

Weekly

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# World TB Day, March 24, 2003

World TB Day is an annual event that commemorates the date in 1882 when Robert Koch announced his discovery of the tuberculosis (TB) bacillus. TB is one of the leading causes of death from infectious diseases worldwide. An estimated 2 billion persons—one third of the world's population-are infected with the bacteria that cause TB, and approximately 2 million persons die each year from TB. After years of decline in the United States, the number of reported TB cases increased 20% during 1985-1992. This resurgence was associated with deterioration of the infrastructure for TB services, the human immunodeficiency virus (HIV) epidemic, immigration of persons from countries where TB is endemic, TB transmission in congregate settings (e.g., hospitals and prisons), and development of multidrug-resistant TB. However, a renewed emphasis on TB control and prevention in the 1990s resulted in substantial declines in the disease. Provisional data indicate that 2002 will mark the 10th consecutive year of declining TB cases reported in the United States.

CDC is committed to the goal of eliminating TB in the United States. However, achieving this goal will not be possible without strengthening collaborations with national and international health partners to reach those at highest risk for TB and identifying innovative strategies to improve testing and treatment among high-risk populations. One important CDC effort has been the establishment of a binational TB referral system for TB patients who cross the United States-Mexico border. Other efforts include supporting public health action through prompt and accurate TB surveillance, assisting with the control of domestic outbreaks, and contributing to the global effort against TB. Additional information about World TB Day and CDC's TB elimination activities is available at http://www.cdc.gov/nchstp/tb/ worldtb2003/default.htm.

# Trends in Tuberculosis Morbidity — United States, 1992–2002

During 2002, a total of 15,078 TB cases were reported to CDC, representing a 5.7% decline from 2001, a 43.5% decline from the 1992 peak of the TB resurgence, and the lowest recorded TB rate in the United States since reporting began in 1953. Declines have occurred since 1992 in all age groups, racial/ethnic populations, and regions of the United States. Despite this progress, the 2002 rate of 5.2 per 100,000 population remained higher than the 2000 interim goal of 3.5 set as part of the national strategic plan for TB elimination (<1 case per 1,000,000 by 2010) (1). This report summarizes data from the national TB surveillance system for 2002 and describes trends over the past decade. Overall national declines in TB incidence mask substantial disparities between rates in the majority of U.S. residents and rates in the two populations, foreign-born persons and U.S.-born non-Hispanic blacks, which now account for approximately three fourths of TB cases. Further progress toward TB elimination in the United States will depend on 1) domestic programs that provide services to foreign-born persons with latent TB infection, 2) collaborative efforts that reduce the burden of TB disease globally, and 3) intensified TB-control efforts that address higher TB rates in the U.S.-born non-Hispanic black population.

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### **Centers for Disease Control and Prevention**

Julie L. Gerberding, M.D., M.P.H. Director

David W. Fleming, M.D. Deputy Director for Public Health Science

Dixie E. Snider, Jr., M.D., M.P.H. Associate Director for Science

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Lynda G. Cupell Malbea A. Heilman *Visual Information Specialists* 

Quang M. Doan Erica R. Shaver Information Technology Specialists

# Division of Public Health Surveillance and Informatics

Notifiable Disease Morbidity and 122 Cities Mortality Data Robert F. Fagan Deborah A. Adams Felicia J. Connor Lateka Dammond Patsy A. Hall Pearl C. Sharp The 50 states and the District of Columbia report to the national TB surveillance system by using a standard case definition and report form (2). Completeness of reporting to the national system is estimated to be >95% (3). Data were analyzed for cases reported during 1992–2002 by using case reports updated as of February 18, 2003. A U.S.-born person was defined as someone born in the United States or its associated jurisdictions, or someone born in a foreign country but having at least one U.S.-born parent; others were classified as foreign-born. U.S.-born and foreign-born population counts in 1992 were obtained from postcensus estimates (4). Overall U.S.-born and foreign-born population counts for 2002 were based on an extrapolation from the April 2000 U.S. Census, and the distribution of racial/ethnic groups was estimated from the March 2000 Current Population Survey (5).

In 2002, the overall TB case rate of 5.2 represents a decline of 7.1% from 2001 and 50.5% from 1992. During 1992– 2002, case rates declined in all but three states (Table 1). Five states (California, Florida, Illinois, New York, and Texas) accounted for 52.5% of cases and 68.3% of the overall decrease in the number of cases; case rates in these states declined an average of approximately 50% during 1992–2002. The proportion of patients with multidrug-resistant TB (i.e., resistance to at least isoniazid and rifampin) decreased from 486 (2.7%) of 17,690 culture-positive cases with initial susceptibility results in 1993 (the first year for which data were collected) to 138 (1.3%) of 10,601 cases in 2002.

During 1992–2002, rates declined in both the U.S.-born and the foreign-born populations. However, the decline was substantially less among foreign-born populations (Table 2), and the ratio of foreign-born to U.S.-born rates doubled, from 4.2 in 1992 to 8.4 in 2002. In 2002, for the first time, TB cases among foreign-born persons accounted for the majority (51.0%) of TB cases in the United States. The number of states with >50% of cases among foreign-born persons increased from four in 1992 to 22 in 2002 (Figure). In seven states, approximately 70% of cases were among foreign-born persons (New Hampshire [79.0%], Idaho [76.9%], Minnesota [76.4%], California [75.8%], Massachusetts [75.7%], Hawaii [74.3%], and Colorado [70.2%]. As in 1992, the most common birth countries for foreign-born persons with TB in 2002 were Mexico (24.8%), the Philippines (11.3%), Vietnam (8.6%), India (7.6%), China (4.5%), Haiti (3.4%), and South Korea (2.7%). The proportion of patients who completed recommended treatment within 1 year was 81.0% in the U.S.-born and 79.2% in the foreign-born populations in 1999 (the most recent year for which these outcome data were available).

Despite a 68.4% decline in rates from 1992, U.S.-born non-Hispanic blacks in 2002 continued to have the highest TB

