## Outbreak of Measles — Venezuela and Colombia, 2001-2002

Substantial progress has been made toward interrupting indigenous measles transmission in the Region of the Americas (1-4). In 2001, the number of confirmed measles cases in the region reached a record low of 537 cases, a $99 \%$ decrease since 1990 (4). During 2001, the Dominican Republic and Haiti interrupted indigenous measles transmission successfully (4,5), ending known indigenous transmission of the D6 measles virus genotype. This genotype, which had circulated widely in the Region of the Americas since 1995, caused nationwide outbreaks in Argentina, Bolivia, Brazil, the Dominican Republic, and Haiti during 1997-2001 (3-7). In August 2001, a measles outbreak introduced by a traveler returning from Europe occurred in Venezuela and was exported to Colombia in 2002. This report describes the epidemiology of the outbreaks and control measures implemented by the ministries of health of Venezuela and Colombia.

## Venezuela

In 2000, measles vaccination coverage in Venezuela was 84\% on the basis of administrative data reported routinely. By September 2001, estimated coverage had decreased to $58 \%$ and was lower in Venezuelan states near the border with northern Colombia (e.g., Falcón, 44\%; Zulia, 34\%) (Figure 1).
During 2001-2002, two outbreaks of measles occurred in Venezuela. On August 29, 2001, a man aged 39 years (index case) had rash onset of measles 1 day before returning to Falcón from a trip to Switzerland, Germany, and Spain during August 4-30. Approximately 1 month later, an investigation was initiated by local health authorities to identify additional cases. The first laboratory-confirmed case was reported on September 28 and occurred in the index patient's brother, aged 35 years, who had rash onset on September 23. The majority of persons who were affected by the outbreak were health-care workers, laborers, and students. The outbreak
lasted until December 15, affected 37 persons in three municipalities, and ended after implementation of a statewide vaccination campaign for children aged 1-14 years.

FIGURE 1. Location of Falcón and Zulia states near the Venezuela-Colombia border


## INSIDE

760 Immunization Registry Progress — United States, 2002
762 Progress Toward Poliomyelitis Eradication - Angola, January 1998-June 2002
764 West Nile Virus Activity — United States, August 22-28, 2002

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In January 2002, a second outbreak of measles was introduced into Falcón from Zulia by a girl aged 7 months who had visited a tourist site in Falcón and who had received medical care at a local hospital. She infected a nurse, who then transmitted the disease to other persons. Of 165 persons reported from Falcón during this outbreak, 85 (52\%) had visited the same tourist site.

The first confirmed measles case in Zulia occurred in a woman aged 27 years who was an auxiliary nurse in a physician's office that provided care to residents of Falcón. The nurse had onset of rash on October 25, 2001, and subsequently infected four other persons. During the next 3 months, the outbreak spread to all municipalities in Zulia; 2,074 cases had been confirmed as of July 24, 2002. For several chains of transmission, the index case occurred in a health-care worker. Beginning in February 2002, the outbreak spread to 14 additional states in Venezuela, including four states bordering Colombia.

During October 2001-July 2002, Venezuela reported 6,380 suspected measles cases; of these, 2,416 were laboratory or epidemiologically confirmed.* The outbreak peaked during the week of March 16 (week 11) (Figure 2) and has affected 16 (67\%) of the 24 states in Venezuela. A total of 2,074 (86\%) cases were from Zulia, 202 (8\%) from Falcón, and 140 (4\%) from the other 14 states. The age groups most affected were children aged $<1$ year ( 120 cases per 100,000 population), children aged $1-4$ years (26), and persons aged 20-24 years (12) (Figure 3).

During November 2001-January 2002, measles virus samples were collected from patients in Zulia. Genetic sequencing indicated that the virus was not similar to viruses encountered previously in the region or to the reference

[^0]FIGURE 2. Reported number of measles cases*, by week of rash onset - Venezuela, August 2001-July 2002


FIGURE 3. Measles rates,* by age group - Venezuela and Colombia, August 2001-July 2002

*Per 100,000 population.
genotype strains available on the measles sequence database. A close match was identified from virus samples taken from cases imported into Australia from Indonesia as early as 1999, which have been given the proposed designation of genotype d $9^{\dagger}$ (D. Chibo, Ph.D., World Health Organization, Measles Reference Laboratory [Western Pacific Region], Australia, personal communication, 2002).

During November 2001-January 2002, a follow-up measles vaccination campaign was implemented targeting approximately 2.2 million children aged $1-4$ years; 16 of the 24 states reported coverage of $100 \%$. However, the outbreak continued with cases occurring in all age groups. House-to-house monitoring of vaccination coverage revealed areas with unvaccinated children. In March 2002, a nationwide vaccination campaign was implemented targeting approximately 5.5 million children aged 6 months -14 years and an estimated 5.5 million adults at high risk (e.g., health-care workers, tourists, factory workers, soldiers, university students, and migrants) in urban, periurban (densely populated informal settlements), and rural areas. Vaccination coverage among adults at high risk in that campaign was estimated to be $76 \%$ as of July 6 (week 27).

## Colombia

Colombia shares a border with Venezuela, with which it has substantial commerce and migration in Zulia. In 1996, measles vaccination coverage for children in Colombia was $94 \%$. In 2000, measles coverage for children aged 1 year declined to $80 \%$. Coverage for children aged 1 year increased to $91 \%$ during 2001.

[^1]In January 2002, the first confirmed case occurred in a girl aged 7 years from Colombia. She had rash onset on January 20 and reported previous contact in Zulia with persons with confirmed measles. As of July 6 (week 27), 68 cases have been confirmed (Figure 4). Confirmed cases have occurred in 19 municipalities in $10(30 \%)$ of the 33 departments; 17 affected municipalities were located on the Atlantic coast and/or bordered Venezuela. As of July 18, the most recent confirmed patient had rash onset on July 17 (week 29). Of the 68 confirmed cases, 18 (26\%) were imported from Venezuela, 35 (51\%) were epidemiologically linked to those importations, nine ( $13 \%$ ) were from unknown sources, and six ( $9 \%$ ) are under investigation. Of 44 patients aged $1-4$ years, 15 (34\%) had received measles vaccine previously. The age groups most affected were children aged $<5$ years ( 0.7 per 100,000 population), children aged 5-9 years (0.2), and persons aged 25-29 years (0.1) (Figure 3).
Control activities being implemented include 1) door-to-door measles vaccination campaigns in high-risk municipalities as part of a national vaccination campaign for approximately 3.8 million children aged 6 months- 5 years and other adults at high risk (e.g., health-care workers, migrants, and travelers), 2) house-to-house vaccination coverage monitoring in areas at high risk, 3) strengthening of national measles surveillance, and 4) increased training in case investigation and outbreak control. As of July 10, 2002, a total of 2,587,408 ( $73 \%$ ) children in the target group had been vaccinated.
During these outbreaks, measles surveillance has been heightened by using active case searches in both countries, with 2,198 suspected cases detected ( 5.4 per 100,000 population) in Colombia and 6,380 (26.5) in Venezuela. Technical and financial resources have been provided by international organizations, including Pan American Health Organization, United Nations Children's Fund (UNICEF), and CDC.

FIGURE 4. Reported number of measles cases*, by week of rash onset - Colombia, August 2001-July 2002


Reported by: H Izurieta, M Brana, P Carrasco, V Dietz, $G$ Tambini, CA de Quadros, Div of Vaccines and Immunizations; Pan American Health Organization, Washington, DC. O Barrezueta, Pan American Health Organization; NLópez, $D$ Rivera, $L$ López, $M$ Villegas, $E$ Maita, Ministry of Health; C Garcia, National Institute of Hygiene, Caracas, Venezuela. D Pastor, Pan American Health Organization; C Castro, J Boshell, O Castillo, G Rey, F de la Hoz, D Caceres, M Velandia, National Institute of Health, Ministry of Health, Bogotá, Colombia. W Bellini, J Rota, P Rota, Div ofViral and Rickettsial Diseases, National Center for Infectious Diseases; FLievano, C Lee, Global Immunization Div, National Immunization Program, $C D C$.
Editorial Note: The reintroduction of measles and its subsequent transmission in Venezuela and exportation to Colombia indicates that, until global measles eradication is achieved, countries in the Region of the Americas are vulnerable to importations. However, these importations should not result in sustained measles transmission if vaccination coverage is maintained at high levels ( $>95 \%$ ) in all municipalities and follow-up campaigns are conducted on time ( 3,4 ).
Low vaccination coverage in Venezuela and deficiencies in surveillance contributed to the outbreak. The first report of a case was delayed for approximately 1 month, sufficient time for the occurrence of several generations of transmission and spread to other areas.

Colombia initiated aggressive vaccination activities in 2001 when Venezuela began reporting cases. The limited transmission in Colombia suggests that efforts to prevent a large outbreak might have been successful. However, because of civil conflict in several areas, confirming the lack of virus transmission was difficult. In addition, a contributing factor to lower transmission in Colombia might have been the higher measles coverage rates before the outbreak compared with Venezuela.
Measures to control measles outbreaks in the Region of the Americas include 1) partnerships with local governments to secure financial and logistical resources, 2) rapid identification and vaccination of groups at high risk (e.g., health-care workers, migrants, and tourist industry personnel), 3) house-to-house monitoring of vaccination coverage, 4) expansion of the target group to older ages if incidence is high in these age cohorts, and 5) heightened surveillance in all regions of the country.

## References

1. de Quadros CA, Olivé JM, Hersh BS, et al. Measles elimination in the Americas—evolving strategies. JAMA 1996;275:224-9.
2. Pan American Health Organization. Elimination of measles in the Americas. Washington, DC: XXIV Meeting of the Pan American Sanitary Conference, 1995.
3. Pan American Health Organization. Progress toward interrupting indigenous measles transmission-Region of the Americas, January 1999 -September 2000. MMWR 2000;49:986-90.
4. CDC. Progress toward interrupting indigenous measles transmissionRegion of the Americas, January-November 2001. MMWR 2001;50:1133.
5. Pan American Health Organization, Division of Vaccines and Immunization. Haiti begins all out effort to halt measles and OPV-derived polio outbreaks. EPI Newsletter 2001;22:2.
6. Oliveira MI, Rota PA, Curti SP, et al. Genetic homogeneity of measles viruses associated with a measles outbreak, São Paulo, Brazil, 1997. Emerg Infect Dis 2002;8:808-13.
7. de Quadros CA, Izurieta HS, Carrasco P, Brana M, Tambini G. Progress towards measles eradication in the Region of the Americas. J Infect Dis 2003(in press).

## Immunization Registry Progress United States, 2002

Immunization registries are confidential, population-based, computerized information systems that collect vaccination data about all children within a geographic area (1). By providing complete and accurate information on which to base vaccination decisions, registries are key tools to increase and sustain high vaccination coverage. Registries consolidate vaccination records of children from multiple health-care providers, identify children who are due or late for vaccinations, generate reminder and recall notices to ensure that children are vaccinated appropriately, and identify provider sites and geographic areas with low vaccination coverage. One of the national health objectives for 2010 is to increase to $95 \%$ the proportion of children aged $<6$ years who participate in fully operational, population-based immunization registries (objective 14.26) (2). This report summarizes data from the calendar year 2001 Immunization Registry Annual Report (CY 2001 IRAR), a survey of registry activity among immunization programs in the 50 states and the District of Columbia (DC) that receive grant funding under Public Health Service Act $\$ 317 \mathrm{~b}$. Although these data indicate that approximately half of U.S. children aged $<6$ years are participating in a registry, achieving the national health objective will require increased immunization provider participation.

The CY 2001 IRAR, a self-administered questionnaire, was distributed to immunization program managers as part of the annual reporting requirement for grantees. Information included the percentage of children participating in a registry that reside in the catchment area and the progress in implementing the 12 functional standards considered essential for immunization registry operation (3). Responses were received from all 50 states and DC. Of the 51 respondents, 44 ( $86 \%$ ) reported operating registries that targeted their entire catchment areas. The remaining seven (14\%) respondents (California, Colorado, Georgia, Indiana, Minnesota, New Mexico, and New York) reported operating registries that targeted
regions or counties within their catchment areas (Figure). On the basis of 2001 U.S. census estimates, approximately $44 \%$ of U.S. children aged $<6$ years had two or more vaccinations recorded in a grantee registry.
All 51 respondents reported efforts to meet the key elements of the 12 functional standards established for immunization registries (Table). A total of seven (14\%) registries accept immunization information for children aged $<6$ years only, $30(59 \%)$ for all ages in their registries, and 14 (27\%) for persons in their registry aged $17-25$ years. A total of 14 (27\%) reported using their registries to identify children eligible for the Vaccines for Children Program (VFC).
Reported by: S Jones, MPH, T Boyd, MS, R Linkins, PhD, Data Management Div, National Immunization Program, CDC.
Editorial Note: The findings in this report indicate the continuation of a trend identified previously in IRAR surveys $(4,5)$. An increasing percentage of children are participating in registries each year, and registries are increasing their usefulness to public health programs nationwide.
Beginning in 2001, diphtheria, tetanus toxoid, and pertussis (DTaP) vaccine; pneumococcal conjugate (PCV7) vaccine; measles, mumps, and rubella (MMR) vaccine; and varicella vaccines were in short supply ( $6-8$ ). During the shortage, registries were used to track children who missed vaccines because of the shortage and to recall them when vaccines became available. During the 2001-2002 school year, immunization program staff and school nurses used the DC registry to ensure that local schools were in compliance with school entry vaccination requirements. Daily, weekly, and monthly reports were generated to track compliance, monitor vaccine inventory needs, and identify pockets of low vaccination

