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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 state-wide vaccination campaign for children aged 1–14 years.

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



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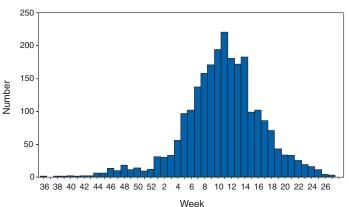
Robert F. Fagan Deborah A. Adams Felicia J. Connor Lateka Dammond Patsy A. Hall Pearl C. Sharp In January 2002, a second outbreak of measles was introduced into Falcón from Zulia by a girl aged 7 months who had visited a tourist site in Falcón and who had received medical care at a local hospital. She 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

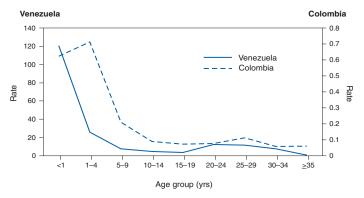
FIGURE 2. Reported number of measles cases*, by week of rash onset — Venezuela, August 2001–July 2002



^{*} n=2,416.

^{*} Epidemiologically linked to another laboratory-confirmed measles case.

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 d9[†] (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

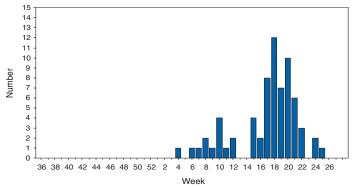
Colombia shares a border with Venezuela, with which it has substantial commerce and migration in Zulia. In 1996, measles vaccination coverage for children in Colombia was 94%. In 2000, measles coverage for children aged 1 year declined to 80%. Coverage for children aged 1 year increased to 91% during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

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



^{*} n=68

[†]The lowercase letter is used for newly identified measles genotypes, pending an update of measles genotypes in the World Health Organization Weekly Epidemiological Record.

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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.

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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 § 317b. 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

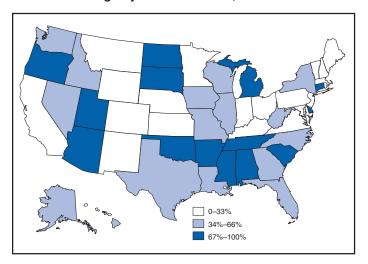


TABLE. Number and percentage of 51 grantee immunization registries that implemented key elements of the 12 functional standards, by standard — United States, December 2001

	meeti	stries ng all ements	Regis meetii key ele	ng <u>≥</u> 2
Functional standard	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 informa- tion 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 complete- ness 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 population-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.

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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% (*I*). 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 rounds have been held since 1999. Although access to children in conflict areas was limited as a result of the war, Angolan Ministry of Health (MoH) reports indicate that access improved during 1999-2001; 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[†] (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.

^{*}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.

[†] Same procedure as NIDs but in a smaller area.

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 ≥ 1 case per 100,000 children aged <15 years per year) and completeness of specimen collection (target: two adequate stool specimens from ≥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: ≥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.

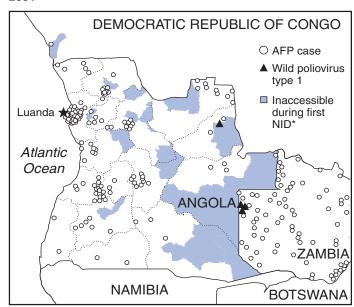
In 2001, Angola shifted from a clinical to a virological AFP case classification system (i.e., only AFP cases with wild poliovirus isolates are classified as confirmed polio); AFP cases in which paralytic polio cannot be ruled out reliably are classified as polio-compatible. In 2001, a total of 10 AFP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

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 2001–February 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.

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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*

Year	No. AFP cases	No. confirmed poliovirus cases (laboratory confirmed)	Polio-compatible cases	Nonpolio AFP rate [†]	% of persons with AFP with adequate stool specimen [§]
1998	16	7 (3)	_	0.1	56%
1999	1,176	1,103 (53)	_	1.2	7%
2000	213	115 (55)	_	1.6	55%
2001	149	1 (1)	10	2.0	66%
2002	100	0	0	3.4	89%

^{*} As of June 30, 2002.

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.

You stool specimens collected at an interval of ≥24 hours within 14 days of paralysis onset and shipped properly to the laboratory.

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 WHO-recommended 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 has been critical in sustaining eradication "activities in Angola and will continue to be essential.

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West Nile Virus Activity — United States, August 21–28, 2002, and Illinois, January 1– August 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 (n=55), Mississippi (n=36), Louisiana (n=24), Ohio (n=22), Missouri (n=16), Michigan (n=15), Texas (n=13), Georgia (n=six), New York (n=four), Alabama (n=three), South Dakota (n=three), Indiana (n=two), Kentucky (n=two), Oklahoma (n=two), Tennessee (n=two), Wisconsin (n=two), Maryland (n=one), Nebraska (n=one), and Virginia (n=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 (n=171), Mississippi (n=91), Illinois (n=71), Texas (n=38), Missouri (n=25), Ohio (n=24), Michigan (n=15), Alabama (n=eight), Georgia (n=six), Indiana (n=six), New York (n=five), Tennessee (n=four), Kentucky (n=three), South Dakota (n=three), Oklahoma (n=two), Wisconsin (n=two), the District of Columbia (n=one), Florida (n=one), Maryland (n=one), Massachusetts (n=one), Nebraska (n=one), and

S 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.

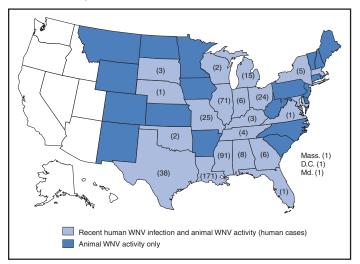
Virginia (n=one) (Figure 1). Among the patients with available data, the median age was 51 years (range: 9 months-98 years), 237 (54%) were male, and the dates of illness onset ranged from June 10 to August 25. In addition, 2,590 dead crows and 1,872 other dead birds with WNV infection were reported 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.

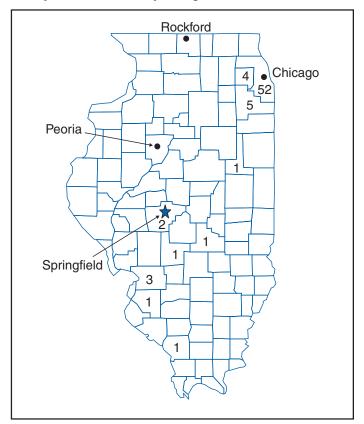
The 71 patients had a median age of 49 years (range: 2–92 years); 47% were male. The median age for 32 patients with either aseptic meningitis or encephalitis and a known age was 51 years (range: 18–92 years). Patients who died ranged in age from 67 to 92 years.

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



* 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 1–August 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

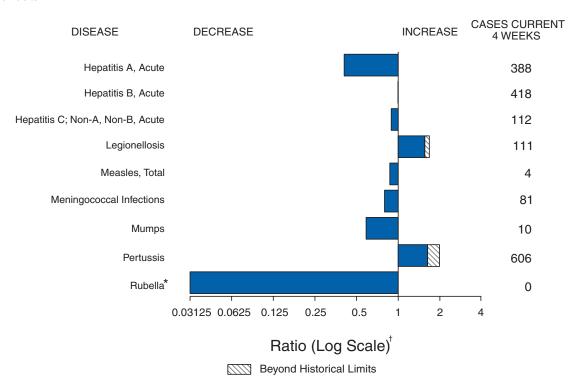


TABLE I. Summary of provisional cases of selected notifiable diseases, United States, cumulative, week ending August 24, 2002 (34th Week)*

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

^{-:} No reported cases.