State         No.         Rate         No.         Rate         No.         Rate         % change in rate           >900 cases in 2002         4574         (5.2)         1,435         (7.5)         -88.6         (7.02)         1           Georgia         893         (12.6)         52.04         (6.2)         -46.1         (50.0)         14.1           Ininois         1,270         (10.9)         86.00         (5.2)         -46.1         (40.3)         22.0           Calfornia         5,362         (17.4)         3,169         (9.0)         -41.1         (44.8)         20.0           Calfornia         5,362         (17.7)         146         (3.6)         -43.7         (46.4)         22.0         (56.1)         9           Messissippi         402         (10.7)         146         (3.6)         -43.7         (4.1)         22.0         (56.1)         9           Arkansas         257         (10.7)         136         (5.5)         -41.6         (49.5)         17           Hassissipri         273         (23.5)         148         (11.9)         -45.8         (40.4)         18           Messissipri         273         (23.5)         148		19	992	2	002	% change	Overall rank by	
590 cases in 2002	State	No.	Rate	No.	Rate	No.	Rate	% change in rate
New Vork4.574( $25.2$ )1.435( $7.5$ )-68.6( $7.02$ )1New Jorsey984( $12.6$ )530( $6.1$ )-41.3( $53.8$ )11New Jorsey984( $12.6$ )530( $6.2$ )-46.1( $50.8$ )14Illinois1.270( $14.2$ )1.550( $7.1$ )-38.2( $50.8$ )16California5.382( $17.4$ )3.169( $9.0$ )-41.1( $48.3$ )22California5.382( $17.4$ )3.169( $9.0$ )-41.1( $48.3$ )22California5.382( $17.4$ )3.169( $9.0$ )-41.1( $48.3$ )22California5.382( $17.4$ )3.169( $9.0$ )-41.1( $48.3$ )21Mississippi221( $10.7$ )136( $6.0$ -47.1( $53.3$ )12Arkanasa257( $10.7$ )136( $6.0$ -41.1( $48.3$ )17Hawail273( $23.5$ )148( $11.9$ )-45.8( $49.4$ )18Indiana247( $4.4$ )128( $2.1$ -44.5( $48.9$ )19Hawail273( $23.5$ )148( $11.9$ )-45.8( $49.4$ )18Indiana247( $4.4$ )128( $2.1$ -44.5( $48.9$ )19Arkanasa257( $10.5$ )308( $5.2$ )-33.1( $42.8$ )19Alabarna418( $10.7$ )233( $6.2$ -33.1( $42.8$ )12La	>500 cases in 2002							
Georgia         989         (13.2)         52.4         (6.1)         -4.1.3         (53.6)         11           New Jersey         984         (12.6)         530         (6.2)         -46.1         (56.6)         14           Illinois         1.270         (10.9)         680         (5.4)         -46.5         (56.5)         15           Florida         1.707         (12.7)         1.086         (6.5)         -36.4         (48.8)         22           total setsion of the setsion	New York	4,574	(25.2)	1,435	(7.5)	-68.6	(-70.2)	1
New Jorsey         984         (12.6)         53.0         (6.2)         -4.6.1         (-50.8)         14           Illinois         1.270         (10.9)         680         (5.4)         -46.5         (-50.5)         15           Toxas         2.510         (14.2)         1.550         (7.1)         -38.2         (-50.0)         16           California         5.382         (17.4)         3.169         (9.0)         -4.1         (-48.3)         22           California         5.382         (17.4)         3.166         (-6.7)         -52.0         (-56.1)         9           Messicsippi         221         (10.7)         136         (6.7)         -52.0         (-56.1)         12           Indiana         247         (4.4)         12.8         (2.1)         -46.2         (-52.3)         13           Tannessee         527         (10.5)         308         (5.3)         -44.5         (-46.9)         18           Missouri         245         (4.7)         136         (2.4)         -44.5         (-46.9)         12           Mabama         418         (10.1)         233         (5.2)         -34.1         (-46.5)         11 <t< td=""><td>Georgia</td><td>893</td><td>(13.2)</td><td>524</td><td>(6.1)</td><td>-41.3</td><td>(-53.8)</td><td>11</td></t<>	Georgia	893	(13.2)	524	(6.1)	-41.3	(-53.8)	11
Illinois         1,270         (10.9)         680         (5.4)         -4.6, (50.5)         15           Forda         1,707         (12.7)         1,066         (6.5)         -36.4         (-48.8)         20           California         5,382         (17.4)         3,169         (9.0)         -41.1         (-48.8)         22           ID-99 cases in 2002          - </td <td>New Jersey</td> <td>984</td> <td>(12.6)</td> <td>530</td> <td>(6.2)</td> <td>-46.1</td> <td>(-50.8)</td> <td>14</td>	New Jersey	984	(12.6)	530	(6.2)	-46.1	(-50.8)	14
Tease         2.510         (14.2)         1.550         (7.1)         38.2         (50.0)         16           Fonda         1.707         (12.7)         1.086         (6.5)         36.4         (4.8.8)         20           California         5.382         (17.4)         3.169         (9.0)         -41.1         (-4.8.3)         22           De-496 cases in 202         (10.7)         136         (4.7)         52.0         (-56.1)         9           Panonsylvania         2781         (10.7)         135         (2.1)         -42.5         12           Indiana         2477         (14.4)         128         (2.1)         -42.5         13         12           Indiana         2477         (14.4)         128         (2.1)         -44.5         (-40.9)         18           Mesouri         245         (4.7)         136         (2.4)         -44.5         (-40.9)         19           Jabaran         418         (10.1)         233         (5.2)         -43.1         (-40.9)         28           South Carolina         604         (8.8)         444         (5.2)         28.1         (-40.9)         28           North Carolina	Illinois	1.270	(10.9)	680	(5.4)	-46.5	(-50.5)	15
Florida         17.07         (12.7)         1.086         (6.5)         -96.4         (48.8)         20           California         5.382         (17.4)         3,169         (8.0)         -41.1         (48.3)         22           Ib0-499 cases in 2002	Texas	2,510	(14.2)	1.550	(7.1)	-38.2	(-50.0)	16
California         5,382         (17,4)         3,169         (9,0)         441.1         (448.3)         22           100-490 cases in 2002         Kentucky         402         (10,7)         146         (3,6)         -63.7         (466.4)         4           Mississippi         281         (10,7)         135         (4,7)         -52.0         (56.1)         9           Pennsylvaria         758         (6.3)         353         (2.9)         -53.4         (54.0)         10           Arkanasa         257         (10,7)         136         (5.0)         -47.1         (53.3)         12           Indiana         247         (4.4)         128         (2.1)         -46.8         (49.4)         18           Massouri         24.5         (4.7)         136         (2.4)         -44.5         (44.9)         19           Alabarna         387         (10,7)         256         (6.2)         -33.9         (42.1)         26           North Carolina         640         (6.8)         434         (5.2)         -28.1         (40.4)         30           Michigan         457         (7.2)         315         (4.3)         -31.1         (40.4) <td< td=""><td>Florida</td><td>1 707</td><td>(12.7)</td><td>1 086</td><td>(6.5)</td><td>-36.4</td><td>(-48.8)</td><td>20</td></td<>	Florida	1 707	(12.7)	1 086	(6.5)	-36.4	(-48.8)	20
Dock Mark         Control         Contro         Control         Control         Control         Contro	California	5 382	(17.4)	3 169	(9.0)	-41 1	(-48.3)	22
New Construction         Open and Construction         Particity         Parity         Particity         Particity	100-499 cases in 2002	0,002	(1711)	0,100	(0.0)		(10.0)	
Mississippi Pennsylvania         281         (10.7)         135         (4.7)         -53.0         (-56.1)         9           Arkansas         257         (10.7)         136         (2.0)         -43.1         (-54.0)         10           Arkansas         257         (10.7)         136         (5.0)         -47.1         (-53.3)         12           Indiana         247         (4.4)         128         (2.1)         -48.2         (-52.3)         13           Tiennessee         527         (10.5)         308         (5.3)         -41.6         (-48.5)         17           Hawaii         273         (23.5)         148         (11.9)         -45.8         (-48.9)         19           Alabama         418         (10.1)         233         (5.2)         -33.9         (-42.1)         26           North Carolina         604         (8.8)         434         (5.2)         -33.1         (-40.3)         30           Wirgina         495         (5.2)         315         (3.1)         -36.4         (-40.4)         30           Virginia         427         (7.2)         315         (4.3)         -31.1         (-40.2)         32	Kentucky	402	(10.7)	146	(3.6)	-63 7	(-66.4)	4
massapp         2.01         (10.7)         10.3         (17.7)         20.5         (25.7)         10.3           Pennsykwalia         758         (6.3)         353         (2.8)         -33.4         (5.6.0)         10           Arkansas         257         (10.7)         136         (5.0)         -47.1         (-58.3)         12           Indiana         247         (4.4)         128         (2.1)         -46.2         (-48.5)         17           Hawaii         273         (23.5)         144         (11.9)         -45.8         (-48.9)         19           Alabama         418         (10.7)         256         (6.2)         -43.3         (-42.1)         26           North Carolina         604         (8.8)         -434         (5.2)         -28.1         (-40.9)         28           Massachusetts         428         (7.1)         271         (4.2)         -36.7         (-40.8)         29           Michigan         495         (5.2)         315         (3.1)         -36.4         (40.2)         32           Maryland         442         (9.0)         306         (5.6)         -30.8         (-37.6)         33	Mississinni	281	(10.7)	135	(4.7)	-52.0	(-56.1)	0
Perinsynamia       250       (0.5)       353       (2.2)       354-5       (3.5)       12         Indiana       247       (4.4)       128       (2.1)       -46.2       (52.3)       13         Tennessee       527       (10.5)       308       (5.3)       -41.6       (44.2.)       (53.3)       12         Hawaii       273       (23.5)       148       (11.9)       -45.8       (-49.4)       18         Missouri       245       (4.7)       136       (2.4)       -44.5       (-40.9)       28         Mabsachusetts       448       (10.1)       233       (5.2)       -33.1       (-40.9)       28         Massachusetts       448       (7.1)       271       (4.2)       -36.7       (-40.9)       28         Massachusetts       448       (7.1)       271       (4.2)       -36.7       (-40.9)       22         North Carolina       604       (8.8)       444       (5.2)       -38.1       (-40.4)       30         Wichigan       495       (5.2)       315       (3.1)       -36.4       (40.4)       30         Louisiana       373       (6.7)       231       (5.2)       -38.1	Poppovlyania	759	(10.7)	252	(4.7)	-52.0	(-50.1)	10
Antanisas         2.07         (107)         130         (3.0)         -47.1         (2.53.5)         12           Indiana         247         (107)         130         (3.0)         -47.1         (2.53.5)         14           Tennessee         527         (10.5)         308         (5.3)         -41.6         (-49.5)         17           Hawaii         273         (23.5)         148         (11.9)         -45.8         (-49.4)         18           Massouri         245         (4.7)         136         (2.4)         -44.5         (-48.9)         19           Alabama         418         (10.7)         256         (6.2)         -33.9         (-42.1)         26           Massachusetts         428         (7.1)         271         (4.2)         -26.7         (-40.8)         29           Michigan         495         (5.2)         315         (3.1)         -36.4         (-40.4)         30           Virginia         457         (7.2)         315         (4.3)         -31.1         (-40.3)         31           Lutisiana         373         (8.7)         231         (5.2)         -38.1         (40.3)         31           Cor	Arkonooo	750	(0.3)	126	(2.3)	-55.4	(-34.0)	10