FIGURE. Percentage of children aged $<6$ years with $>2$ vaccinations in a Public Health Service Act § 317b immunization registry - United States, 2001


TABLE. Number and percentage of 51 grantee immunization registries that implemented key elements of the 12 functional standards, by standard - United States, December 2001

| Functional standard | Registries meeting all key elements |  | Registries meeting $\geq 2$ key elements |  |
| :---: | :---: | :---: | :---: | :---: |
|  | No. | (\%) | No. | (\%) |
| Electronically store data regarding all National Vaccine Advisory Committee approved core data elements | 21 | (41) | 48 | (94) |
| Establish a registry record within 6 weeks of birth for each child born in the catchment area | 27 | (53) | 27 | (53) |
| Enable access to vaccine information from the registry at the time of encounter | 44 | (86) | 44 | (86) |
| Receive and process vaccine information within 1 month of vaccine administration | 43 | (84) | 43 | (84) |
| Protect the confidentiality of medical information | 22 | (43) | 36 | (71) |
| Protect the security of medical information | 21 | (41) | 35 | (69) |
| Exchange vaccination records by using Health Level Seven standards | 10 | (20) | 12 | (24) |
| Automatically determine the immunization(s) needed when a person is seen by the health-care provider for a scheduled vaccination | 36 | (71) | 36 | (71) |
| Automatically identify persons due or late for vaccinations to enable the production of reminder and recall notices | 40 | (78) | 41 | (80) |
| Automatically produce vaccine coverage reports by providers, age groups, and geographic areas | 35 | (69) | 40 | (78) |
| Produce authorized immunization records | 38 | (75) | 38 | (75) |
| Promote accuracy and completeness of registry data | 41 | (80) | 41 | (80) |

within DC for further outreach efforts. The registry was used to identify approximately 20,000 children who were not vaccinated properly according to school vaccination requirements (CDC, unpublished data, 2002).
Although this report indicates a substantial increase in participation rates compared with previous years (4,5), at least part of this improvement can be attributed to differences in how participation was measured. Previous estimates counted only participants from population-based registries. Because CY 2001 IRAR data indicated that some encounter-based
registries are approaching or have reached the $95 \%$ participation goal, participants from all 51 grantee registries, both popu-lation-based and encounter-based, were included in participation rate estimates.
The findings in this report are subject to at least three limitations. First, because the CY 2001 IRAR relied on selfreported information, bias in reporting might have occurred. However, onsite verification through record reviews and observation of registry operations during 12 site visits conducted in 2001 indicated that $97 \%$ of the CY 2001 IRAR's self-reported answers from these sites were accurate (CDC, unpublished data, 2002). Second, this report includes only information from 51 immunization survey respondents; any registry development performed by other entities (e.g., U.S. commonwealth or territory immunization grantees, hospitals, local health departments, or managed care plans) was not reflected. Finally, the CY 2001 IRAR did not collect information about the completeness or accuracy of immunization data recorded in a registry. CDC is developing tools to assist with registry data quality assessment.

As immunization grantees continue to make progress in achieving the national health objectives for 2010, registry target age groups are expanding to include adolescents and adults. Registries also are becoming part of broader child health information systems (e.g., hearing, lead, newborn metabolic, and nutrition screening). In addition, they are being used to improve the efficacy and accountability of vaccine administration in VFC. Additional information about immunization registries is available from CDC at http://www.cdc.gov/nip/ registry; telephone, 800-799-7062; or e-mail, siisclear@cdc.gov.

## References

1. National Vaccine Advisory Committee. Development of community and state-based immunization registries; approved January 12, 1999. Atlanta, Georgia: U.S. Department of Health and Human Services, CDC, 1999. Available at http://www.cdc.gov/nip/registry/nvac.htm.
2. U.S. Department of Health and Human Services. Healthy people 2010, 2nd ed. With understanding and improving health and objectives for improving health (2 vols). Washington, DC: U.S. Department of Health and Human Services, 2000.
3. CDC. Immunization registry minimum functional standards. Available at http://www.cdc.gov/nip/registry/mfs2001.pdf.
4. CDC. Immunization registry use and progress-United States, 2001. MMWR 2002;51:53-6.
5. CDC. Progress in development of immunization registries-United States, 2000. MMWR 2001;50:3-7.
6. CDC. Update on the supply of tetanus and diphtheria toxoids and of diphtheria and tetanus toxoids and acellular pertussis vaccine. MMWR 2001;50:189-90.
7. CDC. Updated recommendations on the use of pneumococcal conjugate vaccine in a setting of vaccine shortage-Advisory Committee on Immunization Practices. MMWR 2001;50:1140-2.
8. CDC. Shortage of varicella and measles, mumps and rubella vaccines and interim recommendations from the Advisory Committee on Immunization Practices. MMWR 2002;51:190-7.

## Progress Toward Poliomyelitis Eradication - Angola, January 1998-June 2002

Since the World Health Assembly resolved in 1988 to eradicate poliomyelitis, the estimated number of polio cases worldwide has declined $>99 \%$ (1). Angola began polio eradication activities in 1996. Although polio eradication efforts have been hampered by the country's 27 -year-long civil war, both the incidence of polio cases and the geographic circulation of poliovirus in Angola have decreased substantially (2). The cessation of hostilities on April 4, 2002, presents a new opportunity to reach populations that had been inaccessible and undervaccinated previously. This report summarizes progress made during January 1998-June 2002 and highlights the remaining challenges to eradicating polio in Angola.

## Routine Vaccination

During 1990-2000, the reported national coverage of children aged $0-11$ months with 3 doses of oral polio virus vaccine (OPV3) ranged from $21 \%$ to $45 \%$. The 2001 Multiple Indicator Cluster Survey conducted by the Angolan National Institute of Statistics estimated OPV3 coverage at $63 \%$ among children aged 12-23 months.

## Supplementary Immunization Activities

Since 1996, annual National Immunization Days* (NIDs) have been conducted in Angola targeting approximately 4 million children aged <5 years. Two annual rounds were held during 1996-1998, and three annual round have been held since 1999. Although access to children in conflict areas was limited as a result of the war, Angolan Ministry of Health $(\mathrm{MoH})$ reports indicate that access improved during 19992001; the number of municipalities not accessible during all three NID rounds decreased from 51 ( $31 \%$ ) of 164 in 1999 to $24(15 \%)$ in 2000 and to $10(6 \%)$ in 2001. Beginning in June 2000, a national house-to-house vaccination strategy was implemented to locate and vaccinate children. Extra rounds of Sub-National Immunization Days ${ }^{\dagger}$ (SNIDs) were organized in high-risk areas in 2001 and 2002. The May 2002 SNIDs targeted 40 municipalities with an estimated 2.6 million children aged $<5$ years. The number of children reported vaccinated was 3.1 million, which included children living in 28 camps for internally displaced persons (IDPs) and in five quartering areas for former combatants and their families.

[^2]
## Acute Flaccid Paralysis Surveillance

Angola established surveillance for acute flaccid paralysis (AFP) in 1997. The quality of AFP surveillance is evaluated by two key World Health Organization (WHO)-established indicators: sensitivity of reporting (target: nonpolio AFP rate of $\geq 1$ case per 100,000 children aged $<15$ years per year) and completeness of specimen collection (target: two adequate stool specimens from $\geq 80 \%$ of all persons with AFP). Angola achieved a nonpolio AFP rate of 1.2 in 1999 (Table). As of June 30, 2002, the projected annual nonpolio AFP rate was 3.4, with 17 of 18 provinces reporting AFP cases. The proportion of persons with AFP from which two adequate stool specimens were collected was $66 \%$ during 2001 and $89 \%$ during January-June 2002. The nonpolio enterovirus isolation rate (target: $\geq 10 \%$ ), a marker for laboratory performance and the integrity of the reverse cold chain for specimen transport, was $14 \%$ in 2000 and $22 \%$ in 2002.

In 2001, Angola shifted from a clinical to a virological AFP case classification system (i.e., only AFP cases with wild poliovirus isolates are classified as confirmed polio); AFP cases in which paralytic polio cannot be ruled out reliably are classified as polio-compatible. In 2001, a total of 10 AFP cases from five provinces were classified as polio-compatible. As of June 30, 2002, no AFP cases had been classified as poliocompatible.

## Incidence of Polio

During 1999, a polio outbreak in Angola affected 1,103 children, with 53 cases confirmed virologically and 113 reported deaths $(3,4)$. The outbreak was caused primarily by wild poliovirus type 3 (P3), although wild poliovirus type 1 (P1) also was isolated. In 2000, Angola reported 55 polio cases, including 52 cases with isolation of P1 and three cases with isolation of P3. In 2001, one polio case with isolation of P1 was reported from Angola (Figure).

During 2000, an outbreak of polio with a high case-fatality rate ( 56 cases, 17 deaths) occurred on the Cape Verde Islands

FIGURE. Distribution of wild poliovirus isolates and acute flaccid paralysis (AFP) cases - Angola and western Zambia, 2001


* National Immunization Day.
(5). Genetic sequence analysis showed that the isolated P1 was imported from Angola. During December 2001February 2002, five polio cases with isolation of P3 were detected among Angolan refugees in western Zambia. Genetic sequence analysis showed that these isolates were related to wild poliovirus strains last isolated in Angola and the Democratic Republic of Congo (DRC) during 2000.
Reported by: Angolan Ministry of Health, Country Office of the World Health Organization, Luanda, Angola. Regional Office of the World Health Organization for Africa, Harare, Zimbabwe. Vaccines and Biologicals Dept, World Health Organization, Geneva, Switzerland. Div of Viral and Rickettsial Diseases, National Center for Infectious Diseases; Global Immunization Div, National Immunization Program, CDC.
Editorial Note: Although armed conflict in Angola posed many challenges to surveillance and vaccination activities, data

TABLE. Number of reported cases of acute flaccid paralysis (AFP), number of confirmed poliovirus cases, and key surveillance indicators, by year - Angola, 1998-2002*
$\left.\begin{array}{lcccc}\hline & & \begin{array}{c}\text { No. confirmed } \\ \text { poliovirus cases }\end{array} & \begin{array}{c}\text { Polio-compatible } \\ \text { cases }\end{array} & \begin{array}{c}\text { Nonpolio } \\ \text { Norsons with } \\ \text { AFP rate }{ }^{\dagger}\end{array} \\ \text { AFP with adequate } \\ \text { stool specimen }{ }^{\S}\end{array}\right]$

[^3]during January 1999-June 2002 indicate substantial progress toward interruption of wild poliovirus transmission. Following the 1999 outbreak, MoH, WHO, and the United Nations Children's Fund (UNICEF) have increased the number of staff working on polio eradication. As a result, the percentage of adequate stool specimens collected increased during the last quarter of 2001 to $>80 \%$, and Angola has met WHOrecommended standards of surveillance quality through June 2002.

The cessation of hostilities in Angola has improved access to areas never before covered by supplementary immunization activities or AFP surveillance. Emergency assistance is needed for approximately 800,000 persons living in areas that became accessible recently and for approximately 1.9 million persons in areas that had been accessible previously. An estimated 250,000 family members have gathered around 37 quartering areas for former combatants, and 300,000 IDPs are living temporarily in transit centers. Approximately 80,000 of an estimated 470,000 Angolan refugees now living in neighboring countries are expected to return to Angola (United Nations Office for the Coordination of Humanitarian Affairs [OCHA], unpublished data, 2002).
The recent isolation of wild poliovirus from five unvaccinated children of Angolan refugees in western Zambia highlights the potential for circulation of wild poliovirus in areas where children of refugees and IDP groups might congregate. Undervaccinated children in mobile high-risk groups should be targeted for vaccination.
Angola implemented NID rounds in June, July, and August 2002, synchronized with rounds conducted in the DRC, Republic of Congo, Gabon, Zambia, Namibia, and São Tomé and Principe. An AFP surveillance review is scheduled for October 2002, followed by the first meeting of an international technical advisory group for polio eradication in Angola. Future plans include expansion of AFP surveillance and vaccination activities to include newly accessible areas and populations. Interruption of wild poliovirus transmission in Angola will require that the overall security situation remain stable, existing shortfalls in financial and human resources are met, surveillance quality is improved further, and children in high-risk groups are vaccinated successfully. Close collaboration between the local government and its global partners ${ }^{\S}$ has been critical in sustaining eradication "activities in Angola and will continue to be essential.

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## References

1. CDC. Progress toward global eradication of poliomyelitis, 2001. MMWR 2002;51:253-6.
2. CDC. Progress toward poliomyelitis eradication-Angola, Democratic Republic of Congo, Ethiopia, and Nigeria, January 2000-July 2001. MMWR 2001;50:826-9.
3. Valente F, Otten M, Balbina F, et al. Massive outbreak of poliomyelitis caused by type-3 wild poliovirus in Angola in 1999. Bull World Health Organ 2000;78:339-46.
4. CDC. Outbreak of poliomyelitis—Angola, 1999. MMWR 1999; 48:327-9.
5. CDC. Outbreak of poliomyelitis—Cape Verde 2000. MMWR 2000;49:1070.

## West Nile Virus Activity - United States, August 21-28, 2002, and Illinois, January 1August 27, 2002

This report summarizes West Nile virus (WNV) surveillance data reported to CDC through ArboNET and by states and other jurisdictions as of 7:30 a.m. Mountain Daylight Time, August 28, 2002, and highlights WNV activity in Illinois.