^{*} No rubella cases were reported for the current 4-week period yielding a ratio for week 34 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 year 2001 and 2002 are provisional and cumulative (year-to-date).

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.

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

								Escheric	chia coli	
	AII	ns	Chlar	nydia [†]	Cryptos	poridiosis	0157	7·H7	Shiga Toxi	n Positive, non-O157
Departing Area	Cum. 2002§	Cum. 2001	Cum. 2002	Cum. 2001	Cum. 2002	Cum. 2001	Cum. 2002	Cum. 2001	Cum. 2002	Cum.
Reporting Area UNITED STATES	24,713	25,177	479,669	497,826	1,417	2,112	1,680	1,737	79	2001 85
NEW ENGLAND	1,011	910	17,009	15,378	95	89	159	1,737	22	29
Maine	23	26	1,000	832	6	10	26	19	2	-
N.H. Vt.	20 8	23 11	1,032 567	896 389	19 19	4 25	18 5	22 10	-	3 1
Mass.	519	532	7,046	6,580	29	38	69	82	8	9
R.I. Conn.	71 370	61 257	1,789 5,575	1,860 4,821	13 9	3 9	5 36	9 25	- 12	16
MID. ATLANTIC	5,619	6,570	52.767	53,414	169	197	126	127	-	-
Jpstate N.Y.	404	977	10,475	8,663	58	59	104	74	-	-
N.Y. City N.J.	3,210 925	3,484 1,129	17,942 5,696	19,739 8,503	72 8	82 10	7 15	13 40	-	-
Pa.	1,080	980	18,654	16,509	31	46	Ň	N	-	-
E.N. CENTRAL	2,494	1,705	81,760	91,588	350	1,027	382	450	8	6
Ohio nd.	453 347	302 197	20,165 10,335	23,627 9,976	82 27	100 47	78 34	89 56	6	4
II.	1,170	779	20,318	27,880	48	424	100	120	-	-
Mich. Wis.	398 126	325 102	20,888	19,591	67 126	103	75 95	57 128	2	2
W.N. CENTRAL	421	544	10,054 26,708	10,514 25,157	173	353 205	95 261	244	- 11	- 17
Minn.	90	92	6,102	5,139	86	92	95	96	9	15
owa Vo.	54 189	54 263	2,765 9,660	2,946 9,104	16 22	49 29	56 41	41 34	- N	- N
vio. N. Dak.	1 1	263 2	9,660	9,104	6	29 7	3	9	- IN	-
S. Dak.	3	18	1,396	1,156	7	6	27	15	1	1
Nebr. Kans.	43 41	51 64	1,857 4,321	2,172 3,972	26 10	21 1	16 23	34 15	1 -	1 -
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	-	-
Лd. D.C.	1,066 371	1,067 512	9,912 2,171	9,718 2,074	15 4	28 9	14	10	-	-
/a.	538	639	9,894	12,401	7	15	32	38	2	2
W.Va. N.C.	58 555	50 495	1,542 15,955	1,538 14,386	2 25	1 19	3 25	4 29	-	-
S.C.	547	462	7,969	10,189	4	5	2	12	-	-
Ga. Fla.	1,160 3,111	852 3,431	17,676 25,221	20,457 23,734	100 60	96 53	46 31	23 19	10 10	8 7
E.S. CENTRAL	1,128	1,179	31,926	32,316	90	30	66	92	-	-
<у.	173	220	5,607	5,795	3	3	19	49	-	-
Tenn. Ala.	483 197	361 308	10,382 9,162	9,807 8,751	46 37	7 11	26 14	25 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. ₋a.	163 693	141 548	4,277 12,663	4,866 11,750	7 4	5 7	5 1	7 6	-	-
Okla.	133	153	7,197	6,919	8	7	15	19	-	-
Гех.	1,707	1,880	45,619	46,326	5	50	18	105	-	-
MOUNTAIN Mont.	790 8	910 13	30,297 1,387	29,498 1,288	106 4	95 7	193 13	164 10	11	10
daho	18	17	1,599	1,198	19	9	27	25	4	2
Nyo.	6	2	575	536	7	2	6	5	1	-
Colo. I. Mex.	157 53	211 87	9,048 3,990	8,527 4,032	40 15	25 17	56 4	65 9	2 3	5 3
Ariz.	327	337	9,664	9,399	12	6	23	19	1	-
Jtah Nev.	43 178	81 162	1,637 2,397	1,242 3,276	6 3	24 5	46 18	22 9	-	-
PACIFIC	3,017	2,987	77,425	84,246	191	172	297	218	5	6
Vash.	302	325	9,258	8,826	37	U	89	54	-	-
Oreg. Calif.	216 2,416	119 2,491	4,400 58,724	4,760 66,369	26 127	24 144	60 112	31 120	5	6
Alaska	17	14	2,294	1,754	-	1	5	3	-	-
Hawaii	66	38	2,749	2,537	1	3	31	10	-	-
Guam P.R.	2 668	9 732	1,635	267 1,687	-	-	N -	N 1	-	-
/.I. Amer. Samoa	66	2	98	115	-	-		-	-	-
	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 year 2001 and 2002 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 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)*

(34th Week)*								s influenzae, sive	
	Shiga To	erichia coli xin Positive,	Giardiasis	Cono	rrhea		Ages,	Age <5 Seroi	ype
	Cum.	rogrouped Cum.	Cum.	Cum.	Cum.	Cum.	crotypes Cum.	Cum.	Cum.
Reporting Area	2002	2001	2002	2002	2001	2002	2001	2002	2001
UNITED STATES	31	7	9,449	202,942	229,058	1,054	1,019	17	17
NEW ENGLAND Maine	-	1 -	1,005 116	4,741 78	4,238 93	74 1	77 1	-	1 -
N.H.	-	-	29	77	107	6	4	-	-
Vt. Mass.	-	1	82 497	69 2,124	47 2,008	5 37	3 36	-	1
R.I.	-	-	92	556	477	10	3	-	-
Conn.	-	-	189	1,837	1,506	15	30	-	-
MID. ATLANTIC	-	-	1,966 680	24,166 5,289	26,287 5,382	183 81	144 47	3 2	3
Upstate N.Y. N.Y. City	-	-	758	5,289 7,287	5,362 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 Ohio	11 10	2 2	1,737 541	39,091 11,017	47,748 12,920	167 63	189 51	2	2 1
Ind.	-	-	04 I -	11,017 4,477	12,920 4,240	33	36	1	-
III.	-	-	397	10,894	15,330	56	66	-	-
Mich. Wis.	1 -	-	511 288	9,074 3,629	11,441 3,817	8 7	12 24	1	1
W.N. CENTRAL	_	2	1,066	10,532	10,708	43	47	1	1
Minn.	-	-	381	1,806	1,638	30	25	i	-
lowa	- N.I.	- N	160	619	830	1	-	-	-
Mo. N. Dak.	N -	N 2	298 11	5,466 31	5,511 23	9	16 4	-	-
S. Dak.	-	-	45	165	183	-	-	-	-
Nebr. Kans.	-	-	74 97	652 1,793	773 1,750	3	1 1	-	1
	-	-					•	-	-
S. ATLANTIC Del.	-	-	1,774 29	52,875 1,018	59,512 1,078	273	250 -	4 -	1 -
Md.	-	-	69	5,474	5,667	63	63	2	-
D.C. Va.	-	-	29 142	1,797 5,617	1,859 7,366	22	- 19	-	-
W. Va.	-	-	31	628	409	12	10	-	1
N.C. S.C.	-	-	- 56	10,606 4,804	11,089 7,395	24 9	37 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. Tenn.	7	1	- 97	2,318 5,978	2,278 6,536	4 23	2 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. La.	-	-	89 2	2,439 7,795	3,052 8,209	1 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. Idaho	-	-	57 70	60 58	78 53	2	1	-	-
Wyo.	-	-	21	39	43	1	1	-	-
Colo. N. Mex.	13	1	306 108	2,201 821	2,083 635	26 19	31 16	-	- 1
Ariz.	-	-	124	2,371	2,589	63	43	1	i
Utah	-	-	172	159	107	15	5	-	-
Nev.	-	-	79	729	1,173	6	11	1	2
PACIFIC Wash.	- -	-	616 231	15,951 1,801	18,440 1,968	95 2	106 2	2 1	4
Oreg.	-	-	259	549	748	46	31	-	-
Calif. Alaska	-	-	- 59	12,813 380	15,056 255	19 1	47 5	1	4
Hawaii	-	-	67	408	255 413	27	21	-	-
Guam	-	-	-	_	31	-	-	-	_
P.R.	-	-	11	243	390	1	1	-	-
17.1		_	_	25	19	-	_	_	-
V.I. Amer. Samoa	Ū	Ū	U	Ü	Ü	U	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)*

