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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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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

* Epidemiologically linked to another laboratory-confirmed measles case.









* 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



[†]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) houseto-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).

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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 because of the shortage and to recall them when vaccines because 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

	Regis meeti key ele	stries ng all ements	Regis meetir key ele	stries ng ≥2 ments
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% (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 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.

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.

^{*} 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 \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 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), n indicators, by year — Angola, 1998–2002*	umber of confirmed poliovirus cases, and key surveillance
No. confirmed	% of persons with

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. [§]Two 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 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[§] 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

[§] 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.





* 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



* 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.

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	-	-
Cyclosporiasis	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.

* 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.

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							Escherichia coli			
	AID	s	Chlan	nydia⁺	Cryptos	poridiosis	015	7:H7	Shiga Toxi Serogroup	n Positive, o non-O157
Reporting Area	Cum. 2002§	Cum. 2001	Cum. 2002	Cum. 2001	Cum. 2002	Cum. 2001	Cum. 2002	Cum. 2001	Cum. 2002	Cum. 2001
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 N.H.	23 20	26 23	1,000 1.032	832 896	6 19	10 4	26 18	19 22	2	- 3
Vt.	8	11	567	389	19	25	5	10	-	1
Mass. R.I.	519 71	532 61	7,046 1,789	6,580 1,860	29 13	38	69 5	82 9	8	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	-	-
N.Y. City	404 3.210	977 3.484	10,475 17.942	8,663	58 72	59 82	104 7	74 13	-	-
N.J.	925	1,129	5,696	8,503	8	10	15	40	-	-
Pa.	1,080	980	18,654	16,509	31	46	IN 000	IN	-	-
Ohio	2,494 453	302	20,165	23,627	350 82	1,027	382 78	450 89	8	6 4
Ind.	347	197	10,335	9,976	27	47	34	56	-	-
Mich.	398	325	20,318	27,880	48 67	424	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
lowa	90 54	92 54	2,765	2,946	16	92 49	95 56	96 41	9	-
Mo.	189	263	9,660	9,104	22	29	41	34	Ν	Ν
S. Dak.	3	18	1,396	1,156	7	6	27	9 15	- 1	- 1
Nebr.	43	51 64	1,857 4 321	2,172	26 10	21	16	34	1	1
	7 537	7 650	92 021	96 368	210	228	157	138	- 22	17
Del.	131	142	1,681	1,871	213	2	4	3	-	-
Md.	1,066 371	1,067 512	9,912 2 171	9,718 2 074	15 4	28	14	10	-	-
Va.	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	-	-
Ky.	173	220	5,607	5,795	3	3	19	49	-	-
Ienn. Ala.	483 197	361 308	10,382	9,807 8.751	46 37	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	-	-
La.	693	548	12,663	11,750	4	7	1	6	-	-
Okla.	133	153	7,197	6,919 46 326	8	7	15 18	19 105	-	-
	790	910	30 207	20,020	106	95	103	164	- 11	10
Mont.	8	13	1,387	1,288	4	7	13	10	-	-
Idaho Wyo	18	17	1,599 575	1,198 536	19 7	9	27	25 5	4	2
Colo.	157	211	9,048	8,527	40	25	56	65	2	5
N. Mex. Ariz	53 327	87 337	3,990 9.664	4,032 9,399	15 12	17	4 23	9 19	3	3
Utah	43	81	1,637	1,242	6	24	46	22	-	-
Nev.	1/8	162	2,397	3,276	3	5	18	9	-	-
Wash.	3,017 302	2,987 325	77,425 9,258	84,246 8,826	191 37	172 U	297 89	218 54	5	6
Oreg.	216	119	4,400	4,760	26	24	60	31	5	6
Alaska	∠,416 17	∠,491 14	2,294	1,754	-	144	5	3	-	-
Hawaii	66	38	2,749	2,537	1	3	31	10	-	-
Guam PB	2 668	9 732	- 1 635	267 1 687	-	-	N	N 1	-	-
V.I.	66	2	98	115		-	-	-	-	
C.N.M.I.	2	U	132	U	-	U	- -	U	-	U

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

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.

