. Kans.	101 203	123 241	90 57	163 70	21 26	16 29	115	25 80	N N	N N
S. ATLANTIC	6,902	6,968	5,344	4,115	721	578	828	838	15	25
Del.	61	60	146	93	6	2	1	3	N	N
Md.	580	671	480	806	213	89	-	-	-	19
D.C. Va.	34 752	51 738	54 307	42 672	12 90	6 62	2 N	- N	5 N	3 N
W. Va.	92	93	-	8	31	16	57	36	10	3
N.C.	848	917	673	248	86	105	N	N	U	U
S.C.	443	464	305	81	32	31	116	144	N	N
Ga. Fla.	1,284 2,808	1,305 2,669	1,326 2,053	938 1,227	86 165	112 155	194 458	209 446	N N	N N
E.S. CENTRAL	1,645	2,080	629	951	159	81	106	114	_	_
Ky.	293	238	72	100	37	16	13	13	N	N
Tenn.	531	529	236	62	122	65	93	101	N	N
Ala. Miss.	364 457	542 771	190 131	498 291	-	-	-	-	N -	N -
W.S. CENTRAL	2,007	3,040	1,763	2,008	150	237	33	152	45	19
Ark.	498	643	75	148	5	6	8	6	-	-
La. Okla.	258 313	535 347	144 593	330 356	1 65	1 36	25 N	146 N	10 27	6 2
Tex.	938	1,515	951	1,174	79	194	N	N	8	11
MOUNTAIN	1.485	1,562	743	530	359	420	20	39	4	4
Mont.	77	71	2	3	2	-	-	-	-	-
Idaho	131	102	24 5	5 7	18	6	N	N	N	N
Wyo. Colo.	68 322	45 447	139	118	2 102	7 89	4	10	-	-
N. Mex.	153	212	144	105	89	80	16	29	-	-
Ariz.	462	409	350	232	135	210	-	-	N	N
Utah Nev.	160 112	122 154	38 41	21 39	9 2	28	-	-	4	4
PACIFIC	3,362	3,640	1,661	1,775	449	428	3	-	-	-
Wash.	362	334	113	109	38	46	-	-	N	N
Oreg.	287	262	183	74	N	N	N	N	N	N
Calif. Alaska	2,522 54	2,802 45	1,328 7	1,545 3	330	328	N -	N -	N N	N N
Hawaii	137	197	30	44	81	54	3	-	-	-
Guam	-	35	-	24	-	-	-	4	-	-
P.R.	169	347	3	26	N	N	N	N	N	N
V.I. Amer. Samoa	Ū	Ū	Ū	Ū	U	U	Ū	U	U	Ū
C.N.M.I.	-	Ü	-	Ü	-	Ü	-	Ü	J	Ü

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

\* Incidence data for reporting years 2002 and 2003 are provisional and cumulative (year-to-date).

TABLE II. (*Continued*) Provisional cases of selected notifiable diseases, United States, weeks ending September 13, 2003, and September 14, 2002 (37th Week)\*