Initiality         247         (14,7)         120         (2.1)         -46.2         (2.5.3)         13           Tennessee         527         (10.5)         308         (5.3)         -41.6         (-49.5)         17           Hawaii         273         (23.5)         148         (11.9)         -45.8         (-49.4)         18           Missouri         245         (4.7)         136         (2.4)         -44.5         (-44.5)         21           South Carolina         387         (10.7)         256         (6.2)         -33.9         (-42.1)         26           North Carolina         604         (8.8)         434         (5.2)         -38.1         (-40.9)         28           Massachusetts         428         (7.1)         27.1         (4.2)         -36.7         (-40.6)         29           Michigan         495         (5.2)         315         (4.3)         -31.1         (-40.2)         32           Coloradi         442         (9.0)         306         (5.6)         -30.8         (-37.8)         33           Connecticut         156         (4.8)         111         (3.2)         -23.4         (34.7)         35	Airaiisas	207	(10.7)	100	(0.1)	-47.1	(-55.5)	12
Ibmessee         527         (10.5)         30.8         (5.3)         41.6         (49.5)         17           Hawaii         273         (23.5)         148         (11.9)         45.8         (49.4)         18           Missouri         245         (4.7)         136         (2.4)         -44.5         (44.9)         19           Alabarna         418         (10.7)         256         (6.2)         -33.9         (42.1)         26           North Carolina         604         (8.6)         434         (5.2)         -28.1         (40.9)         28           Massachusetts         428         (7.1)         271         (4.2)         -36.7         (40.8)         29           Michigan         457         (7.2)         315         (4.3)         -31.1         (40.2)         33           Conceticut         156         (4.8)         104         (3.0)         -33.3         (37.5)         33           Conceticut         156         (4.8)         104         (3.0)         -33.3         (57.5)         34           Oregon         145         (4.9)         111         (3.2)         -23.4         (54.7)         35           Mastinigt	Indiana	247	(4.4)	128	(2.1)	-48.2	(-52.3)	13
Hawaii         27.3         (23.5)         148         (11.9)         -43.8         (-49.4)         18           Missouri         245         (4.7)         136         (2.4)         -44.5         (48.9)         19           Alabama         418         (10.1)         233         (5.2)         -44.3         (48.5)         21           South Carolina         367         (10.7)         256         (6.2)         -33.9         (42.1)         26           Massachusetts         428         (7.1)         271         (4.2)         -36.7         (40.8)         29           Michigan         495         (5.2)         315         (3.1)         -36.4         (40.2)         32           Louisiana         373         (8.7)         231         (5.2)         -88.1         (40.2)         32           Connecticut         156         (4.8)         104         (3.0)         -33.3         (37.5)         34           Oregon         145         (4.9)         111         (3.2)         -23.4         (34.7)         35           Washington         306         (6.0)         252         (4.2)         -17.6         (3.0.0)         38           Ariz	Iennessee	527	(10.5)	308	(5.3)	-41.6	(-49.5)	1/
Missoun         245         (4.7)         136         (2.4)         -44.5         (-48.5)         19           Alabama         418         (10.1)         223         (5.2)         -44.3         (44.5)         21           South Carolina         604         (8.8)         434         (5.2)         -28.1         (40.9)         28           Massachusetts         428         (7.1)         271         (4.2)         -36.7         (40.4)         30           Virginia         457         (7.2)         315         (4.3)         -31.1         (40.3)         31           Louisiana         373         (8.7)         231         (5.6)         -30.8         (37.6)         33           Connecticut         156         (4.8)         104         (3.0)         -33.3         (-37.5)         34           Arizona         259         (6.8)         263         (4.8)         1.5         (-29.4)         39           Ohio         358         (3.2)         257         (2.3)         -28.2         (-28.1)         41           Colorado         104         (3.0)         104         (2.3)         0.0         (-27.3)         422           Okiahoma <td>Hawaii</td> <td>273</td> <td>(23.5)</td> <td>148</td> <td>(11.9)</td> <td>-45.8</td> <td>(-49.4)</td> <td>18</td>	Hawaii	273	(23.5)	148	(11.9)	-45.8	(-49.4)	18
Alabama       418       (10.1)       233       (5.2)       -4.4.3       (-48.5)       21         North Carolina       604       (8.8)       434       (5.2)       -28.1       (-40.9)       28         Massachusetts       428       (7.1)       27.1       (4.2)       -36.7       (-40.8)       29         Michigan       495       (5.2)       315       (3.1)       -36.4       (-40.4)       30         Virginia       457       (7.2)       315       (4.3)       -31.1       (-40.2)       32         Connecticut       156       (4.8)       104       (3.0)       -33.3       (-37.8)       33         Connecticut       156       (4.8)       1014       (3.0)       -33.3       (-37.8)       33         Maryland       442       (9.0)       306       (5.6)       -28.4       (-34.7)       35         Masachustona       259       (6.8)       263       (4.8)       1.5       (-28.4)       39         Ohio       358       (3.2)       257       (2.3)       -0.2       (-28.1)       41         Colorado       104       (3.0)       104       (2.3)       0.2       (-28.1)       41	Missouri	245	(4.7)	136	(2.4)	-44.5	(-48.9)	19
South Carolina         367         (10.7)         256         (6.2)         -33.9         (-42.1)         26           Morth Carolina         604         (6.8)         434         (5.2)         -36.7         (-40.9)         28           Michigan         495         (5.2)         315         (3.1)         -36.4         (-40.4)         30           Virginia         495         (5.2)         315         (4.3)         -31.1         (-40.3)         31           Louisiana         373         (8.7)         231         (5.2)         -38.1         (-40.3)         33           Connecticut         156         (4.8)         104         (3.0)         -33.3         (-37.8)         33           Oregon         145         (4.9)         111         (3.2)         -23.4         (-34.7)         35           Washington         306         (6.0)         252         (4.2)         -17.6         (-30.0)         38           Anzona         259         (6.8)         263         (4.8)         1.5         (-28.1)         41           Colorado         104         (3.0)         104         (2.3)         -0.0         (-28.1)         42           M	Alabama	418	(10.1)	233	(5.2)	-44.3	(-48.5)	21
North Carolina       604       (8.6)       434       (5.2)       -28.1       (40.9)       28         Massachusetts       428       (7.1)       271       (4.2)       -36.7       (40.8)       29         Michigan       495       (5.2)       315       (3.1)       -36.4       (40.4)       30         Virginia       457       (7.2)       315       (4.3)       -31.1       (40.3)       31         Louisiana       373       (8.7)       231       (5.2)       -38.1       (-40.2)       32         Connecticut       156       (4.8)       104       (3.0)       -33.3       (57.5)       34         Oregon       145       (4.9)       111       (3.2)       -23.4       (54.7)       35         Washington       306       (6.0)       252       (4.2)       -17.6       (50.0)       38         Arizona       259       (6.8)       263       (4.8)       1.5       (-28.1)       41         Colorado       104       (3.0)       104       (2.3)       0.0       (-23.3)       42         Oklahoma       216       (6.7)       190       (5.4)       -12.0       (-19.4)       44     <	South Carolina	387	(10.7)	256	(6.2)	-33.9	(-42.1)	26
Massachusetts       428       (7.1)       271       (4.2)       -36.7       (-40.8)       29         Michigan       495       (5.2)       315       (3.1)       -36.4       (-40.4)       30         Virginia       457       (7.2)       315       (4.3)       -31.1       (-40.2)       32         Maryland       442       (9.0)       306       (5.6)       -30.8       (-37.8)       33         Connecticut       156       (4.8)       104       (3.0)       -33.3       (-37.5)       34         Oregon       145       (4.9)       111       (3.2)       -23.4       (-34.7)       35         Washington       306       (6.0)       252       (4.2)       -17.6       (-30.0)       38         Arizona       259       (6.8)       263       (4.8)       1.5       (-29.4)       39         Ohio       358       (3.2)       257       (2.3)       -28.2       (28.1)       41         Colorado       104       (3.0)       104       (2.3)       0.0       (-23.3)       42         Okahoma       165       (3.7)       237       (4.7)       43.6       (27.0)       50	North Carolina	604	(8.8)	434	(5.2)	-28.1	(-40.9)	28
Michigan495(5.2)315(3.1)-36.4(40.4)30Virginia457(7.2)315(4.3)-31.1(40.3)31Louisiana373(8.7)231(5.2)-38.1(40.2)32Maryland442(9.0)306(5.6)-30.8(37.8)33Connecticut156(4.8)104(3.0)-33.3(37.5)34Oregon145(4.9)111(3.2)-23.4(-34.7)35Washington306(6.0)252(4.2)-17.6(-30.0)38Arizona259(6.8)263(4.8)1.5(-29.4)39Ohio358(3.2)257(2.3)-28.2(-28.1)11Colorado104(3.0)104(2.3)0.0(-23.3)42Oklahoma165(6.7)190(5.4)-12.0(-19.4)44Minnesota165(3.7)237(4.7)43.6(27.0)50Velta730(1.7)-60.3(-69.8)226Okatoa32(4.5)13(1.7)-60.3(-69.8)22West Virginia92(5.1)30(1.7)-59.4(-62.7)5South Dakota32(4.5)13(1.7)-59.4(-62.2)6Delaware55(8.0)25(3.1)-54.5(61.3)7Idaho	Massachusetts	428	(7.1)	271	(4.2)	-36.7	(-40.8)	29
Virginia       457       (7.2)       315       (4.3)       -31.1       (40.3)       31         Louisiana       373       (8.7)       231       (5.2)       -38.1       (40.2)       32         Maryland       442       (9.0)       306       (5.6)       -30.8       (-37.8)       33         Connecticut       156       (4.8)       104       (3.0)       -33.3       (-37.5)       34         Oregon       145       (4.9)       111       (3.2)       -23.4       (-34.7)       35         Washington       306       (6.0)       252       (4.2)       -17.6       (-30.0)       38         Arizona       259       (6.8)       263       (4.8)       1.5       (-29.4)       39         Ohio       358       (3.2)       257       (2.3)       -28.2       (-28.1)       41         Colorado       104       (3.0)       104       (2.3)       0.0       (-23.3)       42         Oklahoma       216       (6.7)       190       (5.4)       -12.0       (19.4)       44         Minnesota       165       3.7)       237       (4.7)       4.66.7)       3         Wet Virgin	Michigan	495	(5.2)	315	(3.1)	-36.4	(-40.4)	30
Louisiana373 $(6.7)$ 231 $(5.2)$ $-38.1$ $(-40.2)$ 32Maryland442(9.0)306(5.6) $-30.8$ $(-37.8)$ 33Connecticut156(4.8)104(3.0) $-33.3$ $(-37.8)$ 33Oregon145(4.9)111(3.2) $-23.4$ $(-34.7)$ 35Washington306(6.0)252(4.2) $-17.6$ $(-30.0)$ 38Arizona259(6.8)263(4.8)1.5 $(-29.4)$ 39Ohio358(3.2)257(2.3) $-28.2$ $(-28.1)$ 41Colorado104(3.0)104 $(2.3)$ 0.0 $(-22.3)$ $42$ Oklahoma216(6.7)190(5.4) $-12.0$ $(-19.4)$ 44Minnesota165(3.7)237(4.7)43.6(27.0)50<100 cases in 2002	Virginia	457	(7.2)	315	(4.3)	-31.1	(-40.3)	31