(34th Week)*							Haemophilus influenzae,				
	Escheri	ichia coli	_				Inva	Age <5	Years		
	Not Serce	in Positive, ogrouped	Giardiasis	Gono	rrhea	All Se	Ages, erotypes	Serot B	уре		
Reporting Area	Cum. 2002	Cum. 2001	Cum. 2002	Cum. 2002	Cum. 2001	Cum. 2002	Cum. 2001	Cum. 2002	Cum. 2001		
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. Vt.	-	- 1	29 82	69	47	6 5	4	-	-		
Mass.	-	-	497	2,124	2,008	37	36	-	1		
R.I. Conn	-	-	92 189	556 1 837	477 1 506	10 15	3 30	-	-		
			1 966	24 166	26 287	183	144	з	3		
Upstate N.Y.	-	-	680	5,289	5,382	81	47	2	-		
N.Y. City	-	-	758	7,287	8,219	44	38	-	-		
N.J. Pa.	-	-	347	3,799 7,791	4,494 8,192	38 20	32 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	-		
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. Iowa	-	-	381 160	1,806	1,638	30 1	25	1	-		
Mo.	N	N	298	5,466	5,511	9	16	-	-		
N. Dak.	-	2	11	31	23	-	4	-	-		
S. Dak. Nebr.	-	-	45 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	-	-	-	-		
D.C.	-	-	29	5,474 1,797	1,859			2	-		
Va.	-	-	142	5,617	7,366	22	19	-	-		
W.Va. N.C.	-	-	31	628 10.606	409	12 24	10 37	-	1		
S.C.	-	-	56	4,804	7,395	9	4	-	-		
Ga.	-	-	575	9,763	11,167	72 71	65 52	-	-		
FIA.	-	-	043	10,100	13,462	/1	52	2	-		
E.S. CENTRAL Kv.	7	1	219	18,297	20,915	46	59	1	-		
Tenn.	-	-	97	5,978	6,536	23	29	-	-		
Ala. Miss	-	-	122	5,907	6,884 5 217	14	26	1	-		
			100	20.951	3,217	41	20	-	- 1		
Ark.	-	-	89	2,439	3,052	1		-	-		
La.	-	-	2	7,795	8,209	3	6	-	-		
Okia. Tex.	-	-	38	3,059	3,183	32 5	32	- 2	- 1		
ΜΟΙ ΙΝΤΔΙΝ	13	1	937	6 4 3 8	6 761	132	108	2	4		
Mont.	-	-	57	60	78	-	-	-	-		
Idaho	-	-	70	58	53	2	1	-	-		
Colo.	13	1	306	2,201	2,083	26	31	-	-		
N.Mex.	-	-	108	821	635	19	16	-	1		
Ariz. Utah	-	-	124 172	2,371	2,589	63 15	43	1	1		
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	-		
Calif.	-	-	209	12.813	15.056	40 19	47	- 1	4		
Alaska	-	-	59	380	255	1	5	-	-		
Hawaii	-	-	67	408	413	27	21	-	-		
Guam PR	-	-	- 11	-	31	-	- 1	-	-		
V.I.	-	-	-	243 25	19	-	-	-	-		
Amer. Samoa	U	U	U	U	U	U	U	U	U		
	-	U	1	13	U	-	U	-	U		

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

N: Not notifiable. U: Unavailable. - : No reported cases. * Incidence data for reporting year 2001 and 2002 are provisional and cumulative (year-to-date).

	На	emophilus in	<i>fluenzae</i> , Invas	sive							
		Age <	<5 Years		Hepatitis (Viral, Acute), By Type						
	Non-Se	rotype B	Unknown	Serotype		A	ļ	В	C; Non-A	A, Non-B	
Reporting Area	Cum. 2002	Cum. 2001	Cum. 2002	Cum. 2001	Cum. 2002	Cum. 2001	Cum. 2002	Cum. 2001	Cum. 2002	Cum. 2001	
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	- 10	-	
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 4	3	-	-	200 86	285 198	453	418	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. Mich	11	11	-	- 1	192	273	67 365	93 388	9 53	9 103	
Wis.	1	6	-	-	105	51	-	26	-	-	
WN CENTRAL	2	2	3	6	228	250	138	135	606	800	
Minn.	2	1	1	2	32	20	13	12	13	7	
lowa	-	-	-	-	58	25	12	15	1		
Mo.	-	-	2	4	65	53	78	77	580	784	
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	
D.C.	-	-	-	-	56	33	07 14	93 11	-	- 5	
Va.	3	5	-	-	72	89	136	101	2	-	
W.Va.	-	1	1	-	13	8	18	20	1	9	
N.C. S.C.	3	2	-	4	151	56	65	22	18	14	
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	
Ala	6	6	- 1	- 1	66 25	98	80 50	153	25	52	
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	
Okia. Tex	6 2	5	-	-	34 161	92 433	234	74 325	4 1 907	4 421	
	-	10	7	4	101	510	410	200	1,007	41	
Mont	- 29	-	-	-	400	516 9	412	320	- 00	41	
Idaho	1	-	-	-	23	48	6	9	-	2	
Wyo.	-	-	-	-	2	4	15	1	8	4	
N Mey	2	7	- 1	- 1	69 13	52 28	58 106	71	28	5 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	
vvasn. Oreg	1	1	-	1	118	88	46 01	89	16 17	16 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.K. VI	-	1	-	-	70	128	61	176	-	1	
Amer. Samoa	U	U	U	U	U	U	U	U	U	U	
C.N.M.I.	-	Ū	-	Ū	-	Ū	37	Ū	-	Ū	