Cum. Cum.		5,430 207 7 11 91 29 68 631 126 256 86 163 724 234 234 33 192 160 105 228 32 58 65 1 3 11 58 1,696 9 197 56	A Cum. 2001 6,131 372 6 11 8 163 19 165 806 169 285 198 154 762 155 59 273 224 51 250 20 25 53 2 1 29 120 1,212 7 160	4,357 142 6 12 3 82 21 18 872 89 453 180 150 537 74 365 - 138 13 12 78 4 - 18 13 1,167 7 87	B Cum. 2001 4,613 87 5 10 5 16 17 34 895 79 418 195 203 614 76 31 93 388 26 135 12 15 77 1 19 11 872 20	C; Non-A Cum. 2002 4,083 20 12 8 - 1,058 39 - 997 22 68 6 - 9 53 - 606 13 1 580 - 8 4 118 5	, Non-B Cum. 2001 2,685 30 - 6 24 838 19 - 774 45 121 8 1 9 103 - 800 7 - 784 - 4 5 46
Non-Serotype B	Cum. Cum. Cum. 2001 15 22 - - - -	5,430 207 7 11 91 29 68 631 126 256 86 163 724 234 234 33 192 160 105 228 32 58 65 1 3 11 58 1,696 9 197 56	A Cum. 2001 6,131 372 6 11 8 163 19 165 806 169 285 198 154 762 155 59 273 224 51 250 20 25 53 2 1 29 120 1,212 7 160	Cum. 2002 4,357 142 6 12 3 82 21 18 872 89 453 180 150 537 74 31 67 365 - 138 13 12 78 4 - 18 13 1,167 7	B Cum. 2001 4,613 87 5 10 5 16 17 34 895 79 418 195 203 614 76 31 93 388 26 135 12 15 77 1 19 11 872 20	C; Non-A Cum. 2002 4,083 20 12 8 1,058 39 - 997 22 68 6 - 9 53 - 606 13 1 580 - 8 4 118	Cum. 2001 2,685 30 - 6 24 - 838 19 - 774 45 121 8 1 9 103 - 800 7 - 784 4 5
Cum. Cum. Cum. Cum. Cum. 2002 2001	cum. Cum. 2002 2001 15 22 - - -	5,430 207 7 11 91 29 68 631 126 256 86 163 724 234 234 33 192 160 105 228 32 58 65 1 3 11 58 1,696 9 197 56	Cum. 2001 6,131 372 6 11 8 163 19 165 806 169 285 198 154 762 155 59 273 224 51 250 20 25 53 2 1 29 120 1,212 7 160	4,357 142 6 12 3 82 21 18 872 89 453 180 150 537 74 31 67 365 - 138 13 12 78 4 - 18 13 1,167 7	2001 4,613 87 5 10 5 16 17 34 895 79 418 195 203 614 76 31 93 388 26 135 12 15 77 1 19 11 872 20	Cum. 2002 4,083 20 - 12 8 - 1,058 39 - 997 22 68 6 - 9 53 - 606 13 1 580 8 4	Cum. 2001 2,685 30 - 6 24 - 838 19 - 774 45 121 8 1 9 103 - 800 7 - 784 4 5
UNITED STATES 167 171 NEW ENGLAND 7 13 Maine N.H 1 Vt 1 Mass. 4 7 R.I	15 22	5,430 207 7 11 1 91 29 68 631 126 256 86 163 724 234 234 33 192 160 105 228 32 58 65 1 3 11 58 1,696 9 197 56	6,131 372 6 11 8 163 19 165 806 169 285 198 154 762 155 59 273 224 51 250 20 25 53 2 1 29 120 1,212 7 160	4,357 142 6 12 3 82 21 18 872 89 453 180 150 537 74 31 67 365 - 138 13 12 78 4 - 18 13 1,167 7	4,613 87 5 10 5 16 17 34 895 79 418 195 203 614 76 31 93 388 26 135 12 15 77 1 19 11 872 20	4,083 20 12 8 1,058 39 - 997 22 68 6 - 9 53 - 606 13 1 580 8 4	2,685 30 6 24 838 19 - 774 45 121 8 1 9 103 - 800 7 - 784 4 5
NEW ENGLAND Maine N.H. Maine N.H. N.H. N.H. N.H. Mass. Mass. MID. ATLANTIC MID. MID. MID. MID. MID. MID. MID. MID.		207 7 11 1 91 29 68 631 126 256 86 163 724 234 234 234 234 234 33 192 160 105 228 65 1 1 58 65 1 1 1 58 69 1 7 7 8 8 6 8 6 7 8 8 8 8 8 8 8 8 8 8 8 8 8	372 6 111 8 163 19 165 806 169 285 198 154 762 155 59 273 224 51 250 20 25 53 2 1 29 120	142 6 12 3 82 21 18 872 89 453 180 150 537 74 31 67 365 - 138 13 12 78 4 - 18 13	87 5 10 5 16 17 34 895 79 418 195 203 614 76 31 93 388 26 135 12 15 77	20 - - 12 8 - - 1,058 39 - 997 22 68 6 - 9 53 - 606 13 1 580 - 8 4	30 - 6 24 - - 838 19 774 45 121 8 1 9 103 - 800 7 - 784 - - 45
Maine - - N.H. - 1 Vt. - - Mass. 4 7 R.I. - - Conn. 3 5 MID. ATLANTIC 23 22 Upstate N.Y. 9 6 N.Y. City 7 6 N.J. 4 3 Pa. 3 7 E.N. CENTRAL 27 32 Dohio 7 9 nd. 7 6 II. 11 11 Mich. 1 - Wis. 1 6 W.N. CENTRAL 2 2 Minn. 2 1 owa - - N. Dak. - - S. Dak. - - Nebr. - - Va. 3 5 Docl. - - Md. 3 5 D.C. - -	1 2 1 2 1 2 1 2 1 2 2 4 2 2 4 2 2 4 2 2 2 4 2 2 2 4 2 2 2 4 2 2 2 4 2 2 2 2 4 2 2 2 2 4 2 2 2 2 2 4 2	7 11 1 91 29 68 631 126 256 86 163 724 234 234 33 192 160 105 228 32 58 65 1 3 11 58 1,696 9 197 56	6 11 8 163 19 165 806 169 285 198 154 762 155 59 273 224 51 250 20 25 53 2 1 29 120 1,212 7 160	6 12 3 82 21 18 872 89 453 180 150 537 74 31 67 365 - 138 13 12 78 4 - 18 13 1,167 7	5 10 5 16 17 34 895 79 418 195 203 614 76 31 93 388 26 135 12 15 77 1 19 11	12 8 8 - 1,058 39 - 997 22 68 6 - 9 53 - 606 13 1 580	- 6 24 838 19 - 774 45 121 8 1 9 103 - 800 7 7 - 784 - 4 5
Vf. - - Mass. 4 7 R.I. - - Conn. 3 5 MID. ATLANTIC 23 22 Upstate N.Y. 9 6 N.Y. City 7 6 N.J. 4 3 Pa. 3 7 E.N. CENTRAL 27 32 Ohio 7 9 nd. 7 6 III. 11 11 Min. 1 - Wis. 1 6 W.N. CENTRAL 2 2 Winn. 2 1 owa - - N. Dak. - - N. Dak. - - S. Dak. - - Vebr. - - Van. 3 5 Dol. - - Va. 3 5 Va. 3 5 Va. 3 5		1 91 29 68 631 126 256 86 163 724 234 33 192 160 105 228 32 58 65 1 3 11 58	8 163 19 165 806 169 285 198 154 762 155 59 273 224 51 250 20 25 53 2 1 29 120	3 82 21 18 872 89 453 180 150 537 74 31 67 365 - 138 13 12 78 4 - 18 13	5 16 17 34 895 79 418 195 203 614 76 31 93 388 26 135 12 15 77 1 19 11	8	24
