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Wild Poliovirus Type 1 and Type 3 Importations — 15 Countries, Africa, 2008–2009

The Global Polio Eradication Initiative began in 1988; by 2006, indigenous transmission of wild poliovirus (WPV) type 2 infection had been interrupted globally, and indigenous transmission of type 1 and 3 (WPV1 and WPV3) infection had been interrupted in all but four countries worldwide (Afghanistan, India, Nigeria, and Pakistan) (1). Despite this success in controlling indigenous transmission, during 2002-2006, 20 previously polio-free countries* in Africa and Asia had importations of WPV1 originating from Nigeria (2–4), and three polio-free countries in Africa had WPV1 importations originating from India (1). By the end of 2007, control efforts in all countries except Angola, Chad, Democratic Republic of the Congo (DRC), Niger, and Sudan had stopped transmission of WPV1 caused by these importations. However, during 2008–2009, multiple importations of WPV from countries with ongoing transmission resumed in Africa. This report describes 32 WPV importations into 15 African countries, resulting in 96 polio cases during January 2008-March 2009 and persistent WPV transmission in five previously polio-free African countries (5). As with the 2002–2006 resurgence, all of the importations originated from Nigeria or India, but more rapid WPV identification and response resulted in substantially fewer polio cases than reported during 2002–2006. Sensitive surveillance and continued rapid response supplemental immunization activities (SIAs)[†] are key to limiting further WPV spread, interrupting the outbreaks, and allowing the polio prevention focus in Africa to return to eradicating polio in countries with persistent WPV transmission.

WPV Importations, 2008-2009

Comprehensive genomic sequencing provided by the global polio laboratory network (6) allows tracing of the origins of virus importations and estimation of the duration of circulation in a chain of transmission. An importation event is defined as detection of one or more polio cases in a country resulting from WPV transmission that genetic analysis shows to have first circulated in another country. An outbreak associated with an importation event is defined as two or more polio cases caused by WPV genetically related to the identified imported WPV case with earliest onset.

During January 2008–March 2009, 32 importations of WPV1 and WPV3 resulted in 96 polio cases in 15 African countries (Figure, Table 1). Of these, 29 WPV importations originated from Nigeria, with WPVs either imported directly or after transmission through another country, resulting in

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^{*}Countries with no evidence of indigenous WPV transmission for ≥1 year and subsequent cases determined to be of external origin by genomic sequencing analysis.

[†] Mass campaigns conducted for a brief period (days to weeks), during which 1 dose of oral poliovirus vaccine is administered to all children aged <5 years, regardless of vaccination history.

[§] The sequence of the complete VP1 coding region is determined by using automated cycle-sequencing procedures described previously (7) and by comparing the resulting sequences with those in a database of all recent poliovirus isolates. The origins of virus importation are then derived via phylogenetic analysis.

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68 polio cases. Three WPV importations originated from India, either imported directly or after transmission through another country, resulting in 28 cases. As of March 24, 2009, multiple outbreaks resulting from importations were ongoing. Three regions of Africa were affected by importations during 2008–2009: West Central Africa, the Horn of Africa, and South Central Africa.

West Central Africa. During 2008–2009, increased circulation of WPV1 in Nigeria resulted in WPV1 importations into eight countries. WPV1 was imported directly from Nigeria or indirectly through neighboring countries into Benin, Burkina Faso, Chad, Côte d'Ivoire, Ghana, Mali, Niger, and Togo (Figure, Table 1). The number of reported polio cases to date resulting from a single importation event in West Central Africa during 2008–2009 ranged from one to seven (Table 1). Niger reported five WPV1 and five WPV3 importation events originating from Nigeria; of these, subsequent spread within Niger was identified for three events. One WPV1 importation into Chad from Nigeria occurred in 2008. In addition, persistent circulation of WPV imported into Chad and Niger from Nigeria before 2008 was detected during 2008–2009 (Table 2).

The Horn of Africa. During 2008, two WPV3 importations into western Sudan occurred. The WPV3 in both cases originated from Nigeria and transmitted through Chad, and resulted in two isolated polio cases with no evidence of further spread (Table 1). Other cases occurred in the Horn of Africa during 2008 that were traceable to previous importations. In 2003, a WPV1 importation event originating in Nigeria caused an outbreak of 51 polio cases in Chad. Transmission was then imported to Sudan in mid-2004, resulting in 147 polio cases in that country during 2004–2005. Subsequent related transmission occurred in seven other countries (Eritrea, Ethiopia, Indonesia, Kenya, Saudi Arabia, Somalia, and Yemen) (2-4). The Sudan outbreak subsided, and no additional related WPV1 polio cases attributable to the 2004 importation into Sudan were detected until April 2008, after which 53 additional cases were detected: three cases in Ethiopia, two in northern Kenya, five in Uganda (Table 1), and 43 in Sudan itself (Table 2). Since 2004, a total of 190 polio cases in Sudan have resulted from the 2004 importation (Table 2), despite multiple SIAs.

South Central Africa. Two WPV1 importation events and one WPV3 event in Angola, all originating from India, resulted in WPV transmission during 2008–2009. An outbreak in Angola that followed WPV1 importation in 2005 ended in 2007 with 19 confirmed cases but led to 58 cases in DRC

[¶] In Sudan during 2004–2005, transmission of another chain of WPV1 accounted for five additional polio cases, and a previously undetected lineage of WPV3 accounted for three other polio cases.

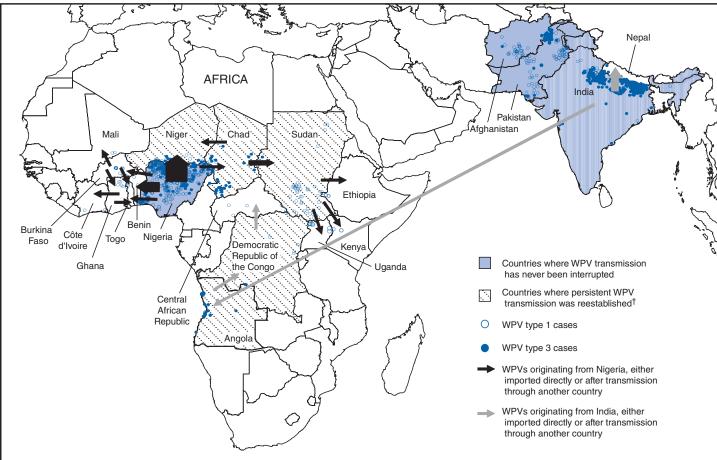


FIGURE. Wild poliovirus (WPV) cases and importation routes* — worldwide, 2008-2009

during 2006–2008** and three cases in the Central African Republic in 2008 (Table 1). A second WPV1 importation into Angola originating from northern India was associated with 15 polio cases in Angola during April 2007–February 2009 (Table 2). A WPV3 importation, also originating from northern India, resulted in 24 polio cases in Angola and one case in DRC in 2008 (Figure, Table 1).

Vaccination Coverage

Vaccination histories of children aged 6–59 months with acute flaccid paralysis (AFP) for which specimen testing has not indicated WPV infection (i.e., nonpolio AFP [NPAFP]) have been used as a surrogate estimate of oral polio vaccine (OPV) coverage with ≥3 total OPV doses of the overall target

population. The median percentage of coverage for children aged 6–59 months with NPAFP in countries affected by importations was 74% in 2008 (range: 54%–90%) (Table 1) (2).

Timeliness of Detection and Response

In the 15 countries with 32 importation events during 2008–2009, the median interval from onset of paralysis in the first identified case to laboratory confirmation of polio was 31.5 days (range: 10–61 days) (Table 1), substantially lower than the median of 51 days reported during 2002–2005 polio resurgence (2). Similarly, the median interval from laboratory confirmation to first large-scale vaccination response was 27.5 days (range: 1–91), lower than the median of 37 days reported during 2002–2005 (2). Response SIAs in Africa in 2008 were synchronized among 12 countries. After detection in 2009 of new polio cases in Kenya and Uganda, synchronized SIAs for these and neighboring countries were conducted in March and are planned again for April and May.

^{*} Importation routes (not each importation event) indicated by arrows. Width of arrow corresponds to number of importation events. Genomic sequencing analysis identified Nigeria as the country of WPV origin in 29 importation events, and India in three events. Importations across the Pakistan-Afghanistan border are not included. Data as of March 24, 2009.

[†] Countries with no evidence of indigenous WPV transmission for ≥1 year, subsequent cases determined to be of external origin, and reestablished transmission of WPV for >12 months.

^{**} Eighteen polio cases resulted from three separate WPV1 importations into DRC from Angola during 2006–2007. A fourth importation of WPV1 into DRC resulted in 40 cases during December 2006–August 2008 (Table 2).

TABLE 1. Importations of wild poliovirus (WPV) type 1 and type 3 into 15 previously polio-free* countries — Africa, 2008–2009

Region/Country	Importation event [†] by WPV type	Onset date of first polio case	Onset date of most recent polio case	Most recent country of WPV circulation by genomic sequencing	No. of polio cases to date	Interval from onset date of first case to date of confirmation (days)	Interval from confirmation to first large-scale vaccination response (days)§	Estimated OPV3 coverage during 2007 (%) [¶]	Surrogate OPV coverage of overall target population during 2008 (%)**
West Central Africa									
Benin	WPV1	3/19/2008	_	Nigeria	1	35	26	64	53
	WPV1	6/30/2008	_	Nigeria	1	37	2	_	_
	WPV1	11/3/2008	2/11/2009	Nigeria	6	43	73	_	_
	WPV3	12/1/2008	_	Nigeria	1	30	58		
Burkina Faso	WPV1	6/6/2008	_	Nigeria	1	49	91	99	64
	WPV1	11/4/2008	1/15/2009	Togo	4	42	45	_	_
	WPV1	11/16/2008	1/25/2009	Benin	6	31	44	_	_
Chad	WPV1	11/18/2008	_	Nigeria	1	45	62	36	45
Côte d'Ivoire	WPV1	12/24/2008	2/11/2009	Ghana	2	35	30	75	24
Ghana	WPV1	9/15/2008	_	Burkina Faso	1	29	2	94	41
	WPV1	9/20/2008	11/8/2008	Nigeria	7	25	1	_	_
Mali	WPV1	8/30/2008	1/4//2009	Burkina Faso	2	61	28	62	53
Niger	WPV1	1/23/2008	_	Nigeria	1	24	7	55	68
3 -	WPV1	1/5/2008	_	Nigeria	1	23	26	_	_
	WPV1	2/25/2008	4/12/2008	Nigeria	2	37	38	_	_
	WPV1	4/11/2008	_	Nigeria	1	35	28	_	_
	WPV1	5/20/2008	_	Nigeria	1	45	14	_	_
	WPV3	10/10/2008	_	Nigeria	1	20	27	_	_
	WPV3	12/6/2008	2/17/2009	Nigeria	3	53	30	_	_
	WPV3	12/10/2008	1/5/2009	Nigeria	3	30	49	_	_
	WPV3	1/3/2009	_	Nigeria	1	41	14	_	_
	WPV3	2/2/2009	_	Chad	1	30	23	_	_
Togo	WPV1	10/16/2008	2/3/2009	Burkina Faso	6	24	34	78	47
1090	WPV1	1/26/2009	2/3/2009	Ghana	2	22	10	_	_
Horn of Africa	*** * *	172072000	2/0/2000	Griaria	_		10		
Ethiopia	WPV1	4/4/2008	4/27/2008	Sudan	3	32	29	71	25
Kenya	WPV1	2/7/2009	2/8/2009	Sudan	2	10	19	76	28
Sudan	WPV3	7/6/2008		Chad	1	24	26	84	83††
Gadan	WPV3	12/16/2008	_	Chad	1	30	32		_
Uganda	WPV1	1/28/2009	2/18/2009	Sudan	5	34	5	59	35
South Central Africa	*** * *	1,20,2000	2,10,2000	Jagan	0	0.1	Ü	00	00
Angola	WPV3	3/19/2008	11/17/2008	India	24	26	32	83	31
CAR§§	WPV1	4/6/2008	12/30/2008	DRC ^{¶¶}	3	15	15	47	34
DRC	WPV3	10/18/2008	12/30/2006 —	Angola	1	41	20	87	39

^{*} Countries with no evidence of indigenous WPV transmission for ≥1 year and subsequent cases determined to be of external origin by genomic sequencing analysis.

Persistent Transmission After Importation

Five previously polio-free countries (Angola, Chad, DRC, Niger, and Sudan) had WPV importation events before 2008 that resulted in persistent transmission for ≥ 12 months, extending into the period 2008–2009 (Table 2). As an indicator of weaker routine and SIA vaccination in these five countries, the median proportion of children aged 6–59 months with NPAFP and a vaccination history of ≥ 3 total OPV doses during 2008 was 64%, compared with 75% for all other countries with cases following importation during 2008–2009. Among

these five countries, Angola, Chad, and Sudan have been the source of multiple WPV importations to neighboring countries and also have reported polio cases in their own countries since November 2008. Deficiencies in AFP surveillance^{††} and SIA

[†] Detection of one or more polio cases resulting from WPV determined to be of external origin. Data as of March 24, 2009.
§ Where ≥25% of children were targeted for vaccination.

World Health Organization/UNICEF estimate of vaccination coverage with 3 doses of live, attenuated oral polio vaccine (OPV3) by age 12 months, on the basis of country reports and most recent survey data.

^{**} The percentage of children aged 6–59 months with nonpolio acute flaccid paralysis (specimen testing does not indicate WPV infection) who have received ≥3 doses of OPV; these national data might mask vaccination coverage weaknesses at subnational levels.

^{††} For Southern Sudan, 74%.

^{§§} Central African Republic.

¹¹ Democratic Republic of the Congo.

^{††} AFP surveillance quality is monitored by performance indicators that suggest the ease by which any WPV transmission will be detected. The current World Health Organization (WHO) targets are a NPAFP detection rate of >2 cases per 100,000 population aged <15 years and adequate stool specimen collection from >80% of AFP cases, in which two specimens are collected >24 hours apart, both within 14 days of paralysis onset, and shipped on ice or frozen ice packs to a WHO-accredited laboratory, arriving in good condition. National data might mask surveillance system weaknesses at subnational levels.

TABLE 2. Pre-2008 importations of wild poliovirus (WPV) type 1 and type 3 with persistent transmission periods (≥12 months) five previously polio-free* countries, Africa, 2008-2009

Region/Country	Importation event [†] by WPV type	Onset date of first polio case	Onset date of most recent polio case	Most recent country of WPV circulation by genomic sequencing	No. of resulting polio cases to date (no. during 2008–2009)	Nonpolio acute flaccid paralysis (NFAFP) rate per 100,000 population aged <15 years, 2008§	% adequate specimen collection, 2008¶	Longest period between detected WPV cases (mos)	No. of SIAs** conducted since WPV confirmation
West Central Africa									
Chad	WPV1	5/18/2007	8/13/2008	Nigeria	6 (1)	3.8	84	15	7
	WPV3††	11/15/2007	12/26/2008	Nigeria	28 (26)			3	5
Niger	WPV1	3/5/2007	4/2/2008	Nigeria	8 (2)	4.9	84	6	8
Horn of Africa									
Sudan	WPV1	5/20/2004	2/25/2009	Chad	190 (43)	2.8	94	36	>20
South Central Africa									
Angola	WPV1	4/25/2007	2/4/2009	India	15 (5)	3.7	94	6	12
DRC§§	WPV1	12/17/2006	8/5/2008	Angola	40 (4)	6.0	88	3	10

§§ Democratic Republic of the Congo.

implementation in certain subnational areas noted in technical reviews have not been corrected in the three countries. Efforts are under way to strengthen AFP surveillance and to enhance SIA implementation in these countries through examination of operations by technical advisory committees, improved oversight by international consultants, and strengthened planning and supervision of SIA and routine vaccination delivery.

Reported by: Global Polio Laboratory Network, Polio Eradication Dept, World Health Organization, Geneva, Switzerland. Div of Viral Diseases, Global Immunization Div, National Center for Immunization and Respiratory Diseases, CDC.

Editorial Note: During January 2008 to March 2009, four countries in Africa (Angola, Chad, Nigeria, and Sudan) were the source of repeated WPV importation into other countries on the continent. In Angola, Chad, and Sudan, indigenous WPV circulation appeared interrupted before 2002, but ongoing transmission was reestablished during 2004-2008 after WPV importation (2). In Angola, Chad, Nigeria, and Sudan, health infrastructure is weak, routine vaccination coverage in certain areas is low, and multiple SIAs have failed to reach a substantial proportion of children in critical locales because of inadequate planning and implementation. Angola, Chad, and Sudan all have experienced civil war in recent years; Chad and Sudan continued to have civil unrest during 2008–2009.

Nigeria has been the major reservoir of both WPV1 and WPV3 circulation for further spread in Africa during 2008– 2009 and of WPV1 during 2002-2006 (2-4). Indigenous WPV transmission has never been interrupted in Nigeria. Chronically weak routine vaccination and SIA implementation were compounded during 2003–2004 by a decrease in vaccine acceptance and an increase in WPV transmission; during that period, misconceptions about the safety of OPV led to loss of public confidence and suspension of SIAs in some northern states (8). The continuing polio prevention challenge in Nigeria is being addressed through a reinvigorated federal government effort to engage local community leadership and enhanced state and local government oversight of SIA implementation (8).

During 2005–2008, Angola received WPV importations on three occasions from India and was the source of polio cases in the DRC during 2006-2008, the Central African Republic in 2008, and Namibia in 2006 (1,9). The exact modes of WPV transmission from India to Angola have not yet been identified, but studies are under way to determine what travel factors might be associated. Although WPV3 is less commonly associated with importation events than WPV1 (which is more likely to cause paralytic disease and have a wide geographic spread), both long-distance importation of WPV3 and transmission across country borders occurred in Africa during 2008-2009.

The outbreaks associated with WPV importations during 2008-2009 have tended to be smaller than those observed during 2002–2005, when 47 importation events originating from Nigeria affected 16 countries in Africa and resulted in 1,335 polio cases (2). The fewer number of polio cases resulting from the more recent importations likely can be attributed to more timely laboratory confirmation (2), more rapid initiation of SIAs, and improved coverage with OPV in the targeted population. A surrogate indicator of OPV coverage is the percentage

^{*} Countries with no evidence of indigenous WPV transmission for ≥1 year and subsequent cases determined to be of external origin by genomic sequencing analysis.

† Detection of one or more polio cases resulting from WPV determined to be of external origin. Data as of March 24, 2009.

§ The current World Health Organization (WHO) operational target rate is >2 cases per 100,000 population aged <15 years; these national data might mask vaccination coverage weaknesses at subnational levels.

The WHO target is adequate stool specimen collection from >80% of NFAFP cases, in which two specimens are collected >24 hours apart, both within 14 days of paralysis onset, and shipped on ice or frozen ice packs to a WHO-accredited laboratory, arriving in good condition; these national data might mask vaccination coverage weaknesses at subnational levels.

Supplementary immunization activities. These are mass campaigns conducted for a brief period (days to weeks), during which 1 dose of oral poliovirus vaccine is administered to all children aged <5 years, regardless of vaccination history.

^{††} An additional WPV3 importation event occurred in Chad with origin in Nigeria and transmission of nearly 12 months, resulting in 11 polio cases, with onset of the first case on November 27, 2007, and onset of the most recent case on November 18, 2008.

of children aged 6–59 months with NPAFP who have received ≥3 total doses of OPV; in the 15 countries affected by WPV importation during 2008–2009, the median was 74%, (range: 54%–90%) in 2008 compared with 55% (range: 31%–83%) for these same countries in 2004. Critical to early recognition of WPV importation and timely response is a sensitive AFP surveillance system that meets WHO performance criteria at the lowest subnational level.

Early recognition and response to WPV transmission limit the size of affected areas within a country, and enable more rapid control of an outbreak (10). SIAs are planned to continue in these affected countries and neighboring areas in 2009. WPV importations from reservoir countries into polio-free areas will continue to occur until transmission is interrupted globally. The risk for importation is greatest for countries adjacent to those countries where WPV transmission continues; however, globalized transportation and international migration pose a risk for WPV reintroduction for all countries. Recent findings of WPV in sewage samples in Switzerland and Egypt, where no polio cases have been detected since 1984 and 2004, respectively, confirm that long-distance importations can occur and that high levels of vaccination coverage limit local transmission (5,6). All polio-free countries are advised to maintain sensitive, efficient AFP surveillance systems in all areas to detect importations rapidly and to maintain sufficient levels of immunity against polioviruses through routine vaccination programs or, where necessary, SIAs. National authorities should prepare and update plans for timely, large-scale, high-quality response SIAs should importations occur (10).

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Chlamydia Screening Among Sexually Active Young Female Enrollees of Health Plans — United States, 2000–2007

Chlamydia trachomatis infection is the most common bacterial sexually transmitted disease (STD) in the United States, with more than 2.8 million new cases estimated to occur each year (1). During 2007, approximately 1.1 million cases of chlamydia were reported to CDC; more than half of these were in females aged 15-25 years (2). Untreated chlamydia can progress to pelvic inflammatory disease (PID), infertility, ectopic pregnancy, and chronic pelvic pain. In 1989, the U.S. Preventive Services Task Force (USPSTF) recommended routine chlamydia screening of sexually active young women (3).* To evaluate the rates of chlamydia screening among sexually active young females, CDC analyzed data reported by commercial and Medicaid health plans to the Healthcare Effectiveness Data and Information Set (HEDIS) during 2000–2007. The percentage of enrolled sexually active females who were screened for chlamydia was estimated for each of 41 states that had at least five health plans reporting HEDIS chlamydia screening data and for four U.S. geographic regions. Nationally, the annual screening rate increased from 25.3% in 2000 to 43.6% in 2006, and then decreased slightly to 41.6% in 2007. The regional rate of chlamydia screening in 2007 was highest in the Northeast (45.5%) and lowest in the South (37.3%). Increased screening by health-care providers is necessary to reduce the burden of chlamydial infection in the United States.