N: Not notifiable. U: Unavailable. -: No reported cases. * Incidence data for reporting year 2001 and 2002 are provisional and cumulative (year-to-date).

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(34th Week)*									Maa	
	Legior	nellosis	Lister	riosis	Lyme	Disease	Mal	aria	To	tal
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. Vt. Mass. R.I.	54 2 4 21 18 1	36 4 6 4 11 2	38 4 2 19 1	33 2 2 17 1	1,294 53 151 15 665 158	2,745 48 7 891 218	43 3 6 2 15 3	61 4 2 - 32 3		5 - 1 3 -
Conn.	8	9	8	11	252	1,581	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 Ohio Ind. III. 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. N. Dak. S. Dak.	32 6 7 10 - 2	38 9 6 14 1 3	8 - 1 5 1	9 - - 6 -	164 111 23 25	233 182 21 24 -	46 16 2 13 1	29 6 5 10 -	2 1 - 1 -	4 2 2 -
Nebr. Kans	7	4	- 1	1	1 4	4	5	2	-	-
S. ATLANTIC Del.	119 6	106 3	51	47 2	757 98	697 107	224 2	199 1	1	5
NG. Va. W.Va. N.C. S.C. Ga. Fla.	13 5 13 N 7 5 10 54	23 7 17 N 7 5 9 33	- - - 4 8 10 16	- 9 5 2 4 8 9	17 67 8 70 10 1 43	430 8 97 9 26 3 -	14 17 3 12 5 59 42	13 38 1 9 5 33 16		- 1 - - 1
E.S. CENTRAL Ky. Tenn. Ala. Miss.	23 9 8 6	45 11 21 9 4	9 2 4 3	15 4 6 5	34 13 14 7	39 17 10 6 6	13 5 3 3 2	23 8 8 4 3		2 2 - -
W.S. CENTRAL Ark. La. Okla. Tex.	8 - 1 3 4	17 - 3 8	11 - 6 5	29 1 - 2 26	16 2 1 - 13	66 - 4 - 62	9 1 3 5	67 3 5 2 57	1 - - 1	1 - - 1
MOUNTAIN Mont. Idaho Wyo. Colo. N. Mex.	27 3 - 1 6 1	33 2 2 11 2	21 - 2 - 4 2	29 - 1 8 6	16 - 3 - 5 1	7 - 4 1 -	34 1 - 19 2	35 2 3 - 19 3	1 - - - -	1 - 1 - -
Utah Nev.	8 1	5 3	3 1	1 6	4	- 2	3 4 3	23	-	-
PACIFIC Wash. Oreg. Calif. Alaska Hawaii	47 5 N 42 -	40 6 N 29 1 4	68 7 8 47 - 6	91 5 6 76 - 4	82 6 12 63 1 N	71 4 7 58 2 N	132 12 7 105 2 6	149 4 12 123 1 9	4 - 3 - 1	50 15 26 - 7
Guam P.R. V.I. Amer. Samoa C.N.M.I.	- - U -	2 - U U	- 1 - U	- - - U U	N U	- N - U U	- - - U	- 3 - U U	- - - U	- - U U

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

 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.

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

N: Not notifiable. -: No reported cases. * Incidence data for reporting year 2001 and 2002 are provisional and cumulative (year-to-date).