Mass. 4 7 R.I. - - Conn. 3 5 MID. ATLANTIC 23 22 Upstate N.Y. 9 6 N.Y. City 7 6 N.J. 4 3 Pa. 3 7 E.N. CENTRAL 27 32 Onio 7 9 Ind. 11 11 Il. 11 11 Mich. 1 - Wis. 1 6 W.N. CENTRAL 2 2 Minn. 2 1 owa - - N. Dak. - - S. Dak. - - Velon. - - N. Dak. - - S. ATLANTIC 39 36 Del. - - Va. 3 5 Wa. 3 5 Wa. 3 5 Wa. 3 2		91 29 68 631 126 256 86 163 724 234 33 192 160 105 228 32 58 65 1 3 11 58	163 19 165 806 169 285 198 154 762 155 59 273 224 51 250 20 25 53 2 1 29 120	82 21 18 872 89 453 180 150 537 74 31 67 365 - 138 13 12 78 4 - 18 13	16 17 34 895 79 418 195 203 614 76 31 93 388 26 135 12 15 77 1 19 11	8	24
R.I.	3 1 2 1 2 1 2 1 2 1 2 2 3 4 2 2 4 2 2 4 2 2 4 2 2 4 2 2 4 2 2 4 2 2 4 2 2 4 2 2 4 2 4 2 2 4 2	29 68 631 126 256 86 163 724 234 234 192 160 105 228 65 1 3 11 58 1,696 9 197 56	19 165 806 169 285 198 154 762 155 59 273 224 51 250 20 25 53 2 1 29 120 1,212 7	21 18 872 89 453 180 150 537 74 31 67 365 - 138 13 12 78 4 - 18 13	17 34 895 79 418 195 203 614 76 31 93 388 26 135 12 15 77 - 1 19 11	1,058 39 - 997 22 68 6 - 9 53 - 606 13 1 580	838 19 - 774 45 121 8 1 9 103 - 800 7 - 784 - 4 5
MID. ATLANTIC Upstate N.Y. Upstate N.Y. 9 6 N.Y. City 7 6 N.J. 4 3 Pa. 3 7 E.N. CENTRAL 27 32 Ohio 7 9 Ind. 11 11 Ill. Ill. Ill. Ill. Ill. Ill. Ill. Il	3 1	631 126 256 86 163 724 234 33 192 160 105 228 32 58 65 1 1 58	806 169 285 198 154 762 155 59 273 224 51 250 20 25 53 2 1 29 120	872 89 453 180 150 537 74 31 67 365 - 138 13 12 78 4 - 18 13	895 79 418 195 203 614 76 31 93 388 26 135 12 15 77 1 19 11	39 997 22 68 6 - 9 53 - 606 13 1 580 - - 8 4	19 -774 45 121 8 1 9 103 - 800 7 - 784 - 4 5
Upstate N.Y. 9 6 N.Y. City 7 6 N.J. 4 3 Pa. 3 7 E.N. CENTRAL 27 32 Ohio 7 9 nd. 7 6 III. 11 11 Mich. 1 - Wis. 1 6 W.N. CENTRAL 2 2 Winn. 2 1 Iowa - - N. Dak. - - S. Dak. - - Nebr. - - Kans. - - Del. - - Del. - - Va. 3 5 Wa.	1 2 1 2 1 - 1 1 - 1 1 - 1 1 - 1 1 - 1 1 - 1 1 - 1 1 - 1 1 1 - 1	126 256 86 163 724 234 33 192 160 105 228 32 58 65 1 3 11 58	169 285 198 154 762 155 59 273 224 51 250 20 25 53 2 1 1 29 120	89 453 180 150 537 74 31 67 365 - 138 13 12 78 4 - 18 13	79 418 195 203 614 76 31 93 388 26 135 12 15 77 1 19 11 872 20	39 997 22 68 6 - 9 53 - 606 13 1 580 - - 8 4	19 -774 45 121 8 1 9 103 - 800 7 - 784 - 4 5
N.Y. City 7 6 N.J. 4 3 Pa. 3 7 Pa. 32 Ohio 7 9 Ind. 7 6 Ill. 11 11 Mich. 1 - Wis. 1 6 W.N. CENTRAL 2 2 Minn. 2 1 Iowa N. Dak. 1 - N. Dak. 1 - N. Dak 1 S. Dak N. Dak. 3 5 Dak Nebr Kans S. ATLANTIC 39 36 Del Md. 3 5 D.C Va. 3 5 W.Va. 1 N.C. 3 2 S.C. 2 1 Ga. 16 14 Fla. 12 8 E.S. CENTRAL 10 12 Ky. 1 - Tenn. 6 6 Ala. 3 5 Miss 1 W.S. CENTRAL 9 5	2 1 2 1	256 86 163 724 234 33 192 160 105 228 32 58 65 1 3 11 58	285 198 154 762 155 59 273 224 51 250 20 25 53 2 1 29 120	453 180 150 537 74 31 67 365 - 138 13 12 78 4 - 18 13	418 195 203 614 76 31 93 388 26 135 12 15 77 - 1 19 11	997 22 68 6 - 9 53 - 606 13 1 580 - 8 4	774 45 121 8 1 9 103 - 800 7 - 784 - 4 5
Pa. 3 7 E.N. CENTRAL 27 32 Ohio 7 9 Ind. 7 6 Ill. 11 11 Mich. 1 Wis. 1 6 W.N. CENTRAL 2 2 Minn. 2 1 Iowa Mo N. Dak S. Dak S. ATLANTIC 39 36 Del S. ATLANTIC 39 36 Del W. Va. 3 5 W. Va. 3 5 W. Va. 1 S. C. 2 1 Ga. 16 14 Fla. 12 8 E.S. CENTRAL 10 12 Ky. 1 Tenn. 6 6 Ala. 3 5 Miss Miss W.S. CENTRAL 10 12 Ky. 1 Tenn. 6 6 Ala. 3 5 Miss W.S. CENTRAL 9 5	- 2 1 2 1 - 1 - 1 - 1 - 1 - 2 3 6 1 2 - 2 - 4	163 724 234 33 192 160 105 228 32 58 65 1 3 11 58 1,696 9 197 56	154 762 155 59 273 224 51 250 20 25 53 2 1 29 120 1,212 7 160	150 537 74 31 67 365 - 138 13 12 78 4 - 18 13 1,167 7	203 614 76 31 93 388 26 135 12 15 77 - 1 19 11	22 68 6 - 9 53 - 606 13 1 580 - 8 4	45 121 8 1 9 103 - 800 7 - 784 - 4 5
E.N. CENTRAL 27 32 Ohio 7 9 Ind. 7 6 Ill. 11 11 Mich. 1 Wis. 1 6 W.N. CENTRAL 2 2 Minn. 2 1 Iowa N. Dak N. Dak N. Dak S. ATLANTIC 39 36 Del S. ATLANTIC 39 36 Del S. ATLANTIC 39 36 Del S. S. C S. C Ga. 16 S. C. 2 1 Ga. 16 S. C. 3 5 S. C. 4 1 S. C. 5 1 S. C. 6 6 S. C. 7 1 S. C. 7	1 2 1 - 1 - 1 - 1 - 3 6 1 2 - 2 4 	724 234 33 192 160 105 228 32 58 65 1 3 11, 58	762 155 59 273 224 51 250 20 25 53 2 1 1 29 120 1,212 7	537 74 31 67 365 - 138 13 12 78 4 - 18 13	614 76 31 93 388 26 135 12 15 77 - 1 19 11	68 6 - 9 53 - 606 13 1 580 - - 8 4	121 8 1 9 103 - 800 7 - 784 - - 4 5