The National Committee for Quality Assurance (NCQA), a private not-for-profit organization, monitors the quality of U.S. health plans using data that are submitted voluntarily to HEDIS by health plans annually.† HEDIS is used by 90.0% of U.S. health plans to evaluate the quality of health-care services and benchmark performance. During 2000–2007, commercial plans and Medicaid plans reported health services data to HEDIS, including annual chlamydia screening. These health plans were a subset of all health plans in the United States and represented 44.3% (89.5 million of the U.S. population) of commercial enrollees and 24.9% (9.8 million) of Medicaid enrollees in 2007. The 99.3 million enrollees represented 41.1% of the private and Medicaid insured U.S. population (241.5 million) in 2007. The number of health plans reporting

^{*}Current USPSTF recommendations for screening for chlamydial infections are available at http://www.ahrq.gov/clinic/uspstf07/chlamydia/chlamydiars.

[†] Additional information about HEDIS and NCQA quality measurement programs is available at http://www.ncqa.org/tabid/59/default.aspx.

data to HEDIS increased substantially from 2006 to 2007, from approximately 500 plans to approximately 800. All health plans that submit chlamydia screening data provide screening as a benefit to enrollees, although they might require a copayment for the service.

HEDIS has included annual chlamydia screening rates since 1999. Annual chlamydia screening rates were measured among sexually active females aged 16–25 years using medical claims, health-care visit data, and pharmacy data submitted by the health plans to NCQA. For the HEDIS measure, sexually active females were defined as those who had a claim or visit for pregnancy; contraception; STD diagnosis, screening, or treatment; or cervical cancer screening. A woman was counted as having a test if she had a claim or health-care visit for any chlamydia test. Mean chlamydia screening rates were calculated by dividing the total number of enrollees screened by the total number of sexually active enrollees for each region and each state. Only states with at least five health plans reporting chlamydia screening data to NCQA for a measurement year were included in this report.

In 2007, chlamydia screening data were analyzed for 583 health plans with 2.8 million sexually active, continuously enrolled females. Among sexually active female enrollees aged 16–25 years (aged 16–26 years during 2000–2002) in commercial and Medicaid health plans in the United States, the annual chlamydia screening rate increased from 25.3% in 2000 to 41.6% in 2007 (Table).

Increases in the screening rate were observed through 2006 for enrollees in both commercial and Medicaid plans (Figure), and for enrollees in all four U.S. regions (Table). Screening rates were stable from 2006 to 2007 for the Northeast and most states. The highest regional rate of chlamydia screening in 2007 was in the Northeast (45.5%) and the lowest was in the South (37.3%). Screening increased most in New Jersey (167.1%, from 15.2% screened in 2000 to 40.6% in 2007). Screening decreased in several states from 2006 to 2007, and decreased most in Alabama (26.4%, from 31.4% screened in 2006 to 23.1% in 2007). In 2007, Hawaii had the highest chlamydia screening rate (57.8%), and Utah had the lowest (20.8%).

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Editorial Note: From 2000 to 2007, annual chlamydia screening rates generally increased among sexually active females aged 16–25 years accessing care and enrolled in U.S. commercial and Medicaid health plans that reported chlamydia screening

data. Although the rate of screening had increased during the preceding 7 years, it decreased from 2006 to 2007 nationally and for some states. Further monitoring of screening rates is needed to determine whether the decreased screening rate observed during 2007 represents a true decrease or might reflect changes in the mix of plans and plan types included in the HEDIS chlamydia screening dataset as a result of the substantial increase in participating plans. State and national screening rates can be affected by changes in the mix of plans included in the chlamydia screening dataset.

A recent nationally representative study of chlamydia screening at visits to hospital outpatient clinics also found low chlamydia screening rates in the United States, with 48.0% of young females screened for chlamydia during a visit to a gynecology clinic for a Papanicolaou (Pap) test (4). In the current report, chlamydia screening rates were substantially lower than other women's health services measured by HEDIS, including Pap tests to screen for cervical cancer (73.9% among enrollees in commercial and Medicaid plans in 2007).

Chlamydia screening and treatment of young women can preserve reproductive health by preventing PID and potential infertility, ectopic pregnancy, and chronic pelvic pain. Barriers to provider screening include 1) lack of reimbursement for the time required to conduct screening tests and to counsel patients, 2) lack of awareness that patients are sexually active and at risk for STDs, and 3) lack of knowledge that chlamydia screening can be performed without a pelvic examination (4,5). Barriers to patient use of screening include 1) inability to pay the copayment of a screening test, and 2) lack of knowledge of the asymptomatic nature, high prevalence, and possible adverse long-term reproductive effects of chlamydial infection (6).

In addition to potential variations caused by the substantial increase in participating plans, the findings in this report are subject to at least three other limitations. First, the findings cannot be generalized to all women in the United States nor to all women enrolled in commercial or Medicaid plans because the data reported to NCQA were from a subset of all health plans and only from a proportion of states. Second, assessment of time trends was limited for those states without data available for the entire evaluation period. Finally, HEDIS estimates might overestimate or underestimate the actual chlamydia screening rate among health plan enrollees. Overestimation likely occurred because the method used to estimate the screening rate excluded a substantial percentage of sexually active enrollees who might not have claims or health-care visits for pregnancy, contraception, STDs, or cervical cancer screening (7). Underestimation might occur if chlamydia tests were actually performed but not captured in the claims data.

TABLE. Percentage of sexually active female enrollees aged 16–25 years* who were screened for *Chlamydia trachomatis* infection, by region, state, and year — Healthcare Effectiveness Data and Information Set, United States, 2000–2007

	No. of health plans	No. of sexually active				Ye	ear				% change
Region/State	reporting in 2007	enrollees in 2007 [†]	2000	2001	2002	2003	2004	2005	2006	2007	from 2000–2007
United States	583	2,809,100	25.3	26.7	29.8	35.5	38.3	41.2	43.6	41.6	64.4
Midwest	158	567,400	23.0	24.5	28.1	32.3	34.1	37.2	39.0	38.5	67.4
Iowa	8	16,700	20.1	20.2			_			30.8	53.2
Illinois	22	94,700	16.2	15.0	18.8	22.3	25.3	28.5	30.2	28.3	74.7
Indiana	17	40,500	19.0	19.9	22.2	28.0	30.4	35.3	37.1	36.4	91.6
Kansas	14	37,600	17.3	16.5	22.7	22.6	24.2	30.0	30.3	32.2	86.1
Michigan	24	92,600	30.6	29.3	33.4	38.9	40.6	43.9	45.6	46.4	51.6
Minnesota	17	70,400	19.1	21.5	26.4	29.2	29.8	36.4	40.3	43.1	125.7
Missouri	14	26,600		46.1	45.2	50.6	51.7	51.2	50.2	45.7	_
Ohio	21	129,400	25.7	30.1	35.0	35.8	36.0	34.3	35.4	38.7	50.6
Wisconsin	21	58,900	32.6	33.4	29.8	33.0	35.4	35.8	40.6	41.3	26.7
Northeast	116	711,500	22.5	23.6	27.6	34.3	36.5	40.9	43.4	45.5	102.2
Connecticut	15	58,200	23.1	27.1	32.6	37.6	39.7	43.0	46.5	47.3	104.8
Massachusetts	17	102,600	20.9	25.9	34.3	40.0	44.5	47.6	51.4	53.4	155.5
Maine	7	31,800	27.6	25.2	28.6	37.3	_	_	_	48.1	74.3
New Hampshire	5	12,400	_	_	_	_	_	_	_	45.9	_
New Jersey	18	118,900	15.2	16.2	16.6	26.4	31.9	36.0	38.7	40.6	167.1
New York	33	223,800	26.4	27.8	31.4	38.3	40.0	44.6	47.4	47.8	81.1
Pennsylvania	21	163,700	19.7	18.9	24.3	29.7	30.4	35.6	38.0	39.8	102.0
South	173	803,900	25.1	25.8	26.9	33.1	35.6	37.3	40.0	37.3	48.6
Alabama	5	5,700	_	_	_	_	_	29.3	31.4	23.1	_
Arkansas	6	12,500	_		_	_	_	_	_	26.2	_
Delaware	11	23,900	21.1	23.4	29.0	32.1	33.4	38.2	37.5	41.7	97.6
Florida	26	134,500	24.7	20.3	19.3	27.8	29.8	35.6	37.7	38.6	56.3
Georgia	12	79,700	31.1	31.7	34.5	39.8	39.4	41.2	44.1	38.0	22.2
Kentucky	7	23,000	_	_	_	32.9	_		_	36.1	_
Louisiana	7	18,400	_	_	_	_	_		_	28.5	_
Maryland	19	88,700	36.9	39.8	41.1	44.7	49.2	48.9	50.7	49.1	33.1
North Carolina	8	32,200	20.1	21.8	21.6	_	28.0	31.8	35.1	34.7	72.6
Oklahoma	6	7,100	10.6	13.6	15.4	_	_		_	25.3	138.7
South Carolina	5	15,400				_	_			29.8	_
Tennessee	19	114,000	19.3		20.3	_	41.9	47.9	43.6	38.0	96.9
Texas	25	152,600	20.9	18.9	24.7	28.8	32.2	34.6	36.1	34.4	64.6
Virginia	11	89,800	25.2	31.3	30.3	31.5	32.0	39.1	43.2	33.8	34.1
West Virginia	6	6,400	_	_	_	_	_	_	_	32.5	_
West	136	726,300	30.8	32.6	35.9	40.4	45.5	49.0	49.6	45.0	46.1
Arizona	12	59,300	23.3	16.5	26.0	34.7	39.2	41.0	42.7	41.4	77.7
California	43	448,800	32.2	35.5	38.7	41.9	47.3	51.2	53.1	48.6	50.9
Colorado	18	45,100	27.6	26.3	29.6	36.5	43.9	45.2	43.0	43.4	57.3
Hawaii	5	8,200	_		_	_	_		_	57.8	_
Idaho	7	42,100	_		_	_	_		26.8	29.0	_
New Mexico	13	30,100	33.4	32.8	30.5	31.4	32.8	36.3	46.1	46.9	40.4
Nevada	6	9,400	_	31.4	_	42.2	37.4	46.0	50.1	50.2	_
Oregon	9	35,500	34.5	38.9	_	_	_	_	46.5	35.8	3.8
Utah	8	7,900	_	13.8	15.1	16.8	19.4	21.3	_	20.8	_
Washington	15	39,900	17.9	31.3	29.7	39.5	40.0	44.9	47.7	36.2	102.2

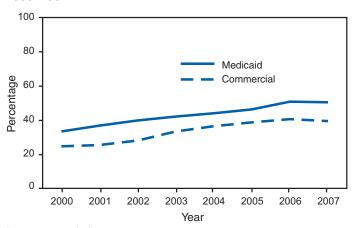
^{* 16-26} years during 2000-2002.

Chlamydia screening has been ranked by the National Committee on Prevention Priorities as a top priority service, based on its clinically preventable burden, its cost-effectiveness, and its low current use rate (8). Increased public and provider awareness of the high prevalence of chlamydia in young women, and its preventable sequelae, should lead to increased chlamydia screening of these women. However, education

campaigns alone are not sufficient to encourage physicians to increase rates of chlamydia screening (5). The findings in this report highlight the need for simple and effective interventions to increase access and use of chlamydia screening services. Structural interventions have been shown to increase screening rates. For example, the obstetrics and gynecology department of a large managed care organization increased its chlamydia

[†] Rounded to 100s.

FIGURE. Percentage of sexually active female enrollees aged 16–25 years* who were screened for *Chlamydia trachomatis* infection, by health plan type and year — Healthcare Effectiveness Data and Information Set, United States, 2000–2007



* 16–26 years during 2000–2002.

screening rate simply by placing an endocervical swab alongside a Pap test in the examination room (6).

Although this report examined chlamydia screening rates among participants in health plans who were insured and accessed care, 18.4% of females aged 16–20 years and 28.2% aged 21–25 years were uninsured in 2007. Uninsured women are less likely to access care and less likely to have resources to pay for chlamydia screening (9). Steps must be taken to increase screening among insured women who access care, but addressing the burden of chlamydia among uninsured women also is a public health priority because uninsured women have higher rates of infection (10).

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Adult Blood Lead Epidemiology and Surveillance — United States, 2005–2007

Overexposure to inorganic lead continues to be an important health problem worldwide. Furthermore, recent research has caused increased concerns about the toxicity of lead at low doses (1,2). Lead can cause acute and chronic adverse effects in multiple organ systems, ranging from subclinical changes in function to symptomatic, life-threatening intoxication. Since 1992, CDC's state-based Adult Blood Lead Epidemiology and Surveillance (ABLES) program has tracked laboratoryreported elevated blood lead levels (BLLs) in U.S. adults. The vast majority (95%) of reported elevated BLLs have been work related. One of the *Healthy People 2010* national public health objectives is to reduce to zero the prevalence of BLLs ≥25 ug/dL among adults (objective 20-7) (3). ABLES surveillance results through 2004 have been published previously (4-6). This report summarizes results for the period 2005–2007. An overall decline in national rates of elevated BLLs among state residents plus nonresidents from 14.0 in 1994 to 7.8 in 2007 has been observed. The national rate of state resident adults with BLLs \geq 25 µg/dL was 7.2 per 100,000 employed adults in 2005 and 7.4 in 2006 and 2007. Industry subsectors with the highest numbers of lead-exposed workers were manufacturing of storage batteries, mining of lead and zinc ores, and painting and paper hanging. The most common nonoccupational exposures were shooting firearms; remodeling, renovating, or painting; retained bullets (gunshot wounds); and eating food containing lead. These findings indicate a need for increased preventive interventions to promote healthier workplaces and help move toward the *Healthy People 2010* objective.

ABLES reporting benchmarks include BLLs \geq 25 μ g/dL and BLLs \geq 40 μ g/dL. State ABLES programs collect data on adult BLLs from laboratories and health-care providers through mandatory reporting requirements. ABLES states then intervene

[§] Additional information available at http://www.census.gov/hhes/www/cpstc/cps_table_creator.html.

to prevent lead overexposures in worksites where elevated exposures occur. These interventions include 1) conducting follow-up interviews with physicians, employers, and workers; 2) investigating work sites; 3) providing technical assistance; 4) providing Occupational Safety and Health Administration (OSHA) referrals for consultation and enforcement; and 5) developing and disseminating educational materials and outreach programs.

A unique identifier is assigned to each person to account for multiple BLL reports. For BLLs \geq 25 μ g/dL, follow-up by telephone generally is conducted to ensure completeness of information on the industry where the person works, exposure source (occupational or nonoccupational), and other variables. The industry where the person worked is coded using the 1987 Standard Industrial Classification (SIC) or the 2002 North American Industry Classification System (NAICS). BLL reporting requirements vary among ABLES states, ranging from the reporting of all BLLs to BLLs \geq 40 μ g/dL.* Most ABLES states submit data on all BLLs to CDC's National Institute for Occupational Safety and Health (NIOSH), including reports from persons whose BLLs fall below the state reporting requirement.

For this report, adults were considered to be all persons aged ≥ 16 years. For adults with more than one BLL result in a given year, only the highest BLL was included in this report. Elevated BLLs were defined as blood lead concentrations $\geq 25 \mu g/dL$. Rate numerators were "state resident" adults with elevated BLLs (adults residing in the reporting state) or "state residents plus nonresidents" adults with elevated BLLs (all adults reported by a state). Denominators were the annual employed population aged ≥ 16 years for the period 2005–2007 from the Current Population Survey.† To calculate yearly state prevalence rates, the numbers of adults with elevated BLLs from each state were divided by the state's annual employed population. The combined state numerators and denominators for each year were then used to calculate the national prevalence rate.§

Data were provided by 37 states in 2005, 38 states in 2006, and 38 states in 2007. Overall, national rates of elevated BLLs

declined from 14.0 per 100,000 employed adults in 1994 to 7.8 in 2007 (Figure 1). ABLES states reported 8,902, 9,562, and 9,871 state resident adults with elevated BLLs in 2005, 2006, and 2007, respectively. The national rate per 100,000 state resident adults with elevated BLLs declined 4%, from 7.5 in 2004 to 7.2 in 2005, but increased 3%, from 7.2 in 2005 to 7.4 in 2006 and 2007. State annual prevalence for 2005 ranged from 0.5 (Hawaii) to 34.0 (Kansas); for 2006, from 0.2 (Montana) to 32.3 (Pennsylvania); and for 2007, from 0.8 (New Mexico) to 36.4 (Missouri). Prevalence rates in 2007 were <10 in 29 states and ≥20 in six states (Figure 2).

Rates per 100,000 state resident adults with BLLs ≥40 µg/dL, a second ABLES reporting benchmark, were 1.2 in 2004 and 2005, 1.1 in 2006, and 1.2 in 2007. In 2005, prevalence rates ranged from 0.1 (Arizona and New Mexico) to 9.5 (Alabama). In 2006, prevalence rates ranged from 0.2 (Arizona) to 7.5 (Alabama). In 2007, prevalence rates ranged from 0.1 (Oklahoma) to 9.1 (Alabama).

Data on industry and exposure source were submitted by 33 states (7,492 state resident adults) in 2005, 35 states (8,230 state resident adults) in 2006, and 35 states (8,246 state resident adults) in 2007.** For this analysis, adults exposed to both occupational and nonoccupational sources (17 in 2005, 24 in 2006, and 11 in 2007) were considered exposed at work only. Exposures at work accounted for 5,861 (78.2%), 6,643 (80.7%), and 6,463 (76.7%) elevated BLLs in 2005, 2006, and 2007, respectively. The majority of adults with elevated BLLs were employed in three large industry sectors: manufacturing (64.8% in 2005 and 71.8% in 2006 and 2007), construction (15.2% in 2005, 12.6% in 2006, and 11.4% in 2007), and mining (9.4% in 2005, 9.5% in 2006, and 10.5% in 2007). Specific industry subsectors with the highest numbers were manufacturing of storage batteries, mining of lead and zinc ores, and painting and paper hanging (Table). Nonoccupational exposures accounted for 330 (4.4%), 380 (4.6%), and 350 (4.2%) adults in 2005, 2006, and 2007, respectively. Among these, the most common exposures were shooting firearms; remodeling, renovating, or painting; retained bullets (gunshot wounds); and eating food containing lead (Table).

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^{*}Information on reporting requirements by state is available at http://www.cdc.gov/niosh/topics/ables/state-contacts.html.

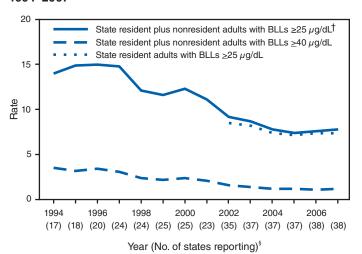
[†] Data extracted from http://www.bls.gov/data.

[§] Information regarding interpretation of specific state ABLES data, definitions, and rate calculations is available at http://www.cdc.gov/niosh/topics/ables/ables. html.

⁵ 38 states submitted data to ABLES in 2007: Alabama, Alaska, Arizona, California, Connecticut, Florida, Georgia, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maine, Maryland, Massachusetts, Michigan, Minnesota, Missouri, Montana, Nebraska, New Hampshire, New Jersey, New Mexico, New York, North Carolina, Ohio, Oklahoma, Oregon, Pennsylvania, Rhode Island, South Carolina, Tennessee, Texas, Utah, Washington, Wisconsin, and Wyoming. Tennessee data were not available for 2005. Louisiana data were not available for 2005 and 2006. Hawaii data were not available for 2007.

^{**} States providing data on industry in 2007: Alaska, Arizona, California, Connecticut, Florida, Georgia, Illinois, Iowa, Kansas, Louisiana, Maine, Maryland, Massachusetts, Michigan, Minnesota, Missouri, Montana, Nebraska, New Hampshire, New Jersey, New Mexico, New York, North Carolina, Ohio, Oklahoma, Oregon, Pennsylvania, Rhode Island, South Carolina, Tennessee, Texas, Utah, Washington, Wisconsin, and Wyoming. Industry data were not available for Louisiana for 2005 and 2006, Rhode Island for 2005, and Tennessee for 2005. Hawaii data were not available for 2007.

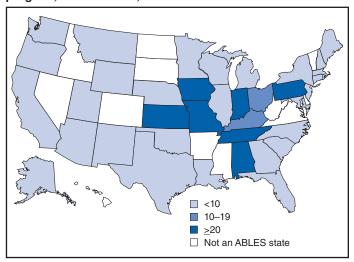
FIGURE 1. National prevalence rates* of adults with elevated blood lead levels (BLLs), by year — Adult Blood Lead Epidemiology and Surveillance program, United States, 1994–2007



- * Per 100,000 employed adults aged ≥16 years. Denominators for 2005–2007 extracted from 2008 U.S. Department of Labor, Bureau of labor Statistics Current Population Survey, available at http://www.bls.gov/data.
- [†] State residents are adults residing in the reporting state. State residents plus nonresidents are all adults reported by a state.
- § 38 states submitted data in 2007: Alabama, Alaska, Arizona, California, Connecticut, Florida, Georgia, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maine, Maryland, Massachusetts, Michigan, Minnesota, Missouri, Montana, Nebraska, New Hampshire, New Jersey, New Mexico, New York, North Carolina, Ohio, Oklahoma, Oregon, Pennsylvania, Rhode Island, South Carolina, Tennessee, Texas, Utah, Washington, Wisconsin, and Wyoming. Tennessee data were not available for 2005. Louisiana data were not available for 2005 and 2006. Hawaii data were not available for 2007.