<u>(</u> ••••••)									
	Rocky N Spotted	lountain d Fever	Rut	pella	Conge Rube	enital ella	Salmon	Salmonellosis	
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.	-	1	-	-	-	-	79	126	
Vt. Maaa	-	-	-	-	-	-	44	47	
R.I.	-	-	-	-	-	-	104	80	
Conn.	-	-	-	-	-	-	260	286	
MID ATI ANTIC	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. Po	8	4	2	1	-	-	343	800	
га.		10	-	-	-	-	030	030	
E.N. CENTRAL	14	14	-	2	-	-	3,367	3,319	
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	
Iowa	1	2	-	1	-	-	248	209	
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	
		-	-	-	-	-	595	55	
Va.	21	16	-	-	-	-	568	896	
W.Va.	1	-	-	-	-	-	88	79	
N.C.	168	85	-	-	-	-	796	744	
5.0. Ga	42 18	10	-	2	-	-	358 1 071	539 997	
Fla.	7	3	-	1	-	-	2,301	1,479	
E S CENTRAL	56	71	_		1		1 625	1 433	
Ky.	3	2	-	-	-	-	216	223	
Ténn.	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	-	-	-	-	536	439	
Okla.	61	16	-	-	-	-	268	260	
Tex.	-	-	2	-	-	-	635	1,670	
MOUNTAIN	12	9	-	-	-	-	1 316	1 394	
Mont.	1	1	-	-	-	-	64	49	
Idaho	-	1	-	-	-	-	89	92	
Wyo.	3	2	-	-	-	-	39	48	
N Mex	2	1	-	-	-	-	309	383 167	
Ariz.	-	-	-	-	-	-	385	393	
Utah	-	3	-	-	-	-	124	143	
Nev.	5	-	-	-	-	-	131	119	
PACIFIC	5	-	3	1	1	-	3,074	3,235	
Wash.	-	-	-	-	-	-	307	314	
Oreg. Calif	2	-	-	-	-	-	235	189 2 473	
Alaska	-	-	-	-	-	-	42	27	
Hawaii	-	-	-	1	1	-	185	232	
Guam	-	-	-	-	-	-	-	19	
P.R.	-	-	-	3	-	-	120	627	
V.I.					-				
Amer. Samoa C N M I	U -	U	U -	U	U -	U	25	U	

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

N: Not notifiable. - : No reported cases. * Incidence data for reporting year 2001 and 2002 are provisional and cumulative (year-to-date).

	Shie	gellosis	Streptoco	ccal Disease, e, Group A	Streptococcu Drug Resis	<i>is pneumoniae,</i> tant, Invasive	Streptococcus pneumoniae, Invasive (<5 Years)		
Reporting Area	Cum. 2002	Cum. Cum. 2002 2001		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 Maine N.H. Vt	190 3 8	198 6 4	146 20 27	169 10 N	12	94 - - 7	2 - N 1	32 N	
Mass. R.I. Conn.	120 7 52	136 15 31	76 14	54 8 88	N 8 -	N 3 84	N 1	N 3 29	
MID. ATLANTIC Upstate N.Y. N.Y. City N.J. Pa.	668 168 239 148 113	1,024 360 279 204 181	482 227 122 91 42	484 206 139 93 46	81 72 U N 9	127 123 U N 4	49 49 U N	78 78 U N	
E.N. CENTRAL Ohio Ind. III. Mich. Wis.	1,031 425 62 340 107 97	2,772 1,818 153 385 201 215	538 169 40 105 224	623 159 49 204 160 51	159 29 125 2 3 N	133 133 - - N	65 1 39 - N 25	81 39 42 N	
W.N. CENTRAL Minn. Iowa Mo. N. Dak. S. Dak. Nebr. Kans.	710 149 75 117 15 150 141 63	1,047 310 309 183 16 117 54 58	180 95 - 37 - 10 14 24	263 112 - 56 11 8 31 45	154 48 N 6 1 1 25 73	105 49 N 5 3 11 28	36 36 - - - N N	48 40 N - 8 - N N	
S. ATLANTIC Del. Md. D.C. Va. W.Va. N.C. S.C. Ga. Fla.	3,774 37 725 40 586 7 216 65 1,016 1,082	1,547 7 93 38 186 7 244 199 200 573	594 2 95 6 57 16 102 27 134 155	445 2 N 15 62 18 118 8 118 8 144 78	933 3 N 48 N 34 N 139 256 453	1,057 3 N 5 N 37 N 216 301 495	3 N N 1 N 2 U N N N N	4 N 3 N 1 U N N	
E.S. CENTRAL Ky. Tenn. Ala. Miss.	842 88 41 450 263	997 381 63 171 382	73 13 60	80 29 51	103 12 91	193 23 169 1	N N N	N N N	
W.S. CENTRAL Ark. La. Okla. Tex.	740 141 100 302 197	1,867 426 169 31 1,241	101 5 - 35 61	237 - 1 34 202	37 6 31 N N	220 14 206 N N	3 - 1 2 -	61 61 -	
MOUNTAIN Mont. Idaho Wyo. Colo. N. Mex. Ariz.	435 3 5 6 85 80 208	609 2 25 3 151 74 262	485 - 7 160 75 209	282 7 7 120 60 85	29 N 9 19	32 N 5 25	2 - N - - N	- N - - N	
Utah Nev. PACIEIC	25 23 1 353	43 49 1 529	28 - 396	3 - 51	1 -	- 2 2	2	-	
Wash. Oreg. Calif. Alaska Hawaii	1,000 101 66 1,147 3 36	131 76 1,274 4 44	65 N 279 - 52	N - 51	N N -	- N N - 2	N N N	N N N	
Guam PR. V.I. Amer. Samoa C.N.M.I	- 5 - U	33 14 - U	- N - U	1 N - U		-	N U	- N - U	