## United States

During the reporting period of August 21-28, a total of 210 laboratory-positive human cases of WNV-associated illness were reported from Illinois ( $\mathrm{n}=55$ ), Mississippi ( $\mathrm{n}=36$ ), Louisiana ( $n=24$ ), Ohio ( $n=22$ ), Missouri ( $n=16$ ), Michigan $(\mathrm{n}=15)$, Texas $(\mathrm{n}=13)$, Georgia ( $\mathrm{n}=\mathrm{six}$ ), New York ( $\mathrm{n}=$ four), Alabama ( $\mathrm{n}=$ three), South Dakota ( $\mathrm{n}=$ =three), Indiana ( $\mathrm{n}=\mathrm{two}$ ), Kentucky ( $\mathrm{n}=\mathrm{two}$ ), Oklahoma ( $\mathrm{n}=\mathrm{two}$ ), Tennessee ( $\mathrm{n}=\mathrm{two}$ ), Wisconsin ( $\mathrm{n}=\mathrm{two}$ ), Maryland ( $\mathrm{n}=\mathrm{one}$ ), Nebraska ( $\mathrm{n}=\mathrm{one}$ ), and Virginia ( $\mathrm{n}=0 \mathrm{one}$ ). During this period, Georgia, Maryland, Michigan, Nebraska, Oklahoma, South Dakota, Virginia, and Wisconsin reported their first human cases for 2002. During the same period, WNV infections were reported in 674 dead crows, 305 other dead birds, 581 horses, and 386 mosquito pools. During this period, WNV activity was reported for the first time ever in Montana and New Mexico.
During 2002, a total of 480 human cases with laboratory evidence of recent WNV infection have been reported from Louisiana ( $\mathrm{n}=171$ ), Mississippi ( $\mathrm{n}=91$ ), Illinois ( $\mathrm{n}=71$ ), Texas ( $\mathrm{n}=38$ ), Missouri ( $\mathrm{n}=25$ ), Ohio ( $\mathrm{n}=24$ ), Michigan ( $\mathrm{n}=15$ ), Alabama ( $\mathrm{n}=\mathrm{eight}$ ), Georgia ( $\mathrm{n}=$ six), Indiana ( $\mathrm{n}=\mathrm{six}$ ), New York ( $\mathrm{n}=\mathrm{five}$ ), Tennessee ( $\mathrm{n}=$ four), Kentucky ( $\mathrm{n}=$ three), South Dakota ( $\mathrm{n}=$ =three), Oklahoma ( $\mathrm{n}=\mathrm{two}$ ), Wisconsin ( $\mathrm{n}=\mathrm{two}$ ), the District of Columbia ( $\mathrm{n}=\mathrm{one}$ ), Florida ( $\mathrm{n}=\mathrm{one}$ ), Maryland ( $\mathrm{n}=\mathrm{one}$ ), Massachusetts ( $\mathrm{n}=$ one), Nebraska ( $\mathrm{n}=\mathrm{one}$ ), and

Virginia ( $\mathrm{n}=\mathrm{one}$ ) (Figure 1). Among the patients with available data, the median age was 51 years (range: 9 months- 98 years), 237 ( $54 \%$ ) were male, and the dates of illness onset ranged from June 10 to August 25. In addition, 2,590 dead crows and 1,872 other dead birds with WNV infection were reported from 41 states, New York City, and the District of Columbia; 837 WNV infections in mammals (all but one in horses) have been reported from 25 states (Alabama, Arkansas, Colorado, Florida, Georgia, Iowa, Illinois, Kansas, Kentucky, Louisiana, Minnesota, Mississippi, Montana, Nebraska, New Mexico, New York, North Dakota, Ohio, Oklahoma, South Dakota, Tennessee, Texas, Vermont, Virginia, and Wyoming). During 2002, WNV seroconversions have been reported in 96 sentinel chicken flocks from Florida, Nebraska, Pennsylvania, and New York City; 1,491 WNV-positive mosquito pools have been reported from 18 states (Alabama, Connecticut, Georgia, Illinois, Indiana, Kentucky, Maryland, Massachusetts, Mississippi, Nebraska, New Hampshire, New Jersey, New York, Ohio, Pennsylvania, South Dakota, Texas, and Virginia), New York City, and the District of Columbia.

## Illinois

In 2002, a total of 71 persons with laboratory evidence of WNV were reported through August 27, 2002 (Figure 2); 44 cases were laboratory confirmed and 27 were probable. Four cases were fatal; all four patients presented with encephalitis.
The 71 patients had a median age of 49 years (range: 2-92 years); $47 \%$ were male. The median age for 32 patients with either aseptic meningitis or encephalitis and a known age was 51 years (range: 18-92 years). Patients who died ranged in age from 67 to 92 years.

FIGURE 1. Areas reporting West Nile virus (WNV) activity United States, 2002*


* As of 7:30 a.m., Mountain Daylight Time, August 28, 2002.

FIGURE 2. Number of West Nile virus cases in humans*, by county - Illinois, January 1-August 27, 2002


* $\mathrm{n}=71$.

Initial clinical data indicate that 20 patients presented with aseptic meningitis and 17 presented with encephalitis. Nine patients presented with WNV-associated fever. The 25 remaining cases are under investigation. Dates of illness onset ranged from July 14 through August 20.
Of Illinois' 102 counties, 92 ( $90 \%$ ) have reported WNV activity (positive animal, mosquito, or human cases). Human cases have occurred among persons in nine counties, with 51 (72 \%) cases reported from Cook County, the most populated area of the state. The attack rate during January 1August 27 was 0.6 per 100,000 for the state population, and 1.0 for Cook County.

Of the 709 crows and blue jays tested, 439 (62\%) have tested positive for WNV by the immunohistochemistry test; the first bird tested positive on May 15. Sixty-two horses have tested laboratory positive. These horses had specimens collected during July 19-August 23 from 18 counties. Mosquito pools began testing positive on July 11, and 236 mosquito pools have been reported to the Illinois Department of Public Health (IDPH) as positive through August 16.

IDPH has provided regular updates on WNV on its Web site (http://www.idph.state.il.us). Information on submission of specimens and clinical information on WNV has been provided to local health departments, infection control practitioners, infectious disease physicians, and hospital laboratories. Special reminders have been sent to schools and campgrounds asking them to inform students, spectators, and campers about mosquito repellents and other protective measures. IDPH has
conducted vector control consultations and trainings on larviciding. Prevention messages emphasize the need for personal protective measures and removing containers of standing water around residences.
Additional information about WNV activity is available at http://www.cdc.gov/ncidod/dvbid/westnile/index.htm and http://www.cindi.usgs.gov/hazard/event/west_nile/ west_nile.html.

FIGURE I. Selected notifiable disease reports, United States, comparison of provisional 4-week totals ending August 24, 2002, with historical data


* No rubella cases were reported for the current 4-week period yielding a ratio for week 34 of zero (0).
$\dagger$ Ratio of current 4 -week total to mean of 154 -week totals (from previous, comparable, and subsequent 4 -week periods for the past 5 years). The point where the hatched area begins is based on the mean and two standard deviations of these 4-week totals.

TABLE I. Summary of provisional cases of selected notifiable diseases, United States, cumulative, week ending August 24, 2002 (34th Week)*

|  |  | $\begin{aligned} & \text { Cum. } \\ & 2002 \end{aligned}$ | $\begin{aligned} & \text { Cum. } \\ & 2001 \end{aligned}$ | Encephalitis: West Nile ${ }^{\dagger}$ | $\begin{aligned} & \text { Cum. } \\ & 2002 \end{aligned}$ | $\begin{aligned} & \text { Cum. } \\ & 2001 \\ & \hline \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Anthrax |  | 2 | 1 |  | 63 | 10 |
| Botulism: | foodborne | 10 | 20 | Hansen disease (leprosy) ${ }^{\dagger}$ | 53 | 46 |
|  | infant | 39 | 62 | Hantavirus pulmonary syndrome ${ }^{\dagger}$ | 9 | 5 |
|  | other (wound \& unspecified) | 13 | 12 | Hemolytic uremic syndrome, postdiarrheal ${ }^{\dagger}$ | 109 | 89 |
| Brucellosis ${ }^{\dagger}$ |  | 47 | 84 | HIV infection, pediatric ${ }^{\text {¢ }}$ | 116 | 115 |
| Chancroid |  | 46 | 23 | Plague | - | 2 |
| Cholera |  | 6 | 3 | Poliomyelitis, paralytic | - | - |
| Cyclosporiasis ${ }^{\dagger}$ |  | 137 | 96 | Psittacosis ${ }^{\dagger}$ | 15 | 9 |
| Diphtheria |  | 1 | 1 | Q fever ${ }^{+}$ | 23 | 16 |
| Ehrlichiosis: | human granulocytic (HGE) ${ }^{\dagger}$ | 187 | 139 | Rabies, human | 1 | 1 |
|  | human monocytic (HME) ${ }^{\dagger}$ | 81 | 76 | Streptococcal toxic-shock syndrome ${ }^{\dagger}$ | 58 | 57 |
|  | other and unspecified | 5 | 4 | Tetanus | 18 | 26 |
| Encephalitis: | California serogroup viral ${ }^{\dagger}$ | 29 | 32 | Toxic-shock syndrome | 76 | 81 |
|  | eastern equine ${ }^{\dagger}$ | 2 | 4 | Trichinosis | 12 | 12 |
|  | Powassan ${ }^{\dagger}$ | - | - | Tularemia ${ }^{\dagger}$ | 43 | 91 |
|  | St. Louis ${ }^{\dagger}$ western equine ${ }^{\dagger}$ | - | 40 | Yellow fever | 1 | - |

[^5]TABLE II. Provisional cases of selected notifiable diseases, United States, weeks ending August 24, 2002, and August 25, 2001 (34th Week)*