Editorial Note: ABLES surveillance results indicate an overall decreasing trend in the national prevalence rate of elevated BLLs in adults since 1994 (Figure 1), with a slight increase in the 2006 and 2007 rates. Part of the overall decrease might be the result of a decline in the number of manufacturing jobs with potential for lead exposure over time, in addition to prevention measures that have been enacted since the early 1990s, including 1) improved interventions by ABLES states, workeraffiliated organizations, and federal programs (e.g., NIOSH's ABLES surveillance^{††} and OSHA's National Emphasis Program to reduce lead exposure (s) and 2) measures implemented by industry (e.g., engineering controls, work practices, and respiratory protection). However, these rates might also reflect low employer compliance with testing and reporting requirements. A 2008 report using ABLES data found that only 29% of adults with BLLs requiring medical removal from work involving lead exposure received appropriate follow-up blood lead tests and met the eligibility criteria to return to their work (7). The slight

FIGURE 2. Annual state prevalence rate* categories for state resident adults† with elevated blood lead levels (≥25 μg/dL) — Adult Blood Lead Epidemiology and Surveillance (ABLES) program, United States, 2007§



- * Per 100,000 employed adults aged ≥16 years. Denominators for 2005–2007 extracted from 2008 U.S. Department of Labor, Bureau of labor Statistics Current Population Survey, available at http://www.bls.gov/data.
- [†] State residents are adults residing in the reporting state.
- § 38 states submitted data in 2007: Alabama, Alaska, Arizona, California, Connecticut, Florida, Georgia, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maine, Maryland, Massachusetts, Michigan, Minnesota, Missouri, Montana, Nebraska, New Hampshire, New Jersey, New Mexico, New York, North Carolina, Ohio, Oklahoma, Oregon, Pennsylvania, Rhode Island, South Carolina, Tennessee, Texas, Utah, Washington, Wisconsin, and Wyoming. Tennessee data were not available for 2005. Louisiana data were not available for 2005 and 2006. Hawaii data were not available for 2007.

increase in national rates in the ABLES data for 2006 and 2007 might have resulted from increased exposures at workplaces or improved testing and reporting. Changes in annual rates also might reflect increased or decreased surveillance activities by ABLES state programs.

ABLES data also indicate that excessive exposure to lead remains primarily an occupational health problem in the United States; 95% of adults with an identified exposure source were exposed at work. As in the past, during 2005–2007, these exposures occurred mainly in battery manufacturing, lead and zinc ores mining, and painting and paper hanging industry subsectors. The consistently higher proportions of adults with BLLs \geq 40 μ g/dL among those with BLLs \geq 25 μ g/dL observed in the painting and paper hanging, special trade contractors, and nonferrous foundries industries from 2005 through 2007 (Table 1) likely reflect higher lead exposures in these industries.

OSHA lead standards require removing a worker from lead exposure when the whole-blood lead concentrations \geq 50 μ g/dL for construction workers or \geq 60 μ g/dL for general industry workers, and permit return to work when their BLLs is \leq 40 μ g/dL (8,9). The current CDC/NIOSH surveillance case

 $^{^{\}dagger\dagger}$ Information available at http://www.cdc.gov/niosh/topics/ables/ables.html.

^{§§} Information available at http://www.osha.gov/pls/oshaweb/owadisp.show_document?p_table=directives&p_id=2572.

TABLE. Number and percentage of resident adults with elevated blood lead levels (BLLs), by industry subsector and nonoccupational source of exposure — Adult Blood Lead Epidemiology and Surveillance (ABLÈS) program, United States, 2005–2007

		2005 (3	3 states)		2006 (35	states))		2007 (34	4 states))
	BL ≥ 25 μ			LLs µg/dL	BL l ≥ 25 <i>μ</i>			LLs µg/dL	BL ≥ 25 μ			LLs µg/dL
Exposure type	No.	(%) [†]	No.	(%)§	No.	(%)	No.	(%)	No.	(%)	No.	(%)
Occupational (Industry subsector [SIC and NAICS codes]*)												
Manufacturing, storage batteries (SIC 3691, NAICS 335911)	1,916	(32.7)	90	(4.7)	2,636	(39.7)	179	(6.8)	2,524	(39.1)	207	(8.2)
Metal mining, lead and zinc ores (SIC 1031, NAICS 212231)	542	(9.2)	71	(13.1)	625	(9.4)	109	(17.4)	672	(10.4)	127	(18.9)
Construction, painting and paper Hanging (SIC 1721, NAICS 237310 part, 238320 part)	527	(9.0)	144	(27.3)	495	(7.5)	130	(26.3)	399	(6.2)	117	(29.3)
Manufacturing, primary batteries (dry and wet) (SIC 3692, NAICS 335912)	187	(3.2)	22	(11.8)	597	(9.0)	92	(15.4)	573	(8.9)	126	(22.0)
Manufacturing, secondary smelting and refining of nonferrous metals (SIC 3341, NAICS 331314 part, 331423 part, 331492 part)	355	(6.1)	51	(14.4)	370	(5.6)	37	(10.0)	447	(6.9)	60	(13.4)
Manufacturing, primary smelting and refining of nonferrous metals (SIC 3339, NAICS 33419)	134	(2.3)	19	(14.2)	129	(1.9)	24	(18.6)	128	(2.0)	21	(16.4)
Construction, special trade contractors NEC ¹ (SIC 1799, various NAICS codes in construction and services)	135	(2.3)	34	(25.2)	93	(1.4)	23	(24.7)	96	(1.5)	20	(20.8)
Manufacturing, copper foundries (SIC 3366, NAICS 331525)	125	(2.1)	16	(12.8)	112	(1.7)	18	(16.1)	78	(1.2)	11	(14.1)
Construction, bridge, tunnel, and elevated highway construction (SIC 1622, NAICS 237310 part, 237990 part)	67	(1.1)	9	(13.4)	87	(1.3)	12	(13.8)	34	(0.5)	5	(14.7)
Manufacturing, nonferrous foundries, except aluminum and copper (SIC 3369, NAICS 331528)	60	(1.0)	13	(21.7)	53	(0.8)	9	(17.0)	75	(1.2)	20	(26.7)
Manufacturing, rolling, drawing, and extruding of nonferrous metals (SIC 3356, NAICS 331491)	65	(1.1)	3	(4.6)	54	(0.8)	7	(13.0)	56	(0.9)	14	(25.0)
Services, automotive repair shops NEC (SIC 7539, NAICS 811118, 811198 part)	79	(1.3)	15	(19.0)	41	(0.6)	5	(12.2)	50	(8.0)	9	(18.0)
Manufacturing, steel works, blast furnaces (including coke ovens), and rolling mills (SIC 3312, NAICS 331111 part, 331221 part)	63	(1.1)	6	(9.5)	26	(0.4)	2	(7.7)	64	(1.0)	5	(7.8)
Other industries and unavailable information on industry**	1,606	(27.4)	302	(18.8)	1,325	(19.9)	207	(15.6)	1,267	(19.6)	215	(17.0)
Total exposed at work	5,861	(100.0)	795	(13.6)	6,643	(100.0)	854	(12.9)	6,463	(100.0)	957	(14.8)
Nonoccupational												
Shooting firearms (target shooting)	98	(29.7)	25	(25.5)	129	(33.9)		(22.5)	120	(34.3)		(15.8)
Remodeling/Renovation/Painting	58	(17.6)	15	(25.9)	49	(12.9)		(18.4)	51	(14.6)	15	(29.4)
Retained bullets (gunshot wounds)	17	(5.2)	4	(23.5)	30	(7.9)		(50.0)	35	(10.0)		(28.6)
Eating food containing lead	21	(6.4)	9	(42.9)	29	(7.6)		(34.5)	21	(6.0)	5	(23.8)
Casting (e.g., bullets and fishing weights)	14	(4.2)	5	(35.7)	13	(3.4)		(30.8)	20	(5.7)	6	(30.0)
Pica (i.e., the eating of nonfood items)	21	(6.4)	8	(38.1)	15	(3.9)		(33.3)	10	(2.9)		()
Complementary and alternative medicines	8	(2.4)	7	(87.5)	13	(3.4)		(69.2)	10	(2.9)	6	(60.0)
Retired ^{††}	11	(3.3)	2	(18.2)	3	(8.0)	2	(66.7)	8	(2.3)	1	(12.5)
Ceramics Stained glass	_	(0.0)	_	_	_	_	_	_	3	(0.9)	2	(66.7)
Stained glass	3	(0.9)	4	(33.3)	_	_	_	_	_	_	_	_
Eating from leaded cookware	3	(0.9)	1	(33.3)	_	_	_	_	_	(0.6)	_	
Drinking liquids containing lead (e.g., moonshine)	_	(0.0)	_	(66.7)	_	(0.0)	_	(66.7)	2	(0.6)	1	(50.0)
Other nonoccupational exposure	3	(0.9)	2	(66.7)	3	(0.8)		(66.7)	6	(1.7)	2	(33.3)
Unavailable nonoccupational source of exposure	73		19	(26.0)	96	(25.3)		(28.1)	64	(18.3)		(23.4)
Total exposed at places other than work	330	(100.0)	97	(29.4)	380	(100.0)	112	(29.5)	350	(100.0)	85	(24.3)

^{*}Standard Industry Classification and North American Industry Classification System. Correspondence tables between 2002 NAICS and 1987 SIC are available from the U.S. Census Bureau at http://www.census.gov/epcd/naics02/index.html.

† Percentage of the total cases reported per year.

§ Percentage cases with elevated BLLs in each industry or nonoccupational exposure source.

¶ Not elsewhere classified.

** Information on industry was unavailable for 265 adults with BLLs ≥25 µg/dL and for three adults with BLLs ≥40 µg/dL in 2005; and in 88 adults with BLLs ≥25 µg/dL in 2006.

†† These adults might have been former lead workers. Available data show that two adults (BLLs 32 µg/dL and 34 µg/dL) retired from a radiator repair shop, one retired from the police (BLL 39 µg/dL), and one retired from a tire manufacturing industry (BLL 37 µg/dL).

definition for elevated BLLs in adults is BLL \geq 25 μ g/dL. Recent research has consistently demonstrated the toxicity of lead from chronic dose exposures <30 μ g/dL. Low-dose lead exposure can result in adverse effects in multiple organ systems, including effects in neurologic, cardiovascular, reproductive, and renal function (1,2).

CDC is making efforts to reduce occupational lead exposures through collaborations with state ABLES programs (by providing technical support and funding for surveillance); with worker-affiliated organizations (e.g., NIOSH cooperated with the Center for Construction Research and Training, formerly known as The Center to Protect Workers' Rights [CPWR], in analyzing lead exposures in the construction industry); and with OSHA. One of OSHA's National Emphasis Programs aims to reduce workplace lead exposure among all U.S. workers, and ABLES data are provided periodically to OSHA to help better target this program.

The findings in this report are subject to at least one limitation. The number of adults with elevated BLLs reported to ABLES likely is underreported because some employers might not provide BLL testing to all lead-exposed workers as required by OSHA regulations and because some laboratories might not report all tests as required by state regulations (10); these factors likely vary across the 38 participating ABLES states.

To further prevent workplace lead exposures and help move toward the *Healthy People 2010* objective, the following efforts need to be strengthened, particularly in industries with higher exposures: 1) worker protection programs developed and maintained by employers⁵⁵; 2) government efforts, such as state ABLES programs, the OSHA National Emphasis Program to reduce lead exposure, and the NIOSH ABLES program; 3) research and interventions by worker-affiliated organizations, such as the Center for Construction Research and Training; and 4) education of the public to prevent nonoccupational exposures.

Acknowledgments

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Update: Influenza Activity — United States, September 28, 2008–April 4, 2009, and Composition of the 2009–10 Influenza Vaccine

This report summarizes U.S. influenza activity* from September 28, 2008, the start of the 2008–09 influenza season, through April 4, 2009, and reports on the 2009–10 influenza vaccine strain selection. Low levels of influenza activity were reported from October through early January. Activity increased from mid-January and peaked in mid-February. Influenza A (H1N1) viruses have predominated overall this

felements of worker protection programs should include 1) hazard determination, including exposure assessment; 2) engineering and work practice controls; 3) respiratory protection; 4) protective clothing and equipment; 5) housekeeping; 6) hygiene facilities and practices; 7) medical surveillance and provisions for medical removal; 8) training; 9) signs; and 10) recordkeeping. Additional information available at http://www.osha.gov/pls/oshaweb/owadisp.show_document?p_table=fact_sheets&p_id=161.

^{*}The CDC influenza surveillance system collects five categories of information from nine data sources: 1) viral surveillance (World Health Organization collaborating U.S. laboratories, the National Respiratory and Enteric Virus Surveillance System, and novel influenza A virus case reporting), 2) outpatient illness surveillance (U.S. Outpatient ILI Surveillance Network), 3) mortality (122 Cities Mortality Reporting System and influenza-associated pediatric mortality reports), 4) hospitalizations (Emerging Infections Program and New Vaccine Surveillance Network), and 5) summary of geographic spread of influenza (state and territorial epidemiologist reports).

season, but influenza B viruses have been isolated more frequently than influenza A viruses since mid-March. Widespread oseltamivir resistance was detected among circulating influenza A (H1N1) viruses and a high level of adamantane resistance was identified among influenza A (H3N2) viruses.

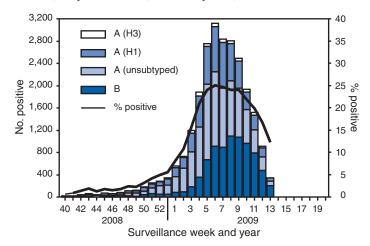
Viral Surveillance

From September 28, 2008, to April 4, 2009, World Health Organization (WHO) and National Respiratory and Enteric Virus Surveillance System (NREVSS) collaborating laboratories in the United States tested 173,397 respiratory specimens for influenza viruses, 24,793 (14.3%) of which were positive (Figure 1). Of these, 16,686 (67.3%) were positive for influenza A viruses, and 8,107 (32.7%) were positive for influenza B viruses. Of the 16,686 specimens positive for influenza A viruses, 6,735 (40.4%) were subtyped by real-time reverse transcription-polymerase chain reaction or by virus culture; 6,049 (89.8%) of these were influenza A (H1N1) viruses, and 686 (10.2%) were influenza A (H3N2) viruses. The percentage of specimens testing positive for influenza first exceeded the seasonal threshold of 10% during the week ending January 17, 2009, and peaked at 25.0% during the week ending February 14, 2009. For the week ending April 4, 2009, 12.3% of specimens tested for influenza were positive. The relative proportion of influenza B viruses increased during February and March, and since the week ending March 14, 2009, >50% of the positive influenza specimens have been influenza B.

Antigenic Characterization

WHO collaborating laboratories in the United States are requested to submit a subset of their influenza virus isolates to CDC for further antigenic characterization. CDC has antigenically characterized 945 influenza viruses collected by U.S. laboratories during the 2008-09 season, including 594 influenza A (H1N1), 88 influenza A (H3N2), and 263 influenza B viruses. All 594 influenza A (H1N1) viruses are related to the influenza A (H1N1) component of the 2008–09 influenza vaccine (A/Brisbane/59/2007). All 88 influenza A (H3N2) viruses are related to the influenza A (H3N2) vaccine component (A/Brisbane/10/2007). Influenza B viruses currently circulating can be divided into two distinct lineages represented by the B/Yamagata/16/88 and B/Victoria/02/87 viruses. Among the 263 influenza B viruses tested, 50 (19.0%) belong to the B/Yamagata lineage and are related to the vaccine strain (B/Florida/04/2006); the remaining 213 (81.0%) belong to the B/Victoria lineage and are not related to the vaccine strain.

FIGURE 1. Number (N = 24,793) and percentage of respiratory specimens testing positive for influenza reported by World Health Organization and National Respiratory and Enteric Virus Surveillance System collaborating laboratories, by type, and surveillance week — United States, September 28, 2008–April 4, 2009



Composition of the 2009–10 Influenza Vaccine

WHO recommended that the 2009–10 Northern Hemisphere trivalent influenza vaccine contain A/Brisbane/59/2007-like (H1N1), A/Brisbane/10/2007-like (H3N2), and B/Brisbane/60/2008-like (B/Victoria lineage) viruses. The Food and Drug Administration's Vaccines and Related Biological Products Advisory Committee recommended these same vaccine strains be included in the 2009–10 influenza vaccine for the United States (*I*). Only the influenza B component represents a change from the 2008–09 vaccine formulation. These recommendations were based on antigenic and genetic analyses of recently isolated influenza viruses, epidemiologic data, post-vaccination serologic studies in humans, and the availability of candidate vaccine strains and reagents.

Antiviral Resistance of Influenza Virus Isolates

CDC conducts surveillance for resistance of circulating influenza viruses to licensed influenza antiviral medications: adamantanes (amantadine and rimantadine) and neuraminidase inhibitors (zanamivir and oseltamivir). Since October 1, 2008, of the 699 influenza A (H1N1) viruses from 44 states tested for neuraminidase inhibitor resistance, 694 (99.3%) were resistant to oseltamivir; all were sensitive to zanamivir (Table). All 103 influenza A (H3N2) and all 274 influenza B viruses tested were sensitive to oseltamivir and zanamivir. Three influenza A (H1N1) viruses (0.4%) and all 100 (100%) influenza A (H3N2) viruses tested were resistant to adamantanes

TABLE. Number and percentage of influenza viruses tested for resistance to influenza antiviral medications, by virus type — United States, October 1, 2008–April 4, 2009

	No. of	Resistant to	oseltamivir*	No. of	Resistant to	adamantanes
Virus	isolates tested	No.	(%)	isolates tested	No.	(%)
Influenza A (H1N1)	699	694	(99.3)	683	3	(0.4)
Influenza A (H3N2)	103	0	(0)	100	100	(100)
Influenza B	274	0	(0)	<u>_</u> †	_	`— ´

^{*} None of the tested isolates were resistant to zanamivir.

(amantadine and rimantadine). The adamantanes are not effective against influenza B viruses. None of the influenza A (H1N1) viruses tested were resistant to both oseltamivir and adamantanes.

Novel Influenza A Viruses

A case of human infection with a novel influenza A virus was reported by the Iowa Department of Public Health during the week ending February 28, 2009. A male aged 3 years was infected with a swine influenza A (H1N1) virus. An investigation revealed that the child had close contact with ill pigs. The child has fully recovered from the illness, and no additional cases were identified among the child's contacts or other persons exposed to the ill pigs. This is the third human infection with swine influenza virus identified in the United States this influenza season. None of the cases were related to occupation. The other two human infections with swine influenza identified during the 2008–09 influenza season occurred in a person aged 14 years from Texas and a person aged 19 years from South Dakota (2,3).

State-Specific Activity Levels

During the week ending April 4, 2009, widespread influenza activity[†] was reported by four states (Alabama, New York, Virginia, and Washington). Regional influenza activity was reported by 18 states (Alaska, Arizona, California, Colorado, Connecticut, Hawaii, Idaho, Kentucky, Montana, Nevada, New Hampshire, New Jersey, North Carolina, North Dakota, Oregon, Pennsylvania, Rhode Island, and Tennessee). Local influenza activity was reported by 20 states, sporadic activity

was reported by the District of Columbia and seven states, and one state did not report Regional influenza activity was reported for the first time this season during the week ending December 20, 2008 (by Massachusetts and New Jersey), and widespread activity was reported for the first time during the week ending January 10, 2009 (by Virginia). To date this season, regional or widespread influenza activity has been reported during at least 1 week by 49 states.

Outpatient Illness Surveillance

Since September 28, 2008, the weekly percentage of outpatient visits for influenza-like illness (ILI)§ reported by approximately 1,500 U.S. health-care providers in 50 states, New York City, Chicago, the District of Columbia, and the U.S. Virgin Islands that comprise the U.S. Outpatient ILI Surveillance Network (ILINet), has ranged from 0.9% during the week ending October 4, 2008, to 3.7% for the week ending February 14, 2009. For the week ending April 4, 2009, the weekly percentage of outpatient visits for ILI was 1.6% (Figure 2). This is below the national baseline of 2.4%. One of the nine surveillance regions (Mountain) reported an ILI percentage above its region-specific baseline.

Pneumonia- and Influenza-Related Mortality

For the week ending April 4, 2009, pneumonia and influenza was reported as an underlying or contributing cause of death for 7.4% of all deaths reported through the 122 Cities Mortality Reporting System. This is below the epidemic threshold of 7.8% for that week. Since September 28, 2008, the weekly percentage of deaths attributed to pneumonia and influenza

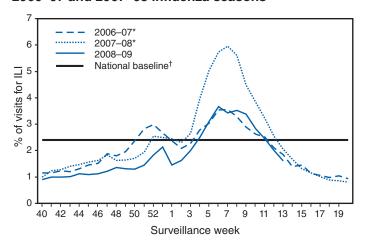
[†] The adamantanes (amantadine and rimantadine) are not effective against influenza B viruses.