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

N: Not notifiable. -: No reported cases. * Incidence data for reporting year 2001 and 2002 are provisional and cumulative (year-to-date).

(34th week)^		Sur	bilic			Tunhaid			
	Primary & S	Secondary	Cong	jenital	 Tubero	culosis	Fever		
Deperting Area	Cum.	Cum.	Cum.	Cum.	Cum.	Cum.	Cum.	Cum.	
UNITED STATES	3.936	3.809	2002	335	7.407	8.793	158	220	
NEW ENGLAND Maine	87 2	34		3	244 10	308 12	11	11	
N.H. Vt	4	1	-	-	8	11 4	-	1	
Mass.	60	17	-	2	136	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.	23	15	4	3	213	228	5	14	
N.J.	81	69	17	22	319	329	12	20	
Pa.	52	60	1	-	155	179	3	4	
E.N. CENTRAL	656	666	27	48	754	900	15	28	
Ind	94 46	58 110	-	2 7	120	173	5	3	
III.	169	211	20	31	377	431	1	15	
Mich. Wis	333 14	269 18	7	5	150 41	183 47	3	5	
WN CENTRAL	64	58	-	8	342	340	6	8	
Minn.	28	25	-	2	146	143	3	4	
lowa Mo	2	4	-	- 5	17 98	18 89	- 1	-	
N. Dak.	-	-	-	-	1	3	-	-	
S. Dak.	-	-	-	-	9	8	-	-	
Kans.	4 14	16	-	1	9 62	25 54	-	-	
S. ATLANTIC	1,057	1,332	48	80	1,503	1,655	27	27	
Del. Md	9 130	10 171	-	- 3	13 175	9 141	- 5	- 8	
D.C.	58	18	1	2	-	48	-	-	
Va.	45	72	1	4	116	161	1	8	
N.C.	195	304	16	- 8	20	20	1	2	
S.C.	78	178	5	18	116	130	-	-	
Ga. Fla.	211 329	238 341	5 12	18 27	269 583	658	8 12	6	
E.S. CENTRAL	339	408	13	24	465	531	4	1	
Ky. Topp	65	29	2	-	89	80	4	-	
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	
La.	98	95	-	-		85	-	-	
Okla.	43	44	2	5	84	97	-	-	
	412	298	42	47	040	1,004	4	13	
Mont.	-	- 142	-	- 20	6	6	-	1	
Idaho	1	-	1	-	8	7	-	-	
vvyo. Colo.	- 27	- 17	- 1	- 1	2 31	3 82	- 5	-	
N. Mex.	21	11	-	2	21	43	-	-	
Ariz.	124	104	9	17	119	127	-	1	
Nev.	5	3	-	-	13	56	2	4	
PACIFIC	566	384	22	42	1,479	1,873	41	52	
Wash.	36	36	1	-	155	167	4	3	
Calif.	512	328	19	42	1,128	1,511	∠ 34	43	
Alaska	-	-	-	-	33	31	-	1	
Hawall	1	10	1	-	95	93	1	2	
Buam P.R.	139	2 175	- 10	1 7	- 33	46 95	-	2	
V.I. Amor Samoa	1	-	-	-	-	-	-	-	
C.N.M.I.	15	U	-	U	29	U	-	U	

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

N: Not notifiable. - : No reported cases. * Incidence data for reporting year 2001 and 2002 are provisional and cumulative (year-to-date).