Reporting area UNITED STATES NEW ENGLAND Maine N.H. Vt. Mass. R.I. Conn. MID. ATLANTIC Upstate N.Y. N.Y. City N.J. Pa. E.N. CENTRAL Ohio Ind. III. Mich. Wis. W.N. CENTRAL Minn.	Primary & Cum. 2003  4,692  143 6 13 96 14 14 595 32 330 115 118 628 157 33 238 189 11 98 34 4	Cum. 2002 4,665 100 2 2 1 68 6 21 492 23 292 99 78 870 106 44 330 371 19		enital Cum. 2002 292	Tuberd Cum. 2003 7,528 215 5 7 3 140 27 33 1,482 193 803 294 192 783	Cum. 2002  8,919  279  10  9  4  146  39  71  1,546  222  748  348  228	Cum. 2003 190 21 - 2 - 11 2 6 29 7 11 9	226 11 - 7 - 4 56 6 27 16	Varicella (Chickenpox) Cum. 2003 8,523 1,273 640 - 504 126 3 - 25 N
UNITED STATES  NEW ENGLAND Maine N.H. Vt. Mass. R.I. Conn. MID. ATLANTIC Upstate N.Y. N.Y. City N.J. Pa. E.N. CENTRAL Ohio Ind. III. Mich. Wis. W.N. CENTRAL Minn.	2003  4,692  143 6 13 - 96 14 14 595 32 330 115 118 628 157 33 238 189 11 98 34	2002 4,665 100 2 2 1 68 6 21 492 23 292 99 78 870 106 44 330 371 19	2003  246  1 1 46 14 24 8 - 45 2 7 15	2002 292 45 1 19 24 1 44 2	2003 7,528 215 5 7 3 140 27 33 1,482 193 803 294 192	2002 8,919 279 10 9 4 146 39 71 1,546 222 748 348	2003 190 21 - 2 - 11 2 6 29 7 11 9	2002 226 11 - - 7 - 4 56 6 27 16	2003 8,523 1,273 640 - 504 126 3 - 25 N
UNITED STATES  NEW ENGLAND Maine N.H. Vt. Mass. R.I. Conn. MID. ATLANTIC Upstate N.Y. N.Y. City N.J. Pa. E.N. CENTRAL Ohio Ind. III. Mich. Wis. W.N. CENTRAL Minn.	4,692 143 6 13 96 144 14 595 32 330 115 118 628 157 33 238 189 11 98 34	4,665 100 2 2 1 68 6 21 492 23 292 99 78 870 106 44 330 371 19	246 1 1 - - - 46 14 24 8 - 45 2 7	292 - - - - - - 45 1 19 24 1	7,528 215 5 7 3 140 27 33 1,482 193 803 294 192	8,919 279 10 9 4 146 39 71 1,546 222 748 348	190 21 - 2 - 11 2 6 29 7 11 9	226 11 - - 7 - 4 56 6 27 16	8,523 1,273 640 - 504 126 3 - 25 N
Maine N.H. Vt. Mass. R.I. Conn. MID. ATLANTIC Upstate N.Y. N.Y. City N.J. Pa. E.N. CENTRAL Ohio Ind. III. Mich. Wis. W.N. CENTRAL Minn.	6 13 96 14 14 595 32 330 115 118 628 157 33 238 189 11	2 2 1 68 6 21 492 23 292 99 78 870 106 44 330 371	1 - - - 46 14 24 8 - 45 2 7	45 1 19 24 1 44 2	5 7 3 140 27 33 1,482 193 803 294 192	10 9 4 146 39 71 1,546 222 748 348	2 11 2 6 29 7 11 9	- - 7 - 4 56 6 27 16	640 504 126 3 - 25 N
N.H. Vt. Mass. R.I. Conn. MID. ATLANTIC Upstate N.Y. N.Y. City N.J. Pa. E.N. CENTRAL Ohio Ind. III. Mich. Wis. W.N. CENTRAL Minn.	13 96 14 14 595 32 330 115 118 628 157 33 238 189 11 98 34	2 1 68 6 21 492 23 292 99 78 870 106 44 330 371	- - - - 46 14 24 8 - 45 2 7	45 1 19 24 1 44 2	7 3 140 27 33 1,482 193 803 294 192	9 4 146 39 71 1,546 222 748 348	11 2 6 29 7 11 9	- 7 - 4 56 6 27 16	504 126 3 - 25 N
Mass. R.I. Conn. MID. ATLANTIC Upstate N.Y. N.Y. City N.J. Pa. E.N. CENTRAL Ohio Ind. III. Mich. Wis. W.N. CENTRAL Minn.	14 14 595 32 330 115 118 628 157 33 238 189 11	68 6 21 492 23 292 99 78 870 106 44 330 371	46 14 24 8 - 45 2 7 15	45 1 19 24 1 44 2	140 27 33 1,482 193 803 294 192	146 39 71 1,546 222 748 348	2 6 29 7 11 9	56 6 27 16	126 3 - 25 N