Ohio 7 9 Ind. 7 6 III. 11 11 Mich. 1 - Wis. 1 6 W.N. CENTRAL 2 2 Minn. 2 1 Iowa - - Mo. - - N. Dak. - - S. Dak. - - Nebbr. - - Kans. - - S. ATLANTIC 39 36 Del. - - Md. 3 5 D.C. - - Va. 3 5 W.Va. - 1 N.C. 3 2 S.C. 2 1 Ga. 16 14 Fla. 12 8 E.S. CENTRAL 10 12 Ky. 1 - Tenn. 6 6 Ala. 3 5 Miss	1 - 1 - 1 - 1 - 1 - 3 6 1 2 2 - 4 	234 33 192 160 105 228 32 58 65 1 1 3 11 58 1,696 9 197 56	155 59 273 224 51 250 20 25 53 2 1 1 29 120 1,212 7	74 31 67 365 - 138 13 12 78 4 - 18 13 1,167	76 31 93 388 26 135 12 15 77 - 1 19 11 872 20	6 - 9 53 - 606 13 1 580 - - 8 4	8 1 9 103 - 800 7 - 784 - - 4 5
III. 11 11 11 Mich. 1 - Wis. 1 6 Wis. 1 6 W.N. CENTRAL 2 2 2 Minn. 2 1 lowa Mo. N. Dak 1 N. Dak 1 S. Dak Nebr Kans S. ATLANTIC 39 36 Del Md. 3 5 DC Va. W. Va. 3 5 W. Va. 3 5 W. Va. 1 N.C. 3 2 2 S.C. 2 1 Ga. 16 14 Fla. 12 8 E.S. CENTRAL 10 12 Ky. 1 Tenn. 6 6 Ala. 3 5 Miss 1 W.S. CENTRAL 9 5 5 W.S. CENTRAL 9 5 W.S. CENTRAL 9 5 W.S. CENTRAL 9 5 5 W.S. CENTRAL 9 W.S. CENTRAL 9 9 W.S. CENTRAL 9	3 6 1 2 2 4 1	192 160 105 228 32 58 65 1 3 11 58 1,696 9	273 224 51 250 20 25 53 2 1 29 120 1,212 7	67 365 - 138 13 12 78 4 - 18 13 1,167 7	93 388 26 135 12 15 77 - 1 19 11 872 20	9 53 - 606 13 1 580 - - 8 4	9 103 - 800 7 - 784 - 4 5
Mich. 1 - Wis. 1 6 Wis. 1 6 W.N.CENTRAL 2 2 Minn. 2 1 lowa	1	160 105 228 32 58 65 1 3 11 58 1,696 9	224 51 250 20 25 53 2 1 29 120 1,212 7	365 - 138 13 12 78 4 - 18 13 1,167	388 26 135 12 15 77 - 1 19 11 872 20	53 - 606 13 1 580 - - 8 4	103 - 800 7 - 784 - 4 5
W.N. CENTRAL W.N. CENTRAL Winn. 2 Minn. 2 1 Nowa - N. Dak. - N. Dak. - N. Dak. - Nebr. - Kans. - S. ATLANTIC Del. - Md. 3 5 D.C. - W.Va. 3 5 W.Va. 1 N.C. 3 W.Va. 1 N.C. 3 E.S. CENTRAL 10 12 Ky. 1 - Tenn. 6 6 Ala. Miss. - I I I I I I I I I I I I	3 6 1 2 2 4 2 5	228 32 58 65 1 3 11 58 1,696 9 197 56	250 20 25 53 2 1 29 120 1,212 7	138 13 12 78 4 - 18 13 1,167	135 12 15 77 - 1 19 11 872 20	606 13 1 580 - 8 4	7 - 784 - - 4 5
Minn. 2 1 lowa Mo N. Dak 1 S. Dak Nebr Kans S. ATLANTIC 39 36 Del Md. 3 5 D.C Va. 3 5 W. Va. 1 N.C. 3 2 S.C. 2 1 Ga. 16 14 Fla. 12 8 E.S. CENTRAL 10 12 Ky. 1 Tenn. 6 6 Ala. 3 5 Miss 1 W.S. CENTRAL 9 5	1 2 2 4 2 5	32 58 65 1 3 11 58 1,696 9 197 56	20 25 53 2 1 29 120 1,212 7	13 12 78 4 - 18 13 1,167	12 15 77 - 1 19 11 872 20	13 1 580 - - 8 4 118	7 - 784 - - 4 5
Iowa	2 4	58 65 1 3 11 58 1,696 9 197 56	25 53 2 1 29 120 1,212 7 160	12 78 4 - 18 13 1,167 7	15 77 - 1 19 11 872 20	1 580 - - 8 4 118	784 - - 4 5
N. Dak 1 S. Dak Nebr		1 3 11 58 1,696 9 197 56	2 1 29 120 1,212 7 160	4 - 18 13 1,167 7	1 19 11 872 20	- - 8 4 118	- - 4 5 46
S. Dak		3 11 58 1,696 9 197 56	1 29 120 1,212 7 160	18 13 1,167 7	19 11 872 20	8 4 118	5 46
Kans. - S. ATLANTIC 39 Del. - Md. 3 D.C. - Va. 3 M. Va. - N.C. 3 S.C. 2 Jaa. 16 Ha. 12 B.S. CENTRAL 10 M.S. CENTRAL 1 Miss. - M.S. CENTRAL 9 5	2 5	11 58 1,696 9 197 56	120 1,212 7 160	13 1,167 7	11 872 20	4 118	5 46
S. ATLANTIC 39 36 Del	2 5	1,696 9 197 56	1,212 7 160	1,167 7	872 20	118	46
Del		9 197 56	7 160	7	20		46
D.C	_ 1	56		07			
Va. 3 5 W. Va. - 1 N.C. 3 2 S.C. 2 1 Ga. 16 14 Fla. 12 8 E.S. CENTRAL 10 12 Ky. 1 - Tenn. 6 6 Ala. 3 5 Miss. - 1 W.S. CENTRAL 9 5					93	10	5
W.Va 1 N.C. 3 2 S.C. 2 1 Ga. 16 14 Fla. 12 8 E.S. CENTRAL 10 12 Ky. 1 - 1 Tenn. 6 6 Ala. 3 5 Miss 1 W.S. CENTRAL 9 5		72	33 89	14 136	11 101	2	-
S.C. 2 1 Ga. 16 14 Fla. 12 8 E.S. CENTRAL 10 12 Ky. 1 - Tenn. 6 6 Ala. 3 5 Miss 1 W.S. CENTRAL 9 5	1 -	13	8	18	20	1	9
Ga. 16 14 Fla. 12 8 E.S. CENTRAL 10 12 Ky. 1 - Tenn. 6 6 Ala. 3 5 Miss. - 1 W.S. CENTRAL 9 5	- 4	151 48	113 56	173 65	131 22	18 4	14 5
E.S. CENTRAL 10 12 Ky. 1 - Tenn. 6 6 Ala. 3 5 Miss 1 W.S. CENTRAL 9 5		369	624	325	260	29	-
Ky. 1 - Tenn. 6 6 Ala. 3 5 Miss. - 1 W.S. CENTRAL 9 5	1 -	781	122	342	214	49	11
Tenn. 6 6 Ala. 3 5 Miss. - 1 W.S. CENTRAL 9 5	1 2	173 40	254 73	226 38	311 36	135 3	162 6
Miss 1 W.S. CENTRAL 9 5		66	98	80	153	25	52
W.S. CENTRAL 9 5	1 1	25 42	63 20	50 58	63 59	4 103	2 102
		246	648	345	547	1,932	547
Ark		29	53	63	64	1,932	6
La. 1 - Okla. 6 5		22 34	70 92	31 17	84 74	16 4	116 4
Tex. 2 -		161	433	234	325	1,907	421
MOUNTAIN 29 16	7 1	400	516	412	326	68	41
Mont Idaho 1		10	9	3 6	2 9	-	1
иапо i - Wyo		23 2	48 4	15	1	8	2 4
Colo. 2 1		69	52	58	71	28	5
N. Mex. 4 7 Ariz. 15 6	1 1 5 -	13 212	28 264	106 158	90 101	1 4	11 9
Utah 5 2	-	37	57	29	18	4	2
Nev. 2 - PACIFIC 21 33	1 -	34	54	37	34	23	7
PACIFIC 21 33 Wash. 1 1	1 3	1,125 118	1,311 88	518 46	826 89	78 16	100 16
Oreg. 5 5		50	80	91	111	14	12
Calif. 11 25 Alaska 1 1	1 1	949 7	1,115 14	372 3	604 7	48	72 -
Hawaii 3 1	- 1	1	14	6	15	-	-
Guam		- 70	1	-	- 170	-	-
P.R 1 V.I		70	128	61 -	176	-	1 -
Amer. Samoa U U C.N.M.I U		-	-		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)*