| Reporting Area | AIDS |  | Chlamydia ${ }^{\dagger}$ |  | Cryptosporidiosis |  | Escherichia coli |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | 0157:H7 | Shiga Toxin Positive, Serogroup non-0157 |  |
|  | $\begin{aligned} & \hline \text { Cum. } \\ & 2002^{\mathrm{s}} \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2001 \\ & \hline \end{aligned}$ |  |  | $\begin{aligned} & \hline \text { Cum. } \\ & 2002 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2001 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2002 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2001 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2002 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2001 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2002 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2001 \end{aligned}$ |
| UNITED STATES | 24,713 | 25,177 | 479,669 | 497,826 |  |  | 1,417 | 2,112 | 1,680 | 1,737 | 79 | 85 |
| NEW ENGLAND | 1,011 | 910 | 17,009 | 15,378 | 95 | 89 | 159 | 167 | 22 | 29 |
| Maine | 23 | 26 | 1,000 | 832 | 6 | 10 | 26 | 19 | 2 | - |
| N.H. | 20 | 23 | 1,032 | 896 | 19 | 4 | 18 | 22 | - | 3 |
| Vt. | 8 | 11 | 567 | 389 | 19 | 25 | 5 | 10 | - | 1 |
| Mass. | 519 | 532 | 7,046 | 6,580 | 29 | 38 | 69 | 82 | 8 | 9 |
| R.I. | 71 | 61 | 1,789 | 1,860 | 13 | 3 | 5 | 9 | - | - |
| Conn. | 370 | 257 | 5,575 | 4,821 | 9 | 9 | 36 | 25 | 12 | 16 |
| MID. ATLANTIC | 5,619 | 6,570 | 52,767 | 53,414 | 169 | 197 | 126 | 127 | - | - |
| Upstate N.Y. | 404 | 977 | 10,475 | 8,663 | 58 | 59 | 104 | 74 | - | - |
| N.Y. City | 3,210 | 3,484 | 17,942 | 19,739 | 72 | 82 | 7 | 13 | - | - |
| N.J. | 925 | 1,129 | 5,696 | 8,503 | 8 | 10 | 15 | 40 | - | - |
| Pa. | 1,080 | 980 | 18,654 | 16,509 | 31 | 46 | N | N | - | - |
| E.N. CENTRAL | 2,494 | 1,705 | 81,760 | 91,588 | 350 | 1,027 | 382 | 450 | 8 | 6 |
| Ohio | 453 | 302 | 20,165 | 23,627 | 82 | 100 | 78 | 89 | 6 | 4 |
| Ind. | 347 | 197 | 10,335 | 9,976 | 27 | 47 | 34 | 56 | - | - |
| III. | 1,170 | 779 | 20,318 | 27,880 | 48 | 424 | 100 | 120 | - | - |
| Mich. | 398 | 325 | 20,888 | 19,591 | 67 | 103 | 75 | 57 | 2 | 2 |
| Wis. | 126 | 102 | 10,054 | 10,514 | 126 | 353 | 95 | 128 | - | - |
| W.N. CENTRAL | 421 | 544 | 26,708 | 25,157 | 173 | 205 | 261 | 244 | 11 | 17 |
| Minn. | 90 | 92 | 6,102 | 5,139 | 86 | 92 | 95 | 96 | 9 | 15 |
| lowa | 54 | 54 | 2,765 | 2,946 | 16 | 49 | 56 | 41 | - | - |
| Mo. | 189 | 263 | 9,660 | 9,104 | 22 | 29 | 41 | 34 | N | N |
| N. Dak. | 1 | 2 | 607 | 668 | 6 | 7 | 3 | 9 | - | - |
| S. Dak. | 3 | 18 | 1,396 | 1,156 | 7 | 6 | 27 | 15 | 1 | 1 |
| Nebr. | 43 | 51 | 1,857 | 2,172 | 26 | 21 | 16 | 34 | 1 | 1 |
| Kans. | 41 | 64 | 4,321 | 3,972 | 10 | 1 | 23 | 15 | - | - |
| S. ATLANTIC | 7,537 | 7,650 | 92,021 | 96,368 | 219 | 228 | 157 | 138 | 22 | 17 |
| Del. | 131 | 142 | 1,681 | 1,871 | 2 | 2 | 4 | 3 | - | - |
| Md. | 1,066 | 1,067 | 9,912 | 9,718 | 15 | 28 | 14 | 10 | - | - |
| D.C. | 371 | 512 | 2,171 | 2,074 | 4 | 9 | - |  | - | - |
| Va . | 538 | 639 | 9,894 | 12,401 | 7 | 15 | 32 | 38 | 2 | 2 |
| W. Va. | 58 | 50 | 1,542 | 1,538 | 2 | 1 | 3 | 4 | - | - |
| N.C. | 555 | 495 | 15,955 | 14,386 | 25 | 19 | 25 | 29 | - | - |
| S.C. | 547 | 462 | 7,969 | 10,189 | 4 | 5 | 2 | 12 | $10^{-}$ | - |
| Ga. | 1,160 | 852 | 17,676 | 20,457 | 100 | 96 | 46 | 23 | 10 | 8 |
| Fla. | 3,111 | 3,431 | 25,221 | 23,734 | 60 | 53 | 31 | 19 | 10 | 7 |
| E.S. CENTRAL | 1,128 | 1,179 | 31,926 | 32,316 | 90 | 30 | 66 | 92 | - | - |
| Ky. | 173 | 220 | 5,607 | 5,795 | 3 | 3 | 19 | 49 | - | - |
| Tenn. | 483 | 361 | 10,382 | 9,807 | 46 | 7 | 26 | 25 | - | - |
| Ala. | 197 | 308 | 9,162 | 8,751 | 37 | 11 | 14 | 11 | - | - |
| Miss. | 275 | 290 | 6,775 | 7,963 | 4 | 9 | 7 | 7 | - | - |
| W.S. CENTRAL | 2,696 | 2,722 | 69,756 | 69,861 | 24 | 69 | 39 | 137 | - | - |
| Ark. | 163 | 141 | 4,277 | 4,866 | 7 | 5 | 5 | 7 | - | - |
| La. | 693 | 548 | 12,663 | 11,750 | 4 | 7 | 1 | 6 | - | - |
| Okla. | 133 | 153 | 7,197 | 6,919 | 8 | 7 | 15 | 19 | - | - |
| Tex. | 1,707 | 1,880 | 45,619 | 46,326 | 5 | 50 | 18 | 105 | - | - |
| MOUNTAIN | 790 | 910 | 30,297 | 29,498 | 106 | 95 | 193 | 164 | 11 | 10 |
| Mont. | 8 | 13 | 1,387 | 1,288 | 4 | 7 | 13 | 10 | - | - |
| Idaho | 18 | 17 | 1,599 | 1,198 | 19 | 9 | 27 | 25 | 4 | 2 |
| Wyo. | 6 | 2 | 575 | 536 | 7 | 2 | 6 | 5 | 1 | - |
| Colo. | 157 | 211 | 9,048 | 8,527 | 40 | 25 | 56 | 65 | 2 | 5 |
| N. Mex. | 53 | 87 | 3,990 | 4,032 | 15 | 17 | 4 | 9 | 3 | 3 |
| Ariz. | 327 | 337 | 9,664 | 9,399 | 12 | 6 | 23 | 19 | 1 | - |
| Utah | 43 | 81 | 1,637 | 1,242 | 6 | 24 | 46 | 22 | - | - |
| Nev. | 178 | 162 | 2,397 | 3,276 | 3 | 5 | 18 | 9 | - | - |
| PACIFIC | 3,017 | 2,987 | 77,425 | 84,246 | 191 | 172 | 297 | 218 | 5 | 6 |
| Wash. | 302 | 325 | 9,258 | 8,826 | 37 | U | 89 | 54 | - | - |
| Oreg. | 216 | 119 | 4,400 | 4,760 | 26 | 24 | 60 | 31 | 5 | 6 |
| Calif. | 2,416 | 2,491 | 58,724 | 66,369 | 127 | 144 | 112 | 120 | - | - |
| Alaska | 17 | 14 | 2,294 | 1,754 | - | 1 | 5 | 3 | - | - |
| Hawaii | 66 | 38 | 2,749 | 2,537 | 1 | 3 | 31 | 10 | - | - |
| Guam | 2 | 9 | - | 267 | - | - | N | N | - | - |
| P.R. | 668 | 732 | 1,635 | 1,687 | - | - | - | 1 | - | - |
| V.I. | 66 | 2 | 98 | 115 | - | - | - | - | - | - |
| Amer. Samoa | U | U | U | U | U | U | U | U | U | U |
| C.N.M.I. | 2 | U | 132 | 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 year 2001 and 2002 are provisional and cumulative (year-to-date).
${ }^{\dagger}$ Chlamydia refers to genital infections caused by C. trachomatis.
§ Updated monthly from reports to the Division of HIV/AIDS Prevention - Surveillance and Epidemiology, National Center for HIV, STD, and TB Prevention. Last update July 28, 2002.

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending August 24, 2002, and August 25, 2001 (34th Week)*

| Reporting Area | Escherichia coli |  | Giardiasis <br> Cum. <br> 2002 | Gonorrhea |  | Haemophilus influenzae, Invasive |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | All Ages, All Serotypes |  | Age < 5 Years |  |
|  | Shiga Toxin Positive, Not Serogrouped |  |  |  |  |  |  |  |
|  | $\begin{aligned} & \text { Cum. } \\ & 2002 \\ & \hline \end{aligned}$ | $\begin{aligned} & \text { Cum. } \\ & 2001 \\ & \hline \end{aligned}$ | $\begin{aligned} & \text { Cum. } \\ & 2002 \\ & \hline \end{aligned}$ |  |  | $\begin{aligned} & \text { Cum. } \\ & 2001 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2002 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2001 \end{aligned}$ | $\begin{aligned} & \text { Cum. } \\ & 2002 \\ & \hline \end{aligned}$ | $\begin{aligned} & \text { Cum. } \\ & 2001 \\ & \hline \end{aligned}$ |
| UNITED STATES | 31 | 7 | 9,449 | 202,942 | 229,058 | 1,054 | 1,019 | 17 | 17 |
| NEW ENGLAND | - | 1 | 1,005 | 4,741 | 4,238 | 74 | 77 | - | 1 |
| Maine | - | - | 116 | 78 | 93 | 1 | 1 | - | - |
| N.H. | - | - | 29 | 77 | 107 | 6 | 4 | - | - |
| Vt . | - | 1 | 82 | 69 | 47 | 5 | 3 | - | - |
| Mass. | - | - | 497 | 2,124 | 2,008 | 37 | 36 | - | 1 |
| R.I. | - | - | 92 | 556 | 477 | 10 | 3 | - | - |
| Conn. | - | - | 189 | 1,837 | 1,506 | 15 | 30 | - | - |
| MID. ATLANTIC | - | - | 1,966 | 24,166 | 26,287 | 183 | 144 | 3 | 3 |
| Upstate N.Y. | - | - | 680 | 5,289 | 5,382 | 81 | 47 | 2 | - |
| N.Y. City | - | - | 758 | 7,287 | 8,219 | 44 | 38 | - | - |
| N.J. | - | - | 181 | 3,799 | 4,494 | 38 | 32 | - | - |
| Pa. | - | - | 347 | 7,791 | 8,192 | 20 | 27 | 1 | 3 |
| E.N. CENTRAL | 11 | 2 | 1,737 | 39,091 | 47,748 | 167 | 189 | 2 | 2 |
| Ohio | 10 | 2 | 541 | 11,017 | 12,920 | 63 | 51 | - | 1 |
| Ind. | - | - | - | 4,477 | 4,240 | 33 | 36 | 1 | - |
| III. | - | - | 397 | 10,894 | 15,330 | 56 | 66 | - | - |
| Mich. | 1 | - | 511 | 9,074 | 11,441 | 8 | 12 | 1 | - |
| Wis. | - | - | 288 | 3,629 | 3,817 | 7 | 24 | - | 1 |
| W.N.CENTRAL | - | 2 | 1,066 | 10,532 | 10,708 | 43 | 47 | 1 | 1 |
| Minn. | - | - | 381 | 1,806 | 1,638 | 30 | 25 | 1 | - |
| lowa | - | - | 160 | 619 | 830 | 1 | - | - | - |
| Mo. | N | N | 298 | 5,466 | 5,511 | 9 | 16 | - | - |
| N. Dak. | - | 2 | 11 | 31 | 23 | - | 4 | - | - |
| S. Dak. | - | - | 45 | 165 | 183 | - | - | - | - |
| Nebr. | - | - | 74 | 652 | 773 | - | 1 | - | 1 |
| Kans. | - | - | 97 | 1,793 | 1,750 | 3 | 1 | - | - |
| S. ATLANTIC | - | - | 1,774 | 52,875 | 59,512 | 273 | 250 | 4 | 1 |
| Del. | - | - | 29 | 1,018 | 1,078 | - | - | - | - |
| Md. | - | - | 69 | 5,474 | 5,667 | 63 | 63 | 2 | - |
| D.C. | - | - | 29 | 1,797 | 1,859 | - | - | - | - |
| Va . | - | - | 142 | 5,617 | 7,366 | 22 | 19 | - | - |
| W. Va. | - | - | 31 | 628 | 409 | 12 | 10 | - | 1 |
| N.C. | - | - | - | 10,606 | 11,089 | 24 | 37 | - | - |
| S.C. | - | - | 56 | 4,804 | 7,395 | 9 | 4 | - | - |
| Ga. | - | - | 575 | 9,763 | 11,167 | 72 | 65 | - | - |
| Fla. | - | - | 843 | 13,168 | 13,482 | 71 | 52 | 2 | - |
| E.S. CENTRAL | 7 | 1 | 219 | 18,297 | 20,915 | 46 | 59 | 1 | - |
| Ky. | 7 | 1 | $\bigcirc$ | 2,318 | 2,278 | 4 | 2 | - | - |
| Tenn. |  | , | 97 | 5,978 | 6,536 | 23 | 29 | - | - |
| Ala. | - | - | 122 | 5,907 | 6,884 | 14 | 26 | 1 | - |
| Miss. | - | - |  | 4,094 | 5,217 | 5 | 2 | - | - |
| W.S. CENTRAL | - | - | 129 | 30,851 | 34,449 | 41 | 39 | 2 | 1 |
| Ark. | - | - | 89 | 2,439 | 3,052 | 1 | - |  | - |
| La. | - | - | 2 | 7,795 | 8,209 | 3 | 6 | - | - |
| Okla. | - | - | 38 | 3,059 | 3,183 | 32 | 32 | - | - |
| Tex. | - | - | - | 17,558 | 20,005 | 5 | 1 | 2 | 1 |
| MOUNTAIN | 13 | 1 | 937 | 6,438 | 6,761 | 132 | 108 | 2 | 4 |
| Mont. | - | - | 57 | 60 | 78 | - | , | - | - |
| Idaho | - | - | 70 | 58 | 53 | 2 | 1 | - | - |
| Wyo. | - | - | 21 | 39 | 43 | 1 | 1 | - | - |
| Colo. | 13 | 1 | 306 | 2,201 | 2,083 | 26 | 31 | - | - |
| N. Mex. | - | - | 108 | 821 | 635 | 19 | 16 | 1 | 1 |
| Ariz. | - | - | 124 | 2,371 | 2,589 | 63 | 43 | 1 | 1 |
| Utah | - | - | 172 | 159 | 107 | 15 | 5 | - | - |
| Nev. | - | - | 79 | 729 | 1,173 | 6 | 11 | 1 | 2 |
| PACIFIC | - | - | 616 | 15,951 | 18,440 | 95 | 106 | 2 | 4 |
| Wash. | - | - | 231 | 1,801 | 1,968 | 2 | 2 | 1 | - |
| Oreg. | - | - | 259 | 549 | 748 | 46 | 31 | , | - |
| Calif. | - | - | - | 12,813 | 15,056 | 19 | 47 | 1 | 4 |
| Alaska | - | - | 59 | 380 | 255 | 1 | 5 | - | - |
| Hawaii | - | - | 67 | 408 | 413 | 27 | 21 | - | - |
| Guam | - | - | , | - | 31 | - | - | - | - |
| P.R. | - | - | 11 | 243 | 390 | 1 | 1 | - | - |
| V.I. | - | - | , | 25 | 19 | - | - | - | - |
| Amer. Samoa | U | U | U | U | U | U | U | U | U |
| C.N.M.I. | - | U | 1 | 13 | U | - | U | - | U |

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

* Incidence data for reporting year 2001 and 2002 are provisional and cumulative (year-to-date).