Maryland $442$ $(9,0)$ $306$ $(5,6)$ $-30.8$ $(-37.8)$ $33$ Connecticut156 $(4.6)$ 104 $(3.0)$ $-33.3$ $(-37.8)$ $34$ Oregon145 $(4.9)$ 111 $(3.2)$ $-23.4$ $(54.7)$ $35$ Washington306 $(6.0)$ $252$ $(4.2)$ $-17.6$ $(-30.0)$ $38$ Arizona259 $(6.8)$ $263$ $(4.8)$ $1.5$ $(-29.4)$ $39$ Ohio $358$ $(3.2)$ $257$ $(2.3)$ $-28.2$ $(-28.1)$ $41$ Colorado104 $(3.0)$ 104 $(2.3)$ $0.0$ $(-23.3)$ $42$ Oklahoma216 $(6.7)$ 190 $(5.4)$ $-12.0$ $(-19.4)$ $44$ Minnesota165 $(3.7)$ $237$ $(4.7)$ $43.6$ $(27.0)$ $50$ clocases in 2002UtahUtah78 $(4.3)$ $31$ $(1.3)$ $-60.3$ $(-69.8)$ $2$ West Virginia92 $(5.1)$ $30$ $(1.7)$ $-67.4$ $(-66.7)$ $3$ Wyoming8 $(1.7)$ $3$ $(0.6)$ $-62.5$ $(-64.7)$ $5$ South Dakota32 $(4.5)$ $13$ $(1.7)$ $-54.5$ $(-61.3)$ $7$ Idaho26 $(2.4)$ $14$ $(1.0)$ $-46.2$ $(-56.3)$ $8$ Nevada99 $(7.5)$ $85$ $(3.9)$ $-14.1$ $(-48.0)$ $23$	Louisiana	373	(8.7)	231	(5.2)	-38.1	(-40.2)	32
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Marvland	442	(9.0)	306	(5.6)	-30.8	(-37.8)	33
Oregon145 $(4.9)$ 111 $(3.2)$ $-23.4$ $(-34.7)$ $35$ Washington306 $(6.0)$ $252$ $(4.2)$ $-17.6$ $(-30.0)$ $38$ Arizona $259$ $(6.8)$ $253$ $(4.8)$ $1.5$ $(-29.4)$ $39$ Ohio $358$ $(3.2)$ $257$ $(2.3)$ $-28.2$ $(-28.1)$ $41$ Colorado $104$ $(3.0)$ $104$ $(2.3)$ $0.0$ $(-23.3)$ $42$ Oklahoma $216$ $(6.7)$ $190$ $(5.4)$ $-12.0$ $(19.4)$ $44$ Minnesota $165$ $(3.7)$ $237$ $(4.7)$ $43.6$ $(27.0)$ $50$ Voltasses in 2002UtahValues (4.3) $31$ $(1.3)$ $-60.3$ $(-69.8)$ $2$ Values (1900) $23$ North Dakota $92$ $(5.1)$ $30$ $(1.7)$ $-67.4$ $(-66.7)$ $3$ South Dakota $32$ $(4.5)$ $13$ $(1.7)$ $-67.4$ $(-66.7)$ $3$ Nevada $99$ $(7.5)$ $85$ $(3.9)$ $-14.1$ $(-48.0)$ $23$ Nevada $99$ $(7.5)$ $85$ $(3.9)$ $-14.1$ $(4.8)$ $25$ Delaware $55$ $(8.0)$ $25$ $(3.1)$ $-54.5$ $(-61.3)$ $7$ North Dakota $11$ $(1.7)$ $6$ $(0.9)$ $-45.5$ $(-47.1)$ $24$ N	Connecticut	156	(4.8)	104	(3.0)	-33.3	(-37.5)	34
Washington306(6.0)252(4.2) $-17.6$ (-30.0)38Arizona259(6.8)263(4.8)1.5(-29.4)39Ohio358(3.2)257(2.3)-28.2(-28.1)41Colorado104(3.0)104(2.3)0.0(-23.3)42Oklahoma216(6.7)190(5.4)-12.0(19.4)44Minnesota165(3.7)237(4.7)43.6(27.0)50Utah78(4.3)31(1.3)-60.3(-69.8)2Utah78(4.3)30(1.7)-67.4(-66.7)3Wyoming8(1.7)3(0.6)-62.5(-64.7)5South Dakota32(4.5)13(1.7)-59.4(-62.2)6Delaware55(8.0)25(3.1)-54.5(-61.3)7Idaho26(2.4)14(1.0)-46.2(-58.3)8Nevada99(7.5)85(3.9)-14.1(-48.0)23North Dakota116(2.1)78(1.4)-43.8(-41.9)27Wisconsin106(2.1)78(1.4)-43.8(-41.9)27Wisconsin106(2.1)78(1.4)-26.4(-33.3)36Montana16(1.9)12(1.3)-25.0(-31.6	Oregon	145	(4.9)	111	(3.2)	-23.4	(-34.7)	35
Arizona       259       (67)       263       (4.8)       1.5       (-29.4)       39         Ohio       358       (3.2)       257       (2.3)       -28.2       (-28.1)       41         Colorado       104       (3.0)       104       (2.3)       0.0       (-23.3)       42         Okiahoma       216       (6.7)       190       (5.4)       -12.0       (-19.4)       44         Minnesota       165       (3.7)       237       (4.7)       43.6       (27.0)       50          Colorases in 2002       Utah       78       (4.3)       31       (1.3)       -60.3       (-66.7)       3         Wyoning       8       (1.7)       3       (0.6)       -62.5       (-64.7)       5         South Dakota       32       (4.5)       13       (1.7)       -59.4       (-62.2)       6         Delaware       55       (8.0)       25       (3.1)       -54.5       (-61.3)       7         Idaho       26       (2.4)       14       (1.0)       -46.2       (-58.3)       8         Nevada       99       (7.5)       85       (3.9)       -14.1       (-48.0)       23 </td <td>Washington</td> <td>306</td> <td>(6.0)</td> <td>252</td> <td>(4.2)</td> <td>-17.6</td> <td>(-30.0)</td> <td>38</td>	Washington	306	(6.0)	252	(4.2)	-17.6	(-30.0)	38
Dhio         358         (3.2)         257         (2.3)         -282         (2.8.1)         41           Colorado         104         (3.0)         104         (2.3)         0.0         (-23.3)         42           Oklahoma         216         (6.7)         190         (5.4)         -12.0         (-19.4)         44           Minnesota         165         (3.7)         237         (4.7)         43.6         (27.0)         50            Colocases in 2002	Arizona	259	(6.8)	263	(4.8)	15	(-29.4)	39
One         Dood         (1.2)         (1.3)         (1.3)         (1.2.1)         (1.1)           Colorado         104         (3.0)         104         (2.3)         0.0         (2.3.3)         42           Oklahoma         216         (6.7)         190         (5.4)         -12.0         (19.4)         44           Minesota         165         (3.7)         237         (4.7)         43.6         (27.0)         50            Colorases in 2002         Utah         78         (4.3)         31         (1.3)         -60.3         (69.8)         2           West Virginia         92         (5.1)         30         (1.7)         -67.4         (-66.7)         3           Wyoming         8         (1.7)         3         (0.6)         -62.5         (-64.7)         5           South Dakota         32         (4.5)         13         (1.7)         -59.4         (-62.2)         6           Delaware         55         (8.0)         25         (3.1)         -54.5         (-61.3)         7           Idaho         26         (2.4)         14         (1.0)         -46.2         (58.3)         8           Nevada </td <td>Obio</td> <td>258</td> <td>(3.2)</td> <td>257</td> <td>(2.3)</td> <td>-28.2</td> <td>(-28.1)</td> <td>41</td>	Obio	258	(3.2)	257	(2.3)	-28.2	(-28.1)	41
Oblato         104         (2.5)         10.5         (2.5.3)         12.4           Minnesota         165         (3.7)         237         (4.7)         43.6         (27.0)         50           <100 cases in 2002	Colorado	104	(3.0)	10/	(2.3)	0.0	(-23.3)	40
Original         210         (0.7)         130         (0.4)         12.0         (1.4)         144           Minnesota         165         (3.7)         237         (4.7)         43.6         (27.0)         50           <100 cases in 2002	Oklahoma	216	(6.7)	104	(2.0)	-12.0	(-10.4)	42
Animesoda       163       (3.7)       2.57       (4.7)       4.60       (2.10)       50         <100 cases in 2002       Utah       78       (4.3)       31       (1.3)       -60.3       (-69.8)       2         West Virginia       92       (5.1)       30       (1.7)       -67.4       (-66.7)       3         Wyoming       8       (1.7)       3       (0.6)       -62.5       (-64.7)       5         South Dakota       32       (4.5)       13       (1.7)       -59.4       (-62.2)       6         Delaware       55       (8.0)       25       (3.1)       -54.5       (-61.3)       7         Idaho       26       (2.4)       14       (1.0)       -46.2       (-58.3)       8         Nevada       99       (7.5)       85       (3.9)       -14.1       (-48.0)       23         North Dakota       11       (1.7)       6       (0.9)       -45.5       (-47.1)       24         New Mexico       88       (5.6)       57       (3.1)       -35.2       (-44.6)       25         District of Columbia       146       (24.8)       82       (1.4.4)       -26.4       (-33.3)	Minnoacto	165	(0.7)	790	(3.4)	-12.0	(27.0)	50
Utah       78       (4.3)       31       (1.3)       -60.3       (-69.8)       2         West Virginia       92       (5.1)       30       (1.7)       -67.4       (-66.7)       3         Wyoming       8       (1.7)       3       (0.6)       -62.5       (-64.7)       5         South Dakota       32       (4.5)       13       (1.7)       -59.4       (-62.2)       6         Delaware       55       (8.0)       25       (3.1)       -54.5       (-61.3)       7         Idaho       26       (2.4)       14       (1.0)       -46.2       (-58.3)       8         Nevada       99       (7.5)       85       (3.9)       -14.1       (-48.0)       23         North Dakota       11       (1.7)       6       (0.9)       -45.5       (-47.1)       24         New Mexico       88       (5.6)       57       (3.1)       -35.2       (-44.6)       25         District of Columbia       146       (24.8)       82       (14.4)       -43.8       (-41.9)       27         Wisconsin       106       (2.1)       78       (1.4)       -26.4       (-33.3)       36		105	(3.7)	237	(4.7)	43.0	(27.0)	50
West Virginia       92       (5.1)       30       (1.7)       -60.5       (-05.6)       2         Wyoming       8       (1.7)       3       (0.6)       -62.5       (-64.7)       5         South Dakota       32       (4.5)       13       (1.7)       -59.4       (-62.2)       6         Delaware       55       (8.0)       25       (3.1)       -54.5       (-61.3)       7         Idaho       26       (2.4)       14       (1.0)       -46.2       (-58.3)       8         Nevada       99       (7.5)       85       (3.9)       -14.1       (-48.0)       23         North Dakota       11       (1.7)       6       (0.9)       -45.5       (-47.1)       24         New Mexico       88       (5.6)       57       (3.1)       -35.2       (-44.6)       25         District of Columbia       146       (24.8)       82       (14.4)       -43.8       (-41.9)       27         Wisconsin       106       (2.1)       78       (1.4)       -26.4       (-33.3)       36         Montana       16       (1.9)       12       (1.3)       -25.0       (-31.6)       37	<100 cases in 2002	78	(4 3)	31	(1.3)	-60.3	(-60.8)	2
West Virginia       52       (3.1)       30       (1.7)       -60.4       (-60.7)       5         Wyoming       8       (1.7)       3       (0.6)       -62.5       (-64.7)       5         South Dakota       32       (4.5)       13       (1.7)       -59.4       (-62.2)       6         Delaware       55       (8.0)       25       (3.1)       -54.5       (-61.3)       7         Idaho       26       (2.4)       14       (1.0)       -46.2       (-58.3)       8         Nevada       99       (7.5)       85       (3.9)       -14.1       (-48.0)       23         North Dakota       11       (1.7)       6       (0.9)       -45.5       (-47.1)       24         New Mexico       88       (5.6)       57       (3.1)       -35.2       (-44.6)       25         District of Columbia       146       (24.8)       82       (14.4)       -43.8       (-41.9)       27         Wisconsin       106       (2.1)       78       (1.4)       -26.4       (-33.3)       36         Montana       16       (1.9)       12       (1.3)       -25.0       (-31.6)       37	West Virginia	70	(4.3)	30	(1.3)	-00.3	(-03.0)	2
Wyonning       6       (1.7)       3       (0.6)       -62.5       (-64.7)       5         South Dakota       32       (4.5)       13       (1.7)       -54.5       (-62.2)       6         Delaware       55       (8.0)       25       (3.1)       -54.5       (-61.3)       7         Idaho       26       (2.4)       14       (1.0)       -46.2       (-58.3)       8         Nevada       99       (7.5)       85       (3.9)       -14.1       (-48.0)       23         North Dakota       11       (1.7)       6       (0.9)       -45.5       (-47.1)       24         New Mexico       88       (5.6)       57       (3.1)       -35.2       (-44.6)       25         District of Columbia       146       (24.8)       82       (14.4)       -43.8       (-41.9)       27         Wisconsin       106       (2.1)       78       (1.4)       -26.4       (-33.3)       36         Montana       16       (1.9)       12       (1.3)       -25.0       (-31.6)       37         Iowa       49       (1.7)       34       (1.2)       -30.6       (-29.4)       39	West Virginia	92	(3.1)	30	(1.7)	-07.4	(-00.7)	5
South Dakota       32       (4.5)       13       (1.7)       -59.4       (-62.2)       6         Delaware       55       (8.0)       25       (3.1)       -54.5       (-61.3)       7         Idaho       26       (2.4)       14       (1.0)       -46.2       (-58.3)       8         Nevada       99       (7.5)       85       (3.9)       -14.1       (-48.0)       23         North Dakota       11       (1.7)       6       (0.9)       -45.5       (-47.1)       24         New Mexico       88       (5.6)       57       (3.1)       -35.2       (-44.6)       25         District of Columbia       146       (24.8)       82       (14.4)       -43.8       (-41.9)       27         Wisconsin       106       (2.1)       78       (1.4)       -26.4       (-33.3)       36         Montana       16       (1.9)       12       (1.3)       -25.0       (-31.6)       37         Iowa       49       (1.7)       34       (1.2)       -30.6       (-29.4)       39         Alaska       57       (9.7)       49       (7.6)       -14.0       (-21.6)       43	vvyoming Cauth Dalvata	8	(1.7)	3	(0.6)	-02.5	(-64.7)	5