	All Causes, By Age (Years)					, ,	All Causes, By Age (Years)								
Reporting Area	All Ages	<u>≥</u> 65	45-64	25-44	1-24	<1	P&l⁺ Total	Reporting Area	All Ages	<u>≥</u> 65	45-64	25-44	1-24	<1	P&I [†] Total
NEW ENGLAND Boston, Mass. Bridgeport, Conn. Cambridge, Mass.	487 138 23 18	327 86 15 12	107 34 5 5	39 11 3 1	6 2 -	7 4 -	53 16 - 3	S. ATLANTIC Atlanta, Ga. Baltimore, Md. Charlotte, N.C.	874 U 146 106	537 U 85 61	192 U 40 20	88 U 17 14	26 U 2 8	31 U 2 3	58 U 14 11
Fall River, Mass. Hartford, Conn. Lowell, Mass. Lynn, Mass.	17 U 22 11	12 U 18 7	3 U 4 3	1 U - 1	1 U -	- U -	2 U 2	Jacksonville, Fla. Miami, Fla. Norfolk, Va. Richmond, Va.	U 136 55 63	U 88 30 40	U 30 15 17	U 12 3 3	U 5 4	U 1 3 3	U 10 1 2
New Bedford, Mass. New Haven, Conn. Providence, R.I. Somerville, Mass. Springfield, Mass.	29 35 67 2 47	20 24 46 2 33	8 6 15 - 9	1 3 4 - 4	- 2 - - 1	- 2 -	3 7 5 - 8	Savannah, Ga. St. Petersburg, Fla. Tampa, Fla. Washington, D.C. Wilmington, Del.	47 54 156 111 U	31 34 111 57 U	11 17 22 20 U	3 2 17 17 U	1 - 5 U	1 - 6 12 U	3 1 11 5 U
Waterbury, Conn. Worcester, Mass.	20 58	14 38	4 11 405	2 8	- - 21	- 1 22	- 7 115	E.S. CENTRAL Birmingham, Ala.	707 192	451 129	169 37	51 12	21 10	15 4	41 18
Albany, N.Y. Allentown, Pa. Buffalo, N.Y. Camden, N.J. Elizabeth, N.J. Frie Pa	1,937 54 19 113 U 20 44	1,310 27 16 77 U 14 37	403 15 1 21 U 6 3	8 2 9 U	2 - - U - 1	2 - 6 U -	3 1 11 U -	Knoxville, Tenn. Lexington, Ky. Memphis, Tenn. Mobile, Ala. Montgomery, Ala. Nashville Tenn	97 61 U 112 48 131	42 59 33 U 76 33 79	26 15 U 22 12 38	8 11 U 8 3 7	2 1 U 5 - 3	2 1 U 1 - 4	7 5 U 2 5
Jersey City, N.J. New York City, N.Y. Newark, N.J. Paterson, N.J. Philadelphia, Pa. Pittsburch, Pa. [§]	31 1,048 51 19 137 33	21 703 21 16 77 21	7 218 20 1 39 8	2 100 7 1 13 2	1 18 1 1 4	- 9 2 - 4 2	49 7 2 6 1	W.S. CENTRAL Austin, Tex. Baton Rouge, La. Corpus Christi, Tex. Dallas, Tex.	1,426 80 73 59 213	864 47 42 42 121	322 19 25 13 52	125 10 2 - 22	59 2 4 2 6	43 2 - 2 12	94 7 3 16
Reading, Pa. Rochester, N.Y. Schenectady, N.Y. Scranton, Pa. Syracuse, N.Y. Trenton, N.J. Utica. N.Y.	23 147 U 36 83 39 12	20 114 U 28 62 26 7	3 25 U 6 12 10 5	5 U 2 4 1	- 1 U - 2 -	- 2 U - 3 2	5 12 U 2 7 1	El Paso, lex. Ft. Worth, Tex. Houston, Tex. Little Rock, Ark. New Orleans, La. San Antonio, Tex. Shreveport, La.	83 103 316 54 51 226 39	61 62 170 31 22 147 29	6 25 81 13 7 51 7	1 3 41 8 11 15 2	1 3 13 2 11 9 1	1 10 11 - 4 -	5 7 21 4 - 11 4
Yonkers, N.Y. E.N. CENTRAL	28 1,659	23 1,104	5 348	- 130	- 44	- 30	6 104	Tulsa, Okla. MOUNTAIN Albuquerque, N.M.	129 815 127	90 553 73	23 162 26	10 61 19	5 26 6	1 13 3	16 39 5