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending August 24, 2002, and August 25, 2001 (34th Week)*

| Reporting Area | Haemophilus influenzae, Invasive |  |  |  | Hepatitis (Viral, Acute), By Type |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Age <5 Years |  |  |  |  |  |  |  |  |  |
|  | Non-Serotype B |  | Unknown Serotype |  | A |  | B |  | C; Non-A, Non-B |  |
|  | $\begin{aligned} & \hline \text { Cum. } \\ & 2002 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2001 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2002 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2001 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2002 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2001 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2002 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2001 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2002 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2001 \\ & \hline \end{aligned}$ |
| UNITED STATES | 167 | 171 | 15 | 22 | 5,430 | 6,131 | 4,357 | 4,613 | 4,083 | 2,685 |
| NEW ENGLAND | 7 | 13 | - | - | 207 | 372 | 142 | 87 | 20 | 30 |
| Maine | - | - | - | - | 7 | 6 | 6 | 5 | - | - |
| N.H. | - | 1 | - | - | 11 | 11 | 12 | 10 | - | - |
| Vt. | - | - | - | - | 1 | 8 | 3 | 5 | 12 | 6 |
| Mass. | 4 | 7 | - | - | 91 | 163 | 82 | 16 | 8 | 24 |
| R.I. | - | - | - | - | 29 | 19 | 21 | 17 | - | - |
| Conn. | 3 | 5 | - | - | 68 | 165 | 18 | 34 | - | - |
| MID. ATLANTIC | 23 | 22 | - | 3 | 631 | 806 | 872 | 895 | 1,058 | 838 |
| Upstate N.Y. | 9 | 6 | - | 1 | 126 | 169 | 89 | 79 | 39 | 19 |
| N.Y. City | 7 | 6 | - | - | 256 | 285 | 453 | 418 | - | - |
| N.J. | 4 | 3 | - | - | 86 | 198 | 180 | 195 | 997 | 774 |
| Pa. | 3 | 7 | - | 2 | 163 | 154 | 150 | 203 | 22 | 45 |
| E.N. CENTRAL | 27 | 32 | 1 | 2 | 724 | 762 | 537 | 614 | 68 | 121 |
| Ohio | 7 | 9 | 1 | - | 234 | 155 | 74 | 76 | 6 | 8 |
| Ind. | 7 | 6 | - | 1 | 33 | 59 | 31 | 31 | - | 1 |
| III. | 11 | 11 | - | - | 192 | 273 | 67 | 93 | 9 | 9 |
| Mich. | 1 | - | - | 1 | 160 | 224 | 365 | 388 | 53 | 103 |
| Wis. | 1 | 6 | - | - | 105 | 51 | - | 26 | - | - |
| W.N. CENTRAL | 2 | 2 | 3 | 6 | 228 | 250 | 138 | 135 | 606 | 800 |
| Minn. | 2 | 1 | 1 | 2 | 32 | 20 | 13 | 12 | 13 | 7 |
| Iowa | - | - | - | - | 58 | 25 | 12 | 15 | 1 |  |
| Mo. | - | - | 2 | 4 | 65 | 53 | 78 | 77 | 580 | 784 |
| N. Dak. | - | 1 | - | - | 1 | 2 | 4 | - | - | - |
| S. Dak. | - | - | - | - | 3 | 1 | - | 1 | - | - |
| Nebr. | - | - | - | - | 11 | 29 | 18 | 19 | 8 | 4 |
| Kans. | - | - | - | - | 58 | 120 | 13 | 11 | 4 | 5 |
| S. ATLANTIC | 39 | 36 | 2 | 5 | 1,696 | 1,212 | 1,167 | 872 | 118 | 46 |
| Del. | - | - | - | - | 9 | 7 | 7 | 20 | 5 | 2 |
| Md. | 3 | 5 | - | 1 | 197 | 160 | 87 | 93 | 10 | 5 |
| D.C. | - | - | - | - | 56 | 33 | 14 | 11 | - |  |
| Va . | 3 | 5 | - | - | 72 | 89 | 136 | 101 | 2 | - |
| W. Va. | - | 1 | 1 | - | 13 | 8 | 18 | 20 | 1 | 9 |
| N.C. | 3 | 2 | - | 4 | 151 | 113 | 173 | 131 | 18 | 14 |
| S.C. | 2 | 1 | - | - | 48 | 56 | 65 | 22 | 4 | 5 |
| Ga. | 16 | 14 | - | - | 369 | 624 | 325 | 260 | 29 |  |
| Fla. | 12 | 8 | 1 | - | 781 | 122 | 342 | 214 | 49 | 11 |
| E.S. CENTRAL | 10 | 12 | 1 | 2 | 173 | 254 | 226 | 311 | 135 | 162 |
| Ky. | 1 | - | - | 1 | 40 | 73 | 38 | 36 | 3 | 6 |
| Tenn. | 6 | 6 | - | - | 66 | 98 | 80 | 153 | 25 | 52 |
| Ala. | 3 | 5 | 1 | 1 | 25 | 63 | 50 | 63 | 4 | 2 |
| Miss. | - | 1 | - | - | 42 | 20 | 58 | 59 | 103 | 102 |
| W.S. CENTRAL | 9 | 5 | - | - | 246 | 648 | 345 | 547 | 1,932 | 547 |
| Ark. | - | - | - | - | 29 | 53 | 63 | 64 | 5 | 6 |
| La. | 1 | - | - | - | 22 | 70 | 31 | 84 | 16 | 116 |
| Okla. | 6 | 5 | - | - | 34 | 92 | 17 | 74 | 4 | 4 |
| Tex. | 2 | - | - | - | 161 | 433 | 234 | 325 | 1,907 | 421 |
| MOUNTAIN | 29 | 16 | 7 | 1 | 400 | 516 | 412 | 326 | 68 | 41 |
| Mont. | - | - | - | - | 10 | 9 | 3 | 2 | - | 1 |
| Idaho | 1 | - | - | - | 23 | 48 | 6 | 9 | - | 2 |
| Wyo. | - | - | - | - | 2 | 4 | 15 | 1 | 8 | 4 |
| Colo. | 2 | 1 | - | - | 69 | 52 | 58 | 71 | 28 | 5 |
| N. Mex. | 4 | 7 | 1 | 1 | 13 | 28 | 106 | 90 | 1 | 11 |
| Ariz. | 15 | 6 | 5 | - | 212 | 264 | 158 | 101 | 4 | 9 |
| Utah | 5 | 2 |  | - | 37 | 57 | 29 | 18 | 4 | 2 |
| Nev. | 2 | - | 1 | - | 34 | 54 | 37 | 34 | 23 | 7 |
| PACIFIC | 21 | 33 | 1 | 3 | 1,125 | 1,311 | 518 | 826 | 78 | 100 |
| Wash. | 1 | 1 | - | 1 | 118 | 88 | 46 | 89 | 16 | 16 |
| Oreg. | 5 | 5 | - | - | 50 | 80 | 91 | 111 | 14 | 12 |
| Calif. | 11 | 25 | 1 | 1 | 949 | 1,115 | 372 | 604 | 48 | 72 |
| Alaska | 1 | 1 | - | - | 7 | 14 | 3 | 7 | - |  |
| Hawaii | 3 | 1 | - | 1 | 1 | 14 | 6 | 15 | - | - |
| Guam | - | - | - | - | - | 1 | - | - | - | - |
| P.R. | - | 1 | - | - | 70 | 128 | 61 | 176 | - | 1 |
| V.I. | - | - | - | - | - | - | - | - | - | 1 |
| Amer. Samoa | U | U | U | U | U | U | U | U | U | U |
| C.N.M.I. | - | U | - | U | - | U | 37 | U | - | U |

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

* Incidence data for reporting year 2001 and 2002 are provisional and cumulative (year-to-date).

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending August 24, 2002, and August 25, 2001 (34th Week)*

| Reporting Area | Legionellosis |  | Listeriosis |  | Lyme Disease |  | Malaria |  | Measles Total |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Cum. | Cum. 2001 | Cum. 2002 | Cum. | Cum. 2002 | Cum. 2001 | Cum. 2002 | Cum. 2001 | Cum. <br> 2002 | $\begin{aligned} & \text { Cum. } \\ & 2001 \end{aligned}$ |
| UNITED STATES | 587 | 627 | 295 | 371 | 7,136 | 9,533 | 759 | 958 | $17{ }^{\dagger}$ | 96§ |
| NEW ENGLAND | 54 | 36 | 38 | 33 | 1,294 | 2,745 | 43 | 61 | - | 5 |
| Maine | 2 | 4 | 4 | - | 53 | , | 3 | 4 | - | - |
| N.H. | 4 | 6 | 4 | 2 | 151 | 48 | 6 | 2 | - | - |
| Vt. | 21 | 4 | 2 | 2 | 15 | 7 | 2 | - | - | 1 |
| Mass. | 18 | 11 | 19 | 17 | 665 | 891 | 15 | 32 | - | 3 |
| R.I. | 1 | 2 | 1 | 1 | 158 | 218 | 3 | 3 | - | - |
| Conn. | 8 | 9 | 8 | 11 | 252 | 1,581 | 14 | 20 | - | 1 |
| MID. ATLANTIC | 130 | 144 | 53 | 62 | 4,721 | 5,086 | 167 | 274 | 5 | 18 |
| Upstate N.Y. | 43 | 40 | 28 | 19 | 2,899 | 1,835 | 30 | 40 | - | 4 |
| N.Y. City | 26 | 23 | 12 | 15 | 81 | 56 | 99 | 159 | 5 | 6 |
| N.J. | 12 | 11 | 3 | 11 | 337 | 1,721 | 20 | 43 | - | 1 |
| Pa . | 49 | 70 | 10 | 17 | 1,404 | 1,474 | 18 | 32 | - | 7 |
| E.N. CENTRAL | 147 | 168 | 36 | 56 | 52 | 589 | 91 | 121 | 3 | 10 |
| Ohio | 67 | 78 | 14 | 10 | 42 | 17 | 15 | 20 | 1 | 3 |
| Ind. | 12 | 13 | 6 | 5 | 10 | 17 | 7 | 13 | 2 | 4 |
| III. | - | 19 | 1 | 21 | - | 29 | 23 | 54 | - | 3 |
| Mich. | 50 | 31 | 12 | 16 | - | 5 | 36 | 22 | - | - |
| Wis. | 18 | 27 | 3 | 4 | U | 521 | 10 | 12 | - | - |
| W.N. CENTRAL | 32 | 38 | 8 | 9 | 164 | 233 | 46 | 29 | 2 | 4 |
| Minn. | 6 | 9 | - | - | 111 | 182 | 16 | 6 | 1 | 2 |
| Iowa | 7 | 6 | 1 | - | 23 | 21 | 2 | 5 | , | - |
| Mo. | 10 | 14 | 5 | 6 | 25 | 24 | 13 | 10 | 1 | 2 |
| N. Dak. | . | 1 | 1 | - | - | - | 1 | - | - | - |
| S. Dak. | 2 | 3 | - | - | - | - | - | - | - | - |
| Nebr. | 7 | 4 | - | 1 | 1 | 4 | 5 | 2 | - | - |
| Kans. | - | 1 | 1 | 2 | 4 | 2 | 9 | 6 | - | - |
| S. ATLANTIC | 119 | 106 | 51 | 47 | 757 | 697 | 224 | 199 | 1 | 5 |
| Del. | 6 | 3 | - | 2 | 98 | 107 | 2 | 1 | - |  |
| Md. | 19 | 25 | 10 | 8 | 443 | 436 | 70 | 83 | - | 3 |
| D.C. | 5 | 7 |  | - | 17 | 8 | 14 | 13 | - | - |
| Va . | 13 | 17 | 3 | 9 | 67 | 97 | 17 | 38 | - | 1 |
| W. Va. | N | N | - | 5 | 8 | 9 | 3 | 1 | - | - |
| N.C. | 7 | 7 | 4 | 2 | 70 | 26 | 12 | 9 | - | - |
| S.C. | 5 | 5 | 8 | 4 | 10 | 3 | 5 | 5 | - | - |
| Ga. | 10 | 9 | 10 | 8 | 1 | - | 59 | 33 | - | 1 |
| Fla. | 54 | 33 | 16 | 9 | 43 | 11 | 42 | 16 | 1 | - |
| E.S. CENTRAL | 23 | 45 | 9 | 15 | 34 | 39 | 13 | 23 | - | 2 |
| Ky. | 9 | 11 | 2 | 4 | 13 | 17 | 5 | 8 | - | 2 |
| Tenn. | 8 | 21 | 4 | 6 | 14 | 10 | 3 | 8 | - | - |
| Ala. | 6 | 9 | 3 | 5 | 7 | 6 | 3 | 4 | - | - |
| Miss. | - | 4 | - | - | - | 6 | 2 | 3 | - | - |
| W.S. CENTRAL | 8 | 17 | 11 | 29 | 16 | 66 | 9 | 67 | 1 | 1 |
| Ark. | 1 | - | - | 1 | 2 | , | 1 | 3 | - | - |
| La. | 1 | 6 | - | , | 1 | 4 | 3 | 5 | - | - |
| Okla. | 3 | 3 | 6 | 2 | - | , | 5 | 2 | 1 | 1 |
| Tex. | 4 | 8 | 5 | 26 | 13 | 62 |  | 57 | 1 | 1 |
| MOUNTAIN | 27 | 33 | 21 | 29 | 16 | 7 | 34 | 35 | 1 | 1 |
| Mont. | 3 | - | - | 1 |  | , | 1 | 2 |  | - |
| Idaho | - | 2 | 2 | 1 | 3 | 4 | - | 3 | - | 1 |
| Wyo. | 1 | 2 |  | 1 | - | 1 | - | - | - | - |
| Colo. | 6 | 11 | 4 | 8 | 5 | - | 19 | 19 | - | - |
| N. Mex. | 1 | 2 | 2 | 6 | 1 | - | 2 | 3 | - | - |
| Ariz. | 7 | 8 | 9 | 6 | 2 | - | 5 | 3 | - | - |
| Utah | 8 | 5 | 3 | 1 | 4 | - | 4 | 2 | - | - |
| Nev. | 1 | 3 | 1 | 6 | 1 | 2 | 3 | 3 | 1 | - |
| PACIFIC | 47 | 40 | 68 | 91 | 82 | 71 | 132 | 149 | 4 | 50 |
| Wash. | 5 | 6 | 7 | 5 | 6 | 4 | 12 | 4 | - | 15 |
| Oreg. | N | N | 8 | 6 | 12 | 7 | 7 | 12 | - | 2 |
| Calif. | 42 | 29 | 47 | 76 | 63 | 58 | 105 | 123 | 3 | 26 |
| Alaska | - | 1 | - | - | 1 | 2 | 2 | 1 | - | - |
| Hawaii | - | 4 | 6 | 4 | N | N | 6 | 9 | 1 | 7 |
| Guam | - | , | , | - | - | - | - | - | - | - |
| P.R. | - | 2 | 1 | - | N | N | - | 3 | - | - |
| V.I. | - | - | - | - | - | - | - | - | - | - |
| Amer. Samoa | U | U | U | U | U | U | U | U | U | U |
| C.N.M.I. | U | U | U | U | - | U | U | U | - | U |

N: Not notifiable.
Incidence data for reporting year 2001 and 2002 are provisional and cumulative (year-to-date).
${ }^{+}$Of 17 cases reported, seven were indigenous and 10 were imported from another country.
Of 96 cases reported, 45 were indigenous and 51 were imported from another country.