Delaware       55       (8.0)       25       (3.1)       -54.5       (-61.3)       7         Idaho       26       (2.4)       14       (1.0)       -46.2       (-58.3)       8         Nevada       99       (7.5)       85       (3.9)       -14.1       (-48.0)       23         North Dakota       11       (1.7)       6       (0.9)       -45.5       (-47.1)       24         New Mexico       88       (5.6)       57       (3.1)       -35.2       (-44.6)       25         District of Columbia       146       (24.8)       82       (14.4)       -43.8       (-41.9)       27         Wisconsin       106       (2.1)       78       (1.4)       -26.4       (-33.3)       36         Montana       16       (1.9)       12       (1.3)       -25.0       (-31.6)       37         Iowa       49       (1.7)       34       (1.2)       -30.6       (-29.4)       39         Alaska       57       (9.7)       49       (7.6)       -14.0       (-21.6)       43         Rhode Island       54       (5.4)       49       (4.6)       -9.3       (-14.8)       45	Soulli Dakola	32	(4.5)	13	(1.7)	-59.4	(-02.2)	0
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Nevada       99       (7.5)       85       (3.9)       -14.1       (-48.0)       23         North Dakota       11       (1.7)       6       (0.9)       -45.5       (-47.1)       24         New Mexico       88       (5.6)       57       (3.1)       -35.2       (-44.6)       25         District of Columbia       146       (24.8)       82       (14.4)       -43.8       (-41.9)       27         Wisconsin       106       (2.1)       78       (1.4)       -26.4       (-33.3)       36         Montana       16       (1.9)       12       (1.3)       -25.0       (-31.6)       37         Iowa       49       (1.7)       34       (1.2)       -30.6       (-29.4)       39         Alaska       57       (9.7)       49       (7.6)       -14.0       (-21.6)       43         Rhode Island       54       (5.4)       49       (4.6)       -9.3       (-14.8)       45         New Hampshire       18       (1.6)       19       (1.5)       5.6       (-6.3)       46         Netraska       28       (1.7)       28       (1.6)       0.0       (-5.9)       47 <t< td=""><td>Idano</td><td>26</td><td>(2.4)</td><td>14</td><td>(1.0)</td><td>-46.2</td><td>(-58.3)</td><td>8</td></t<>	Idano	26	(2.4)	14	(1.0)	-46.2	(-58.3)	8
North Dakota       11       (1.7)       6       (0.9)       -45.5       (-47.1)       24         New Mexico       88       (5.6)       57       (3.1)       -35.2       (-44.6)       25         District of Columbia       146       (24.8)       82       (14.4)       -43.8       (-41.9)       27         Wisconsin       106       (2.1)       78       (1.4)       -26.4       (-33.3)       36         Montana       16       (1.9)       12       (1.3)       -25.0       (-31.6)       37         Iowa       49       (1.7)       34       (1.2)       -30.6       (-29.4)       39         Alaska       57       (9.7)       49       (7.6)       -14.0       (-21.6)       43         Rhode Island       54       (5.4)       49       (4.6)       -9.3       (-14.8)       45         New Hampshire       18       (1.6)       19       (1.5)       5.6       (-6.3)       46         Nebraska       24       (1.9)       23       (1.8)       -4.2       (-5.3)       48         Vermont       7       (1.2)       8       (1.3)       14.3       (8.3)       49      K	Nevada	99	(7.5)	85	(3.9)	-14.1	(-48.0)	23
New Mexico       88       (5.6)       57       (3.1)       -35.2       (-44.6)       25         District of Columbia       146       (24.8)       82       (14.4)       -43.8       (-41.9)       27         Wisconsin       106       (2.1)       78       (1.4)       -26.4       (-33.3)       36         Montana       16       (1.9)       12       (1.3)       -25.0       (-31.6)       37         Iowa       49       (1.7)       34       (1.2)       -30.6       (-29.4)       39         Alaska       57       (9.7)       49       (7.6)       -14.0       (-21.6)       43         Rhode Island       54       (5.4)       49       (4.6)       -9.3       (-14.8)       45         New Hampshire       18       (1.6)       19       (1.5)       5.6       (-6.3)       46         Nebraska       28       (1.7)       28       (1.6)       0.0       (-5.9)       47         Maine       24       (1.9)       23       (1.8)       -4.2       (-5.3)       48         Vermont       7       (1.2)       8       (1.3)       14.3       (8.3)       49 <td< td=""><td>North Dakota</td><td>11</td><td>(1.7)</td><td>6</td><td>(0.9)</td><td>-45.5</td><td>(-47.1)</td><td>24</td></td<>	North Dakota	11	(1.7)	6	(0.9)	-45.5	(-47.1)	24
District of Columbia       146       (24.8)       82       (14.4)       -43.8       (-41.9)       27         Wisconsin       106       (2.1)       78       (1.4)       -26.4       (-33.3)       36         Montana       16       (1.9)       12       (1.3)       -25.0       (-31.6)       37         Iowa       49       (1.7)       34       (1.2)       -30.6       (-29.4)       39         Alaska       57       (9.7)       49       (7.6)       -14.0       (-21.6)       43         Rhode Island       54       (5.4)       49       (4.6)       -9.3       (-14.8)       45         New Hampshire       18       (1.6)       19       (1.5)       5.6       (-6.3)       46         Nebraska       28       (1.7)       28       (1.6)       0.0       (-5.9)       47         Maine       24       (1.9)       23       (1.8)       -4.2       (-5.3)       48         Vermont       7       (1.2)       8       (1.3)       14.3       (8.3)       49         Kansas       56       (2.2)       89       (3.3)       58.9       (50.0)       51	New Mexico	88	(5.6)	57	(3.1)	-35.2	(-44.6)	25
Wisconsin       106       (2.1)       78       (1.4)       -26.4       (-33.3)       36         Montana       16       (1.9)       12       (1.3)       -25.0       (-31.6)       37         Iowa       49       (1.7)       34       (1.2)       -30.6       (-29.4)       39         Alaska       57       (9.7)       49       (7.6)       -14.0       (-21.6)       43         Rhode Island       54       (5.4)       49       (4.6)       -9.3       (-14.8)       45         New Hampshire       18       (1.6)       19       (1.5)       5.6       (-6.3)       46         Nebraska       28       (1.7)       28       (1.6)       0.0       (-5.9)       47         Maine       24       (1.9)       23       (1.8)       -4.2       (-5.3)       48         Vermont       7       (1.2)       8       (1.3)       14.3       (8.3)       49         Kansas       56       (2.2)       89       (3.3)       58.9       (50.0)       51	District of Columbia	146	(24.8)	82	(14.4)	-43.8	(-41.9)	27
Montana       16       (1.9)       12       (1.3)       -25.0       (-31.6)       37         Iowa       49       (1.7)       34       (1.2)       -30.6       (-29.4)       39         Alaska       57       (9.7)       49       (7.6)       -14.0       (-21.6)       43         Rhode Island       54       (5.4)       49       (4.6)       -9.3       (-14.8)       45         New Hampshire       18       (1.6)       19       (1.5)       5.6       (-6.3)       46         Nebraska       28       (1.7)       28       (1.6)       0.0       (-5.9)       47         Maine       24       (1.9)       23       (1.8)       -4.2       (-5.3)       48         Vermont       7       (1.2)       8       (1.3)       14.3       (8.3)       49         Kansas       56       (2.2)       89       (3.3)       58.9       (50.0)       51	Wisconsin	106	(2.1)	78	(1.4)	-26.4	(-33.3)	36
Iowa49(1.7)34(1.2)-30.6(-29.4)39Alaska57(9.7)49(7.6)-14.0(-21.6)43Rhode Island54(5.4)49(4.6)-9.3(-14.8)45New Hampshire18(1.6)19(1.5)5.6(-6.3)46Nebraska28(1.7)28(1.6)0.0(-5.9)47Maine24(1.9)23(1.8)-4.2(-5.3)48Vermont7(1.2)8(1.3)14.3(8.3)49Kansas56(2.2)89(3.3)58.9(50.0)51	Montana	16	(1.9)	12	(1.3)	-25.0	(-31.6)	37
Alaska       57       (9.7)       49       (7.6)       -14.0       (-21.6)       43         Rhode Island       54       (5.4)       49       (4.6)       -9.3       (-14.8)       45         New Hampshire       18       (1.6)       19       (1.5)       5.6       (-6.3)       46         Nebraska       28       (1.7)       28       (1.6)       0.0       (-5.9)       47         Maine       24       (1.9)       23       (1.8)       -4.2       (-5.3)       48         Vermont       7       (1.2)       8       (1.3)       14.3       (8.3)       49         Kansas       56       (2.2)       89       (3.3)       58.9       (50.0)       51	lowa	49	(1.7)	34	(1.2)	-30.6	(-29.4)	39
Rhode Island       54       (5.4)       49       (4.6)       -9.3       (-14.8)       45         New Hampshire       18       (1.6)       19       (1.5)       5.6       (-6.3)       46         Nebraska       28       (1.7)       28       (1.6)       0.0       (-5.9)       47         Maine       24       (1.9)       23       (1.8)       -4.2       (-5.3)       48         Vermont       7       (1.2)       8       (1.3)       14.3       (8.3)       49         Kansas       56       (2.2)       89       (3.3)       58.9       (50.0)       51	Alaska	57	(9.7)	49	(7.6)	-14.0	(-21.6)	43
New Hampshire         18         (1.6)         19         (1.5)         5.6         (-6.3)         46           Nebraska         28         (1.7)         28         (1.6)         0.0         (-5.9)         47           Maine         24         (1.9)         23         (1.8)         -4.2         (-5.3)         48           Vermont         7         (1.2)         8         (1.3)         14.3         (8.3)         49           Kansas         56         (2.2)         89         (3.3)         58.9         (50.0)         51           Total         26.673         (10.5)         15.078         (5.2)         -43.5         (-50.5)	Rhode Island	54	(5.4)	49	(4.6)	-9.3	(-14.8)	45
Nebraska         28         (1.7)         28         (1.6)         0.0         (-5.9)         47           Maine         24         (1.9)         23         (1.8)         -4.2         (-5.3)         48           Vermont         7         (1.2)         8         (1.3)         14.3         (8.3)         49           Kansas         56         (2.2)         89         (3.3)         58.9         (50.0)         51           Total         26.673         (10.5)         15.078         (5.2)         -43.5         (-50.5)	New Hampshire	18	(1.6)	19	(1.5)	5.6	(-6.3)	46
Maine         24         (1.9)         23         (1.8)         -4.2         (-5.3)         48           Vermont         7         (1.2)         8         (1.3)         14.3         (8.3)         49           Kansas         56         (2.2)         89         (3.3)         58.9         (50.0)         51           Total         26.673         (10.5)         15.078         (5.2)         -43.5         (-50.5)	Nebraska	28	(1.7)	28	(1.6)	0.0	(-5.9)	47
Vermont         7         (1.2)         8         (1.3)         14.3         (8.3)         49           Kansas         56         (2.2)         89         (3.3)         58.9         (50.0)         51           Total         26.673         (10.5)         15.078         (5.2)         -43.5         (-50.5)	Maine	24	(1.9)	23	(1.8)	-4.2	(-5.3)	48
Kansas         56         (2.2)         89         (3.3)         58.9         (50.0)         51           Total         26.673         (10.5)         15.078         (5.2)         -43.5         (-50.5)	Vermont	7	(1.2)	8	(1.3)	14.3	(8.3)	49
Total 26.673 (10.5) 15.078 (5.2) -43.5 (-50.5)	Kansas	56	(2.2)	89	(3.3)	58.9	(50.0)	51
	Total	26.673	(10.5)	15.078	(5.2)	-43.5	(-50.5)	