R.I. Conn. MID. ATLANTIC Upstate N.Y. N.Y. City N.J. Pa. E.N. CENTRAL Ohio Ind. III. Mich. Wis. W.N. CENTRAL Minn.	14 14 595 32 330 115 118 628 157 33 238 189 11	6 21 492 23 292 99 78 870 106 44 330 371	46 14 24 8 - 45 2 7 15	45 1 19 24 1 44 2	27 33 1,482 193 803 294 192	39 71 1,546 222 748 348	2 6 29 7 11 9	56 6 27 16	3 - 25 N
MID. ATLANTIC Upstate N.Y. N.Y. City N.J. Pa. E.N. CENTRAL Ohio Ind. III. Mich. Wis. W.N. CENTRAL Minn.	595 32 330 115 118 628 157 33 238 189 11 98 34	492 23 292 99 78 870 106 44 330 371	46 14 24 8 - 45 2 7 15	45 1 19 24 1 44 2	1,482 193 803 294 192	1,546 222 748 348	29 7 11 9	56 6 27 16	25 N
Upstate N.Y. N.Y. City N.J. Pa.  E.N. CENTRAL Ohio Ind. III. Mich. Wis. W.N. CENTRAL Minn.	32 330 115 118 628 157 33 238 189 11	23 292 99 78 870 106 44 330 371	14 24 8 - 45 2 7 15	1 19 24 1 44 2	193 803 294 192	222 748 348	7 11 9	6 27 16	N -
N.Y. City N.J. Pa. E.N. CENTRAL Ohio Ind. III. Mich. Wis. W.N. CENTRAL Minn.	330 115 118 628 157 33 238 189 11 98	292 99 78 870 106 44 330 371	24 8 - 45 2 7 15	24 1 44 2	803 294 192	748 348	11 9	27 16	-
Pa. E.N. CENTRAL Ohio Ind. III. Mich. Wis. W.N. CENTRAL Minn.	118 628 157 33 238 189 11 98 34	78 870 106 44 330 371 19	- 45 2 7 15	1 44 2	192				-
Ohio Ind. III. Mich. Wis. W.N. CENTRAL Minn.	157 33 238 189 11 98 34	106 44 330 371 19	2 7 15	2	783		2	7	25
Ind. III. Mich. Wis. W.N. CENTRAL Minn.	33 238 189 11 98 34	44 330 371 19	7 15			902	12	25	3,824
III. Mich. Wis. W.N. CENTRAL Minn.	238 189 11 98 34	330 371 19	15	9	144 93	144 78	2	6 2	940
W.N. CENTRAL Minn.	11 98 34	19	21	33	366	438	1	10	
W.N. CENTRAL Minn.	98 34		-	7	144 36	189 53	6	3 4	2,308 576
		89	3	1	324	384	3	9	39
		42 2	-	1	134 17	159 24	- 1	3	N
Iowa Mo.	34	23	3	-	79	102	1	2	N -
N. Dak. S. Dak.	- 1	-	-	-	- 16	4 10	-	-	39
Nebr.	4	5	-	-	10	20	1	4	-
Kans.	21	17	-	-	68	65	-	-	-
S. ATLANTIC Del.	1,242 4	1,159 9	47	68	1,521 -	1,811 13	36	28	1,598 20
Md. D.C.	204 37	137 36	8	13 1	153	207	7	7	22
Va.	59	52	1	i	183	195	10	3	436
W. Va. N.C.	2 115	2 207	- 16	- 17	12 219	24 230	6	- 1	941 N
S.C.	78	86	4	9	111	122	-	-	179
Ga. Fla.	300 443	257 373	5 13	13 14	229 614	373 647	7 6	5 12	- N
E.S. CENTRAL	219	356	12	19	446	545	5	4	-
Ky. Tenn.	29 94	66 132	1 5	3 6	84 148	99 216	2	4	N N
Ala.	79	124	4	7	147	145	3	-	-
Miss.	17	34	2	3	67	85	-	-	-
W.S. CENTRAL Ark.	632 40	603 24	44	65 6	1,042 66	1,366 93	7	24	1,354 -
La. Okla.	93 34	109 48	- 1	2	90	- 116	-	-	4 N
Tex.	465	422	43	57	886	1,157	7	24	1,350
MOUNTAIN	206	224	21	11	274	272	3	9	410
Mont. Idaho	5	1	-	-	5 5	6 10	-	-	N N
Wyo.	-	-	-	-	3	2	-	-	43
Colo. N. Mex.	14 38	48 24	3 -	2	56 6	59 24	3 -	4 1	-
Ariz. Utah	136 4	138 4	18	9	149 28	140 18	-	2	4 363
Nev.	9	9	-	-	22	13	-	2	-
PACIFIC	929	772	27	39	1,441	1,814	74	60	-
Wash. Oreg.	55 27	39 11	-	1 -	180 83	171 80	3 4	4 2	- -
Calif.	845	715	27	37	1,095	1,416	66	52	-
Alaska Hawaii	2	7	-	1	42 41	36 111	1	2	-
Guam	-	6	-	-	-	50	-	-	-
P.R. V.I.	140 1	179 1	1 -	21	33	75 -	-	-	278
Amer. Samoa C.N.M.I.	ΰ	Ú U	U	U U	U	U U	U	U U	U