	Legior	nellosis	Liste	riosis	Lyme	Disease	Mal	aria	Measles Total		
Reporting Area	Cum. 2002	Cum. 2001	Cum. 2002	Cum. 2001	Cum. 2002	Cum. 2001	Cum. 2002	Cum. 2001	Cum. 2002	Cum. 2001	
UNITED STATES	587	627	295	371	7,136	9,533	759	958	17 [†]	96§	
NEW ENGLAND Maine N.H.	54 2 4	36 4 6	38 4 4	33 - 2	1,294 53 151	2,745 - 48	43 3 6	61 4 2	-	5 - -	
 ∕t. ∕ass. 3.I.	21 18 1	4 11 2	2 19 1	2 17	15 665	7 891 218	2 15	32 3	-	1 3	
Conn.	8	9	8	1 11	158 252	1,581	3 14	20	-	1	
MID. ATLANTIC Upstate N.Y. N.Y. City N.J. Pa.	130 43 26 12 49	144 40 23 11 70	53 28 12 3 10	62 19 15 11 17	4,721 2,899 81 337 1,404	5,086 1,835 56 1,721 1,474	167 30 99 20 18	274 40 159 43 32	5 - 5 -	18 4 6 1 7	
E.N. CENTRAL Dhio nd. II. Mich. Wis.	147 67 12 - 50 18	168 78 13 19 31 27	36 14 6 1 12 3	56 10 5 21 16 4	52 42 10 - - U	589 17 17 29 5 521	91 15 7 23 36 10	121 20 13 54 22 12	3 1 2 - -	10 3 4 3 -	
W.N. CENTRAL Minn. Iowa Mo.	32 6 7 10	38 9 6 14	8 - 1 5	9 - - 6	164 111 23 25	233 182 21 24	46 16 2 13	29 6 5 10	2 1 - 1	4 2 - 2	
N. Dak. S. Dak. Nebr. Kans.	2 7 -	1 3 4 1	1 - - 1	1 2	- 1 4	4 2	1 - 5 9	2 6	- - - -	- - -	
S. ATLANTIC Del. Md. D.C. Va.	119 6 19 5 13	106 3 25 7 17	51 - 10 - 3	47 2 8 - 9	757 98 443 17 67	697 107 436 8 97	224 2 70 14 17	199 1 83 13 38	1 - - -	5 - 3 - 1	
W.Va. N.C. S.C. Ga.	N 7 5 10	N 7 5 9	4 8 10	5 2 4 8	8 70 10 1	9 26 3	3 12 5 59	1 9 5 33	- - - -	- - - 1	
Fla. E.S. CENTRAL Ky. Tenn. Ala.	54 23 9 8 6	33 45 11 21 9	16 9 2 4 3	9 15 4 6 5	43 34 13 14 7	11 39 17 10 6	42 13 5 3 3	16 23 8 8 4	1 - - -	2 2 -	
Miss. W.S. CENTRAL Ark. ∟a.	- 8 - 1	4 17 - 6	- 11 -	29 1	- 16 2 1	6 66 - 4	2 9 1 3	3 67 3 5	- 1 -	1 -	
Okla. 「ex.	3 4	3 8	6 5	2 26	13	62	5 -	2 57	1	1	
MOUNTAIN Mont. daho Vyo.	27 3 - 1	33 - 2 2	21 - 2 -	29 - 1 1	16 - 3 -	7 - 4 1	34 1 -	35 2 3	- -	1 - 1 -	
Colo. N. Mex. Ariz. Jtah	6 1 7 8	11 2 8 5	4 2 9 3	8 6 6 1	5 1 2 4	- - -	19 2 5 4	19 3 3 2	- - -	- - -	
Nev. PACIFIC Wash.	1 47 5	3 40 6	1 68 7	6 91 5	1 82 6	2 71 4	3 132 12	3 149 4	1 4 -	50 15	
Vasii Dreg. Calif. Alaska Hawaii	N 42 -	N 29 1 4	8 47 - 6	6 76 - 4	12 63 1 N	7 58 2 N	7 105 2 6	12 123 1 9	3 - 1	2 26 - 7	
Guam P.R.	-	2	1	- -	- N	- N	- -	3	- -	-	
/.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. -: No reported cases.