TABLE 1. Number and rate\* of reported tuberculosis cases, percentage change in number of cases and rate, and rank according to percentage change in rate, by state and year — United States, 1992 and 2002<sup>†</sup>

\*Per 100,000 population. <sup>†</sup>Data for 1992 are final; data for 2002 are provisional.

# TABLE 2. Number and rate\* of tuberculosis cases, and percentage change in rate in U.S.-born and foreign-born persons, by race/ ethnicity — United States, 1992 and 2002<sup>†</sup>

U.Sborn					Foreign-born					Total <sup>§</sup>					
	19	92	20	02	% change	19	92	20	002	% change	19	92	20	002	% change
Race/Ethnicity	No.	Rate	No.	Rate	1992-2002	No.	Rate	No.	Rate	1992-2002	No.	Rate	No.	Rate	1992-2002
White, non-Hispanic	7,043	(3.8)	2,509	(1.3)	-65.8	540	(8.7)	484	(6.1)	-29.9	7,618	(4.0)	3,019	(1.5)	-62.5
Black, non-Hispanic	9,010	(31.0)	3,350	(9.8)	-68.4	591	(44.6)	1,008	(49.9)	11.9	9,623	(31.7)	4,425	(12.3)	-61.2
Hispanic	2,530	(16.1)	975	(4.7)	-70.8	2,828	(33.0)	2,914	(20.1)	-39.1	5,437	(22.4)	3,977	(11.3)	-49.6
American Indian/Alaska Native	298	(16.3)	177	(7.0)	-57.1	-	_	-	_	_	299	(16.1)	191	(7.4)	-54.0
Asian/Pacific Islander	319	(10.1)	162	(3.8)	-62.4	3,296	(66.5)	3,092	(41.3)	-37.9	3,649	(46.7)	3,312	(28.2)	-39.6
Total <sup>¶</sup>	19,225	(8.2)	7,252	(2.8)	-65.9	7,270	(34.5)	7,544	(23.6)	-31.6	26,673	(10.5)	15,078	(5.2)	-50.5

\* Per 100,000 population.

<sup>†</sup> Data for 1992 are final; data for 2002 are provisional.

§ Persons included for whom country of birth was unknown: 178 in 1992 and 282 in 2002.

<sup>1</sup> Persons included for whom race/ethnicity was unknown: 47 for all, 25 for U.S.-born, and 15 for foreign-born persons in 1992; 154 for all, 79 for U.S.-born, and 46 for foreign-born persons in 2002.

### FIGURE. Percentage of tuberculosis cases among foreign-born persons — United States, 1992 and 2002\*



\* Data for 1992 are final; data for 2002 are provisional.

rate of any U.S.-born racial/ethnic population. U.S.-born non-Hispanic blacks comprised the largest number of TB cases among both U.S.-born and foreign-born populations, representing 46.7% of TB cases in U.S.-born persons and approximately one fourth of all cases. Among U.S.-born racial/ethnic populations, rates among non-Hispanic blacks were 7.5 times higher and 2.1 times higher, respectively, than those among non-Hispanic whites and Hispanics, the two other U.S.-born groups that account for the majority of TB cases (Table 2). **Reported by:** *Div of Tuberculosis Elimination, National Center for HIV. STD, and TB Prevention, CDC.* 

**Editorial Note:** Since 1992, when TB cases in the United States peaked after 7 years of stable or increasing rates, TB case rates have declined an average of 5% per year. The strengthened TB control efforts that have been effective in reversing increases in TB rates among U.S.-born persons have had far less effect on TB rates among foreign-born persons (6). The reasons for these differences are unclear and require further study. The differences are not related to timeliness of

completion of therapy, which is similar among U.S.-born and foreign-born persons. However, the accelerated decline in overall U.S. TB cases probably resulted from the implementation of control measures that reduced ongoing transmission of *Mycobacterium tuberculosis* and the subsequent number of TB cases caused by recent infection (7). These measures are relatively less effective in controlling TB among foreign-born persons. Genotyping studies of *M. tuberculosis* isolates suggest that the majority of TB cases in foreign-born persons are the result of progression to disease among persons infected before immigrating to the United States (8).

Closing the gap in TB rates between U.S.-born and foreign-born populations is critical to TB elimination in the United States. Success will depend on domestic programs that provide services to foreign-born persons with latent TB infection and on collaborative efforts that reduce the burden of TB disease globally. To address the high rates in the foreignborn population, CDC is collaborating with other national and international public health organizations to 1) optimize

# dis.patch: n

# (dis-'pach) 1 : A written message, particularly an official communication, sent with speed; see also *MMWR*.



know what matters.



overseas screening of immigrants and refugees, 2) enhance the notification system that alerts local health departments to the arrival of immigrants or refugees with suspected TB to improve diagnosis and treatment, 3) establish a binational TB referral and case management system for the United States and Mexico to improve treatment completion by TB patients who cross the United States-Mexico border (the U.S.-Mexico Binational TB Referral and Case Management Project), 4) identify and treat persons arriving from high-incidence countries who have latent TB infection, and 5) strengthen collaborations with the World Health Organization and other international partners aimed at improving TB control in highincidence countries (the STOP TB Partnership). In support of these efforts, CDC and its 22 partner research institutes, clinical centers, and health departments in the United States and Canada that compose the Tuberculosis Epidemiologic Studies Consortium have initiated a study to identify missed opportunities for TB prevention among foreign-born persons.

Although intensified TB control efforts helped reduce the TB case rate in the U.S.-born non-Hispanic black population by approximately 70% during 1992–2002, that rate has remained approximately eight times higher than the rate among non-Hispanic whites. Because much of this disparity is associated with socioeconomic status (9), intensified outreach programs tailored to the needs of low-income persons might accelerate TB elimination. CDC is funding demonstration projects in South Carolina, Georgia, and Chicago, Illinois, to identify innovative strategies to improve TB screening, diagnosis, and treatment adherence in high-risk black communities.

Elimination of health disparities is one of the national health goals for 2010 (Goal 2) (*10*). Closing the gaps in TB rates will help achieve this and the goal of TB elimination.

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# Transmission of Mycobacterium Tuberculosis Associated with Failed Completion of Treatment for Latent Tuberculosis Infection — Chickasaw County, Mississippi, June 1999–March 2002

During June 1999–March 2002, a total of 16 tuberculosis (TB) cases were reported from Chickasaw County, Mississippi (2000 population: 19,440), corresponding to annual TB incidences of 20.5–27.6 cases per 100,000 population. In comparison, annual TB incidences for Mississippi during the same period decreased from 7.8 to 5.4 cases per 100,000 population. This report summarizes the results of an investigation of the patients and their contacts and demonstrates the need for strategies to increase the proportion of infected contacts that successfully complete treatment for latent TB infection (LTBI).

During April–May 1, 2002, the Mississippi State Department of Health (MSDH) conducted an epidemiologic investigation of the high incidence of TB in Chickasaw County. Patients were interviewed, and health department medical records were reviewed for clinical data. Restriction fragment length polymorphism (RFLP) analysis using IS6110 was performed on all culture isolates. For contacts, LTBI was defined as infection in a patient with a tuberculin skin test (TST)  $\geq 5$  mm induration and no evidence of TB disease. Contact investigation logs were reviewed and health department records used to establish outcomes of treatment for LTBI.

The median age of the 16 TB patients was 31 years (range: 2–64 years); five (31%) were aged <16 years. Ten (63%) patients were male, and 15 (94%) were black. All 16 TB patients were born in the United States and were human immunodeficiency virus (HIV)-seronegative. For 11 patients from whom sputum specimens were obtained for bacteriologic examination, eight (73%) were culture-positive for *Mycobacterium tuberculosis*, of whom six (55%) also were sputum-smear positive for acid-fast bacilli. RFLP analysis performed on all eight culture-positive isolates showed seven (88%) with matching 10-band patterns. The contact investi-

gations and matching RFLP patterns suggest recent transmission of *M. tuberculosis*. Isolates from all culture-confirmed patients were susceptible to first-line anti-TB drugs (isoniazid, rifampin, pyrazinamide, and ethambutol). All 16 patients successfully completed a CDC-recommended course of treatment.

Among the 16 TB patients, five had been diagnosed previously with LTBI as a result of TB contact investigations; patients ranged in age from 28 to 51 years, and four (80%) had a history of regular alcohol use. MSDH attempted to treat all five patients, but all had either refused or stopped treatment. The patients subsequently progressed to active TB and became sources of infection for an additional 10 TB patients, including the five patients aged <16 years.

The 16 TB patients identified 364 contacts (median: 19 contacts per case; range: 6–90). The patients, with the assistance of a health department worker, classified 350 (96%) of these contacts as either close (63%) or casual (37%). The 364 contacts represented 253 persons. As of May 1, 2002, TST screening, including if indicated a 10–12 week follow-up TST, was completed for 230 (91%) of the 253 persons. TST screening results and subsequent evaluation (including chest radiograph, and if indicated, sputum examination) detected LTBI in 67 (26%) persons. Patients with LTBI were not offered HIV testing and counseling routinely.

Adults with LTBI were offered a 9-month regimen of daily self-administered isoniazid, dispensed at 1-month increments. Directly observed treatment for LTBI was offered both to children and those adults with known HIV infection. Treatment for LTBI was defined as complete if the patient had retrieved  $\geq 6$  months of isoniazid and was assessed by a supervising nurse as having completed treatment. Among the 67 persons with LTBI diagnosed, treatment was initiated in 57 (85%), discontinued in nine (13%) because of side effects, and completed in 36 (54%).