[†] Levels of activity are 1) no activity; 2) sporadic: isolated laboratory-confirmed influenza cases or a laboratory-confirmed outbreak in one institution, with no increase in influenza-like illness (ILI) activity; 3) local: increased ILI, or at least two institutional outbreaks (ILI or laboratory-confirmed influenza) in one region with recent laboratory evidence of influenza in that region; virus activity no greater than sporadic in other regions; 4) regional: increased ILI activity or institutional outbreaks (ILI or laboratory-confirmed influenza) in at least two but less than half of the regions in the state with recent laboratory evidence of influenza in those regions; and 5) widespread: increased ILI activity or institutional outbreaks (ILI or laboratory-confirmed influenza) in at least half the regions in the state with recent laboratory evidence of influenza in the state.

[§] Defined as a temperature of ≥100.0°F (≥37.8°C), oral or equivalent, and cough and/or sore throat, in the absence of a known cause other than influenza.

The national and regional baselines are the mean percentage of visits for ILI during noninfluenza weeks for the previous three seasons plus two standard deviations. A noninfluenza week is a week during which <10% of specimens tested positive for influenza. National and regional percentages of patient visits for ILI are weighted on the basis of state population. Use of the national baseline for regional data is not appropriate.

FIGURE 2. Percentage of visits for influenza-like illness (ILI) reported by U.S. Outpatient Influenza-like Illness Surveillance Network (ILINet), by surveillance week — United States, September 28, 2008–April 4, 2009 and 2006–07 and 2007–08 influenza seasons



- *The 2006–07 and 2007–08 seasons did not have a week 53; therefore the week 53 data point for those seasons is an average of weeks 52 and 1.
- [†]The national and regional baselines are the mean percentage of visits for ILI during noninfluenza weeks for the previous three seasons plus two standard deviations. A noninfluenza week is a week during which <10% of specimens tested positive for influenza. National and regional percentages of patient visits for ILI are weighted on the basis of state population. Use of the national baseline for regional data is not appropriate.

ranged from 6.1% to 7.6%, and remained below the epidemic threshold.**

Influenza-Associated Hospitalizations

Hospitalizations associated with laboratory-confirmed influenza infections are monitored by two population-based surveillance networks, the New Vaccine Surveillance Network (NVSN) and the Emerging Infections Program (EIP).^{††}

From October 12, 2008, to March 21, 2009, the preliminary laboratory-confirmed influenza-associated hospitalization rate for children aged 0–4 years in the NVSN was 1.46 per 10,000.

From October 1, 2008, to March 28, 2009, preliminary rates of laboratory-confirmed influenza-associated hospitalization reported by the EIP for children aged 0–4 years and 5–17 years were 2.8 and 0.5 per 10,000, respectively (Figure 3). For adults aged 18–49 years, 50–64 years, and ≥65 years, the rates were 0.3, 0.4, and 1.0 per 10,000, respectively. Differences in the rate estimates between the NVSN and the EIP systems likely result from the different case-finding methods and the different populations monitored.

Influenza-Associated Pediatric Mortality

Since September 28, 2008, CDC has received 45 reports of influenza-associated pediatric deaths that occurred during the current season. Of the 27 decedents who had specimens collected for bacterial culture from normally sterile sites, 12 (44.4%) were positive; *Staphylococcus aureus* was identified in eight of the 12 children. Three of the *S. aureus* isolates were sensitive to methicillin, and five were methicillin resistant. Among the 12 children with bacterial coinfections, all were aged \geq 5 years, and 10 (83.3%) were aged \geq 12 years. An increase in the number of influenza-associated pediatric deaths with *S. aureus* coinfections was first recognized during the 2006–07 influenza season (4).

Of the 36 decedents aged >6 months for whom patient vaccination status was known, five (13.9%) had been vaccinated against influenza according to 2008 Advisory Committee on Immunization Practices recommendations (5). These data are provisional and subject to change as more information becomes available.

Reported by: WHO Collaborating Center for Surveillance, Epidemiology, and Control of Influenza. P Peebles, L Brammer, MPH, S Epperson, MPH, L Blanton, MPH, R Dhara, MPH, T Wallis, MS, L Finelli, DrPH, L Gubareva, PhD, J Bresee, MD, A Klimov, PhD, N Cox, PhD, Influenza Div, National Center for Immunization and Respiratory Diseases, CDC.

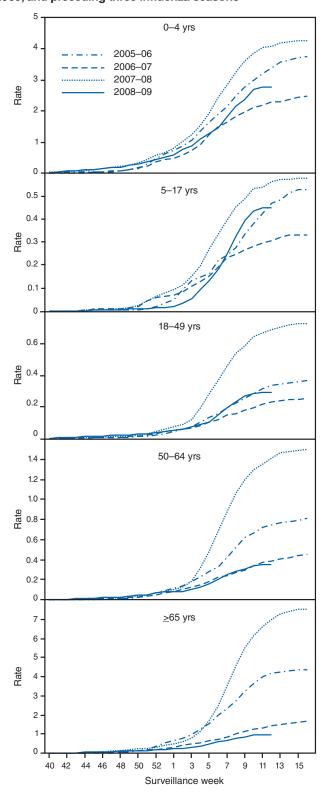
Editorial Note: From September 28, 2008, through early January 2009, the United States experienced low levels of influenza activity. Activity increased in mid-January, peaked in mid-February, and remained high until mid-March. Since mid-March, influenza levels have been decreasing nationally.

Preliminary data from the U.S. virologic surveillance networks (WHO and NREVSS collaborating laboratories), the percentage of deaths attributable to pneumonia and influenza, and the percentage of outpatient visits for ILI suggest that this season has been less severe than the 2007–08 season and is more similar to the 2005–06 and 2006–07 seasons. The

^{**} The seasonal baseline proportion of pneumonia and influenza deaths is projected using a robust regression procedure in which a periodic regression model is applied to the observed percentage of deaths from pneumonia and influenza that were reported by the 122 Cities Mortality Reporting System during the preceding 5 years. The epidemic threshold is 1.645 standard deviations above the seasonal baseline.

^{††} NVSN conducts surveillance in Monroe County, New York; Hamilton County, Ohio; and Davidson County, Tennessee. NVSN provides population-based estimates of laboratory-confirmed influenza hospitalization rates in children aged <5 years admitted to NVSN hospitals with fever or respiratory symptoms. Children are prospectively enrolled, and respiratory samples are collected and tested by viral culture and reverse transcription-polymerase chain reaction (RT-PCR). EIP currently conducts surveillance for laboratory-confirmed, influenza-related hospitalizations in 61 counties and Baltimore, Maryland. The EIP catchment area includes 13 metropolitan areas: San Francisco, California; Denver, Colorado; New Haven, Connecticut; Atlanta, Georgia; Baltimore, Maryland; Minneapolis/St. Paul, Minnesota; Albuquerque, New Mexico; Las Cruces, New Mexico; Santa Fe, New Mexico; Albany, New York; Rochester, New York; Portland, Oregon; and Nashville, Tennessee. Hospital laboratory, admission, and discharge databases, and infection-control logs are reviewed to identify persons with a positive influenza test (i.e., viral culture, direct fluorescent antibody assays, RT-PCR, serology, or a commercial rapid antigen test) from testing conducted as part of their routine care.

FIGURE 3. Cumulative laboratory-confirmed influenza hospitalization rates,* by age group[†] and surveillance week — Emerging Infections Program, United States, October 1, 2008–March 28, 2009, and preceding three influenza seasons



^{*} Per 10,000 population.

percentage of specimens tested for influenza that were positive peaked at 25.0% during the week ending February 14, 2009, compared with 31.6% in 2007–08, 27.7% in 2006–07, and 22.6% in 2005–06. To date during this season, the percentage of deaths attributable to pneumonia and influenza peaked at 7.6% and has not exceeded the epidemic threshold. By comparison, pneumonia and influenza mortality peaked at 9.1%, 7.9%, and 7.8% during the 2007–08, 2006–07, and 2005–06 seasons, respectively. The epidemic threshold for pneumonia and influenza deaths was exceeded for 9 consecutive weeks during the 2007–08 season and for only 1 week during both the 2005–06 and 2006–07 seasons. The percentage of outpatient visits for ILI peaked at 3.7% this season, compared with 6.0% in 2007–08, 3.6% in 2006–07, and 3.1% in 2005–06.

During this influenza season, a high level of resistance to the antiviral drug oseltamivir was detected among circulating influenza A (H1N1) viruses. Since October 1, 2008, 99.3% of influenza A (H1N1) viruses tested were resistant to oseltamivir. To date, influenza A has accounted for 67.3% of all influenza viruses identified, and influenza A (H1N1) has accounted for 89.8% of the influenza A viruses that were subtyped. No oseltamivir resistance has been detected among influenza A (H3N2) or B viruses currently circulating in the United States; however, all the influenza A (H3N2) viruses tested were resistant to adamantanes. The adamantanes are not effective against influenza B viruses. None of the influenza A (H1N1) viruses tested were resistant to both oseltamivir and the adamantanes, and all influenza viruses tested this season have been susceptible to zanamivir. CDC issued interim guidelines for the use of influenza antiviral medications on December 19, 2008. Health-care providers should review their local surveillance data if available to determine which types (A or B) and subtypes of influenza A (H1N1 or H3N2) are most prominent in their community and consider using diagnostic tests to distinguish influenza A from influenza B. When an influenza A (H1N1) virus infection or exposure is suspected, zanamivir is the preferred medication; combination therapy of oseltamivir and rimantidine is an acceptable alternative (6).

Since early February, the relative proportion of influenza B viruses has been increasing each week, and more than half of influenza viruses identified since the week ending March 14, 2009, were influenza B. Approximately 80% of influenza B viruses tested have not been related to the influenza B vaccine strain. However, all influenza B viruses this season have been susceptible to oseltamivir and zanamivir. Health-care providers should be aware of these recent increases in influenza B viruses and of the differences in antiviral resistance patterns compared with influenza A (H1N1) viruses. When an influenza B infection or exposure is detected, treatment with oseltamivir or zanamivir is recommended. However, when the type or

[†]Scales differ among age groups.

subtype is unknown, zanamivir is the preferred medication; combination therapy of oseltamivir and rimantidine also is acceptable (6).

To date this season, the cumulative laboratory-confirmed, influenza-associated hospitalization rate reported by EIP among persons aged ≥ 50 years has been lower than rates reported for the previous three seasons, but most similar to the 2006–07 season. Historically, excess mortality has been lower in seasons during which influenza A (H1N1) or influenza B predominated than during seasons in which influenza A (H3N2) has predominated (7). During the current and 2006–07 seasons, influenza A (H1N1) has been the prominent virus subtype circulating, which could partly explain the lower influenza-associated hospitalization rates among persons aged ≥ 50 years observed during these two seasons.

Vaccination remains the best method for preventing influenza virus infection and its complications. Influenza vaccination can prevent influenza infections from strains that are sensitive or resistant to antiviral medications. Thus far this season, all the influenza A viruses that have been characterized, including oseltamivir-resistant (H1N1) viruses, are antigenically related to the components in the vaccine. However, approximately 80% of influenza B viruses tested are from a distinct lineage that is not related to the vaccine strain. Limited or no protection is expected when the vaccine and circulating virus strains are from different lineages (8,9). The composition of the 2009–10 influenza vaccine includes the same influenza A (H1N1 and H3N2) components, and a change in the influenza B component from the Yamagata to the Victoria lineage.

Influenza surveillance reports for the United States are posted weekly online at http://www.cdc.gov/flu/weekly/flu activity.htm during the influenza season from October to mid-May. Additional information regarding influenza viruses, influenza surveillance, the influenza vaccine, and avian influenza is available at http://www.cdc.gov/flu.

Acknowledgments

This report is based, in part, on data contributed by participating state and territorial health departments and state public health laboratories, World Health Organization collaborating laboratories, National Respiratory and Enteric Virus Surveillance System collaborating laboratories, the U.S. Outpatient ILI Surveillance Network, the Emerging Infections Program, the New Vaccine Surveillance Network, the Influenza Associated Pediatric Mortality Surveillance System, and the 122 Cities Mortality Reporting System.

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FDA Approval of Expanded Age Indication for a Tetanus Toxoid, Reduced Diphtheria Toxoid and Acellular Pertussis Vaccine

On December 4, 2008, the Food and Drug Administration (FDA) approved an expanded age indication for the tetanus toxoid, reduced diphtheria toxoid and acellular pertussis vaccine (Tdap) Boostrix (GlaxoSmithKline Biologicals, Rixensart, Belgium). Boostrix is now licensed for use in persons aged 10–64 years as a single-dose booster immunization; the vaccine initially was licensed for persons aged 10–18 years. This announcement summarizes the indications for use of Boostrix. Complete recommendations of the Advisory Committee on Immunization Practices (ACIP) for Tdap vaccines have been described previously (*1*–*3*).

On October 23, 2008, ACIP was presented data on the safety and immunogenicity of Boostrix in adults aged 19–64 years and notified of the impending expanded age indication for Boostrix. Guidance for the use of Boostrix is the same as for Adacel (Sanofi Pasteur, Toronto, Canada), another Tdap vaccine licensed for use in adults.

Data were reviewed by ACIP from two clinical trials conducted among U.S. adults aged 19–64 years. In both trials, the safety and reactogenicity profiles of Boostrix generally were similar to those of Adacel. For diphtheria and tetanus, immune responses to Boostrix were noninferior. Pertussis antibody concentrations for pertussis toxoid (PT), filamentous hemagglutinin (FHA), and pertactin in the first clinical trial were noninferior to those of infants after a primary diphtheria and tetanus toxoids and acellular pertussis (DTaP) vaccination

series with Infanrix (GlaxoSmithKline Biologicals, Rixensart, Belgium) in a clinical trial in which efficacy of DTaP also was demonstrated (4–6). Boostrix contains the same three pertussis antigens as Infanrix but in reduced quantities.

Coadministration with influenza vaccine was evaluated in the second trial. In this trial, seroresponse to concomitantly or separately administered Boostrix and influenza vaccine Fluarix (GlaxoSmithKline Biologicals, Rixensart, Belgium) were noninferior for diphtheria, tetanus, PT, and influenza. Noninferiority criteria were marginally exceeded for FHA and pertactin responses; however, serologic correlates of protection for pertussis have not been established. Antibody levels in both groups exceeded those observed in infants after primary DTaP vaccination, in trials in which efficacy of DTaP against pertussis disease was subsequently demonstrated. Decreased immune response to Tdap pertussis antigens when coadministered with influenza vaccine has been reported previously for other U.S.-licensed Tdap vaccines (7).

Indications and Guidance for Use

For prevention of tetanus, diphtheria, and pertussis, adolescents and adults are recommended to receive a one-time booster dose of Tdap. Adolescents aged 11–18 years who have completed the recommended childhood diphtheria and tetanus toxoids and pertussis vaccine (DTP)/DTaP vaccination series should receive a single dose of Tdap instead of tetanus and diphtheria toxoids (Td) vaccine, preferably at a preventive care visit at age 11 or 12 years (*I*). For adults aged 19–64 years who previously have not received a dose of Tdap, a single dose of Tdap should replace a single decennial Td booster dose (*2*).

Boostrix is now indicated for use as a single-dose booster immunization in persons aged 10–64 years. The recommended interval between 2 doses of Td-containing vaccines in adolescents and adults is at least 5 years because of concern over increased reactogenicity (1,2); however, data are available suggesting that intervals as short as approximately 2 years are safe (8). An interval <5 years between Td and Tdap may be used if increased risk for acquiring pertussis (e.g., during outbreaks or periods of increased pertussis activity in the community, or among health-care workers) exists (1,2). The safety and effectiveness of Tdap have not been established in pregnant women, nursing mothers, and children aged <10 years. Current doses in stock can be used for persons aged 10–64 years.

References

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- 8. Halperin SA, Sweet L, Baxendale D, et al. How soon after a prior tetanusdiphtheria vaccination can one give adult formulation tetanus-diphtheriaacellular pertussis vaccine? Pediatr Infect Dis J 2006;25:195–200.

Notice to Readers

Availability of Provisional Tuberculosis and HIV/AIDS Data in Quarterly Table IV

CDC is in the process of 1) implementing Public Health Information Network tuberculosis (TB) case notification message standards, which will simplify reporting of TB cases, and 2) upgrading the national surveillance data management system for human immunodeficiency virus/acquired immunodeficiency syndrome. As a result, the quarterly Table IV scheduled for this issue of *MMWR* is not being published.

TABLE I. Provisional cases of infrequently reported notifiable diseases (<1,000 cases reported during the preceding year) — United States, week ending April 11, 2009 (14th week)*

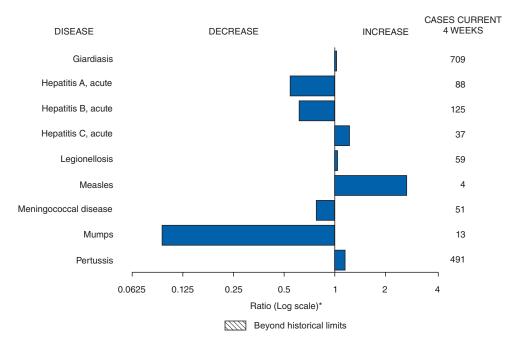
	Current	Cum	5-year weekly			evious	years		States reporting cases
Disease	week	2009	average†	2008	2007	2006	2005	2004	during current week (No.)
Anthrax	_	_	_	_	1	1	_	_	
Botulism:		_		47	00	00	40	40	
foodborne	_	5	0	17	32	20	19	16	DA (4)
infant	1	14	2	105	85	97	85	87	PA (1)
other (wound and unspecified) Brucellosis	_ 1	7 14	1 2	19 78	27 131	48	31 120	30	NE (1)
Chancroid	1	13	1	78 29	23	121 33	17	114 30	NE (1)
Cholera		1	0	3	23 7	9	8	6	VA (1)
Cyclosporiasis§		25	2	137	93	137	543	160	
Diphtheria	_	_	_	- 107		- 107	J45	_	
Domestic arboviral diseases [§] ,¶:									
California serogroup	_	_	0	62	55	67	80	112	
eastern equine	_	_	_	4	4	8	21	6	
Powassan	_	_	_	2	7	1	1	1	
St. Louis	_	_	0	13	9	10	13	12	
western equine	_	_	_	_	_	_	_	_	
Ehrlichiosis/Anaplasmosis§,**:									
Ehrlichia chaffeensis	3	34	2	917	828	578	506	338	MO (1), MD (1), CA (1)
Ehrlichia ewingii	_	_	_	8					
Anaplasma phagocytophilum	1	12	3	662	834	646	786	537	NC (1)
undetermined	_	5	1	70	337	231	112	59	
Haemophilus influenzae,††									
invasive disease (age <5 yrs):		10	0	0.5	00	00	0	10	
serotype b	_	10	0	25	22	29	9	19	CC (1) WA (1)
nonserotype b	2 2	61 53	3 4	174 176	199 180	175 179	135 217	135 177	SC (1), WA (1)
unknown serotype Hansen disease [§]	_	15	2	78	101	66	87	105	FL (1), WA (1)
Hantavirus pulmonary syndrome§	_	15	0	18	32	40	26	24	
Hemolytic uremic syndrome, postdiarrheal§	1	30	3	269	292	288	221	200	CA (1)
Hepatitis C viral, acute	11	188	15	863	845	766	652	720	PA (1), OH (1), MI (1), IA (2), MO (1), NC (2),
Topatilo o vital, aodio		100	10	000	0.10	700	002	720	KY (1), CO (1), OR (1)
HIV infection, pediatric (age <13 years) ^{§§}	_	_	3	_	_	_	380	436	(.), 55 (.), 5 (.)
Influenza-associated pediatric mortality§,¶¶	8	54	2	88	77	43	45	_	PA (2), MI (2), DE (1), TN (1), TX (2)
Listeriosis	4	120	11	752	808	884	896	753	NY (1), MO (1), TN (1), AL (1)
Measles***	1	14	2	138	43	55	66	37	PA (1)
Meningococcal disease, invasive†††:									
A, C, Y, and W-135	1	86	7	328	325	318	297	_	FL (1)
serogroup B	_	46	3	180	167	193	156	_	
other serogroup	_	6	1	30	35	32	27	_	
unknown serogroup	11	137	17	613	550	651	765	_	NY (1), OH (1), FL (2), CO (1), AZ (2), CA (4)
Mumps	4	83	91	436		6,584	314	258	NY (1), AZ (1), WA (2)
Novel influenza A virus infections	_	1	_	2	4	N	N	N	
Plague	_	_	_	1	7	17	8	3	
Poliomyelitis, paralytic	_	_	_	_	_		1		
Polio virus infection, nonparalytic [§] Psittacosis [§]	_	<u> </u>	0	9	12	N 21	N 16	N 12	
Q fever total ^{§,§§§} :	_	11	2	101	171	169	136	70	
acute		8	1	90	1/1	109	130	70	
chronic		3		11				_	
Rabies, human	_	_	_	1	1	3	2	7	
Rubella ¹¹¹¹	_	_	0	18	12	11	11	10	
Rubella, congenital syndrome	_	1	0	_		1	1	_	
SARS-CoV [§] ,****	_		_	_	_			_	
Smallpox§	_	_	_	_	_	_	_	_	
Streptococcal toxic-shock syndrome§	_	48	5	149	132	125	129	132	
Syphilis, congenital (age <1 yr)	_	44	7	348	430	349	329	353	
Tetanus	_	4	0	19	28	41	27	34	
Toxic-shock syndrome (staphylococcal)§	2	19	1	73	92	101	90	95	NV (1), CA (1)
Trichinellosis	_	7	0	37	5	15	16	5	•
Гularemia	1	6	0	118	137	95	154	134	OH (1)
Гурhoid fever	3	92	6	441	434	353	324	322	CT (1), MD (1), FL (1)
Vancomycin-intermediate Staphylococcus aureus		14	0	46	37	6	2	_	
Vancomycin-resistant Staphylococcus aureus§	_	_	0		_ 2	1	3	1	
Vibriosis (noncholera Vibrio species infections)§	3	38	2	487	549	N	N	N	FL (1), WA (1), CA (1)

See Table I footnotes on next page.