* 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)*

	Meningo Disea		Mun	nps	Pert	ussis	Rabies, Animal		
Reporting Area	Cum. 2002	Cum. 2001	Cum. 2002	Cum. 2001	Cum. 2002	Cum. 2001	Cum. 2002	Cum. 2001	
JNITED 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	
∕laine I.H.	7 9	1 9	4	-	5 8	- 14	31 28	46 15	
′t.	4	5	-	-	80	25	74	43	
Mass. R.I.	33 5	45 2	2	1	267 10	235 5	183 43	169 43	
Conn.	13	15	1	-	15	17	200	149	
MID. ATLANTIC	115	179	17	20	198	236	718	826	
Jpstate N.Y. I.Y. City	35 17	50 28	2 1	3 11	144 8	112 35	452 10	519 22	
I.J.	22	30	1	2	3	13	105	132	
a.	41	71 249	13 18	4 20	43	76 487	151	153 87	
E.N. CENTRAL Dhio	160 61	249 67	3	20 1	562 283	467 214	82 19	25	
nd. I.	25 31	29 61	2 6	1 15	57 91	46 47	21 15	1	
ı. ⁄lich.	31	55	6	2	37	47	27	14 35	
Vis.	12	37	1	1	94	139	-	12	
V.N. CENTRAL ⁄linn.	98 24	104 15	13 3	7 3	422 176	156 47	260 28	241 25	
owa	12	21	1	-	121	16	43	51	
lo. I. Dak.	38	39 5	3 1	-	80	71	32 11	31 24	
B. Dak.	2	4	-	-	5	3	41	36	
lebr. ans.	16 6	10 10	- 5	1 3	3 37	4 15	105	4 70	
. ATLANTIC	209	260	21	24	265	159	1,629	1,589	
el.	6	3	-	-	2	-	24	29	
/ld. D.C.	6	34	4	4	41 1	23 1	168	316	
′ a.	29	31	3	6	101	27	321	278	
V. Va. I.C.	3 24	11 57	1	1	23 27	2 48	118 465	95 390	
S.C.	18	29	2	2	28	25	79	81	
ia. Ia.	29 94	36 59	4 7	8 3	17 25	17 16	284 170	273 127	
S.S. CENTRAL	68	108	12	5	146	83	116	164	
ý.	11	19	4	1	57	19	18	16	
ēnn. Na.	27 18	44 30	2 3	-	55 27	35 25	61 37	106 41	
Miss.	12	15	3	4	7	4	-	1	
V.S. CENTRAL ırk.	139 20	253 16	16	9	1,194 389	308 13	76 -	808	
a.	23	62	1	2	4	5	-	7	
Okla. ex.	17 79	23 152	- 15	7	65 736	12 278	76 -	48 753	
OUNTAIN	73	74	13	12	594	1,019	187	192	
font.	2	3	-	1	4	20	10	31	
laho √yo.	3	7 4	1 -	1 1	51 10	166 1	22 14	11 24	
colo.	23	29	2	3	228	214	35	-	
l. Mex. riz.	3 23	9 11	1 1	2 1	122 105	83 466	5 95	11 107	
ltah	4	7	5	1	41	58	3	7	
lev.	15	4	3	2	33	11	3	1	
ACIFIC Vash.	242 50	363 52	63	66 1	784 311	566 97	171 -	262	
reg.	34 150	45 255	N 51	N 29	127 329	38 399	3	1 223	
Calif. Alaska	2	2	-	1	4	3	144 24	38	
ławaii	6	9	12	35	13	29	-	-	
iuam R.	- 3	- 4	-	-	- 1	-	49	- 68	
<u>′.</u> I.	-	-	-	-	-	-	-	-	
mer. Samoa C.N.M.I.	U	U U	U	U U	U 1	U 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)*

				_				
		/lountain d Fever	Ruh	ella		enital pella	Salmor	ellosis
Reporting Area	Cum. 2002	Cum. 2001	Cum. 2002	Cum. 2001	Cum. 2002	Cum. 2001	Cum. 2002	Cum. 2001
UNITED STATES	577	349	9	16	2	-	22,304	23,797
NEW ENGLAND	-	3	-	-	-	-	1,289	1,614
Maine	-	-	-	-	-	-	91	135
N.H. Vt.	-	1	-	-	-	-	79 44	126 47
Mass.	-	2	-	-	-	-	711	940
R.I.	-	-	-	-	-	-	104	80
Conn.	-	-	-	-	-	-	260	286
MID. ATLANTIC Upstate N.Y.	34 8	15	4 2	7 1	-	-	2,621 881	3,172 736
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 Ind.	10 2	1 1	-	-	-	-	869 295	888 330
III.	-	12	-	2	-	-	1,070	968
Mich.	2	-	-	-	-	-	594	578
Wis.	-	-	-	-	-	-	539	555
W.N. CENTRAL	77	53	-	3	-	-	1,506 359	1,404 410
Minn. Iowa	- 1	2	-	1	-	-	248	209
Mo.	70	49	-	1	-	-	554	361
N. Dak.	-	-	-	-	-	-	25	37
S. Dak. Nebr.	4	2	-	-	-	-	59 70	106 103
Kans.	2	-	-	1	-	-	191	178
S. ATLANTIC	297	161	-	3	-	-	5,871	5,357
Del.	2	1	-	-	-	-	44	57
Md. D.C.	38	32	-	-	-	-	595 50	511 55
Va.	21	16	-	-	-	-	568	896
W.Va.	. 1	-	-	-	-	-	88	79
N.C. S.C.	168 42	85 16	-	2	-	-	796 358	744 539
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. Ala.	39 14	48 11	-	-	I -	-	415 470	351 392
Miss.	-	10	-	-	-	-	524	467
W.S. CENTRAL	82	23	2	-	-	-	1,635	2,869
Ark.	21	5	-	-	-	-	536	439
La. Okla.	- 61	2 16	-	-	-	-	196 268	500 260
Tex.	-	-	2	-	-	- -	635	1,670
MOUNTAIN	12	9	-	_	_	_	1,316	1,394
Mont.	1	1	-	-	-	-	64	49
Idaho Wyo.	3	1 2	-	-	-	-	89 39	92 48
Colo.	2	1	-	-	-	-	309	383
N. Mex.	1	1	-	-	-	-	175	167
Ariz.	-	-	-	-	-	-	385	393 143
Utah Nev.	5	3 -	-	-	-	-	124 131	119
PACIFIC	5	-	3	1	1	-	3,074	3,235
Wash.	-	-	-	-	-	-	307	314
Oreg.	2	-	-	-	-	-	235	189
Calif. Alaska	3	-	3	-	-	-	2,305 42	2,473 27
Hawaii	-	-	-	1	1	-	185	232
Guam	-	-	-	-	-	-	-	19
P.R.	-	-	-	3	-	-	120	627
V.I. Amer. Samoa	Ū	Ū	Ū	- U	- U	- U	- U	- U
, union ourrioa	J	Ü	U	U	U	U	25	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)*