As a result of this investigation, patients in Chickasaw County with untreated LTBI were again offered treatment. To enhance completion of treatment for LTBI, MSDH hired additional outreach workers and expanded the use of direct observation of treatment for LTBI. MSDH staff targeted the use of direct observation to adult patients considered at high risk for treatment default, including persons who regularly used alcohol and those who had interrupted treatment previously. MSDH also is considering the use of incentives such as grocery coupons.

To identify barriers to LTBI treatment completion, MSDH in partnership with CDC, conducted three focus groups with TB-control staff, patients adherent to treatment for LTBI, and patients nonadherent to treatment for LTBI. Focus group participants suggested that TB-control staff persistence and flexibility helped adherence to treatment for LTBI, as did participation of sex and race-matched community outreach workers. Many participants cited community and family stigma as treatment barriers and identified a need for additional information about the importance of LTBI treatment.

To address patient concerns and misconceptions, MSDH has initiated ongoing individual counseling during treatment for LTBI. Furthermore, MSDH has engaged community leaders, churches, and civic organizations to disseminate TBrelated educational messages.

**Reported by:** T Chamblee, D Hartley, M Holcombe, MPPA, K Parham, P Upchurch, RM Webb, MD, Mississippi Dept of Health. AG Robillard, PhD, Rollins School of Public Health of Emory Univ, Atlanta, Georgia. L Diem, B Metchock, PhD, Div of AIDS, STD, and TB Laboratory Research, National Center for Infectious Diseases; N DeLuca, MA, PD McElroy, PhD, T Navin, MD, W Walton, MEd, Div of Tuberculosis Elimination, National Center for HIV, STD, and TB Prevention; Div of Applied Public Health Training, Epidemiology Program Office; PK Dewan, MD, EIS Officer, CDC.

**Editorial Note:** The findings in this investigation underscore the need to ensure completion of treatment for LTBI by infected contacts of TB patients. Integral components of successful contact investigations include patient interview, contact identification, and medical evaluation for active TB and LTBI (1), followed by successful initiation and completion of treatment for LTBI.

This investigation found that contact identification and evaluation were thorough and effective. For example, the median number of contacts identified and the proportion of contacts evaluated for LTBI were higher than those found in five other TB programs in a recent study of contact investigations (1,2). Despite these efforts, patients with untreated LTBI subsequently developed active TB and served as the source of ongoing TB transmission in the community. This contributed to the persistently high TB incidences in Chickasaw County.

The discovery of LTBI during contact investigation suggests recent infection. Because the risk for progression from infection to active disease is highest during the first 2 years following infection, priority should be given to treating infected contacts identified during contact investigations (3). Studies among populations at highest risk for loss to followup (e.g., injection-drug users, released jail inmates, and homeless persons) have shown that the use of incentives and direct observation of treatment substantially improves LTBI treatment completion rates (4–7). Among high-risk groups, these interventions might be cost-effective (8). Additional evaluation is needed to determine if patients outside these high-risk groups might benefit from incentives and direct observation of treatment. Qualitative evaluation of patient, staff, and system barriers might identify community-specific barriers to treatment initiation and completion. In Chickasaw County, focus group findings suggested that ongoing individual counseling for patients with LTBI and efforts to reduce stigma through community engagement might promote completion of treatment for LTBI. A follow-up evaluation might help determine the effectiveness of these interventions.

Completion of treatment for LTBI is the final component of an effective contact investigation. If the actual number of infected contacts substantially exceeds those identified and successfully screened, the treatment completion rate might overestimate the contact investigation effectiveness (2). To effectively interrupt *M. tuberculosis* transmission, successful implementation of all elements of contact investigation is necessary (8). Treating patients with LTBI increasingly challenges the response capacity of state and local TB-control programs (9). Although the decline of TB in blacks has paralleled the overall national trends, in 2001, incidence among non-Hispanic blacks remained 8.6 times higher than incidence among whites (10). TB-control programs serving black communities with high TB incidence should have the resources necessary to control TB and reduce this health disparity.

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# Update: Influenza Activity — United States, 2002–03 Season

This report summarizes influenza activity in the United States during September 29, 2002–March 8, 2003,\* and updates the previous summary (*I*). Influenza activity was mild in the United States overall but varied by region. Preliminary data collected through the four components of the CDC influenza surveillance system suggest that national influenza activity peaked during the week ending February 8, 2003 (*2*).

As of the week ending March 8, the World Health Organization (WHO) and National Respiratory and Enteric Virus Surveillance System collaborating laboratories in the United States tested 59,731 specimens for influenza viruses, of which 6,433 (10.8%) were positive. The percentage of specimens testing positive for influenza exceeded 10.0% during the week ending January 18 and appears to have peaked at 25.0% during the week ending February 8. During the three most recent influenza seasons (1999-00, 2000-01, and 2001-02), the peak percentage of specimens testing positive for influenza ranged from 23.9% to 30.9% (3; CDC, unpublished data, 2003). Of the 6,433 influenza viruses reported during the 2002-03 season, 2,916 (45.3%) were influenza type A and 3,517 (54.7%) were influenza type B viruses. However, during the weeks ending February 22-March 8, influenza A viruses have been reported more frequently (57.0%) than influenza B viruses. Of the 1,329 influenza type A viruses that have been subtyped, 1,089 (81.9%) are influenza A (H1)<sup> $\dagger$ </sup> viruses and 240 (18.1%) are influenza A (H3N2) viruses. For the season, influenza type A viruses have predominated in the New England, East North Central, Mountain, Pacific, and Mid-Atlantic regions, and influenza B viruses have predominated in the West South Central, South Atlantic, West North Central, and East South Central regions. However, during the weeks ending February 22-March 8, influenza A viruses were reported more frequently (71.1%) in the West South Central region than influenza B viruses.

CDC has characterized antigenically 266 influenza viruses submitted by U.S. laboratories since September 29, 2002: 65 influenza A (H1) viruses, 54 influenza A (H3N2) viruses, and 147 influenza B viruses. Of the 65 influenza A (H1) viruses, 45 (69.2%) had the N1 neuraminidase and 20 (30.8%) had the N2 neuraminidase. The hemagglutinin proteins of all 65 influenza A (H1) viruses were similar antigenically to the hemagglutinin of the vaccine strain A/New Caledonia/20/99 (H1N1). Of the 54 influenza A (H3N2) isolates that have been characterized, 47 (87.0%) were similar to A/Panama/2007/99, the H3N2 component of the 2002– 03 influenza vaccine, and seven (13.0%) showed reduced

<sup>\*</sup> As of March 14, 2003. Reporting is incomplete.

<sup>&</sup>lt;sup>†</sup> Includes both the A (H1N1) and A (H1N2) influenza virus subtypes.

titers to ferret antisera produced against A/Panama/2007/99. Of the 147 influenza B viruses that have been characterized, 146 (99.3%) belonged to the B/Victoria lineage and were similar antigenically to the vaccine strain B/Hong Kong/330/01, and one (0.7%) belonged to the B/Yamagata lineage and was similar to B/Sichuan/379/99.

During the weeks ending January 11–March 8, the weekly percentages of patient visits for influenza-like illness (ILI)<sup>§</sup> to approximately 750 sentinel providers in 49 states ranged from 1.5% to 3.1% and exceeded the national baseline of 1.9%<sup>¶</sup> for 7 consecutive weeks (the weeks ending January 25–March 8). The peak percentage of patient visits for ILI (3.1%) occurred during the weeks ending February 8 and 15. For the week ending March 8, the percentage of patient visits for ILI was 2.0%. During the 1999–2000, 2000–01, and 2001–02 influenza seasons, the peak percentages of patient visits for ILI ranged from 3.2% to 5.6% (*3*; CDC, unpublished data, 2003).

Since October 20, influenza activity\*\* has been reported by state and territorial epidemiologists as regional in at least one state each week. During the weeks ending December 7–21, widespread influenza activity was reported in Texas. Widespread activity was not reported again until the week ending January 18 and has been reported by two to 13 states each week since then. The greatest number of states reporting regional or widespread activity was 34 during the weeks ending February 8 and February 15. For the week ending March 8, nine states reported widespread influenza activity, and 23 reported regional influenza activity.

During the week ending March 8, of the deaths in the 122 Cities Mortality Reporting System, 8% were attributed to pneumonia and influenza (P&I). This percentage was below the epidemic threshold<sup>††</sup> of 8.3% for that week. The percentage of P&I deaths has been below the epidemic threshold each week during September 29–March 8.

**Reported by:** L Brammer, MPH, A Postema, MPH, S Harper, MD, A Klimov, PhD, N Cox, PhD, WHO Collaborating Center for Surveillance, Epidemiology and Control of Influenza, Div of Viral and *Rickettsial Diseases, National Center for Infectious Diseases; P Terebuh, MD, EIS Officer, CDC.* 

**Editorial Note:** Although overall influenza activity has been mild this season, numerous outbreaks have been reported among school children, some leading to school closures, and severe illnesses and deaths associated with influenza have been reported in children. These severe illnesses and deaths were not associated with a single influenza virus type; both influenza A (H1) and influenza B viruses were identified.

CDC contributes to the international surveillance for influenza through the World Health Organization's (WHO) Global Influenza Programme as the WHO Collaborating Center for Surveillance, Epidemiology and Control of Influenza. In February, the Hong Kong Department of Health (DOH) confirmed influenza A (H5N1) infection in two patients from a single family of Hong Kong residents who had traveled recently to Fujian Province on the Chinese mainland. The first case occurred in a boy aged 9 years who was hospitalized in Hong Kong and recovered. The second case occurred in the boy's father, who died in a Hong Kong hospital on February 16. Additional family members had respiratory symptoms, and the boy's sister aged 8 years died while the family was in China. The Hong Kong DOH has intensified its influenza surveillance, and no additional human infections with A (H5N1) virus have been identified. No indication exists that the influenza A (H5N1) virus has spread outside Asia. On February 26, CDC issued recommendations to state health departments for enhanced influenza surveillance in the United States. CDC is in communication with WHO about these cases of influenza A (H5N1) and will continue to monitor the situation.

Influenza surveillance reports for the United States are published weekly during October–May and are available at http:/ /www.cdc.gov/ncidod/diseases/flu/weekly.htm or through CDC's voice (telephone, 888-232-3228) and fax (telephone, 888-232-3299, document number 361100) information systems.

### Acknowledgments

This report is based on data contributed by participating state and territorial epidemiologists and state public health laboratory directors, WHO collaborating laboratories, National Respiratory and Enteric Virus Surveillance System collaborating laboratories, U.S. Influenza Sentinel Provider Surveillance System, and Div of Public Health Surveillance and Informatics, Epidemiology Program Office, CDC.

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<sup>§</sup> Temperature of  $\geq 100.0^{\circ}$  F ( $\geq 37.8^{\circ}$  C) and either cough or sore throat in the absence of a known cause other than influenza.