TABLE I. (Continued) Provisional cases of infrequently reported notifiable diseases (<1,000 cases reported during the preceding year) — United States, week ending April 11, 2009 (14th week)*

- -: No reported cases. N: Not notifiable. Cum: Cumulative year-to-date counts.
 - * Incidence data for reporting year 2008 and 2009 are provisional, whereas data for 2004, 2005, 2006, and 2007 are finalized.
 - † Calculated by summing the incidence counts for the current week, the 2 weeks preceding the current week, and the 2 weeks following the current week, for a total of 5 preceding years. Additional information is available at http://www.cdc.gov/epo/dphsi/phs/files/5yearweeklyaverage.pdf.
 - § Not notifiable in all states. Data from states where the condition is not notifiable are excluded from this table, except starting in 2007 for the domestic arboviral diseases and influenza-associated pediatric mortality, and in 2003 for SARS-CoV. Reporting exceptions are available at http://www.cdc.gov/epo/dphsi/phs/infdis.htm.
 - Includes both neuroinvasive and nonneuroinvasive. Updated weekly from reports to the Division of Vector-Borne Infectious Diseases, National Center for Zoonotic, Vector-Borne, and Enteric Diseases (ArboNET Surveillance). Data for West Nile virus are available in Table II.
- ** The names of the reporting categories changed in 2008 as a result of revisions to the case definitions. Cases reported prior to 2008 were reported in the categories: Ehrlichiosis, human monocytic (analogous to *E. chaffeensis*); Ehrlichiosis, human granulocytic (analogous to *Anaplasma phagocytophilum*), and Ehrlichiosis, unspecified, or other agent (which included cases unable to be clearly placed in other categories, as well as possible cases of *E. ewingil*).
- †† Data for H. influenzae (all ages, all serotypes) are available in Table II.
- §§ Updated monthly from reports to the Division of HIV/AIDS Prevention, National Center for HIV/AIDS, Viral Hepatitis, STD, and TB Prevention. Implementation of HIV reporting influences the number of cases reported. Updates of pediatric HIV data have been temporarily suspended until upgrading of the national HIV/AIDS surveillance data management system is completed. Data for HIV/AIDS, when available, are displayed in Table IV, which appears quarterly.
- III Updated weekly from reports to the Influenza Division, National Center for Immunization and Respiratory Diseases. Fifty-three influenza-associated pediatric deaths occurring during the 2008-09 influenza season have been reported.
- *** The one measles case reported for the current week was imported.
- ††† Data for meningococcal disease (all serogroups) are available in Table II.
- §§§ In 2008, Q fever acute and chronic reporting categories were recognized as a result of revisions to the Q fever case definition. Prior to that time, case counts were not differentiated with respect to acute and chronic Q fever cases.
- 1111 No rubella cases were reported for the current week.
- **** Updated weekly from reports to the Division of Viral and Rickettsial Diseases, National Center for Zoonotic, Vector-Borne, and Enteric Diseases.

FIGURE I. Selected notifiable disease reports, United States, comparison of provisional 4-week totals April 11, 2009, with historical data



^{*} 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.

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TABLE II. Provisional cases of selected notifiable diseases, United States, weeks ending April 11, 2009, and April 5, 2008 (14th week)*

			Chlamyd	ia [†]				idiodomy	/cosis				otosporidi	osis	
		Prev 52 w					Prev 52 w					Prev 52 w			
Reporting area	Current week	Med	Max	Cum 2009	Cum 2008	Current week	Med	Max	Cum 2009	Cum 2008	Current week	Med	Max	Cum 2009	Cum 2008
United States	11,298	21,847	25,374	274,240	300,959	113	56	231	1,974	607	80	106	473	984	998
New England Connecticut	730 90 47	746 224	1,656 1,306	10,574 2,880	9,325 2,158	 N	0 0 0	0 0 0	N N	1 N N	3 1	5 0	23 7 6	61 7	102 41 4
Maine [§] Massachusetts	541	48 326	72 954	714 5,666	720 4,736	N N	0	0	N N	N	1	0 2	13	5 29	29
New Hampshire Rhode Island [§]	4 48	36 53	63 208	290 741	567 834	_	0 0	0 0	_	1	_	1 0	4 3	9 1	14 2
Vermont§	_	21	53	283	310	N	0	0	N	N	1	1	7	10	12
Mid. Atlantic New Jersey	2,449	2,854 398	6,807 762	40,214 4,102	37,134 6,244	 N	0	0	N	N	8	13 0	35 4	117	131 12
New York (Upstate)	668	565	4,554	8,178	6,603	N	0	0	N	N	3	4	17	38	28
New York City Pennsylvania	1,203 578	1,107 797	3,389 1,074	16,841 11,093	12,644 11,643	N N	0 0	0 0	N N	N N	5	1 5	8 15	18 61	26 65
E.N. Central	1,279	3,327	4,294	36,541	51,186		1	3	8	14	16	25	125	219	220
Illinois Indiana	369	1,056 378	1,315 713	9,268 5,704	15,394 5,683	N N	0	0 0	N N	N N	_	2 3	13 13	14 25	25 21
Michigan Ohio	691 58	834 797	1,225 1,346	12,584 4,959	12,078 12,311	_	0	3 2	2 6	11 3	1 14	5 6	13 59	49 72	45 56
Wisconsin	161	289	439	4,026	5,720	N	0	0	N	N	1	9	46	59	73
W.N. Central Iowa	694	1,323 182	1,550 256	17,065 2,445	17,787 2,359	_ N	0	1 0	1 N	N	13 2	16 4	68 30	130 28	134 36
Kansas	210	185	401	2,634	2,363	N	0	Ö	N	N	2	1	8	19	12
Minnesota Missouri	347	267 491	310 576	2,696 7.048	4,005 6,499	_	0 0	0 1	1	_	5 3	4 3	14 13	23 28	32 20
Nebraska [§] North Dakota	88	101 28	254 60	1,277 156	1,306 521	N N	0	0	N N	N N	1	2	8 2	15 1	20 1
South Dakota	49	57	85	809	734	N	0	Ö	N	N	_	1	9	16	13
S. Atlantic	2,518	3,840 70	4,973	46,451	54,320	_	0	1 1	4	2	21	18	47 1	216	180
Delaware District of Columbia	46 —	129	163 229	1,306 1,894	942 1,797	_	0	Ö		_	_	0 0	2	_	4 2
Florida Georgia	1,187 1	1,401 611	1,571 1,274	19,860 3.111	18,073 9,520	N N	0 0	0	N N	N N	10 4	8 5	35 13	74 89	83 55
Maryland [§]	548	434	692	5,622	5,861	_	0	1	3	2	2	1	4	9	3
North Carolina South Carolina [§]	_	0 527	460 917	6,259	2,352 7,533	N N	0 0	0 0	N N	N N	5	0 1	16 4	26 10	9 8
Virginia [§] West Virginia	712 24	616 64	908 102	7,366 1,033	7,293 949	N N	0	0	N N	N N	_	1 0	4 3	6 2	9 7
E.S. Central	614	1,679	2,152	23,102	21,584	_	0	0	_	_	3	3	9	29	31
Alabama [§] Kentucky	— 48	467 253	553 380	5,134 3,197	6,808 2,772	N N	0 0	0	N N	N N	2 1	1 1	6 4	7 8	15 4
Mississippi	_	419	841	6,456	4,542	N	0	0	N	N	_	0	2	4	3
Tennessee§ W.S. Central	566 367	545 2,862	797 3,959	8,315 35,954	7,462 38,780	N —	0	0 1	N	N 1	_	1 8	5 256	10 37	9 45
Arkansas§	304	275	392	4,128	3,895	N	0	Ö	N	Ň	_	1	7	3	3
Louisiana Oklahoma	63	434 184	1,090 407	4,563 1,602	4,844 3,361	N	0 0	1 0	N	1 N	_	1 1	5 16	5 10	9 11
Texas [§]	_	1,931	2,496	25,661	26,680	N	0	0	N	N	_	5	250	19	22
Mountain Arizona	558 173	1,261 475	1,985 645	14,789 5,009	19,615 6,313	75 74	2	148 147	1,365 1,338	35	9	7 0	34 2	71 7	76 —
Colorado Idaho [§]	— 85	144 67	588 314	1,518 918	4,775 1,101	N N	0	0	N N	N N	6 1	1 1	12 5	23 9	19 15
Montana§	51	59	87	818	844	N	Ö	Ö	N	N	2	Ö	3	6	10
Nevada [§] New Mexico [§]	115 109	175 150	415 455	2,854 2,125	2,729 1,941	1	1 0	7 2	21 1	16 11	_	0 2	4 23	6 13	3 14
Utah Wyoming§	1 24	101 33	252 97	973 574	1,609	_	0	1 1	5	8	_	0	6 2	1 6	9 6
Pacific	2,089	3,665	4,461	49,550	51,228	38	37	172	 596	554	7	8	30	104	79
Alaska California	115 1,272	88 2,874	200 3,318	1,218 38,210	1,234 39,509	N 38	0 37	0 172	N 596	N 554	-	0 5	1 14	1 58	1 52
Hawaii	30	112	248	1,372	1,531	N	0	0	N	N	_	0	1	_	1
Oregon [§] Washington	224 448	185 405	631 557	2,597 6,153	2,887 6,067	N N	0 0	0 0	N N	N N	2 1	1 1	5 17	36 9	14 11
American Samoa	_	0	14	_	42	N	0	0	N	N	N	0	0	N	N
C.N.M.I. Guam	_	 5	24	_	34	_	0	0	_	_	_	0		_	_
Puerto Rico	154	140	333	2,132	1,450	N	0	0	N	N	N	0	0	N	N
U.S. Virgin Islands	1	9	riana Islai	41	201		0	0				0	0		

C.N.M.I.: Commonwealth of Northern Mariana Islands.
U: Unavailable. —: No reported cases. N: Not notifiable. Cum: Cumulative year-to-date counts. Med: Median. Max: Maximum.

* Incidence data for reporting year 2008 and 2009 are provisional. Data for HIV/AIDS, AIDS, and TB, when available, are displayed in Table IV, which appears quarterly.

† Chlamydia refers to genital infections caused by Chlamydia trachomatis.

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

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending April 11, 2009, and April 5, 2008 (14th week)*

United States				Giardiasis	s				Gonorrhe	а				s <i>infl</i> uenz s, all sero	,	ive
Reporting area Week Med Max 2009 2008 Week Med Max 2009 2008 2008 Week Med Max 2009 2008 200		_					_			_		_				
United States	Reporting area															Cum 2008
Connecticut — 6 4 14 60 81 15 50 275 560 465 — 0 11 10 1 10 1 1 10 1 1 10 1 1 10 1 1 10 1 1 10 1 1 10 1 1 10 1 1 10 1 1 10 1 1 10 1 1 10 1 1 10 1 1 10 1 1 10 1 1 10 1 1 10 1 1 10 1 1 10 1 1 1 10 1 1 1 10 1 1 1 10 1 1 1 10 1	United States	203	313	632	3,576	3,794	2,327	5,829	6,842		84,769	41	47		718	
Maine Main																
Massachuseths		_														
Rhode Islands	Massachusetts	8		27	117	154	57	38	113	596	653	_	1	5	26	31
Vermone		_														
New York (Clystate) 18 23 76 283 233 119 116 666 140 150 150 150 160 160 160 160 160 160 160 160 160 16		1					_								-	
New York (Upstate) 18 23 76 283 233 119 116 666 1,495 1,498 5 3 20 42 38 New York (Upstate) 1 15 30 773 203 214 208 584 3.053 2,144 — 2 4 16 31 Pennsylvania 9 16 46 165 179 91 200 267 2,388 3,036 3 4 10 64 62 62 62 62 62 62 62 62 62 62 62 62 62		28			621		424									
New York Cirly 1 15 30 173 203 214 208 564 3,053 2,124 — 2 4 16 31 Pennsylvania 9 16 46 165 179 91 200 267 2,388 3,036 3 4 10 64 62 E.N. Central 29 49 88 498 575 380 1,175 1,579 11,267 18,353 3 7 18 76 146 Illinois — 11 32 68 154 — 380 1,175 1,579 11,267 18,353 3 7 18 76 146 Illinois — 11 32 21 1N N N 130 140 2,241 1,880 2,344 — 2 7 20 48 Illinois N 1 0 7 2 N N N 130 140 2,241 1,880 2,343 — 1 13 10 31 Political N 2 17 32 1 1 10 12 170 2 140 2 150 140 2,343 — 1 13 10 31 Political Wisconsin 4 9 20 85 86 45 78 141 1,132 1,685 1 0 2 7 111 Wisconsin 4 9 20 85 86 45 78 141 1,132 1,685 1 0 2 7 111 Wisconsin 4 9 20 85 86 8 — 28 53 3,27 415 — 0 1 1 — 1 1 — 1 1 Missouri Wisconsin 4 9 20 85 86 8 — 28 53 3,27 415 — 0 1 4 7 6 6 Missouri Wisconsin 4 9 20 85 86 8 — 28 53 3,27 415 — 0 1 1 — 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		 18			283		119									
EN. Central 29 49 88 498 575 380 1,175 1,579 11,267 18,333 3 7 18 76 146 146 146 146 146 147	New York City	1	15	30	173	203	214	208	584	3,053	2,124	_	2	4	16	31
Illinois	•									,						
Indiana																
Ohio 23 17 31 210 213 26 264 531 1.518 4.683 2 2 6 6 32 49 Wisconsin 4 9 20 95 86 45 78 141 1.132 1.685 1 0 2 7 111 W.N. Central 54 26 143 319 369 144 315 391 3.684 4.493 3 3 3 14 50 62 1000 3 6 186 18 63 68 — 28 53 327 415 — 0 1 1 — 1 1	Indiana		0	7	N	N		146	254	1,890	2,343	_	1	13	10	31
Wisconsin																
lowa																
Kansas 5 3 11 34 26 34 45 83 662 565 1 0 4 7 6 6 Minnesotia 43 0 106 45 115 — 54 78 438 914 — 0 10 11 11 11 Missouri 3 8 22 122 95 85 146 193 1,807 2,124 2 1 4 2 13 2 13 2 14 Missouri 4 3 8 22 122 95 85 146 193 1,807 2,124 2 1 4 2 13 2 13 2 14 Missouri 5 2 1 1 18 18 16 5 8 2 7 6 33 — 0 3 3 3 4 0 3 3 4 5 0 10 10 11 11 11 11 11 Missouri 5 2 11 18 16 5 8 2 7 6 6 33 — 0 3 3 3 4 0 3 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1							144					3				
Minnesota							34					_ 1				
Nebraskale	Minnesota	43	0	106	45	115	_	54	78	438	914	_	0	10	11	11
North Dakota																
S. Altanic	North Dakota		0		3		_	2	7	6	33		0	3		
Delaware																_
District of Columbia		37 —										14				243
Georgia	District of Columbia	-	0	5	_	10	_	57	101	774	568	_	0	2	_	4
Marylands																
South Carolina	Maryland§		5	10	62	51		114	210		1,656			5	29	44
Viriginias — 8 31 87 60 180 181 321 1,719 2,304 — 1 5 11 31 8 4 12 26 149 230 — 0 3 11 8 E.S. Central 4 8 22 76 107 168 549 771 6,798 7,847 3 3 6 41 51 Alabamas 2 4 112 40 61 — 174 216 1,607 2,784 3 3 6 41 51 Alabamas 2 4 112 40 61 — 174 216 1,600 — 0 2 2 4 Allabamas 2 4 113 36 4 1,060 — 0 2 2 4 Mississippi N 0 0 N N — 143 253<							_							6		
E.S. Central				31					321		2,304		1	5		31
Alabama\(\begin{array}{c c c c c c c c c c c c c c c c c c c	o .	_														
Kentucky																
Tennessee\$ 2 4 13 36 46 152 165 301 2,293 2,238 1 2 5 28 33 W.S. Central 3 7 21 65 64 93 952 1,300 10,217 13,578 3 2 17 30 37 Arkansas\$		N	0	0	N	N		88	153	914	1,060		0			4
W.S. Central 3 7 21 65 64 93 952 1,300 10,217 13,578 3 2 17 30 37 Arkansas\$\$ — 2 8 17 26 75 84 167 1,186 1,284 — 0 2 3 1 Louisiana — 2 110 27 24 1 165 410 1,520 2,462 — 0 1 4 3 Oklahoma 3 3 11 21 14 17 69 142 570 1,300 3 1 16 23 29 Texas\$\$ N 0 0 N N — 605 728 6,941 8,532 — 0 1 — 4 Arizona 4 3 8 44 30 27 63 84 567 962 1 0 6 36 —<																
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Oklahoma Texas 3 3 11 21 14 17 69 142 570 1,300 3 1 16 23 29 Mountain 16 27 62 272 320 83 195 339 1,684 3,033 4 4 10 88 70 Arizona 4 3 8 44 30 27 63 84 567 962 1 0 6 36 — Colorado 7 10 27 89 111 — 55 101 205 774 1 1 5 22 25 Idaho§ 3 3 14 28 34 3 3 13 27 55 — 0 4 1 1 New Mexico§ 3 1 1 8 13 29 17 34 129 528 710 1 0 2	Arkansas§	_	2	8	17	26	75	84	167	1,186	1,284	_	0	2	3	1
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Colorado 7 10 27 89 111 — 55 101 205 774 1 1 5 22 25 Idaho [§] 3 3 14 28 34 3 3 13 27 55 — 0 4 1	Mountain															70
Idaho\$ 3 3 14 28 34 3 3 13 27 55 0 4 1 1 Montana\$ 2 9 24 21 2 6 24 26 0 1 1 1 Nevada\$ 1 1 8 13 29 17 34 129 528 710 1 0 2 8 6 New Mexico\$ 1 8 16 30 34 23 48 262 332 1 2 9 16 Utah												-				 25
Nevada [§] 1 1 8 13 29 17 34 129 528 710 1 0 2 8 6 New Mexico§ — 1 8 16 30 34 23 48 262 332 — 1 2 9 16 Utah 1 7 18 44 55 — 6 19 52 159 1 0 2 11 21 Wyoming§ — 0 3 14 10 2 2 9 19 15 — 0 2 — — Pacific 23 56 152 557 675 290 577 672 7,297 8,996 3 2 6 39 39 Alaska 1 2 10 18 21 14 12 24 192 131 — 0 2 3 4	Idaho§		3	14	28	34	3	3	13	27	55		0	4	1	1
New Mexicos — 1 8 16 30 34 23 48 262 332 — 1 2 9 16 Utah 1 7 18 44 55 — 6 19 52 159 1 0 2 11 21 Wyomings — 0 3 14 10 2 2 9 19 15 — 0 2 — — Pacific 23 56 152 557 675 290 577 672 7,297 8,996 3 2 6 39 39 Alaska 1 2 10 18 21 14 12 24 192 131 — 0 2 3 4 California 15 35 59 404 488 213 476 575 5,958 7,369 — 0 3 7 13 <td></td>																
Wyoming§ — 0 3 14 10 2 2 9 19 15 — 0 2 — — Pacific 23 56 152 557 675 290 577 672 7,297 8,996 3 2 6 39 39 Alaska 1 2 10 18 21 14 12 24 192 131 — 0 2 3 4 California 15 35 59 404 488 213 476 575 5,958 7,369 — 0 2 3 4 Hawaii — 0 4 2 8 8 12 21 147 155 — 0 2 11 5 Oregon§ 1 7 18 73 117 11 23 48 304 394 1 1 4 15 17	New Mexico§	_	1	8	16	30		23	48	262	332	_	1	2		16
Pacific 23 56 152 557 675 290 577 672 7,297 8,996 3 2 6 39 39 Alaska 1 2 10 18 21 14 12 24 192 131 — 0 2 3 4 California 15 35 59 404 488 213 476 575 5,958 7,369 — 0 3 7 13 Hawaii — 0 4 2 8 8 12 21 147 155 — 0 2 11 5 Oregon§ 1 7 18 73 117 11 23 48 304 394 1 1 4 15 17 Washington 6 8 99 60 41 44 55 82 696 947 2 0 2 3 <		1													11	21
Alaska 1 2 10 18 21 14 12 24 192 131 — 0 2 3 4 California 15 35 59 404 488 213 476 575 5,958 7,369 — 0 2 3 7 13 Hawaii — 0 4 2 8 8 12 21 147 155 — 0 2 11 5 Oregon§ 1 7 18 73 117 11 23 48 304 394 1 1 4 15 17 Washington 6 8 99 60 41 44 55 82 696 947 2 0 2 3 — American Samoa — 0 0 — — — 0 1 — 2 — 0 0 — — — C.N.M.I. — — — — — —		23													39	39
Hawaii — 0 4 2 8 8 12 21 147 155 — 0 2 11 5 Oregon§ 1 7 18 73 117 11 23 48 304 394 1 1 4 15 17 Washington 6 8 99 60 41 44 55 82 696 947 2 0 2 3 — American Samoa — 0 0 — — — 0 1 — 2 — 0 0 — — — C.N.M.I. —	Alaska	1	2	10	18	21	14	12	24	192	131		0	2	3	4
Oregon§ 1 7 18 73 117 11 23 48 304 394 1 1 4 15 17 Washington 6 8 99 60 41 44 55 82 696 947 2 0 2 3 — American Samoa — 0 0 — — — 0 1 — 2 — 0 0 — — — C.N.M.I. —												_				
American Samoa - 0 0 - - 0 1 - 2 - 0 0 - - C.N.M.I. - <td>Oregon§</td> <td>1</td> <td>7</td> <td>18</td> <td>73</td> <td>117</td> <td>11</td> <td>23</td> <td>48</td> <td>304</td> <td>394</td> <td>1</td> <td>1</td> <td>4</td> <td>15</td> <td></td>	Oregon§	1	7	18	73	117	11	23	48	304	394	1	1	4	15	
C.N.M.I. — — — — — — — — — — — — — — — — — —	•	6			60	41	44			696		2	-		3	_
Guam — 0 0 — — 1 15 — 18 — 0 0 — — Puerto Rico — 3 15 25 36 3 5 22 51 65 — 0 1 — —	American Samoa C.N.M.I.	_	0		_	_	_			_			0	0	_	_
	Guam	_			_	_	_				18	_			_	_
U.S. Virgin Islands $-$ 0 0 $ -$ 2 6 12 33 N 0 0 N N	Puerto Rico U.S. Virgin Islands	_	3 0	15 0			3	5 2	22 6	51 12	65 33	 N	0 0	1 0	 N	 N

C.N.M.I.: Commonwealth of Northern Mariana Islands.
U: Unavailable. —: No reported cases. N: Not notifiable. Cum: Cumulative year-to-date counts. Med: Med: *Incidence data for reporting year 2008 and 2009 are provisional.