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

\* Incidence data for reporting years 2002 and 2003 are provisional and cumulative (year-to-date).

TABLE III. Deaths in 122 U.S. cities.\* week ending September 13, 2003 (37th Week)

TABLE III. Deaths	in 122 U.					ber 1	37th Week)  All causes, by age (years)								
	All causes, by age (years)						Do It		All Causes, by age (years)						- no.1+
Reporting Area	Ages	<u>≥</u> 65	45-64	25-44	1-24	<1	P&I <sup>†</sup> Total	Reporting Area	All Ages	<u>≥</u> 65	45-64	25-44	1-24	<1	P&I <sup>†</sup> Total
NEW ENGLAND	499	344	107	30	9	9	44	S. ATLANTIC	1,194	753	284	93	41	22	51
Boston, Mass.	146 19	95 14	33 5	10	2	6	11 2	Atlanta, Ga. Baltimore, Md.	154 173	87 98	42 44	17 18	7 7	1 6	2 9
Bridgeport, Conn. Cambridge, Mass.	11	7	2	2	-	-	1	Charlotte, N.C.	1/3	96 62	22	10	4	3	9
Fall River, Mass.	27	19	8	-	-	-	7	Jacksonville, Fla.	175	133	33	5	3	1	5
Hartford, Conn.	41	21	12	6	2	-	3	Miami, Fla.	78	48	14	10	5	1	4
Lowell, Mass.	23	18	5	-	-	-	2	Norfolk, Va.	43	27	10	3	-	3	-
Lynn, Mass.	11	10	1	-	-	-	1	Richmond, Va.	64	38	18	4	4	-	4
New Bedford, Mass. New Haven, Conn.	29 41	25 34	2	2 2	- 1	1	1 3	Savannah, Ga. St. Petersburg, Fla.	41 55	29 33	10 18	2	2	2	2 3
Providence, R.I.	53	35	13	2	2	1	5	Tampa, Fla.	190	124	46	11	3	5	10
Somerville, Mass.	1	1	-	-	-	-	-	Washington, D.C.	99	59	22	12	6	-	3
Springfield, Mass.	42	29	9	2	1	1	1	Wilmington, Del.	21	15	5	1	-	-	-
Waterbury, Conn.	U	U	U	U	U	U	Ū	E.S. CENTRAL	866	551	196	63	26	22	43
Worcester, Mass.	55	36	14	4	1	-	7	Birmingham, Ala.	179	114	36	10	6	5	10
MID. ATLANTIC	1,990	1,340	428	143	40	39	93	Chattanooga, Tenn.	62	42	16	2	1	1	3
Albany, N.Y.	42	24	14	3	1	-	2	Knoxville, Tenn.	96	63	28	5	-		-
Allentown, Pa. Buffalo, N.Y.	14 92	13 64	1 21	5	2	-	1 9	Lexington, Ky. Memphis, Tenn.	38 209	22 123	10 46	2 20	3 9	1 11	1 8
Camden, N.J.	28	19	5	4	-		2	Mobile, Ala.	93	61	16	11	3	2	3
Elizabeth, N.J.	17	11	3	3	-	-	1	Montgomery, Ala.	43	31	9	2	1	-	8
Erie, Pa.	47	34	10	3	-	-	-	Nashville, Tenn.	146	95	35	11	3	2	10
Jersey City, N.J.	40	28	7	_4		. 1	-	W.S. CENTRAL	1,374	858	282	122	63	49	73
New York City, N.Y.	1,006	671	226	71	21	17	33	Austin, Tex.	80	52	18	8	1	1	5
Newark, N.J. Paterson, N.J.	51 17	27 10	16 4	6	2 1	2	2	Baton Rouge, La.	U	U	U	U	U	U	U
Philadelphia, Pa.	253	149	61	27	5	11	15	Corpus Christi, Tex.	58	41	10	4	2	1	2
Pittsburgh, Pa.§	31	22	3	2	2	2	2	Dallas, Tex.	188	110	51	16	3 2	8 1	6
Reading, Pa.	24	19	2	1	1	1	4	El Paso, Tex. Ft. Worth, Tex.	114 123	80 77	23 27	8 5	2	12	1 8
Rochester, N.Y.	135	100	25	5	2	3	10	Houston, Tex.	343	184	68	40	40	11	23
Schenectady, N.Y. Scranton, Pa.	25 21	20 15	4 5	1 1	-	-	2	Little Rock, Ark.	76	57	2	9	3	5	4