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending August 24, 2002, and August 25, 2001 (34th Week)*

| Reporting Area | Meningococcal Disease |  | Mumps |  | Pertussis |  | Rabies, Animal |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Cum. 2002 | Cum. <br> 2001 | Cum. 2002 | Cum. 2001 | Cum. 2002 | Cum. 2001 | Cum. 2002 | Cum. <br> 2001 |
| UNITED STATES | 1,175 | 1,667 | 180 | 164 | 4,550 | 3,310 | 3,798 | 4,634 |
| NEW ENGLAND | 71 | 77 | 7 | 1 | 385 | 296 | 559 | 465 |
| Maine | 7 | 1 | - | - | 5 | - | 31 | 46 |
| N.H. | 9 | 9 | 4 | - | 8 | 14 | 28 | 15 |
| Vt. | 4 | 5 | - | - | 80 | 25 | 74 | 43 |
| Mass. | 33 | 45 | 2 | 1 | 267 | 235 | 183 | 169 |
| R.I. | 5 | 2 | - | - | 10 | 5 | 43 | 43 |
| Conn. | 13 | 15 | 1 | - | 15 | 17 | 200 | 149 |
| MID. ATLANTIC | 115 | 179 | 17 | 20 | 198 | 236 | 718 | 826 |
| Upstate N.Y. | 35 | 50 | 2 | 3 | 144 | 112 | 452 | 519 |
| N.Y. City | 17 | 28 | 1 | 11 | 8 | 35 | 10 | 22 |
| N.J. | 22 | 30 | 1 | 2 | 3 | 13 | 105 | 132 |
| Pa . | 41 | 71 | 13 | 4 | 43 | 76 | 151 | 153 |
| E.N. CENTRAL | 160 | 249 | 18 | 20 | 562 | 487 | 82 | 87 |
| Ohio | 61 | 67 | 3 | 1 | 283 | 214 | 19 | 25 |
| Ind. | 25 | 29 | 2 | 1 | 57 | 46 | 21 | 1 |
| III. | 31 | 61 | 6 | 15 | 91 | 47 | 15 | 14 |
| Mich. | 31 | 55 | 6 | 2 | 37 | 41 | 27 | 35 |
| Wis. | 12 | 37 | 1 | 1 | 94 | 139 | - | 12 |
| W.N. CENTRAL | 98 | 104 | 13 | 7 | 422 | 156 | 260 | 241 |
| Minn. | 24 | 15 | 3 | 3 | 176 | 47 | 28 | 25 |
| Iowa | 12 | 21 | 1 | - | 121 | 16 | 43 | 51 |
| Mo. | 38 | 39 | 3 | - | 80 | 71 | 32 | 31 |
| N. Dak. | - | 5 | 1 | - | - | - | 11 | 24 |
| S. Dak. | 2 | 4 | - | - | 5 | 3 | 41 | 36 |
| Nebr. | 16 | 10 | - | 1 | 3 | 4 | - | 4 |
| Kans. | 6 | 10 | 5 | 3 | 37 | 15 | 105 | 70 |
| S. ATLANTIC | 209 | 260 | 21 | 24 | 265 | 159 | 1,629 | 1,589 |
| Del. | 6 | 3 | - | - | 2 | - | 24 | 29 |
| Md. | 6 | 34 | 4 | 4 | 41 | 23 | 168 | 316 |
| D.C. | - | - | - | - | 1 | 1 | - | - |
| Va. | 29 | 31 | 3 | 6 | 101 | 27 | 321 | 278 |
| W. Va. | 3 | 11 | - | - | 23 | 2 | 118 | 95 |
| N.C. | 24 | 57 | 1 | 1 | 27 | 48 | 465 | 390 |
| S.C. | 18 | 29 | 2 | 2 | 28 | 25 | 79 | 81 |
| Ga . | 29 | 36 | 4 | 8 | 17 | 17 | 284 | 273 |
| Fla. | 94 | 59 | 7 | 3 | 25 | 16 | 170 | 127 |
| E.S. CENTRAL | 68 | 108 | 12 | 5 | 146 | 83 | 116 | 164 |
| Ky. | 11 | 19 | 4 | 1 | 57 | 19 | 18 | 16 |
| Tenn. | 27 | 44 | 2 | - | 55 | 35 | 61 | 106 |
| Ala. | 18 | 30 | 3 | - | 27 | 25 | 37 | 41 |
| Miss. | 12 | 15 | 3 | 4 | 7 | 4 | - | 1 |
| W.S. CENTRAL | 139 | 253 | 16 | 9 | 1,194 | 308 | 76 | 808 |
| Ark. | 20 | 16 | - | - | 389 | 13 | - | - |
| La. | 23 | 62 | 1 | 2 | 4 | 5 | - | 7 |
| Okla. | 17 | 23 | - | - | 65 | 12 | 76 | 48 |
| Tex. | 79 | 152 | 15 | 7 | 736 | 278 | - | 753 |
| MOUNTAIN | 73 | 74 | 13 | 12 | 594 | 1,019 | 187 | 192 |
| Mont. | 2 | 3 | - | 1 | 4 | 20 | 10 | 31 |
| Idaho | 3 | 7 | 1 | 1 | 51 | 166 | 22 | 11 |
| Wyo. | - | 4 | - | 1 | 10 | 1 | 14 | 24 |
| Colo. | 23 | 29 | 2 | 3 | 228 | 214 | 35 | - |
| N. Mex. | 3 | 9 | 1 | 2 | 122 | 83 | 5 | 11 |
| Ariz. | 23 | 11 | 1 | 1 | 105 | 466 | 95 | 107 |
| Utah | 4 | 7 | 5 | 1 | 41 | 58 | 3 | 7 |
| Nev. | 15 | 4 | 3 | 2 | 33 | 11 | 3 | 1 |
| PACIFIC | 242 | 363 | 63 | 66 | 784 | 566 | 171 | 262 |
| Wash. | 50 | 52 | - | 1 | 311 | 97 | - | - |
| Oreg. | 34 | 45 | N | N | 127 | 38 | 3 | 1 |
| Calif. | 150 | 255 | 51 | 29 | 329 | 399 | 144 | 223 |
| Alaska | 2 | 2 | - | 1 | 4 | 3 | 24 | 38 |
| Hawaii | 6 | 9 | 12 | 35 | 13 | 29 | - | - |
| Guam | - | - | - | - | - | - | - | - |
| P.R. | 3 | 4 | - | - | 1 | - | 49 | 68 |
| V.I. | , | , | - | - | - | , | - | - |
| Amer. Samoa | U | U | U | U | U | U | U | U |
| C.N.M.I. | - | U | - | U | 1 | U | - | U |

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending August 24, 2002, and August 25, 2001 (34th Week)*

| Reporting Area |  |  | Rubella |  |  |  | Salmonellosis |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Rocky Mountain Spotted Fever |  | Rubella |  | Congenital Rubella |  |  |  |
|  | $\begin{aligned} & \hline \text { Cum. } \\ & 2002 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2001 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2002 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2001 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2002 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2001 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2002 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2001 \\ & \hline \end{aligned}$ |
| UNITED STATES | 577 | 349 | 9 | 16 | 2 | - | 22,304 | 23,797 |
| NEW ENGLAND | - | 3 | - | - | - | - | 1,289 | 1,614 |
| Maine | - | - | - | - | - | - | 91 | 135 |
| N.H. | - | 1 | - | - | - | - | 79 | 126 |
| V t. | - |  | - | - | - | - | 44 | 47 |
| Mass. | - | 2 | - | - | - | - | 711 | 940 |
| R.I. | - | - | - | - | - | - | 104 | 80 |
| Conn. | - | - | - | - | - | - | 260 | 286 |
| MID. ATLANTIC | 34 | 15 | 4 | 7 | - | - | 2,621 | 3,172 |
| Upstate N.Y. | 8 | - | 2 | 1 | - | - | 881 | 736 |
| N.Y. City | 7 | 1 | - | 5 | - | - | 761 | 800 |
| N.J. | 8 | 4 | 2 | 1 | - | - | 343 | 800 |
| Pa . | 11 | 10 | - | - | - | - | 636 | 836 |
| E.N. CENTRAL | 14 | 14 | - | 2 | - | - | 3,367 | 3,319 |
| Ohio | 10 | 1 | - | - | - | - | 869 | 888 |
| Ind. | 2 | 1 | - | - | - | - | 295 | 330 |
| III. | - | 12 | - | 2 | - | - | 1,070 | 968 |
| Mich. | 2 | - | - | - | - | - | 594 | 578 |
| Wis. | - | - | - | - | - | - | 539 | 555 |
| W.N. CENTRAL | 77 | 53 | - | 3 | - | - | 1,506 | 1,404 |
| Minn. | - |  | - | - | - | - | 359 | 410 |
| lowa | 1 | 2 | - | 1 | - | - | 248 | 209 |
| Mo. | 70 | 49 | - | 1 | - | - | 554 | 361 |
| N. Dak. | - | - | - | - | - | - | 25 | 37 |
| S. Dak. | - | 2 | - | - | - | - | 59 | 106 |
| Nebr. | 4 | - | - | - | - | - | 70 | 103 |
| Kans. | 2 | - | - | 1 | - | - | 191 | 178 |
| S. ATLANTIC | 297 | 161 | - | 3 | - | - | 5,871 | 5,357 |
| Del. | 2 | 1 | - |  | - | - | 44 | 57 |
| Md. | 38 | 32 | - | - | - | - | 595 | 511 |
| D.C. | - | - | - | - | - | - | 50 | 55 |
| Va . | 21 | 16 | - | - | - | - | 568 | 896 |
| W. Va. | 1 |  | - | - | - | - | 88 | 79 |
| N.C. | 168 | 85 | - | - | - | - | 796 | 744 |
| S.C. | 42 | 16 | - | 2 | - | - | 358 | 539 |
| Ga. | 18 | 8 | - |  | - | - | 1,071 | 997 |
| Fla. | 7 | 3 | - | 1 | - | - | 2,301 | 1,479 |
| E.S. CENTRAL | 56 | 71 | - | - | 1 | - | 1,625 | 1,433 |
| Ky. | 3 | 2 | - | - | - | - | 216 | 223 |
| Tenn. | 39 | 48 | - | - | 1 | - | 415 | 351 |
| Ala. | 14 | 11 | - | - | - | - | 470 | 392 |
| Miss. | - | 10 | - | - | - | - | 524 | 467 |
| W.S. CENTRAL | 82 | 23 | 2 | - | - | - | 1,635 | 2,869 |
| Ark. | 21 | 5 | 2 | - | - | - | , 536 | 2,839 |
| La. | - | 2 | - | - | - | - | 196 | 500 |
| Okla. | 61 | 16 | - | - | - | - | 268 | 260 |
| Tex. |  |  | 2 | - | - | - | 635 | 1,670 |
| MOUNTAIN | 12 | 9 | - | - | - | - | 1,316 |  |
| Mont. | 1 | 1 | - | - | - | - | , 64 | , 49 |
| Idaho | , | 1 | - | - | - | - | 89 | 92 |
| Wyo. | 3 | 2 | - | - | - | - | 39 | 48 |
| Colo. | 2 | 1 | - | - | - | - | 309 | 383 |
| N. Mex. | 1 | 1 | - | - | - | - | 175 | 167 |
| Ariz. | - | - | - | - | - | - | 385 | 393 |
| Utah | - | 3 | - | - | - | - | 124 | 143 |
| Nev. | 5 |  | - | - | - | - | 131 | 119 |
| PACIFIC | 5 | - | 3 | 1 | 1 | - | 3,074 | 3,235 |
| Wash. | - | - | - | - | - | - | 307 | 314 |
| Oreg. | 2 | - | - | - | - | - | 235 | 189 |
| Calif. | 3 | - | 3 | - | - | - | 2,305 | 2,473 |
| Alaska |  | - | - | 1 | 1 | - | 42 | 27 |
| Hawaii | - | - | - | 1 | 1 | - | 185 | 232 |
| Guam | - | - | - |  | - | - | - | 19 |
| P.R. | - | - | - | 3 | - | - | 120 | 627 |
| V.I. |  |  | - | - | , | - |  | - |
| Amer. Samoa | U | U | U | U | U | U | U | U |
| C.N.M.I. | - | U | - | U | - | U | 25 | U |

* Incidence data for reporting year 2001 and 2002 are provisional and cumulative (year-to-date).