† Data for *H. influenzae* (age <5 yrs for serotype b, nonserotype b, and unknown serotype) are available in Table I.

§ Contains data reported through the National Electronic Disease Surveillance System (NEDSS). Cum: Cumulative year-to-date counts. Med: Median. Max: Maximum.

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending April 11, 2009, and April 5, 2008 (14th week)*

				Hepat	itis (viral,	acute), by	type [†]								
			Α					В				Le	gionellosi	is	
			rious					ious					rious		
Reporting area	Current week	Med Med	eeks Max	Cum 2009	Cum 2008	Current week	Med Med	eeks Max	Cum 2009	Cum 2008	Current week	Med Med	eeks Max	Cum 2009	Cum 2008
United States	22	41	74	438	667	24	71	147	821	938	17	51	149	371	493
New England	_	2	8	24	41	_	1	4	7	24	_	2	18	13	22
Connecticut	_	0	4	7	7	_	0	2	3	9	_	0	5	5	4
Maine [§] Massachusetts	_	0 1	5 3	1 12	3 23	_	0	2 2	3	4 7	_	0 1	2 7	<u> </u>	1 7
New Hampshire	_	0	2	1	1	_	0	2	1	2	_	0	5	_	4
Rhode Island [§] Vermont [§]	_	0 0	2 1	3	7	_	0	1	_	1 1	_	0 0	14 1	1 1	3
Mid. Atlantic	3	5	12	52	95	1	7	17	58	131	6	15	59	95	105
New Jersey New York (Upstate)	1	1 1	5 4	5 13	22 18	1	1 1	5 11	3 18	45 14	<u> </u>	2 5	14 24	6 38	13 23
New York (Opsiale)		2	6	14	27		1	6	9	24	_	1	12	5	14
Pennsylvania	2	1	4	20	28	_	3	8	28	48	1	6	33	46	55
E.N. Central Illinois	1	6 2	16 10	51 9	97 29	2	9 2	18 7	98 12	125 33	2	8 1	41 13	67	128 20
Indiana	_	0	4	3	5	1	1	7	13	9	_	i	6	6	9
Michigan	_	2	5	19	45	1	3	8	33	44	_	2	16	14	35
Ohio Wisconsin	1	1 0	4 3	15 5	9	_	2 0	14 0	40	33 6	2	3 0	18 3	44 3	60 4
W.N. Central	_	3	15	23	79	2	2	15	46	17	_	2	8	4	24
Iowa	_	1	7	_	34	_	0	3	6	7	_	0	2	2	5
Kansas Minnesota	_	0 0	3 12	2 5	5 9	_	0	3 11	6	3	_	0 0	1 4	1	1 2
Missouri	_	1	3	10	9	_	1	5	24	6	_	0	7	_	9
Nebraska [§] North Dakota	_	0 0	5 1	6	21	2	0 0	3 1	9	1	_	0	3 1	_ 1	6
South Dakota	_	Ö	i	_	1	_	Ö	i	1	_	_	Ö	i		1
S. Atlantic	10	7	16	120	89	9	19	34	292	243	5	9	22	94	94
Delaware District of Columbia	_ U	0 0	1 0		1 U	 U	0 0	2 0	8 U	7 U	_	0 0	2 2	_	1
Florida	6	3	8	65	41	3	7	11	95	87	3	3	7	43	40
Georgia	2	1	4	18	12	1	3	8	37	36	_	1	5	17	10
Maryland [§] North Carolina	_	1 0	4 9	13 12	11 9	3	2 0	5 19	30 90	26 24	2	2 0	10 7	16 13	19 5
South Carolina§	2	0	3	7	2	_	1	4	4	24	_	0	2	1	2
Virginia [§] West Virginia	_	1 0	6 1	5 —	10 3	1 1	2 1	10 6	13 15	23 16	_	1 0	5 3	4	11 3
E.S. Central	_	1	9	8	9	4	8	13	87	102	_	2	10	18	23
Alabama§	_	0	2	1	1	_	2	7	29	27	_	0	2	2	2
Kentucky Mississippi	_	0	3 2	1 4	4	2	2 1	7 3	21 5	28 12	_	1 0	4 1	8	13
Tennessee§	_	0	6	2	4	2	3	8	32	35	_	Ö	5	8	8
W.S. Central	_	4	15	32	62	4	12	56	117	193	3	2	17	15	11
Arkansas [§] Louisiana	_	0 0	1 2	1 2	1 4	_	0 1	4 4	2 9	10 24	_	0	2 2	_ 1	1
Oklahoma	_	0	5	1	3	2	2	10	26	17	_	0	6	1	_
Texas [§]	_	4	11	28	54	2	8	45	80	142	3	1	16	13	10
Mountain Arizona	_2	2 0	6 6	35 18	37	_	2	8 3	35 14	25 —	_	2 0	8 2	23 8	27 7
Colorado	1	0	2	5	11	_	0	3	7	6	_	0	2	1	3
Idaho [§] Montana [§]	_	0 0	3 1	2	8	_	0 0	2 1	1	2	_	0	1 2	4	1
Nevada [§]	1	0	3	2 5	2	_	1	3	6	12	_	0	2	5	2 4
New Mexico [§] Utah	_	0	1 2	2	11 2	_	0	2 3	4 3	4 1	_	0	2 2	 5	3 7
Wyoming§	_	0	0	_	3	_	0	1	_		_	0	0	_	_
Pacific	6	8	25	93	158	2	7	42	81	78	1	4	10	42	59
Alaska California	_	0 7	1 25	2 72	1 125		0 5	1 28	1 64	2 56	1	0 3	1 8	2 33	 50
Hawaii	_	0	25	2	3	_	0	1	1	3		0	1	1	2
Oregon [§] Washington		0	2 7	6 11	12 17	_	1	3 14	8 7	9	_	0	2	3	4
American Samoa	4	0	0		- 17	_	0	0		_	 N	0	0	N	N N
C.N.M.I.	_	_	_	_	_	_	_	_	_	_	<u> </u>	_	_	<u> </u>	
Guam Puorto Pico	_	0	0	_		_	0	0	_	1/	_	0	0	_	_
Puerto Rico U.S. Virgin Islands	_	0 0	4 0	6	7	_	0 0	5 0	1	14	_	0 0	0 0	_	_
J.J. Virgin Islands		U					U					<u> </u>			

C.N.M.I.: Commonwealth of Northern Mariana Islands.
U: Unavailable. —: No reported cases. N: Not notifiable. Cum: Cumulative year-to-date counts. Med: Median. Max: Maximum.
* Incidence data for reporting year 2008 and 2009 are provisional.
† Data for acute hepatitis C, viral are available in Table I.

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

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending April 11, 2009, and April 5, 2008 (14th week)*

		L	yme disea	se				Malaria			iviei		cal diseas I serotype		/e ¹
			vious veeks	_		_	Prev 52 w	ious eeks	_		_		rious reeks		
Reporting area	Current week	Med	Max	Cum 2009	Cum 2008	Current week	Med	Max	Cum 2009	Cum 2008	Current week	Med	Max	Cum 2009	Cum 2008
United States	77	530	1,689	1,619	2,217	8	24	49	220	191	12	18	42	275	429
New England	4	89	550	181	485	_	1	6	7	8	_	0	4	13	14
Connecticut Maine [§]	3	0 5	0 73	32	37	_	0 0	3 0	_	_ 1	_	0	1 1	1	1 1
Massachusetts	1	39	375	67	268	_	0	4	6	5	_	0	3	8	12
New Hampshire Rhode Island§	_	17 0	143 74	55 5	75 98	_	0 0	2 1	_	1 1	_	0	1	1 1	_
Vermont§	_	4	41	22	7	_	0	1	1		_	0	i	i	_
/lid. Atlantic	52	270	1,395	825	1,097	_	5	16	42	48	1	2	5	23	47
New Jersey New York (Upstate)	26	36 99	220 1,332	171 328	319 125	_	1 1	4 10	 14	7 4	1	0	1 2	1 5	8 15
New York City	_	4	36	_	41	_	3	10	22	30	_	0	2	3	6
Pennsylvania	26	97	519	326	612		1	3	6	7		1	4	14	18
E.N. Central Illinois	3	11 0	147 13	29 —	74 3	1	3 1	7 5	27 8	37 18	1	3 1	8 6	47 6	70 27
Indiana	_	0	8	1	_	_	Ö	2	5	1	_	0	4	10	10
Michigan Ohio	1	1 0	10 6	3 2	4		0 0	2 2	4 10	6 11	_ 1	0 1	3 4	8 17	11 14
Wisconsin	2	8	129	23	64		Ő	3	_	. i		Ö	2	6	8
V.N. Central	10	9	236	33	9	_	1	10	6	6	_	2	7	22	40
Iowa Kansas	_	1 0	9 4	4 2	8 1	_	0	3 2	1 1	_	_	0	2 2	1 6	8 1
Minnesota	10	6	226	26		_	0	8	1	1	_	0	4	5	15
Missouri Nebraska [§]	_	0	1 2	_	_	_	0 0	3 1	3	1 4	_	0	2 1	8 2	11 4
North Dakota	_	0	10	_	_	_	0	0	_	_	_	0	i	_	_
South Dakota	_	0	1	1		_	0	0	_	_	_	0	1	_	1
5. Atlantic Delaware	6 1	75 12	224 36	488 85	493 122	4	6 0	15 1	93 1	48 1	3	3 0	9 1	53	56
District of Columbia	_	2	11	_	27	_	0	2	_	_	_	0	Ö	_	_
Florida Georgia	1	1 0	6 6	13 13	7	3	1	7 5	28 15	14 10	3	1 0	4 2	27 6	22 5
Maryland§	1	30	162	270	274	_	1	7	27	18	_	0	3	1	4
North Carolina South Carolina [§]	1	0	6 2	15 3	2	1	0	7 1	14 1	2 1	_	0	3 2	9 5	3 10
Virginia [§]	2	15	61	80	51	_	1	3	6	2	_	Ö	2	4	11
West Virginia	_	1	11	9	6	_	0	1	1	_	_	0	1	1	1
i. S. Central Alabama [§]	_	1 0	5 2	4	_2	1	0 0	2 1	7 2	2 1	_	0	6 2	8	23 1
Kentucky	_	0	2	_	_	1	0	i	1	i	_	0	1	2	5
Mississippi Tennessee§	_	0	1	_	_	_	0	1	<u> </u>	_	_	0	2	1 5	6
V.S. Central	_	0 2	3 21	4	10	_	1	2 10	4	10	_	0 2	3 10	21	11 44
Arkansas [§]	_	0	0		_	_	Ö	0	_	_	_	0	2	4	5
Louisiana Oklahoma	_	0	1	_	_	_	0	1	_	_	_	0	3 3	7 2	14
Texas [§]	_	2	1 21	4	10	_	1	2 10	4	1 9	_	1	9	8	6 19
/lountain	_	1	14	7	5	_	0	3	2	8	3	1	4	28	23
Arizona Colorado	_	0	2 1	1	2	_	0	2 1	_ 1	2	2 1	0	2 2	8 9	2 5
Idaho§	_	0	1	2	1	_	0	1		_		0	1	4	2
Montana [§]	_	0	14	1	_	_	0	0	_	_	_	0	1	2	1
Nevada [§] New Mexico [§]	_	0	2 2	2	1	_	0	1 1	_	3	_	0	1 1	2 1	5 3
Utah	_	0	1	_	_	_	0	1	1	_	_	0	1	1	4
Wyoming§	_	0	1	_	_	_	0	0	_	_	_	0	1	1	1
Pacific Alaska	2	4 0	19 2	48 1	42	2	3 0	11 2	32 1	24	4	4 0	13 2	60 2	112
California	2	3	8	41	36	2	2	8	22	18	4	2	8	32	92
Hawaii Oregon [§]	N —	0 1	0 3	N 6	N 6	_	0 0	1 2	1 4	1 3	_	0 1	1 7	1 19	1 10
Washington	_	ó	12	_	_	_	0	7	4	2	_	Ó	5	6	9
American Samoa	N	0	0	N	N	_	0	0	_	_	_	0	0	_	_
C.N.M.I. Guam	_			_	_	_		_	_	_	_			_	_
Puerto Rico	N	0	0	N	N	_	0	1	1	_	_	0	1	_	2
J.S. Virgin Islands	N	0	0	N	N	_	0	0	_	_	_	0	0	_	_

C.N.M.I.: Commonwealth of Northern Mariana Islands.

C.N.M.I.: Confinonwealth of Not the Management of Not the Manageme

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending April 11, 2009, and April 5, 2008 (14th week)*

			Pertussis	i			Ra	bies, anin	nal		R	ocky Mou	ıntain spo	tted feve	<u> </u>
			vious veeks					ious eeks					rious reeks		
Reporting area	Current week	Med	Max	Cum 2009	Cum 2008	Current week	Med	Max	Cum 2009	Cum 2008	Current week	Med	Max	Cum 2009	Cum 2008
United States	210	217	1,495	2,624	1,915	31	92	162	648	1,032	7	40	148	177	65
New England	_	16	34	128	278	7	8	21	73	72	_	0	2	1	1
Connecticut Maine [†]	_	0 1	4 7	<u> </u>	22 12	5	3 1	17 5	31 12	37 10	_	0 0	0 1	1	_
Massachusetts	_	12	30	81	216	-	0	0	_	_	_	0	1		1
New Hampshire Rhode Island [†]	_	1 1	4 6	12 3	8 15	1	1 1	8 3	6 7	7 6	_	0	1 2	_	_
Vermont [†]	_	Ó	2	6	5	1	i	6	17	12	_	Ö	0	_	_
Mid. Atlantic	13	22	64	200	238	7	31	67	99	295	_	2	30	3	16
New Jersey New York (Upstate)	7	3 6	12 41	17 47	39 62	7	0 9	0 20	— 79	— 86	_	1 0	6 29	_	8
New York City	3	0	20	20	29	_	0	2	_	7	_	0	2	3	5
Pennsylvania	3	9	34	116	108	_	21	52	20	202	_	0	2	_	3
E.N. Central Illinois	33	36 12	174 45	576 119	481 44	_	3 1	29 21	7 2	2 1	_	1 1	15 11	4 1	1 1
Indiana	_	2	96	35	12	_	Ö	2	_		_	0	3	_	
Michigan Ohio	2 31	8 10	21 57	145 269	48 361	_	1	9 7	5	_ 1	_	0	1 4	1 2	_
Wisconsin	<u> </u>	2	7	269 8	16	N	0	0	N	N	_	0	1	_	_
W.N. Central	114	28	839	576	163	5	5	17	57	34	_	4	33	8	3
Iowa Kansas	_	4 2	21 12	34 39	26 20	_ 3	0 1	5 9	6 30	3 15	_	0	2	_	_
Minnesota	89	2	781	112	20 24	2	0	10	7	8	_	0	0	_	_
Missouri	22	10	51	330	77	_	1	8	6	_	_	4	32	8	3
Nebraska† North Dakota	1	3 0	32 18	53 2	12	_	0	0 9	3	3	_	0	4 0	_	_
South Dakota	_	ŏ	10	6	4	_	ŏ	2	5	5	_	ŏ	1	_	_
S. Atlantic	22	21	71	344	164	4	24	78	321	537	7	16	71	150	28
Delaware District of Columbia	_	0 0	3 1	4	2	_	0	0	_	_	_	0 0	5 2	1	1
Florida	10	7	20	116	32	_	0	14	41	138	_	0	3	1	1
Georgia Maryland [†]	_ 1	2 2	9 9	6 21	9 26	_	0 7	47 17	88 65	99 119	_	1 1	8 7	5 10	4 7
North Carolina	6	0	65	125	40	N	2	4	N	N	6	9	55	119	11
South Carolina†	5	2	11	38	21	_	0	0		455	_	1	9	4	_
Virginia [†] West Virginia	_	3 0	24 2	31 3	28 4	4	10 1	24 6	104 23	155 26	1	2	15 1	9 1	2
E.S. Central	3	10	33	154	63	2	3	7	19	39	_	4	23	7	7
Alabama†	2	1	5	29	17	_	0	0	_	_	_	1	8	4	4
Kentucky Mississippi	_	4 2	15 5	77 17	8 26	2	1 0	4 1	19	4 1	_	0	1 3	_ 1	<u> </u>
Tennessee [†]	1	2	14	31	12	_	2	6	_	34	_	2	19	2	2
W.S. Central	_	33	276	264	134	5	1	11	1 <u>1</u>	13	_	2	41	3	6
Arkansas† Louisiana	_	1 2	20 7	15 20	17 3	5 —	0 0	6 0	7	11	_	0	14 1	1	_
Oklahoma	_	0	29	9	2	_	0	10	4	1	_	ŏ	26	1	_
Texas [†]	_	28	232	220	112	_	0	1	_	1	_	1	6	1	4
Mountain Arizona	11 2	12 0	29 4	226 29	210	N	2	9 0	30 N	12 N	_	1 0	3 2	1	3 1
Colorado	4	3	12	69	55		0	0			_	0	1	_	
Idaho† Montana†	5	1 0	5	22 5	7 54	_	0 0	0	10	_	_	0	1	_	_
Nevada†	_	0	4 7	6	54 4		Ö	4 5	-		_	0	2	_	_
New Mexico†	_	1	10	22	17	_	0	3	10	10	_	0	1	_	1
Utah Wyoming [†]	_	4 0	19 2	72 1	69 4	_	0 0	6 4	10		_	0	1 2	1	1
Pacific	14	24	81	156	184	1	4	13	31	28	_	0	1	_	_
Alaska California	1	3 6	21 23	25	23 65	1	0 3	2	7	10	N	0	0	N	N
Hawaii	_	0	3	13 6	4	_	0	12 0	24	18	 N	0 0	1 0	N	N
Oregon [†]	1	3	16	47	40	_	0	2	_	_	_	0	1	_	_
Washington	12	6	77	65	52		0	0				0	0		
American Samoa C.N.M.I.	_	0	0	_	_	N —	0	0	<u>N</u>	N	<u>N</u>	0	0	N	N
Guam	_	0	0	_	_	_	0	0	_	_	N	0	0	N	N
Puerto Rico U.S. Virgin Islands	_	0 0	1 0	1	_	 N	1 0	5 0	10 N	14 N	N N	0 0	0 0	N N	N N
U.U. VIIGIII ISIAIIUS		ern Maria				IN	U		IN	IN		U	<u> </u>	IN	IN

C.N.M.I.: Commonwealth of Northern Mariana Islands.
U: Unavailable. —: No reported cases. N: Not notifiable. Cum: Cumulative year-to-date counts. Med: Median. Max: Maximum.
* Incidence data for reporting year 2008 and 2009 are provisional.