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

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)*

(34th Week)*	1	Syn	hilis				Typhoid		
	Primary &			genital	Tubero	ulosis		ver	
Reporting Area	Cum. 2002	Cum. 2001	Cum. 2002	Cum. 2001	Cum. 2002	Cum. 2001	Cum. 2002	Cum. 2001	
UNITED STATES	3,936	3,809	203	335	7,407	8,793	158	220	
NEW ENGLAND Maine	87 2	34	-	3	244 10	308 12	11	11 1	
N.H.	4	1	-	-	8	11	-	1	
Vt. Mass.	1 60	2 17	-	2	136	4 159	8	8	
R.I. Conn.	5 15	6 8	- -	- 1	24 66	41 81	3	- 1	
MID. ATLANTIC	415	322	37	52	1,393	1,476	40	73	
Upstate N.Y. N.Y. City	23 259	15 178	4 15	3 27	213 706	228 740	5 20	14 28	
N.J.	81 52	69 60	17	22	319 155	329 179	12	27	
Pa. E.N. CENTRAL	52 656	666	1 27	- 48	754	900	3 15	4 28	
Ohio	94	58	-	2	120	173	5	3	
Ind. III.	46 169	110 211	20	7 31	66 377	66 431	2 1	2 15	
Mich. Wis.	333 14	269 18	7	5 3	150 41	183 47	3 4	5 3	
W.N. CENTRAL	64	58	-	8	342	340	6	8	
Minn. Iowa	28 2	25 4	-	2	146 17	143 18	3	4	
Mo. N. Dak.	16	11	-	5	98 1	89 3	1	4	
S. Dak.	-	-	-	-	9	8	-	-	
Nebr. Kans.	4 14	2 16	-	1	9 62	25 54	2 -	-	
S. ATLANTIC Del.	1,057 9	1,332 10	48	80	1,503 13	1,655 9	27	27	
Md.	130	171	8	3	175	141	5	8	
D.C. Va.	58 45	18 72	1 1	2 4	- 116	48 161	1	8	
W. Va. N.C.	2 195	304	- 16	- 8	20 211	20 212	- 1	2	
S.C.	78 211	178 238	5 5	18 18	116 269	130 276	8	6	
Ga. Fla.	329	341	12	27	583	658	12	3	
E.S. CENTRAL Ky.	339 65	408 29	13 2	24	465 89	531 80	4 4	1	
Tenn.	124	220	3	14	179	198	-	1	
Ala. Miss.	116 34	82 77	6 2	4 6	132 65	168 85	-	-	
W.S. CENTRAL	569	463	45	58	1,009	1,365	4	13	
Ark. La.	16 98	26 95	1 -	6	80	99 85	-	-	
Okla. Tex.	43 412	44 298	2 42	5 47	84 845	97 1,084	4	13	
MOUNTAIN	183	142	11	20	218	345	10	7	
Mont. Idaho	1	-	1	- -	6 8	6 7	-	1 -	
Wyo. Colo.	- 27	- 17	- 1	- 1	2 31	3 82	5	-	
N. Mex. Ariz.	21 124	11 104	9	2 17	21 119	43 127	-	- 1	
Utah	5	7	-	-	18	21	3	1	
Nev. PACIFIC	5 566	3 384	22	- 42	13 1,479	56 1,873	2 41	4 52	
Wash.	36	36	1	-	155	167	4	3	
Oreg. Calif.	11 512	10 328	1 19	42	68 1,128	71 1,511	2 34	3 43	
Alaska Hawaii	- 7	10	- 1	- -	33 95	31 93	1	1 2	
Guam	-	2	-	1	-	46	-	2	
P.R. V.I.	139 1	175 -	10	7 -	33	95 -	-	-	
Amer. Samoa C.N.M.I.	U 15	U U	U	U U	U 29	U U	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 III. Deaths in 122 U.S. cities.* week ending August 24, 2002 (34th Week)

TABLE III. Deaths	eaths in 122 U.S. cities,* week ending August 24, 2002 (34th Week) All Causes, By Age (Years) All Causes, By Age (Years)										_				
	All	All C	auses, L	y Age (1	cais)		P&I [†]		All	All	Causes, I	y Age (l cars)	T	P&I [†]
Reporting Area	Ages	≥65	45-64	25-44	1-24	<1	Total	Reporting Area	Ages	<u>≥</u> 65	45-64	25-44	1-24	<1	Total
NEW ENGLAND	487	327	107	39	6	7	53	S. ATLANTIC	874	537	192	88	26	31	58
Boston, Mass. Bridgeport, Conn.	138 23	86 15	34 5	11 3	2	4	16	Atlanta, Ga. Baltimore, Md.	U 146	U 85	U 40	U 17	U 2	U 2	U 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.	Ü	Ü	Ü	Ü	Ŭ	ŭ	Ü
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 29	7 20	3 8	1 1	-	-	3	Richmond, Va. Savannah, Ga.	63 47	40 31	17 11	3 3	1	3	2
New Bedford, Mass. New Haven, Conn.	29 35	20 24	6	3	2	-	3 7	St. Petersburg, Fla.	47 54	34	17	2	1	1	3 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	-	1	7	E.S. CENTRAL	707	451	169	51	21	15	41
Worcester, Mass.	58	38	11	8				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 1	8	2	2	3	Knoxville, Tenn.	97	59	26 15	8	2	2	7
Allentown, Pa. Buffalo, N.Y.	19 113	16 77	21	2 9	-	6	1 11	Lexington, Ky. Memphis, Tenn.	61 U	33 U	U	11 U	1 U	1 U	5 U
Camden, N.J.	Ü	Ú	Ü	Ŭ	U	Ŭ	Ü	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	-	-	W.S. CENTRAL	1,426	864	322	125	59	43	94
New York City, N.Y. Newark, N.J.	1,048 51	703 21	218 20	100 7	18 1	9 2	49 7	Austin, Tex.	80	47	19	10	2	2	7
Paterson, N.J.	19	16	1	1	1	-	2	Baton Rouge, La.	73	42	25	2	4	-	-
Philadelphia, Pa.	137	77	39	13	4	4	6	Corpus Christi, Tex.	59	42	13	-	2	2	3
Pittsburgh, Pa.§	33	21	8	2	-	2	1	Dallas, Tex. El Paso, Tex.	213 83	121 61	52 6	22 1	6 1	12 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. Scranton, Pa.	U 36	U 28	U 6	U 2	U	U	U 2	Little Rock, Ark.	54	31	13	8	2	-	4
Syracuse, N.Y.	83	62	12	4	2	3	7	New Orleans, La.	51	22	7	11	11	-	-
Trenton, N.J.	39	26	10	1	-	2	1	San Antonio, Tex.	226	147	51 7	15	9 1	4	11
Utica, N.Y.	12	7	5	-	-	-	1	Shreveport, La. Tulsa, Okla.	39 129	29 90	23	2 10	5	1	4 16
Yonkers, N.Y.	28	23	5	-	-	-	6								
E.N. CENTRAL	1,659	1,104	348	130	44	30	104	MOUNTAIN Albuquerque, N.M.	815 127	553 73	162 26	61 19	26 6	13 3	39 5
Akron, Ohio	43	25	5	6	2	2	5	Boise, Idaho	30	25	4	1	-	-	1
Canton, Ohio	32 U	22 U	8 U	2 U	- U	- U	6 U	Colo. Springs, Colo.	50	37	8	3	1	1	4
Chicago, III. Cincinnati, Ohio	58	41	9	4	1	3	8	Denver, Colo.	97	62	18	9	4	4	6
Cleveland, Ohio	109	55	34	7	7	6	5	Las Vegas, Nev.	221	144	58	11	7	1	10
Columbus, Ohio	175	119	36	17	2	1	14	Ogden, Utah Phoenix, Ariz.	30 U	22 U	5 U	2 U	- U	1 U	1 U
Dayton, Ohio	167	110	35	18	1	3	12	Pueblo, Colo.	27	22	4	1	-	-	3
Detroit, Mich.	190	108	51	19	10	2	10	Salt Lake City, Utah	94	65	15	8	3	3	5
Evansville, Ind. Fort Wayne, Ind.	41 62	32 47	6 8	2 5	2	1	4 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. Peoria, III.	119 59	84 42	26 12	5 5	3	1	5 3	Honolulu, Hawaii Long Beach, Calif.	68 66	53 42	9 10	3 9	2 4	1 1	5 9
Rockford, III.	63	42	11	2	1	-	6	Los Angeles, Calif.	362	251	79	16	7	9	9
South Bend, Ind.	43	34	7	1	i	-	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	-	-	6	San Francisco, Calif. San Jose, Calif.	U 181	U 121	U 43	U 11	U	U 6	U 28
Duluth, Minn.	38	28	10	-	-	-	4	San Jose, Calif. Santa Cruz, Calif.	181 25	121	43 4	2	1	· ·	28 3
Kansas City, Kans.	28	20	4	2	1	1	1	Seattle, Wash.	101	62	29	7	2	1	4
Kansas City, Mo.	105	73	19	4	2	7	4	Spokane, Wash.	64	52	9	1	-	2	8
Lincoln, Nebr. Minneapolis, Minn.	43 41	34 27	9 10	1	2	1	2 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.	Ü	Ü	Ü	ŭ	Ŭ	Ū	ύ		, , , ,	-,500	_,				
St. Paul, Minn.	54	41	6	4	2	1	2								
Wichita, Kans.	82	42	25	9	2	4	9								

U: Unavailable. -: No reported cases.

Or. Orlavaliable.
 1.No reported classes.
 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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