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending August 24, 2002, and August 25, 2001 (34th Week)*

| Reporting Area | Shigellosis |  | Streptococcal Disease, Invasive, Group A |  | Streptococcus pneumoniae, Drug Resistant, Invasive |  | Streptococcus pneumoniae, Invasive (<5 Years) |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \hline \text { Cum. } \\ & 2002 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2001 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2002 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2001 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2002 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2001 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2002 \\ & \hline \end{aligned}$ | $\begin{aligned} & \text { Cum. } \\ & 2001 \\ & \hline \end{aligned}$ |
| UNITED STATES | 9,743 | 11,590 | 2,995 | 2,634 | 1,508 | 1,963 | 160 | 304 |
| NEW ENGLAND | 190 | 198 | 146 | 169 | 12 | 94 | 2 | 32 |
| Maine | 3 | 6 | 20 | 10 | - | - | - | - |
| N.H. | 8 | 4 | 27 | N | - | - | N | N |
| Vt. |  | 6 | 9 | 9 | 4 | 7 | 1 | - |
| Mass. | 120 | 136 | 76 | 54 | N | N | N | N |
| R.I. | 7 | 15 | 14 | 8 | 8 | 3 | 1 | 3 |
| Conn. | 52 | 31 | - | 88 | - | 84 | - | 29 |
| MID. ATLANTIC | 668 | 1,024 | 482 | 484 | 81 | 127 | 49 | 78 |
| Upstate N.Y. | 168 | 360 | 227 | 206 | 72 | 123 | 49 | 78 |
| N.Y. City | 239 | 279 | 122 | 139 | U | U | U | U |
| N.J. | 148 | 204 | 91 | 93 | N | N | N | N |
| Pa . | 113 | 181 | 42 | 46 | 9 | 4 | - | - |
| E.N. CENTRAL | 1,031 | 2,772 | 538 | 623 | 159 | 133 | 65 | 81 |
| Ohio | 425 | 1,818 | 169 | 159 | 29 | - | 1 | - |
| Ind. | 62 | 153 | 40 | 49 | 125 | 133 | 39 | 39 |
| III. | 340 | 385 | 105 | 204 | 2 | - | - | 42 |
| Mich. | 107 | 201 | 224 | 160 | 3 | - | N | N |
| Wis. | 97 | 215 | - | 51 | N | N | 25 | - |
| W.N.CENTRAL | 710 | 1,047 | 180 | 263 | 154 | 105 | 36 | 48 |
| Minn. | 149 | 310 | 95 | 112 | 48 | 49 | 36 | 40 |
| lowa | 75 | 309 | - | - | N | N | N | N |
| Mo. | 117 | 183 | 37 | 56 | 6 | 9 | - | - |
| N. Dak. | 15 | 16 | - | 11 | 1 | 5 | - | 8 |
| S. Dak. | 150 | 117 | 10 | 8 | 1 | 3 | - |  |
| Nebr. | 141 | 54 | 14 | 31 | 25 | 11 | N | N |
| Kans. | 63 | 58 | 24 | 45 | 73 | 28 | N | N |
| S. ATLANTIC | 3,774 | 1,547 | 594 | 445 | 933 | 1,057 | 3 | 4 |
| Del. | 37 | 7 | 2 | 2 | 3 | 3 | N | N |
| Md. | 725 | 93 | 95 | N | N | N | N | N |
| D.C. | 40 | 38 | 6 | 15 | 48 | 5 | 1 | 3 |
| Va. | 586 | 186 | 57 | 62 | N | N | N | N |
| W. Va. | 7 | 7 | 16 | 18 | 34 | 37 | 2 | 1 |
| N.C. | 216 | 244 | 102 | 118 | N | N | U | U |
| S.C. | 65 | 199 | 27 | 8 | 139 | 216 | N | N |
| Ga. | 1,016 | 200 | 134 | 144 | 256 | 301 | N | N |
| Fla. | 1,082 | 573 | 155 | 78 | 453 | 495 | N | N |
| E.S. CENTRAL | 842 | 997 | 73 | 80 | 103 | 193 | - | - |
| Ky. | 88 | 381 | 13 | 29 | 12 | 23 | N | N |
| Tenn. | 41 | 63 | 60 | 51 | 91 | 169 | N | N |
| Ala. | 450 | 171 | - | , | - | 1 | N | N |
| Miss. | 263 | 382 | - | - | - | - | - | - |
| W.S. CENTRAL | 740 | 1,867 | 101 | 237 | 37 | 220 | 3 | 61 |
| Ark. | 141 | 426 | 5 |  | 6 | 14 |  | - |
| La. | 100 | 169 | - | 1 | 31 | 206 | 1 | 61 |
| Okla. | 302 | 31 | 35 | 34 | N | N | 2 | , |
| Tex. | 197 | 1,241 | 61 | 202 | N | N | - | - |
| MOUNTAIN | 435 | 609 | 485 | 282 | 29 | 32 | 2 | - |
| Mont. | 3 | 2 | - | - | - | - | - | - |
| Idaho | 5 | 25 | 6 | 7 | N | N | N | N |
| Wyo. | 6 | 3 | 7 | 7 | 9 | 5 | - | - |
| Colo. | 85 | 151 | 160 | 120 | - | - | - | - |
| N. Mex. | 80 | 74 | 75 | 60 | 19 | 25 | - | - |
| Ariz. | 208 | 262 | 209 | 85 | - | - | N | N |
| Utah | 25 | 43 | 28 | 3 | 1 | - | 2 | - |
| Nev. | 23 | 49 | - | - | - | 2 | - | - |
| PACIFIC | 1,353 | 1,529 | 396 | 51 | - | 2 | - | - |
| Wash. | 101 | 131 | 65 | - | - | - | N | N |
| Oreg. | 66 | 76 | N | N | N | N | N | N |
| Calif. | 1,147 | 1,274 | 279 | - | N | N | N | N |
| Alaska | 3 | 4 | - | - | - | - | N | N |
| Hawaii | 36 | 44 | 52 | 51 | - | 2 | - | - |
| Guam | 5 | 33 | - | 1 | - | - | - | N |
| P.R. | 5 | 14 | N | N | - | - | N | N |
| V.I. |  |  | - | - | - | - | - |  |
| Amer. Samoa | U | U | U | U | - | - | U | U |
| C.N.M.I. | 17 | U | - | U | - | - | - | U |

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

* Incidence data for reporting year 2001 and 2002 are provisional and cumulative (year-to-date).

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending August 24, 2002, and August 25, 2001 (34th Week)*

| Reporting Area | Syphilis |  |  |  | Tuberculosis |  | Typhoid Fever |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Primary \& Secondary |  | Congenital |  |  |  |  |  |
|  | $\begin{aligned} & \hline \text { Cum. } \\ & 2002 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2001 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2002 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2001 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2002 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2001 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2002 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2001 \\ & \hline \end{aligned}$ |
| UNITED STATES | 3,936 | 3,809 | 203 | 335 | 7,407 | 8,793 | 158 | 220 |
| NEW ENGLAND | 87 | 34 | - | 3 | 244 | 308 | 11 | 11 |
| Maine | 2 | - | - | - | 10 | 12 | - | 1 |
| N.H. | 4 | 1 | - | - | 8 | 11 | - | 1 |
| V t. | 1 | 2 | - | - | - | 4 | - | - |
| Mass. | 60 | 17 | - | 2 | 136 | 159 | 8 | 8 |
| R.I. | 5 | 6 | - | - | 24 | 41 | - | - |
| Conn. | 15 | 8 | - | 1 | 66 | 81 | 3 | 1 |
| MID. ATLANTIC | 415 | 322 | 37 | 52 | 1,393 | 1,476 | 40 | 73 |
| Upstate N.Y. | 23 | 15 | 4 | 3 | 213 | 228 | 5 | 14 |
| N.Y. City | 259 | 178 | 15 | 27 | 706 | 740 | 20 | 28 |
| N.J. | 81 | 69 | 17 | 22 | 319 | 329 | 12 | 27 |
| Pa . | 52 | 60 | 1 | - | 155 | 179 | 3 | 4 |
| E.N. CENTRAL | 656 | 666 | 27 | 48 | 754 | 900 | 15 | 28 |
| Ohio | 94 | 58 | - | 2 | 120 | 173 | 5 | 3 |
| Ind. | 46 | 110 | - | 7 | 66 | 66 | 2 | 2 |
| III. | 169 | 211 | 20 | 31 | 377 | 431 | 1 | 15 |
| Mich. | 333 | 269 | 7 | 5 | 150 | 183 | 3 | 5 |
| Wis. | 14 | 18 | - | 3 | 41 | 47 | 4 | 3 |
| W.N. CENTRAL | 64 | 58 | - | 8 | 342 | 340 | 6 | 8 |
| Minn. | 28 | 25 | - | 2 | 146 | 143 | 3 | 4 |
| lowa | 2 | 4 | - | - | 17 | 18 | - | - |
| Mo. | 16 | 11 | - | 5 | 98 | 89 | 1 | 4 |
| N. Dak. | - | - | - | - | 1 | 3 | - | - |
| S. Dak. | - | - | - | - | 9 | 8 | - | - |
| Nebr. | 4 | 2 | - | - | 9 | 25 | 2 | - |
| Kans. | 14 | 16 | - | 1 | 62 | 54 | - | - |
| S. ATLANTIC | 1,057 | 1,332 | 48 | 80 | 1,503 | 1,655 | 27 | 27 |
| Del. | 9 | 10 |  | - | 13 | 9 | - |  |
| Md. | 130 | 171 | 8 | 3 | 175 | 141 | 5 | 8 |
| D.C. | 58 | 18 | 1 | 2 | - | 48 | - | - |
| Va . | 45 | 72 | 1 | 4 | 116 | 161 | 1 | 8 |
| W. Va. | 2 | - | - | - | 20 | 20 | - | - |
| N.C. | 195 | 304 | 16 | 8 | 211 | 212 | 1 | 2 |
| S.C. | 78 | 178 | 5 | 18 | 116 | 130 | - |  |
| Ga. | 211 | 238 | 5 | 18 | 269 | 276 | 8 | 6 |
| Fla. | 329 | 341 | 12 | 27 | 583 | 658 | 12 | 3 |
| E.S. CENTRAL | 339 | 408 | 13 | 24 | 465 | 531 | 4 | 1 |
| Ky. | 65 | 29 | 2 | - | 89 | 80 | 4 | - |
| Tenn. | 124 | 220 | 3 | 14 | 179 | 198 | - | 1 |
| Ala. | 116 | 82 | 6 | 4 | 132 | 168 | - | - |
| Miss. | 34 | 77 | 2 | 6 | 65 | 85 | - | - |
| W.S. CENTRAL | 569 | 463 | 45 | 58 | 1,009 | 1,365 | 4 | 13 |
| Ark. | 16 | 26 | 1 | 6 | 80 | 99 | - | - |
| La. | 98 | 95 | - | - | - | 85 | - | - |
| Okla. | 43 | 44 | 2 | 5 | 84 | 97 | - | - |
| Tex. | 412 | 298 | 42 | 47 | 845 | 1,084 | 4 | 13 |
| MOUNTAIN | 183 | 142 | 11 | 20 | 218 | 345 | 10 | 7 |
| Mont. | - | - | - | - | 6 | 6 | - | 1 |
| Idaho | 1 | - | 1 | - | 8 | 7 | - | - |
| Wyo. | , | - | , | - | 2 | 3 | - | - |
| Colo. | 27 | 17 | 1 | 1 | 31 | 82 | 5 | - |
| N. Mex. | 21 | 11 |  | 2 | 21 | 43 | - | , |
| Ariz. | 124 | 104 | 9 | 17 | 119 | 127 |  | 1 |
| Utah | 5 | 7 |  |  | 18 | 21 | 3 | 1 |
| Nev . | 5 | 3 | - | - | 13 | 56 | 2 | 4 |
| PACIFIC |  | 384 | 22 | 42 | 1,479 | 1,873 | 41 | 52 |
| Wash. | 36 | 36 | 1 | - | 155 | 167 | 4 | 3 |
| Oreg. | 11 | 10 | 1 | - | 68 | 71 | 2 | 3 |
| Calif. | 512 | 328 | 19 | 42 | 1,128 | 1,511 | 34 | 43 |
| Alaska |  | - |  | - | 33 | 31 | - | 1 |
| Hawaii | 7 | 10 | 1 | - | 95 | 93 | 1 | 2 |
| Guam | - | 2 | ${ }^{-}$ | 1 | - | 46 | - | 2 |
| P.R. | 139 | 175 | 10 | 7 | 33 | 95 | - | - |
| V.I. | 1 | - | - | - | - | - | - | - |
| Amer. Samoa | U | U | U | U | U | U | U | U |
| C.N.M.I. | 15 | U | - | U | 29 | U | - | U |

N : Not notifiable.
U: Unavailable.

- : No reported cases.
* Incidence data for reporting year 2001 and 2002 are provisional and cumulative (year-to-date).