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

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending April 11, 2009, and April 5, 2008 (14th week)*

Commedicat — 0 9 90 90 401 — 0 15 15 47 — 0 4 4 4 4 44 Marsel Mar			S	almonello	sis		Shig	a toxin-pr	oducing <i>l</i>	E. coli (ST	EC)†			higellosis		
Reporting area																
United States	Reporting area															
New Incident																
Malines						,									,	74
Massachusetts		_					_					_				40
Phode Islandif		7	20	51	192	195	_		11	12		1	3			28
Vermonel — 1 7 12 11 — 0 6 2 2 — 0 2 2 2 1 Mid. Atlantic 33 105 203 778 903 2 8 27 41 304 19 54 96 643 388 New Jorsey 12 2 2 5 5 55 55 100 244 7 2 2 11 2 3 31 — 1 9 38 197 88 New Jorsey 12 2 5 5 55 55 100 15 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1										9		_				1
New York City patients 23 55 59 224 - 2 21 23 31 - 19 36 197 86 86 New York City 1 22 54 191 231 - 1 5 5 10 9 10 10 10 10 10 10										2		_				1
New York (Upstalet)		33														385
New York City		23						3								
EN. Central IIIInois — 9 98 194 884 850 1 1 11 75 69 91 36 83 128 766 738 Indiana — 8 53 49 68 — 1 1 14 9 4 — 6 39 16 218 10 10 11 23 10 10 11 27 65 30 16 218 10 10 11 27 65 30 16 218 10 10 11 1 27 65 30 16 218 10 10 11 1 27 65 30 10 213 1 3 3 17 20 2 5 5 24 82 18 20 16 10 10 11 27 65 30 10 213 1 3 3 17 20 2 5 5 24 82 18 20 18 2	New York City	1	22	54	191	231	_	1	5	10	9	_	12	35	119	176
Illinois	•															
Michigan																238
Ohio		_														218
W.N. Central								3								189
lowa																78
Kansas 5 7 29 63 45 — 1 7 5 4 6 2 5 45 25 15 36 Missouri 11 69 130 129 — 2 21 19 10 — 4 25 15 36 Missouri 2 13 48 99 125 — 2 11 18 26 2 3 14 22 88 Missouri 2 13 48 99 125 — 2 11 18 26 2 3 14 22 88 Missouri 3 2 13 48 29 125 — 2 11 18 26 2 3 14 22 88 Missouri 4 1 147 54 1 2 30 10 5 — 0 0 3 5 — North Dakota — 0 10 9 8 — 0 1 1 — — 0 0 3 1 5 — North Dakota — 0 10 9 8 — 0 1 1 — 4 — 0 0 5 5 15 100 55 — 100 15 Sulh Dakota — 0 10 9 8 — 0 1 1 — — 0 0 3 1 5 — 15 100 Sulh Dakota — 0 1 1 — 2 9 — 2 2 15 131 131 130 19 55 100 5 5 130 Sulh Dakota — 1 2 9 8 — 2 2 15 1817 131 130 130 19 55 100 15 38 80 31 19 10 Sulh Dakota — 1 2 9 8 — 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1							3 2							39 12		211 18
Missouri 2 13 48 99 125 — 2 111 18 26 2 3 144 22 88 North Dakota — 0 10 9 8 — 0 1 1 — — — 0 3 15 — North Dakota — 0 10 9 8 — 0 1 1 — — — 0 0 3 1 1 15 South Dakota — 0 10 9 8 — 0 1 1 — — — 0 0 3 1 1 15 South Dakota — 0 10 9 8 — 0 1 1 — — — 0 0 3 1 1 15 South Dakota — 0 10 10 9 8 — 0 1 1 — — — 0 0 3 1 1 15 South Dakota — 0 10 10 9 8 — 0 1 1 — — — 0 0 3 1 1 15 South Dakota — 0 1 1 2 9 8 25 — 0 2 2 2 — 0 0 1 5 5 100 55 1 51 South Dakota — 0 1 2 9 8 25 — 0 0 2 2 2 — 0 0 1 5 5 20 South Dakota — 0 4 — 13 — 0 1 — 3 3 — 0 3 — 5 2 South Carolina — 0 4 — 13 — 0 1 1 — 3 3 — 0 3 — 0 3 — 5 2 South Carolina — 0 4 — 13 — 0 1 1 — 3 3 — 0 3 — 5 2 South Carolina — 0 1 4 — 13 — 0 1 1 — 3 3 — 0 0 3 — 5 2 South Carolina — 1 2 4 38 60 319 217 1 1 7 7 10 6 6 4 17 48 127 300 Maryland — 1 2 8 106 387 188 — 2 2 21 4 1 1 2 — 5 77 101 22 South Carolina — 1 28 106 387 188 — 2 2 21 4 1 1 2 — 5 77 101 22 West Virginia — 20 88 143 1131 — 3 2 2 7 12 2 7 — 5 5 99 5 7 2 101 22 South Carolina — 3 8 28 48 — 0 3 1 8 — 0 3 1 8 — 0 3 3 5 2 2 South Carolina — 3 8 28 48 — 0 3 1 8 — 0 3 3 1 8 — 0 3 3 5 2 2 South Carolina — 1 1 60 140 415 444 2 2 5 12 33 49 6 31 67 205 477 — 1 7 6 8 — 0 3 2 2 4 2 4 2 4 3 4 3 4 3 4 4 4 2 5 5 12 33 49 6 31 67 205 477 — 1 7 7 6 8 — 0 3 2 2 4 2 4 2 4 3 4 3 4 4 4 2 2 5 4 4 4 3 4 4 4 2 4 4 4 4 4 4 4 4 4 4 4 4	Kansas	5	7	29	63	45	_	1	7	5	4	6	2	5	45	2
Nebraskas																
South Dakota	Nebraska§	_	5	41	147	54	1	2	30			_	0	3	5	_
S. Atlantic 88							_			_ 1						
Delaware		88						•	-			19			•	803
Florida	Delaware	1	2	9	8	25	_	0	2	2	2	_	0	1	5	2
Georgia 15 43 86 319 217 1 1 7 10 6 4 17 48 127 307 Maryland [§] 12 14 36 141 119 1 2 9 20 16 4 3 12 82 18 North Carolina 1 28 106 387 188 — 2 21 41 12 — 5 27 101 25 South Carolina [§] 5 18 55 143 165 — 0 3 3 3 13 1 7 32 46 156 Virginia [§] — 20 89 143 131 — 3 27 12 27 — 5 5 59 57 21 West Virginia — 3 8 28 48 — 0 3 1 1 8 — 0 3 3 1 1 6 7 32 46 156 Virginia [§] — 1 1 60 140 415 444 2 5 12 12 33 49 6 31 67 205 470 Alabama [§] 3 16 49 128 147 — 1 3 7 25 1 5 18 51 134 Kentucky 2 10 18 90 77 — 1 7 6 8 — 3 24 42 3 44 Mississippi — 14 57 76 91 — 0 2 1 1 2 — 2 18 7 142 Hentucky 2 10 18 90 77 — 1 7 6 8 — 3 24 23 44 W.S. Central 14 139 1.118 474 545 — 6 5 5 99 — 0 1 1 2 — 2 18 7 48 Arkansas [§] 4 11 40 79 70 — 1 3 5 9 2 11 2 7 — 10 26 42 100 Klahoma 9 15 36 99 66 — 1 1 9 4 3 2 3 3 3 3 5 9 6 6 33 98 523 747 523 Texas [§] 1 9 3 1,057 231 310 — 5 48 26 53 29 65 463 612 328 Mountain 35 60 115 572 640 1 10 37 77 57 11 15 29 264 91 Mountain 35 60 115 572 640 1 10 37 77 57 11 15 29 264 91 Mountain 3 3 14 4 12 133 217 — 4 18 45 15 — 2 11 26 18 Mountain 3 3 14 4 12 133 217 — 4 18 45 15 — 2 11 26 18 Mountain 2 6 11 4 12 13 3 14 14 50 19 4 12 13 2 — 2 18 13 13 13 14 15 15 17 12 12 12 13 13 10 — 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1																267
North Carolina																307
South Carolinas																25
West Virginia		5						0					7			156
Alabama§ 3 16 49 128 147 — 1 3 7 25 1 5 18 51 134 Kentucky 2 110 18 90 77 — 1 7 6 8 — 3 24 23 44 Kentucky 2 110 18 90 77 — 1 7 6 8 — 3 24 2 18 7 142 184 184 195		_														21
Kentucky 2 10 18 90 77 — 1 7 6 8 — 3 24 23 44 Mississippi — 14 57 76 91 — 0 2 1 2 — 2 18 7 142 Tennessee® 6 15 62 121 129 2 2 6 19 14 5 19 48 124 148 W.S. Central 14 139 1,118 474 545 — 6 54 35 66 33 98 523 747 523 Arkansas® 4 11 40 79 70 — 1 35 9 2 11 23 42 34 426 42 108 Oklahoma 9 15 36 99 66 — 1 19 4 3 2 3 43							2									470
Mississispipi									3 7							
W.S. Central 14 139 1,118 474 545 — 6 54 35 66 33 98 523 747 523 Arkansas§ 4 11 40 79 70 — 1 3 5 9 2 11 27 58 60 Louisiana — 17 50 65 99 — 0 1 — 1 — 10 26 42 108 Oklahoma 9 15 36 99 66 — 1 19 4 3 2 3 43 35 27 Texas§ 1 93 1,057 231 310 — 5 48 26 53 29 65 463 612 328 Mountain 35 60 115 572 640 1 10 37 77 57 11 1 20 264	Mississippi	_	14	57	76	91	_	Ö	2	1	2	_	2	18	7	142
Arkansas\$																
Oklahoma Texas 9 15 36 99 66 — 1 19 4 3 2 3 43 35 27 Mountain 35 60 115 572 640 1 10 37 77 57 11 15 29 264 91 Arizona 6 21 44 216 168 — 0 4 8 — 11 0 20 189 — Colorado 20 12 21 133 217 — 4 18 45 15 — 2 11 26 19 Idaho§ 3 3 15 32 31 — 2 15 6 20 — 0 2 — 3 18 22 11 26 19 Montana§ 3 3 14 51 56 1 0 3 2 7 <																60
Texas\$ 1 93 1,057 231 310 — 5 48 26 53 29 65 463 612 328 Mountain 35 60 115 572 640 1 10 37 77 57 11 15 29 264 91 Arizona 6 21 44 216 168 — 0 4 8 — 11 0 20 189 — Colorado 20 12 21 133 217 — 4 18 45 15 — 2 11 26 19 Idaho\$ 3 3 15 32 31 — 2 15 6 20 — 0 2 — 3 Montana\$ — 2 8 28 28 15 — 0 3 2 7 — 0 2 2 — Nevada\$ 3 3 14 51 56 1 0 3 2 3 — 3 13 22 7 — 0 2 2 2 New Mexico\$ 1 7 32 37 68 — 1 6 7 8 — 2 112 21 13 Wyoming\$ — 1 4 12 17 — 0 1 1 2 — 0 1 1 2 — 0 1 2 — Alaska 2 1 4 12 13 — 0 1 1 — 1 1 0 1 2 — 1 0 0 0 — — 0 2 2 8 3 4 16 American Samoa — 0 1 1 — 1 — 0 0 0 — — — 0 2 2 8 3 4 16 American Samoa — 0 2 — 4 — 0 0 0 — — — 0 0 4 1 4 4 1 4 1 1 4 1 1 1 1 1 1 1 1 1		_														108
Arizona 6 21 44 216 168 — 0 4 8 — 11 0 20 189 — Colorado 20 12 21 133 217 — 4 18 45 15 — 2 11 26 19 14 14 15 32 31 — 2 15 6 2							_									328
Colorado 20 12 21 133 217 — 4 18 45 15 — 2 11 26 19 Indianos 3 3 3 15 32 31 — 2 15 6 20 — 0 2 — 3 Montanas — 2 8 28 15 — 0 3 2 2 — 3 13 22 50 Nevadas 3 3 14 51 56 1 0 3 2 2 3 — 3 13 22 50 New Mexicos 1 7 32 37 68 — 1 6 7 8 — 2 12 21 13 Utah 2 6 19 63 68 — 1 9 6 2 — 1 3 4 3 Utah 2 6 19 63 68 — 1 9 6 2 — 1 3 4 3 4 3 Utah 2 6 19 63 68 — 1 9 6 2 — 1 3 4 3 4 3 4 3 4 3 4 3 4 3 4 3 4 3 4 3							1				57					91
Idaho\$ 3 3 15 32 31 2 15 6 20 0 2 2 3 Montana\$ 2 8 28 15 0 3 2 7 0 2 2 2 Montana\$ 3 3 14 51 56 1 0 3 2 3 3 13 322 50 New Mexico\$ 1 7 32 37 68 1 6 7 8 2 12 21 13 Utah							_				 15					 19
Nevada [§] 3 3 14 51 56 1 0 3 2 3 — 3 13 22 50 New Mexico§ 1 7 32 37 68 — 1 6 7 8 — 2 12 21 13 Utah 2 6 19 63 68 — 1 9 6 2 — 1 3 4 33 Wyoming§ — 1 4 12 17 — 0 1 1 2 — 0 1 — 3 4 33 294 260 Pacific 90 114 530 1,252 975 3 10 60 70 34 14 31 83 294 260 Alaska 2 1 4 12 13 — 0 1 — 1 — 0 <t< td=""><td>Idaho§</td><td></td><td>3</td><td>15</td><td>32</td><td>31</td><td>_</td><td>2</td><td>15</td><td>6</td><td>20</td><td>_</td><td>0</td><td>2</td><td>_</td><td>3</td></t<>	Idaho§		3	15	32	31	_	2	15	6	20	_	0	2	_	3
New Mexicos 1 7 32 37 68 — 1 6 7 8 — 2 12 21 13 Utah 2 6 19 63 68 — 1 9 6 2 — 1 3 4 3 4 3 4 3 4 3 4 3 4 3 3 4 4 3 2 4 12 17 — 0 1 — 0 1 — 0 1 — 0 1 — 0 1 — 0 1 — 0 1 — 0 1 — 0 1 — 0 1 — 1 — 0 1 — 1 — 0 1 — 1 — 0 2 2 2 2 2 3 4 1 2 4 1 <td></td> <td>_</td> <td></td> <td></td> <td></td> <td> 50</td>												_				 50
Wyoming§ — 1 4 12 17 — 0 1 1 2 — 0 1 — 3 Pacific 90 114 530 1,252 975 3 10 60 70 34 14 31 83 294 260 Alaska 2 1 4 12 13 — 0 1 — 1 — 0 1 2 — California 69 84 516 941 764 2 6 39 53 25 13 27 75 236 219 Hawaii 2 5 15 70 49 — 0 2 1 2 — 1 3 5 11 Oregon§ 2 7 20 92 71 — 1 8 — 3 — 1 10 17 14	New Mexico§	1	7	32	37	68	_	1	6	7	8		2	12	21	13
Pacific 90 114 530 1,252 975 3 10 60 70 34 14 31 83 294 260 Alaska 2 1 4 12 13 — 0 1 — 1 — 0 1 2 — California 69 84 516 941 764 2 6 39 53 25 13 27 75 236 219 Hawaiii 2 5 15 70 49 — 0 2 1 2 — 1 3 5 11 Oregon§ 2 7 20 92 71 — 1 8 — 3 — 1 10 17 14 Washington 15 13 155 137 78 1 2 44 16 3 1 2 28 34 16															4	3
California 69 84 516 941 764 2 6 39 53 25 13 27 75 236 219 Hawaii 2 5 15 70 49 — 0 2 1 2 — 1 3 5 11 Oregon§ 2 7 20 92 71 — 1 8 — 3 — 1 10 17 14 Washington 15 13 155 137 78 1 2 44 16 3 1 2 28 34 16 American Samoa — 0 1 — 1 — 0 0 — — — 0 2 3 1 Guam — 0 2 — 4 — 0 0 — — 0 3 — 5 Puerto Rico 1 14 40 70 133 — 0 0 — — <td< td=""><td></td><td>90</td><td>114</td><td>530</td><td></td><td></td><td>3</td><td></td><td>60</td><td>70</td><td></td><td>14</td><td></td><td></td><td>294</td><td>260</td></td<>		90	114	530			3		60	70		14			294	260
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Washington 15 13 155 137 78 1 2 44 16 3 1 2 28 34 16 American Samoa — 0 1 — 1 — 0 0 — — — 0 2 3 1 C.N.M.I. — — 0 2 — 4 — 0 0 — — 0 3 — 5 Guam — 0 2 — 4 — 0 0 — — 0 4 1 4 Puerto Rico 1 14 40 70 133 — 0 0 — — — 0 4 1 4	Hawaii	2	5	15	70	49			2		2		1	3	5	11
American Samoa — 0 1 — 1 — 0 0 — — — 0 2 3 1 C.N.M.I. — 5 Puerto Rico 1 14 40 70 133 — 0 0 — — — 0 4 1 4										 16						14 16
C.N.M.I. — 5 Puerto Rico 1 14 40 70 133 — 0 0 — — — 0 4 1 4	ŭ						_			_	_					1
Puerto Rico 1 14 40 70 133 — 0 0 — — 0 4 1 4	C.N.M.I.	_	_	_		_		_	_	_	_	_	_	_	_	_
										_	_					5 4
	U.S. Virgin Islands		0	0	_	_		0	0	_	_		0	0		_

C.N.M.I.: Commonwealth of Northern Mariana Islands.
U: Unavailable. —: No reported cases. N: Not notifiable. Cum: Cumulative year-to-date counts. Med: Median. Max: Maximum.
* Incidence data for reporting year 2008 and 2009 are provisional.

† Includes *E. coli* O157:H7; Shiga toxin-positive, serogroup non-O157; and Shiga toxin-positive, not serogrouped.

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

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending April 11, 2009, and April 5, 2008 (14th week)*

	9	Streptococcal	diseases, inv	asive, group A	Streptococcus pneumoniae, invasive disease, nondrug resistant							
	Current	Previous 52 weeks		Cum	Cum	Current	Prev 52 w		Cum	Cum		
Reporting area	week	Med	Max	2009	2008	week	Med	Max	2009	2008		
Inited States	75	97	208	1,711	1,857	23	33	90	524	551		
lew England	5	5	31	102	120	3	1	12	19	32		
Connecticut Maine [§]	_	0 0	26 3	23 6	9 11	_	0 0	11 1	_	_ 1		
Massachusetts	3	3	7	45	76	2	1	3	13	26		
New Hampshire Rhode Island§	_	0	4 8	15 4	12 6	1	0	1 2	4	5		
Vermont§	2	Ö	3	9	6	_	Ö	1	2	_		
lid. Atlantic	11	18	36	304	406	6	4	25	64	70		
New Jersey New York (Upstate)	9	2 6	9 24	2 112	82 109		1 2	4 19	10 38	22 29		
New York City	_	3	12	60	84	5	0	23	16	19		
Pennsylvania	2	7	17	130	131	N	0	2	N	N		
Illinois	12	15 3	39 11	309 69	395 119	2	6 1	11 5	76 9	112 35		
Indiana	_	2	19	42	49	_	0	5	6	12		
Michigan Ohio	2 8	3 4	9 14	55 107	72 99	1 1	1 1	5 5	22 29	29 19		
Wisconsin	2	1	10	36	56		0	2	10	17		
V.N. Central	5	5	37	147	147	2	2	11	45	36		
lowa		0	0 8	_	_	N	0	0	 N	N		
Kansas Minnesota		0 0	8 34	21 52	20 55	- N	0	1 9	15	13		
Missouri	2	2	8	44	40	2	1	4	21	16		
Nebraska [§] North Dakota	2	1 0	3 2	20 2	16 7	_	0	1 3	2	2		
South Dakota	_	ŏ	2	8	9	_	ŏ	2	4	4		
6. Atlantic	18	21	45	391	392	6	6	14	107	123		
Delaware District of Columbia	_	0 0	1 4	6	6 8	N	0	0	_ N	N		
Florida	9	6	12	101	86	4	1	3	24	19		
Georgia	6	5	14	96	79 70	1	2	6	35	32		
Maryland [§] North Carolina	3	3 2	10 13	56 42	73 46	1 N	1 0	3 0	22 N	29 N		
South Carolina§	_	1	5	27	27	_	1	6	21	20		
Virginia [§] West Virginia	_	3 0	9 3	52 11	52 15	_	0 0	3 2	1 4	20 3		
E.S. Central	1	4	9	79	58	_	2	6	20	30		
Alabama§	N	0	0	N	N	N	0	0	N	N		
Kentucky Mississippi	 N	1 0	5 0	14 N	14 N	N —	0 0	0 3	N —	N 7		
Tennessee§	1	3	8	65	44	_	2	6	20	23		
V.S. Central	9	10	58	165	152	3	6	36	95	78		
Arkansas§ Louisiana	_	0	2 2	6 5	2 8	_	0 0	3 3	9 12	3		
Oklahoma	5	2	13	64	42	2	1	7	18	28		
Texas [§]	4	6	45	90	100	1	4	27	56	44		
llountain Arizona	11 5	7 0	16 5	166 45	144	1 1	2 0	15 9	87 49	53		
Colorado	5	3	8	64	60	<u>.</u>	1	4	19	22		
Idaho§	N	0	2 0	3 N	8 N	N	0 0	1 0	2	2 N		
Montana [§] Nevada [§]	1N 1	0	1	3	5	<u> </u>	0	1	<u>N</u>	1		
New Mexico§	_	2	6	29	50	_	0	2	6	11		
Utah Wyoming [§]	_	1 0	6 1	21 1	18 3	_	0 0	4 1	11	17		
acific	3	3	8	48	43	_	1	5	11	17		
Alaska	2	0	4	7	10		ò	4	8	10		
California Hawaii	N 1	0 3	0 8	N 41	N 33	N —	0	0 2	N 3	N 7		
Oregon§	N	0	0	N	N	N	0	0	N	N		
Washington	N	0	0	N	N	N	0	0	N	N		
merican Samoa C.N.M.I.	_	0	8	_	12	<u>N</u>	0	0	N	N		
auam	_	0	0	_	_	_	0	0	_	_		
uerto Rico	N	0	0	N	N	N	0	0	N	N		
I.S. Virgin Islands	_	0	0	_	_	N	0	0	N	N		

C.N.M.I.: Commonwealth of Northern Mariana Islands.

U: Unavailable. —: No reported cases. N: Not notifiable. Cum: Cumulative year-to-date counts. Med: Median. Max: Maximum.