Syracuse, N.Y.	97	75	13	5	2	2	7	New Orleans, La.	U	U	U	U	U	U	U
Trenton, N.J.	17	11	5	1	-	-	-	San Antonio, Tex.	212	136	46	19	7	4	8
Utica, N.Y.	12	11	-	-	1	-	-	Shreveport, La. Tulsa, Okla.	87 93	55 66	19 18	8 5	3	2 4	8 8
Yonkers, N.Y.	21	17	3	1	-	-	3	·							
E.N. CENTRAL	2,077 59	1,400 34	428 18	130	49 1	69 6	115 5	MOUNTAIN Albuquerque, N.M.	845 149	555 103	186 26	63 13	23 5	16 2	51 8
Akron, Ohio Canton, Ohio	41	30	6	4	-	1	7	Boise, Idaho	U	U	U	U	U	U	U
Chicago, III.	361	222	88	32	12	7	24	Colo. Springs, Colo.	60	39	11	7	1	2	1
Cincinnati, Ohio	79	54	20	2	2	1	4	Denver, Colo. Las Vegas, Nev.	104 224	62 140	24 59	6 14	4 8	8 1	8 13
Cleveland, Ohio	123	76	31	9	3	4	4	Ogden, Utah	224	140	10	3	1	1	-
Columbus, Ohio	U	U	U	ñ	U	Ų	U	Phoenix, Ariz.	Ü	Ü	Ü	Ű	Ü	Ü	U
Dayton, Ohio Detroit. Mich.	119 172	91 98	20 35	5 17	2 8	1 13	10 10	Pueblo, Colo.	27	25	2	-	-	-	-
Evansville, Ind.	49	39	9	-	1	-	2	Salt Lake City, Utah	104	75	21	6	2	-	11
Fort Wayne, Ind.	79	54	18	3	-	4	1	Tucson, Ariz.	148	97	33	14	2	2	10
Gary, Ind.	21	11	4	3	1	2	1	PACIFIC	1,263	888	233	91	24	26	78
Grand Rapids, Mich.	65	49	6	2	1	7	8	Berkeley, Calif.	25	16	4	2	1	2	1
Indianapolis, Ind. Lansing, Mich.	429 44	289 31	85 11	31 1	8	16 1	20	Fresno, Calif. Glendale, Calif.	85 17	58 15	15 2	5	5	2	2 1
Milwaukee, Wis.	115	82	21	5	5	2	6	Honolulu, Hawaii	Ü	U	Ú	Ū	U	Ū	ΰ
Peoria, III.	43	32	7	1	1	2	2	Long Beach, Calif.	71	49	14	4	3	1	7
Rockford, III.	53	40	8	5	-	-	1	Los Angeles, Calif.	194	136	35	17	3	3	9
South Bend, Ind.	71	52	13	5	1	-	-	Pasadena, Calif.	21	18	3	-	-	-	3
Toledo, Ohio	98 56	71 45	19 9	4 1	2 1	2	8 2	Portland, Oreg. Sacramento, Calif.	181 U	118 U	44 U	13 U	1 U	5 U	8 U
Youngstown, Ohio								San Diego, Calif.	188	127	31	21	4	4	15
W.N. CENTRAL	586	388	132	31	20	15	31	San Francisco, Calif.	U	Ü	Ü	Ü	Ū	Ū	Ü
Des Moines, Iowa Duluth, Minn.	106 33	76 27	23 5	2 1	3	2	4	San Jose, Calif.	176	132	28	10	1	5	15
Kansas City, Kans.	33 45	27 28	10	3	3	1	3	Santa Cruz, Calif.	U	U	U	U	U	U	U
Kansas City, Mo.	75	47	15	5	4	4	1	Seattle, Wash.	143	101	29	8	4	1	8
Lincoln, Nebr.	58	44	9	3	2	-	5	Spokane, Wash.	49 113	36 82	10 18	2 9	2	1 2	7 2
Minneapolis, Minn.	51	30	13	1	2	5	6	Tacoma, Wash.							
Omaha, Nebr.	81	55	20	2	3	1	5	TOTAL	10,694¶	7,077	2,276	766	295	267	579
St. Louis, Mo. St. Paul, Minn.	U 52	U 39	U 8	U 3	U 1	U 1	U 3								
Wichita, Kans.	85	42	29	11	2	1	4								
,							· ·	I.							

U: Unavailable.

U: Unavailable. -:No reported cases.

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

† Pneumonia and influenza.

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

† Total includes unknown ages.

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