TABLE III. Deaths in 122 U.S. cities,* week ending August 24, 2002 (34th Week)

|  | All Causes, By Age (Years) |  |  |  |  |  |  |  | All Causes, By Age (Years) |  |  |  |  |  | P\& ${ }^{\dagger}$ <br> Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Reporting Area | All Ages | $\geq 65$ | 45-64 | 25-44 | 1-24 | <1 | P\& ${ }^{\dagger}$ <br> Total | Reporting Area | All Ages | $\geq 65$ | 45-64 | 25-44 | 1-24 | $<1$ |  |
| NEW ENGLAND | 487 | 327 | 107 | 39 | 6 | 7 | 53 | S. ATLANTIC | 874 | 537 | 192 | 88 | 26 | 31 | 58 |
| Boston, Mass. | 138 | 86 | 34 | 11 | 2 | 4 | 16 | Atlanta, Ga. | U | U | U | U | U | U | U |
| Bridgeport, Conn. | 23 | 15 | 5 | 3 | - | - | - | Baltimore, Md. | 146 | 85 | 40 | 17 | 2 | 2 | 14 |
| Cambridge, Mass. | 18 | 12 | 5 | 1 | - | - | 3 | Charlotte, N.C. | 106 | 61 | 20 | 14 | 8 | 3 | 11 |
| Fall River, Mass. | 17 | 12 | 3 | 1 | 1 | - | 2 | Jacksonville, Fla. | U | U | U | U | U | U | U |
| Hartford, Conn. | U | U | U | U | U | U | U | Miami, Fla. | 136 | 88 | 30 | 12 | 5 | 1 | 10 |
| Lowell, Mass. | 22 | 18 | 4 | - | - | - | 2 | Norfolk, Va. | 55 | 30 | 15 | 3 | 4 | 3 | 1 |
| Lynn, Mass. | 11 | 7 | 3 | 1 | - | - | - | Richmond, Va. | 63 | 40 | 17 | 3 | - | 3 | 2 |
| New Bedford, Mass. | 29 | 20 | 8 | 1 | - | - | 3 | Savannah, Ga. | 47 | 31 | 11 | 3 | 1 | 1 | 3 |
| New Haven, Conn. | 35 | 24 | 6 | 3 | 2 | - | 7 | St. Petersburg, Fla. | 54 | 34 | 17 | 2 | 1 | - | 1 |
| Providence, R.I. | 67 | 46 | 15 | 4 | - | 2 | 5 | Tampa, Fla. | 156 | 111 | 22 | 17 | - | 6 | 11 |
| Somerville, Mass. | 2 | 2 | - | - | - | - | - | Washington, D.C. | 111 | 57 | 20 | 17 | 5 | 12 | 5 |
| Springfield, Mass. | 47 | 33 | 9 | 4 | 1 | - | 8 | Wilmington, Del. | U | U | U | U | U | U | U |
| Waterbury, Conn. | 20 | 14 | 4 | 2 | - | - | 7 | E.S. CENTRAL | 707 | 451 | 169 | 51 | 21 | 15 | 41 |
| Worcester, Mass. | 58 | 38 | 11 | 8 | - | 1 | 7 | Birmingham, Ala. | 192 | 129 | 37 | 12 | 10 | 4 | 18 |
| MID. ATLANTIC | 1,937 | 1,310 | 405 | 159 | 31 | 32 | 115 | Chattanooga, Tenn. | 66 | 42 | 19 | 2 | - | 3 | 2 |
| Albany, N.Y. | 54 | 27 | 15 | 8 | 2 | 2 | 3 | Knoxville, Tenn. | 97 | 59 | 26 | 8 | 2 | 2 | 7 |
| Allentown, Pa. | 19 | 16 | 1 | 2 | - | - | 1 | Lexington, Ky. | 61 | 33 | 15 | 11 | 1 | 1 | 5 |
| Buffalo, N.Y. | 113 | 77 | 21 | 9 | - | 6 | 11 | Memphis, Tenn. | U | U | U | U | U | U | U |
| Camden, N.J. | U | U | U | U | U | U | U | Mobile, Ala. | 112 | 76 | 22 | 8 | 5 | 1 | 2 |
| Elizabeth, N.J. | 20 | 14 | 6 | - | - | - | - | Montgomery, Ala. | 48 | 33 | 12 | 3 | - | - | 2 |
| Erie, Pa. | 44 | 37 | 3 | 3 | 1 | - | 1 | Nashville, Tenn. | 131 | 79 | 38 | 7 | 3 | 4 | 5 |
| Jersey City, N.J. | 31 | 21 | 7 | 2 | 1 | 9 | 49 | W.S. CENTRAL | 1,426 | 864 | 322 | 125 | 59 | 43 | 94 |
| New York City, N.Y. | 1,048 | 703 | 218 | 100 | 18 | 9 | 49 | Austin, Tex. | + 80 | 47 | 19 | 10 | 2 | 2 | 7 |
| Newark, N.J. | 51 | 21 | 20 | 7 | 1 | 2 | 7 | Baton Rouge, La. | 73 | 42 | 25 | 2 | 4 | - | - |
| Paterson, N.J. | 19 | 16 | 1 | 1 | 1 | - | 2 | Corpus Christi, Tex. | 59 | 42 | 13 | - | 2 | 2 | 3 |
| Philadelphia, Pa. | 137 | 77 | 39 | 13 | 4 | 4 | 6 | Dallas, Tex. | 213 | 121 | 52 | 22 | 6 | 12 | 16 |
| Pittsburgh, Pa. ${ }^{\text {® }}$ | 33 | 21 | 8 | 2 | - | 2 | 1 | El Paso, Tex. | $\begin{array}{r}83 \\ \hline\end{array}$ | 61 | 5 | 1 | 1 | 1 | 16 5 |
| Reading, Pa. | 23 | 20 | 3 | - | - | - | 5 | Ft. Worth, Tex. | 103 | 62 | 25 | 3 | 3 | 10 | 7 |
| Rochester, N.Y. | 147 | 114 | 25 | 5 | 1 | 2 | 12 | Houston, Tex. | 316 | 170 | 81 | 41 | 13 | 11 | 21 |
| Schenectady, N.Y. | U | U | U | U | U | U | U | Little Rock, Ark. | 54 | 31 | 13 | 8 | 2 | 1 | 4 |
| Scranton, Pa. | 36 | 28 | 6 | 2 | - | - | 2 | New Orleans, La. | 51 | 22 | 7 | 11 | 11 | - | - |
| Syracuse, N.Y. | 83 | 62 | 12 | 4 | 2 | 3 | 7 | San Antonio, Tex. | 226 | 147 | 51 | 15 | 9 | 4 | 11 |
| Trenton, N.J. | 39 | 26 | 10 | 1 | - | 2 | 1 | Shreveport, La. | 39 | 29 | 7 | 2 | 1 | - | 4 |
| Utica, N.Y. | 12 | 7 | 5 | - | - | - | 1 | Tulsa, Okla. | 129 | 90 | 23 | 10 | 5 | 1 | 16 |
| Yonkers, N.Y. | 28 | 23 | 5 | - | - | - | 6 | Tulsa, Okla. | 129 | 90 | 23 | 10 | 5 | 1 | 16 |
| E.N. CENTRAL | 1,659 | 1,104 | 348 | 130 | 44 | 30 | 104 | MOUNTAIN | 815 | 553 | 162 | 61 | 26 | 13 | 39 |
| Akron, Ohio | 43 | 25 | 5 | 6 | 2 | 2 | 5 | Albuquerque, N.M. | 127 | 73 | 26 | 19 | 6 | 3 | 5 |
| Canton, Ohio | 32 | 22 | 8 | 2 | - | - | 6 | Boise, Idaho | 30 | 25 | 4 | 1 | - | - | 1 |
| Chicago, III. | U | U | U | U | U | U | U | Colo. Springs, Colo. | 50 97 | 37 | 8 | 3 | 1 | 1 | 4 |
| Cincinnati, Ohio | 58 | 41 | 9 | 4 | 1 | 3 | 8 | Denver, Colo. | 97 | 62 144 | 18 | 9 11 | 4 | 4 | 6 |
| Cleveland, Ohio | 109 | 55 | 34 | 7 | 7 | 6 | 5 | Las Vegas, Nev. | 221 30 | 144 22 | 58 | 11 | 7 | 1 | 10 |
| Columbus, Ohio | 175 | 119 | 36 | 17 | 2 | 1 | 14 | Ogden, Utah Phoenix, Ariz. | 30 $\cup$ | 22 $U$ | U | U | U | U | 1 |
| Dayton, Ohio | 167 | 110 | 35 | 18 | 1 | 3 | 12 | Phoenix, Ariz. | 27 | 22 | 4 | 1 | U | U | 3 |
| Detroit, Mich. | 190 | 108 | 51 | 19 | 10 | 2 | 10 |  |  |  |  | 8 | 3 | 3 | 5 |
| Evansville, Ind. | 41 | 32 | 6 | 2 | - | 1 | 4 | Salt Lake City, Utah Tucson, Ariz | 94 139 | 65 103 | 15 24 | 8 | 3 5 | 3 | 4 |
| Fort Wayne, Ind. | 62 | 47 | 8 | 5 | 2 | - | 3 | Tucson, Ariz. | 139 | 103 | 24 | 7 | 5 | - | 4 |
| Gary, Ind. | 23 | 9 | 9 | 4 | - | 1 | 1 | PACIFIC | 1,614 | 1,107 | 337 | 101 | 30 | 39 | 110 |
| Grand Rapids, Mich. | 59 | 41 | 9 | 5 | 2 | 2 | 3 | Berkeley, Calif. | 18 | 15 | 2 | - | - | 1 | 3 |
| Indianapolis, Ind. | 211 | 130 | 48 | 19 | 8 | 6 | 8 | Fresno, Calif. | 109 | 75 | 23 | 6 | 3 | 2 | 6 |
| Lansing, Mich. | 53 | 40 | 7 | 5 | - | 1 | 4 | Glendale, Calif. | 15 | 13 | 1 | - | 1 | - | - |
| Milwaukee, Wis. | 119 | 84 | 26 | 5 | 3 | 1 | 5 | Honolulu, Hawaii | 68 | 53 | 9 | 3 | 2 | 1 | 5 |
| Peoria, III. | 59 | 42 | 12 | 5 | - | - | 3 | Long Beach, Calif. | 66 | 42 | 10 | 9 | 4 | 1 | 9 |
| Rockford, III. | 63 | 49 | 11 | 2 | 1 | - | 6 | Los Angeles, Calif. | 362 | 251 | 79 | 16 | 7 | 9 | - |
| South Bend, Ind. | 43 | 34 | 7 | 1 | 1 | - | 1 | Pasadena, Calif. | 19 | 12 | 2 | 2 | 1 | 2 | 3 |
| Toledo, Ohio | 96 | 70 | 21 | 3 | 2 | - | 6 | Portland, Oreg. | 148 | 92 | 31 | 19 | 1 | 5 | 9 |
| Youngstown, Ohio | 56 | 46 | 6 | 1 | 2 | 1 | - | Sacramento, Calif. | 190 | 137 | 35 | 13 | 3 | 2 | 15 |
| W.N. CENTRAL | 504 | 332 | 115 | 27 | 14 | 16 | 38 | San Diego, Calif. | 155 | 102 | 38 | 7 | 5 | 3 | 9 |
| Des Moines, Iowa | 31 | 21 | 9 | 1 | 1 | , | 6 | San Francisco, Calif. | U | U | U | U | U | U | U |
| Duluth, Minn. | 38 | 28 | 10 | - | - | - | 4 | San Jose, Calif. | 181 | 121 | 43 | 11 | 1 | 6 | 28 |
| Kansas City, Kans. | 28 | 20 | 4 | 2 | 1 | 1 | 1 | Santa Cruz, Calif. Seattle, Wash. | 25 | 18 | 4 29 | 2 7 | 1 | 1 | 3 |
| Kansas City, Mo. | 105 | 73 | 19 | 4 | 2 | 7 | 4 | Seattle, Wash. Spokane, Wash. | 101 64 | 62 52 | 29 9 | 1 | 2 | 1 2 | 8 |
| Lincoln, Nebr. | 43 | 34 | 9 | 1 |  | 1 | 2 | Spokane, Wash. | 64 93 | 52 62 | 22 | 5 | - | 4 | 8 |
| Minneapolis, Minn. | 41 | 27 | 10 | 1 | 2 | 1 | 3 | Tacoma, Wash. | 93 | 62 | 22 | 5 | - | 4 | 8 |
| Omaha, Nebr. | 82 | 46 | 23 | 6 | 5 | 2 | 7 | TOTAL | 10,023" | 6,585 | 2,157 | 781 | 257 | 226 | 652 |
| St. Louis, Mo. | U | U | U | U | U | U | U |  |  |  |  |  |  |  |  |
| St. Paul, Minn. | 54 | 41 | 6 | 4 | 2 | 1 | 2 |  |  |  |  |  |  |  |  |
| Wichita, Kans. | 82 | 42 | 25 | 9 | 2 | 4 | 9 |  |  |  |  |  |  |  |  |

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[^0]:    *Epidemiologically linked to another laboratory-confirmed measles case.

[^1]:    ${ }^{\dagger}$ The lowercase letter is used for newly identified measles genotypes, pending an update of measles genotypes in the World Health Organization Weekly Epidemiological Record.

[^2]:    * Nationwide mass campaigns over a short period (days to weeks) in which 2 doses of OPV are administered to all children (usually aged $<5$ years), regardless of vaccination history, with an interval of 4-6 weeks between doses.
    ${ }^{\dagger}$ Same procedure as NIDs but in a smaller area.

[^3]:    *As of June 30, 2002.
    ${ }_{\$}^{\dagger}$ Number of persons with AFP per 100,000 population aged < 15 years; minimum expected rate is one case of nonpolio AFP per 100,000 per year.
    ${ }^{\S}$ Two stool specimens collected at an interval of $\geq 24$ hours within 14 days of paralysis onset and shipped properly to the laboratory.

[^4]:    ${ }^{\text {§ }}$ Polio eradication efforts in Angola are supported by the governments of Angola, the United Kingdom, and the Netherlands; the Bill and Melinda Gates Foundation, the United Nations Foundation; Aventis Pasteur, DeBeers; the United Nations Children's Fund (UNICEF); Rotary International; the U.S. Agency for International Development, the Canadian International Development Agency; WHO; and CDC.

[^5]:    -:No reported cases.

    * Incidence data for reporting year 2001 and 2002 are provisional and cumulative (year-to-date).
    ${ }^{\dagger}$ Not notifiable in all states.
    § Updated monthly from reports to the Division of HIV/AIDS Prevention - Surveillance and Epidemiology, National Center for HIV, STD, and TB Prevention (NCHSTP). Last update July 28, 2002.

[^6]:    U: Unavailable. $\quad-:$ No reported cases
     occurrence and by the week that the death certificate was filed. Fetal deaths are not included.

    + Pneumonia and influenza.
    
    ๆ Total includes unknown ages.