Canton, Ohio Chicago, III. Cincinnati, Ohio Cleveland, Ohio Columbus, Ohio	43 32 U 58 109 175	25 22 U 41 55 119	8 U 9 34 36	2 U 4 7 17	- U 1 7 2	2 U 3 6 1	5 6 U 8 5 14	Boise, Idaho Colo. Springs, Colo. Denver, Colo. Las Vegas, Nev. Ogden, Utah Phoenix, Ariz	30 50 97 221 30	25 37 62 144 22 U	4 8 18 58 5 U	1 3 9 11 2 U	- 1 4 7 - U	- 1 4 1 1	1 4 6 10 1
Dayton, Ohio Detroit, Mich. Evansville, Ind. Fort Wayne, Ind.	167 190 41 62	110 108 32 47	35 51 6 8	18 19 2 5	1 10 - 2	3 2 1	12 10 4 3	Pueblo, Colo. Salt Lake City, Utah Tucson, Ariz.	27 94 139	22 65 103	4 15 24	1 8 7	- 3 5	3	3 5 4
Gary, Ind. Grand Rapids, Mich. Indianapolis, Ind. Lansing, Mich. Milwaukee, Wis.	23 59 211 53 119	9 41 130 40 84	9 9 48 7 26	4 5 19 5 5	- 2 8 - 3	1 2 6 1	1 3 8 4 5	PACIFIC Berkeley, Calif. Fresno, Calif. Glendale, Calif. Honolulu, Hawaii	1,614 18 109 15 68	1,107 15 75 13 53	337 2 23 1 9	101 - 6 - 3	30 - 3 1 2	39 1 2 - 1	110 3 6 - 5
Peoria, III. Rockford, III. South Bend, Ind. Toledo, Ohio Youngstown, Ohio	59 63 43 96 56	42 49 34 70 46	12 11 7 21 6	5 2 1 3 1	1 1 2 2	- - - 1	3 6 1 6 -	Long Beach, Calif. Los Angeles, Calif. Pasadena, Calif. Portland, Oreg. Sacramento, Calif.	362 19 148 190	42 251 12 92 137	10 79 2 31 35	9 16 2 19 13	4 7 1 3	1 9 2 5 2	9 - 3 9 15
W.N. CENTRAL Des Moines, Iowa Duluth, Minn. Kansas City, Kans. Kansas City, Mo. Lincoln Nebr	504 31 38 28 105 43	332 21 28 20 73 34	115 9 10 4 19 9	27 1 - 2 4	14 - 1 2	16 - - 1 7	38 6 4 1 4 2	San Francisco, Calif. San Francisco, Calif. San Jose, Calif. Santa Cruz, Calif. Seattle, Wash. Spokane, Wash.	181 25 101 64	102 U 121 18 62 52	38 U 43 4 29 9	7 U 11 2 7 1	5 U - 1 2 -	3 U 6 - 1 2	9 U 28 3 4 8
Minneapolis, Minn. Omaha, Nebr. St. Louis, Mo. St. Paul, Minn. Wichita, Kans.	41 82 U 54 82	27 46 U 41 42	10 23 U 6 25	1 6 U 4 9	2 5 U 2 2	1 2 U 1 4	3 7 U 2 9	Tacoma, Wash. TOTAL	93 10,0231	62 6,585	22 2,157	5 781	- 257	4 226	8 652

U: Unavailable. -: No reported cases.

Or Unavailable. --No reported cases.
* Mortality data in this table are voluntarily reported from 122 cities in the United States, most of which have populations of ≥100,000. A death is reported by the place of its occurrence and by the week that the death certificate was filed. Fetal deaths are not included.
† Pneumonia and influenza.
§ Because of changes in reporting methods in this Pennsylvania city, these numbers are partial counts for the current week. Complete counts will be available in 4 to 6 weeks.
† Total includes unknown ages.

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