* Incidence data for reporting year 2008 and 2009 are provisional.

† Includes cases of invasive pneumococcal disease, in children aged <5 years, caused by *S. pneumoniae*, which is susceptible or for which susceptibility testing is not available (NNDSS event code 11717).

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

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending April 11, 2009, and April 5, 2008 (14th week)*

		S	treptococ	cus pneur	noniae, ir	vasive dis	ease, dru	g resistan	t [†]							
			All ages					jed <5 yea	irs		Syphilis, primary and secondary					
		Prev						ious					ious			
Reporting area	Current week	Med 52 w	eeks Max	Cum 2009	Cum 2008	Current week	Med Med	eeks Max	Cum 2009	Cum 2008	Current week	Med Med	eeks Max	Cum 2009	Cum 2008	
United States	37	57	108	1,035	1,172	9	8	22	147	140	74	255	384	3,115	3,295	
New England	1	1	48	19	19	_	0	5	1	1	3	5	15	92	79	
Connecticut	_	0	48	_	_	_	0	5	_	_	_	1	5	21	3	
Maine [§] Massachusetts	_	0	2 1	3 1	7	_	0	1 1	1	_	3	0 4	2 11	1 59	2 64	
New Hampshire	_	0	3	5	_	_	0	Ö		_	_	0	2	7	4	
Rhode Island [§] Vermont [§]	_ 1	0	4 2	4 6	7 5	_	0	1	_	1	_	0	5 2	4	3	
Mid. Atlantic	1	4	14	47	113	1	0	3	10	10	30	33	51	490	466	
New Jersey New York (Upstate)	_	0	0 8	 19	_ 20	_ 1	0	0 2	_	_	_	4 2	10 8	58	68	
New York (Opsiale)	1	1 1	5	19	20 45		0	0	6	_	27	23	37	26 328	29 281	
Pennsylvania	_	1	10	27	48	_	Ö	1	4	8	1	5	11	78	88	
E.N. Central Illinois	12 N	9	28 0	181 N	262 N	2 N	1 0	6 0	26 N	30 N	7	26 5	47 14	229 36	411 124	
Indiana	_	2	19	26	93		Ö	3	4	11	2	2	10	42	40	
Michigan	 12	0 7	3	9	7		0 1	1	 22	1	5	4	18 27	67	50	
Ohio Wisconsin	- 12 	0	18 0	146	162	_	0	4 0		18	_	11 1	4	71 13	183 14	
W.N. Central	2	2	8	39	88	1	0	2	10	6	_	7	14	79	120	
lowa Kansas	_ 1	0 1	0 4	13	39	_ 1	0	0 2	 8	_	_	0 0	2 3	7 3	4 7	
Minnesota		Ó	0	_	_		Ö	0	_	_		2	6	16	30	
Missouri	1	1 0	4 0	22	46	_	0	1 0	2	1	_	3	10 2	50	75	
Nebraska [§] North Dakota	_	0	2	4	_	_	0	0	_	_	_	0	0	3	4	
South Dakota	_	0	2	_	3	_	0	0	_	3	_	0	1	_	_	
S. Atlantic Delaware	13	22 0	51 1	533 6	476 1	2	4 0	14 0	68	66	10	59 0	197 4	714 8	571 1	
District of Columbia	N	Ö	Ó	Ň	Ń	N	Ö	0	N	N	_	3	9	46	29	
Florida	12	14 7	36 23	344 146	251 178	2	3 1	13 5	49 19	36 25	6	20 13	37 169	279 78	229	
Georgia Maryland [§]	1 —	0	23 1	4	4	_	0	0	-	1	4	8	169	86	73 77	
North Carolina	N	0	0	N	N	N	0	0	N	N	_	6	19	122	65	
South Carolina [§] Virginia [§]	N	0	0	N	N	N	0	0 0	N	N	_	2 5	6 16	19 75	21 75	
West Virginia	_	1	7	33	42	_	0	2	_	4	_	0	1	1	1	
E.S. Central Alabama§	3 N	5 0	25 0	133 N	124 N	N	1 0	4 0	17 N	15 N	7	22 8	36 17	305 110	285 126	
Kentucky	2	1	6	35	28	_	0	2	4	4	2	1	10	19	20	
Mississippi	_ 1	0	2 22	— 98	— 96	_	0	1 3		_ 11	<u> </u>	3	18	49	28	
Tennessee§ W.S. Central	4	3 2	7	33	43	3	0	ა 1	13 8	7	6	8 45	19 80	127 629	111 538	
Arkansas§	4	0	5	20	6	3	0	i	5	2	6	4	35	77	24	
Louisiana Oklahoma	N	1 0	6 0	13 N	37 N	N	0 0	1 0	3 N	5 N	_	11 1	33 7	128 14	119 23	
Texas [§]	_	0	0	_	_	_	0	0	_	_	_	28	40	410	372	
Mountain	1	3	7	48	46	_	0	3	7	4	5	10	18	65	150	
Arizona Colorado	_	0	0	_	_	_	0	0	_	_	_	5 1	13 5	19 3	83 30	
Idaho§	N	0	1	N	N	N	0	Ĭ	N	N	_	0	2	2	1	
Montana [§] Nevada [§]	1	0 1	1 4	 20	 21	_	0 0	0 1	3	1	4	0 1	7 7	 29	22	
New Mexico§		0	1	_	_	_	0	0	_	_	1	1	5	12	6	
Utah Wyoming [§]	_	1 0	6 2	22 6	25	_	0	3 0	4	3	_	0	2 1	_	8	
Pacific	_	0	1	2	1		0	1		1	6	45	71	512	675	
Alaska		0	Ó	_	_	-	0	Ö	-	_	_	0	1	_	_	
California Hawaii	<u>N</u>	0	0 1	N 2	N 1	N	0 0	0 1	N	N 1	4	41 0	65 3	453 10	608 8	
Oregon§	N	0	0	N	N	N	0	Ö	N	N	_	0	3	8	5	
Washington	N	0	0	N	N	N	0	0	N	N	2	3	9	41	54	
American Samoa C.N.M.I.	N —	0	0	N	N	N —	0	0	N —	N	_	0	0	_	_	
Guam	_	0	0	_	_	_	0	0	_	_	_	0	0	_	_	
Puerto Rico U.S. Virgin Islands	_	0 0	0	_	_	_	0 0	0	_	_	4	3 0	11 0	47	34	
o.o. virgin islanus		U					U	U				U	U			

C.N.M.I.: Commonwealth of Northern Mariana Islands.
U: Unavailable. —: No reported cases. N: Not notifiable. Cum: Cumulative year-to-date counts. Med: Median. Max: Max* Incidence data for reporting year 2008 and 2009 are provisional.

† Includes cases of invasive pneumococcal disease caused by drug-resistant *S. pneumoniae* (DRSP) (NNDSS event code 11720).

§ Contains data reported through the National Electronic Disease Surveillance System (NEDSS). Cum: Cumulative year-to-date counts. Med: Median. Max: Maximum.

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending April 11, 2009, and April 5, 2008 (14th week)*

	Vovicelle (shiskanney)						West Nile virus disease† Neuroinvasive Nonneuroinvasive Nonneuroinvasive									
	Varicella (chickenpox) Previous							uroinvasi	ve					sive [§]		
			vious veeks	_	_		Prev 52 w		_	_		Prev	ious eeks	_	_	
Reporting area	Current week	Med	Max	Cum 2009	Cum 2008	Current week	Med	Max	Cum 2009	Cum 2008	Current week	Med	Max	Cum 2009	Cum 2008	
United States	217	438	1,015	4,996	9,571	_	1	75		2		1	77		4	
New England	2	13	29	92	288	_	0	2	_	_	_	0	1	_	_	
Connecticut Maine [¶]	_	0 2	0 11	_	105	_	0 0	2	_	_	_	0	1 0	_	_	
Massachusetts	_	0	1	_	- 105	_	0	1	_	_	_	0	0	_	_	
New Hampshire	2	4	12	64	102	_	0	0	_	_	_	0	0	_	_	
Rhode Island [¶] Vermont [¶]	_	0 4	0 17	 28	— 81	_	0	1 0	_	_	_	0	0	_	_	
Mid. Atlantic	31	42	83	498	809	_	0	8	_	_	_	0	4	_	_	
New Jersey	N	0	0	N	N	_	0	2	_	_	_	0	1	_	_	
New York (Upstate) New York City	N —	0	0 0	N	_ N	_	0 0	5 2	_	_	_	0	2 2	_	_	
Pennsylvania	31	42	83	498	809	_	Ö	2	_	_	_	ŏ	1	_	_	
E.N. Central	104	145	312	2,209	2,115	_	0	8	_	_	_	0	3	_	_	
Illinois Indiana	_	38 0	73 7	535 34	203	_	0	4 1	_	_	_	0	2 1	_	_	
Michigan	16	56	116	700	934	_	0	4	_	_	_	0	2	_	_	
Ohio Wisconsin	87 1	44 5	106 50	847 93	867 111	_	0 0	3 2	_	_	_	0	1	_	_	
W.N. Central	24	22	72	429	440	_	0	6	_	1	_	0	21	_		
Iowa	N	0	0	N	N	_	0	2	_	_	_	0	1	_	_	
Kansas Minnesota	12	5 0	22 0	102	223	_	0	2 2	_	1	_	0	3 4	_	_	
Missouri	12	12	51	291	197	_	0	3	_	_		Ö	1	_	_	
Nebraska [¶]	N	0	0	N	Ŋ	_	0	1	_	_	_	0	6	_	_	
North Dakota South Dakota	_	0	39 4	36	4 16	_	0 0	2 5	_	_	_	0	11 6	_	_	
S. Atlantic	41	71	163	748	1,743	_	0	4	_	_	_	0	4	_	_	
Delaware	_	1	5	2	7	_	0	0	_	_	_	0	1	_	_	
District of Columbia Florida	35	0 29	3 68	504	8 614	_	0	2 2	_	_	_	0	0	_	_	
Georgia	N	0	0	N	N	_	0	1	_	_	_	Ō	1	_	_	
Maryland [¶] North Carolina	N N	0	0 0	N N	N N	_	0 0	2 1	_	_	_	0	3	_	_	
South Carolina®	6	9	67	64	303	_	Ö	Ó	_	_	_	Ö	i	_	_	
Virginia¶	_	15	60	28	552	_	0	0	_	_	_	0	1	_	_	
West Virginia E.S. Central	_	11 11	32 101	150 17	259 369	_	0 0	1 7	_	_	_	0 0	0 9		2	
Alabama¶	_	11	101	16	363	_	0	3	_	_	_	ő	2	_	_	
Kentucky	N	0	0 1	N	N 6	_	0	1 4	_	_	_	0	0 8	_	_ 1	
Mississippi Tennessee [¶]	 N	0	0	1 N	N	_	0	2	_	_	_	0	3	_	1	
W.S. Central	_	87	355	492	2,944	_	0	8	_	_	_	0	7	_	1	
Arkansas¶ Louisiana	_	4 1	61 5	19 15	235 31	_	0 0	1 3	_	_	_	0	1 5	_	_	
Oklahoma	N	Ó	0	N	N	_	0	1	_	_		Ö	1		_	
Texas [¶]	_	75	345	458	2,678	_	0	6	_	_	_	0	4	_	1	
Mountain Arizona	15	33 0	83 0	470	830	_	0 0	12 10	_	1 1	_	0	22 8	_	1	
Colorado	15	13	44	203	322	_	0	4	_		_	0	10	_	_	
Idaho¶	N	0	0	N	N 104	_	0	1	_	_	_	0	6	_	1	
Montana [¶] Nevada [¶]	N	4 0	27 0	70 N	124 N	_	0 0	0 2	_	_	_	0 0	2 3	_	_	
New Mexico [¶]		3	10	40	92	_	0	1	_	_	_	0	1	_	_	
Utah Wyoming [¶]	_	12 0	31 1	157	284 8	_	0	2 0	_	_	_	0	5 2	_	_	
Pacific	_	3	8	41	33	_	0	38	_		_	0	23	_	_	
Alaska	_	1	6	25	12	_	0	0	_	_	_	0	0	_	_	
California Hawaii	_	0 1	0 4	 16	 21	_	0	37 0	_	_	_	0	20 0	_	_	
Oregon¶	N	Ö	0	N	N	_	0	2	_	_	_	0	4	_	_	
Washington	N	0	0	N	N	_	0	1	_	_	_	0	1	_	_	
American Samoa C.N.M.I.	N	0	0	N	N	_	0	0	_	_	_	0	0	_	_	
Guam	_	1	17	_	21	_	0	0	_	_	_	0	0	_	_	
Puerto Rico	2	9	29	89	166	_	0	0	_	_	_	0	0	_	_	
U.S. Virgin Islands	_	0	0	_	_	_	0	0	_	_	_	0	0	_	_	

C.N.M.I.: Commonwealth of Northern Mariana Islands.
U: Unavailable. —: No reported cases. N: Not notifiable. Cum: Cumulative year-to-date counts. Med: Median. Max: Maximum.

^{*} Incidence data for reporting year 2008 and 2009 are provisional.

[†] Updated weekly from reports to the Division of Vector-Borne Infectious Diseases, National Center for Zoonotic, Vector-Borne, and Enteric Diseases (ArboNET Surveillance). Data for California serogroup, eastern equine, Powassan, St. Louis, and western equine diseases are available in Table I.

[§] Not notifiable in all states. Data from states where the condition is not notifiable are excluded from this table, except starting in 2007 for the domestic arboviral diseases and influenza-associated pediatric mortality, and in 2003 for SARS-CoV. Reporting exceptions are available at http://www.cdc.gov/epo/dphsi/phs/infdis.htm.
¶ Contains data reported through the National Electronic Disease Surveillance System (NEDSS).

TABLE III. Deaths in 122 U.S. cities.* week ending April 11, 2009 (14th week)

TABLE III. Deaths			ises, by a				•	, 		All car	uses, by	age (vea	rs)		
	All	7111 000		igo (you.			P&I [†]		All	7111 001		ago (you	,		P&I [†]
Reporting area	Ages	≥65	45-64	25-44	1–24	<1	Total	Reporting area	Ages	≥65	45-64	25–44	1–24	<1	Total
New England	458	322	93	26	9	8	45	S. Atlantic	1,223	791	284	90	37	21	87
Boston, MA	138	78	38	10	6	6	14	Atlanta, GA	159	107	32	11	4	5	8
Bridgeport, CT	22	17	3	1	_	1	2	Baltimore, MD	165	98	39	20	5	3	21
Cambridge, MA	13	10	2	1	_	_	3	Charlotte, NC	98	70	20	6	2	_	9
Fall River, MA	27	22	3	2	_	_	3	Jacksonville, FL	146	87	40	13	5	1	8
Hartford, CT	38	27	6	5	_	_	4	Miami, FL	112	79	21	10	_	2	10
Lowell, MA Lynn, MA	17 8	11 7	3	2 1	1	_	2 1	Norfolk, VA Richmond, VA	51 67	34 41	9 17	1 6	5 2	2 1	1 5
New Bedford, MA	23	19	4			_	2	Savannah, GA	69	44	15	4	3	3	6
New Haven, CT	Ü	Ü	Ū	U	U	U	Ū	St. Petersburg, FL	80	63	11	2	4	_	5
Providence, RI	61	47	9	2	2	1	4	Tampa. FL	154	98	45	7	3	1	9
Somerville, MA	3	2	1	_	_	_	_	Washington, D.C.	111	62	32	10	4	3	4
Springfield, MA	33	25	7	1	_	_	1	Wilmington, DE	11	8	3	_	_	_	1
Waterbury, CT	22	17	5	_	_	_	4	E.S. Central	929	604	220	56	22	27	81
Worcester, MA	53	40	12	1	_	_	5	Birmingham, AL	231	135	66	15	7	8	20
Mid. Atlantic	1,792	1,265	367	99	24	37	95	Chattanooga, TN	70	50	17	2	_	1	2
Albany, NY	54	42	7	3	_	2	5	Knoxville, TN	86	68	15	1	_	2	13
Allentown, PA	33	30	2	1	_	_	2	Lexington, KY	60	36	18	3	2	1	3
Buffalo, NY	72	49	17	6	_	_	5	Memphis, TN Mobile, AL	173	112	38	14	4	5	18
Camden, NJ Elizabeth, NJ	22 12	10 8	8 4	2	_	2	_	,	87 71	58 42	23 19	2 7	2	2 1	6 9
Erie, PA	44	36	6	1	_	1	5	Montgomery, AL Nashville, TN	151	103	24	12	5	7	10
Jersey City, NJ	25	16	6	2	1		2	W.S. Central	1,267	841	296	70	27	33	78
New York City, NY	1,000	716	202	58	13	11	45	Austin. TX	81	48	21	7	1	4	1
Newark, NJ	50	17	16	6	1	10	1	Baton Rouge, LA	53	44	7	2			
Paterson, NJ	11	9	1	_	1	_	4	Corpus Christi, TX	50	32	12	3	1	2	4
Philadelphia, PA	152	93	38	9	2	10	7	Dallas, TX	212	143	45	11	6	7	10
Pittsburgh, PA§	30	21	8	1	_	_	5	El Paso, TX	50	36	12	1	1	_	3
Reading, PA	34	27	5	_	2	_	2	Fort Worth, TX	U	U	U	U	U	U	U
Rochester, NY	123	91	24	5	3	_	6	Houston, TX	303	192	73	22	6	10	21
Schenectady, NY	14	11	2	_	1	_	_	Little Rock, AR	89	51	26	4	4	4	3
Scranton, PA	30	24	3	3	_	_	_	New Orleans, LA	U	U	U	U	U	U	U
Syracuse, NY	54	39	12	2	-	1	4	San Antonio, TX	226	150	52	15	4	5	23
Trenton, NJ	U	U	U	U	U	U	U	Shreveport, LA	68	41	22	1	3	1	6
Utica, NY	18	14	4 2	_	_	_	1	Tulsa, OK	135	104	26	4	1	<u> </u>	7
Yonkers, NY E.N. Central	14 1,881	12 1,259	416	126	40	40	1 154	Mountain Albuquerque, NM	1,142 121	770 75	249 27	70 10	35 8	17 1	78 10
Akron, OH	51	36	7	2	3	3	104	Boise, ID	38	75 29	4	5	_		3
Canton, OH	51	38	12	_	_	1	11	Colorado Springs, CO	75	44	15	8	5	3	1
Chicago, IL	314	200	72	27	9	6	31	Denver, CO	95	61	25	6	1	1	5
Cincinnati, OH	110	73	24	5	4	4	13	Las Vegas, NV	305	204	77	16	6	2	30
Cleveland, OH	192	145	30	13	2	2	11	Ogden, UT	20	15	4	_	_	1	_
Columbus, OH	207	128	50	20	5	4	13	Phoenix, AZ	166	101	35	16	9	5	11
Dayton, OH	132	98	24	8	1	1	13	Pueblo, CO	38	26	11	_	1	_	2
Detroit, MI	121	49	45	15	8	4	5	Salt Lake City, UT	122	87	25	4	2	4	7
Evansville, IN	40	28	10	2	_	_	2	Tucson, AZ	162	128	26	5	3	_	9
Fort Wayne, IN	71	48	17	4	2	_	11	Pacific	1,740	1,209	383	81	36	31	199
Gary, IN	11	5	4	2	_	_	_	Berkeley, CA	15	9	5	_	_	1	3
Grand Rapids, MI	64	45	12	5	2	7	7 16	Fresno, CA	128	89	24	6	6	3	14
Indianapolis, IN	182 34	120 28	40 5	12 1	3	/	16 —	Glendale, CA Honolulu, HI	39 66	36 46	2 12	4	_	1 4	14 10
Lansing, MI Milwaukee, WI	59	40	12	4	_	3	4	Long Beach, CA	73	51	13	7	1	1	11
Peoria, IL	27	17	7	1		2	4	Los Angeles, CA	266	174	62	19	9	2	29
Rockford, IL	35	24	10	i	_	_	1	Pasadena, CA	22	18	3	1	_	_	3
South Bend, IN	31	18	10	1	_	2	<u>.</u>	Portland, OR	146	108	24	8	3	3	11
Toledo, OH	79	64	12	2	1	_	7	Sacramento, CA	216	155	51	6	2	2	23
Youngstown, OH	70	55	13	1	_	1	4	San Diego, CA	147	98	35	6	5	3	14
W.N. Central	589	387	144	31	12	12	39	San Francisco, CA	114	82	26	2	2	2	11
Des Moines, IA	78	65	8	3	1	1	3	San Jose, CA	215	155	46	8	1	5	32
Duluth, MN	27	23	3	1	_	_	1	Santa Cruz, CA	22	17	4	1	_	_	4
Kansas City, KS	20	7	10	_	1	2	1	Seattle, WA	89	53	27	4	2	3	7
Kansas City, MO	82	47	23	7	3	1	4	Spokane, WA	51	42	6	3	_	_	7
Lincoln, NE	38	26	11	1	_	_	4	Tacoma, WA	131	76	43	6	5	1	6
Minneapolis, MN	68	41	16	8	1	2	7	Total [¶]	11,021	7,448	2,452	649	242	226	856
Omaha, NE	74	48	17	3	3	3	9								
St. Louis, MO	88	55	25	4	1	2	2								
St. Paul, MN	52	30	18	1	2	1	5								
Wichita, KS	62	45	13	3			3	1							

U: Unavailable. —:No reported cases.

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

† Pneumonia and influenza.

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

1 Total includes unknown ages.

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