<sup>&</sup>lt;sup>9</sup> The national baseline was calculated as the mean percentage of visits for ILI during noninfluenza weeks plus two standard deviations. Wide variability in regional data precludes calculating region-specific baselines and makes it inappropriate to apply the national baseline to regional data.

<sup>\*\*\*</sup> Levels of activity are 1) no activity, 2) sporadic—sporadically occurring ILI or laboratory-confirmed influenza with no outbreaks detected, 3) regional outbreaks of ILI or laboratory-confirmed influenza in counties with a combined population of <50% of a state's population, and 4) widespread—outbreaks of ILI or laboratory-confirmed influenza in counties with a combined population of ≥50% of a state's population.

<sup>&</sup>lt;sup>††</sup> The expected seasonal baseline proportion of P&I deaths reported by the 122 Cities Mortality Reporting System is projected by using a robust regression procedure in which a periodic regression model is applied to the observed percentage of deaths from P&I during the previous 5 years. The epidemic threshold is 1.654 standard deviations above the seasonal baseline (3).

# Outbreak of Severe Acute Respiratory Syndrome —Worldwide, 2003

Since late February 2003, CDC has been supporting the World Health Organization (WHO) in the investigation of a multicountry outbreak of atypical pneumonia of unknown etiology. The illness is being referred to as severe acute respiratory syndrome (SARS). This report describes the scope of the outbreak, preliminary case definition, and interim infection control guidance for the United States.

On February 11, the Chinese Ministry of Health notified WHO that 305 cases of acute respiratory syndrome of unknown etiology had occurred in six municipalities in Guangdong province in southern China during November 16, 2002–February 9, 2003. The disease was characterized by transmission to health-care workers and household contacts; five deaths were reported (1). On February 26, a man aged 47 years who had traveled in mainland China and Hong Kong became ill with a respiratory illness and was hospitalized shortly after arriving in Hanoi, Vietnam. Health-care providers at the hospital in Hanoi subsequently developed a similar illness. The patient died on March 13 after transfer to an isolation facility in Hong Kong. During late February, an outbreak of a similar respiratory illness was reported in Hong Kong among workers at another hospital; this cluster was linked to a patient who had traveled previously to southern China. On March 12, WHO issued a global alert about the outbreak and instituted worldwide surveillance.

As of March 19, WHO has received reports of 264 patients from 11 countries with suspected and probable\* SARS (Table). Areas with reported local transmission include Hong Kong and Guangdong province, China; Hanoi, Vietnam; and

\* Suspected cases (Box) with either a) radiographic evidence of pneumonia or respiratory distress syndrome or b) evidence of unexplained respiratory distress syndrome by autopsy are designated probable cases by the WHO case definition.

TABLE. Number of suspected and probable cases and deaths from severe acute respiratory syndrome, by location — Worldwide, 2003\*

	No.	Deaths			
Location	cases	No.	(%)		
Hong Kong	150	5	(3)		
Vietnam	56	2	(4)		
Singapore	31	0	_		
Canada	8	2	(25)		
Taiwan	3	0			
Germany	1	0	_		
Thailand	1	0	_		
Slovenia	1	0	_		
United Kingdom	1	0	_		
United States	11	0	_		
Spain	1	0	_		
Total	264	9	(3)		

\* As of March 19, 2003.

Source: World Health Organization.

Singapore. More limited transmission has been reported in Taipei, Taiwan, and Toronto, Canada. The initial cases reported in Singapore, Taiwan, and Toronto were among persons who all had traveled to China.

On March 15, after issuing a preliminary case definition for suspected cases (Box), CDC initiated enhanced domestic surveillance for SARS. CDC also issued a travel advisory suggesting that persons planning nonessential travel to Hong Kong, Guangdong, or Hanoi consider postponing their travel (http://www.cdc.gov/travel/other/acute\_resp\_syn\_multi.htm). On March 16, CDC began advising passengers arriving on direct flights from these three locations to seek medical attention if they have symptoms of febrile respiratory illness. As of March 18, approximately 12,000 advisory notices had been distributed to airline passengers. In addition, surveillance is being heightened for suspected cases of SARS among arriving passengers. As of March 19, a total of 11 suspected cases of SARS in the United States are under investigation by CDC and state health authorities.

Among patients reported worldwide as of March 19, the disease has been characterized by rapid onset of high fever, myalgia, chills, rigor, and sore throat, followed by shortness of breath, cough, and radiographic evidence of pneumonia. The incubation period has generally been 3–5 days (range: 2–7 days). Laboratory findings have included thrombocytopenia and leukopenia. Many patients have had respiratory distress or severe pneumonia requiring hospitalization, and several have required mechanical ventilation. Of the 264 suspected and probable cases reported by WHO, nine (3%) persons have died. In addition, secondary attack rates of >50% have been observed among health-care workers caring for patients with

# BOX. CDC preliminary case definition for severe acute respiratory syndrome (SARS)\*

### Suspected case

Respiratory illness of unknown etiology with onset since February 1, 2003, and the following criteria:

- Documented temperature >100.4°F (>38.0°C)
- One or more symptoms of respiratory illness (e.g., cough, shortness of breath, difficulty breathing, or radiographic findings of pneumonia or acute respiratory distress syndrome)
- Close contact<sup>†</sup> within 10 days of onset of symptoms with a person under investigation for or suspected of having SARS or travel within 10 days of onset of symptoms to an area with documented transmission of SARS as defined by the World Health Organization (WHO).

\* As of March 19, 2003.

<sup>†</sup> Defined as having cared for, having lived with, or having had direct contact with respiratory secretions and/or body fluids of a person suspected of having SARS.

SARS in both Hong Kong and Hanoi. Additional clinical and epidemiologic details are available from WHO at http://www.who.int/wer/pdf/2003/wer7812.pdf.

In the United States, initial diagnostic testing for persons with suspected SARS should include chest radiograph, pulse oximetry, blood cultures, sputum Gram stain and culture, and testing for viral respiratory pathogens, particularly influenza types A and B and respiratory syncytial virus. Clinicians should save any available clinical specimens (e.g., respiratory samples, blood, serum, tissue, and biopsies) for additional testing until diagnosis is confirmed. Instructions for specimen collection are available from CDC at http://www.cdc.gov/ncidod/ sars/pdf/specimencollection-sars.pdf. Specimens should be forwarded to CDC by state health departments after consultation with the SARS State Support Team at the CDC Emergency Operations Center.

Clinicians evaluating suspected cases should use standard precautions (e.g., hand hygiene) together with airborne (e.g., N-95 respirator) and contact (e.g., gowns and gloves) precautions (http://www.cdc.gov/ncidod/sars/infectioncontrol.htm). Until the mode of transmission has been defined more precisely, eye protection also should be worn for all patient contact. As more clinical and epidemiologic information becomes available, interim recommendations will be updated.

# **Reported by:** CDC SARS Investigative Team; AT Fleischauer, PhD, EIS Officer, CDC.

Editorial Note: During 2000, approximately 83 million nonresident passengers arrived in China, 13 million in Hong Kong, and 2 million in Vietnam, and approximately 460,000 residents of China, Hong Kong, and Vietnam traveled to the United States (2). During January 1, 1997–March 18, 2003, an estimated 5% of ill tourists worldwide who sought posttravel care from one of 35 worldwide GeoSentinel travel clinics had pneumonia (International Society of Tropical Medicine, unpublished data, 2003). In the United States, approximately 500,000 persons with pneumonia require hospitalization each year; in approximately half of these cases, no etiologic agent is identified despite intensive investigation (3,4). On the basis of these data and the broad and necessarily nonspecific case definition, cases meeting the criteria for SARS are anticipated worldwide and in the United States. However, most of the anticipated cases are expected to be unrelated to the current outbreak.

Electron microscopic identification of paramxyovirus-like particles has been reported from Germany and Hong Kong (5). This family of viruses includes measles, mumps, human parainfluenza viruses, and respiratory syncytial virus in addition to the recently identified henipaviruses and metapneumovirus. Additional testing is under way to confirm a definitive etiology. Identification of the causative agent MMWR now publishes important health information, like reports related to terrorism and other health emergencies, as often as required to protect the public health. MMWR Dispatch provides the latest and most accurate information regarding public health investigations, surveillance, prevention and treatment guidelines, and other clinical information. Visit cdc.gov/mmwr, and sign up to receive MMWR Dispatch by e-mail. In addition to MMWR Dispatch, you'll also receive MMWR Weekly, MMWR Recommendations and Reports, and MMWR Surveillance Summaries. As always, MMWR is also available in print. Anytime MMWR Dispatch is published online, it also appears in the next printed MMWR issue. MMWR Dispatch. Another way MMWR helps you stay current on important public health, clinical, and scientific topics.

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should lead to specific diagnostic tests, simplify surveillance, and focus treatment guidelines and infection control guidance.

Clinicians and public health officials who suspect cases of SARS are requested to report such cases to their state health departments. CDC requests that reports of suspect cases from state health departments, international airlines, cruise ships, or cargo carriers be directed to the SARS Investigative Team at the CDC Emergency Operations Center, telephone 770-488-7100. Additional information about SARS (e.g., infection control guidance and procedures for reporting suspected cases) is available at http://www.cdc.gov/ncidod/sars. Global case counts are available at http://www.who.int.

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# Public Health Dispatch

# Absence of Transmission of the d9 Measles Virus — Region of the Americas, November 2002–March 2003

In 1994, countries of the Region of the Americas set a goal of interrupting indigenous measles transmission (1), and the regional plan of action for achieving this goal was begun in 1996. As of March 16, 2003, the Region of the Americas has been free for 17 weeks from known circulation of the d9\* measles virus, the strain responsible for the only large outbreak of measles in the region during 2002 (Figure).

The measles vaccination strategy recommended by the Pan American Health Organization (PAHO) includes a one-time, national "catch-up" campaign for all children aged 1–14 years, routine "keep-up" vaccination for infants aged 1 year, and national "follow-up" campaigns every 3–4 years for all children aged 1–4 years, regardless of measles vaccination history (2). Other key components of the strategy include rapid houseto-house monitoring for local validation of vaccination activities and active epidemiologic and virologic surveillance (3).

During 1997-2001, reported confirmed measles cases in the Region of the Americas decreased 99%, from 53,683 in 1997 to 541 in 2001 (4-6). During September 2001, transmission of the D6 measles virus genotype, which had circulated in the region since 1995 and had caused large outbreaks in Argentina, Bolivia, Brazil, the Dominican Republic, and Haiti, was finally interrupted. However, also during September 2001, the recently discovered measles genotype d9 was introduced into Venezuela by a Venezuelan traveler returning from Europe and resulted in an outbreak that spread to neighboring Colombia during January 2002. This outbreak was attributable to low routine vaccination coverage in Venezuela (7). Because Colombia, unlike Venezuela, did not have a large cohort of susceptible children, the outbreak was controlled easily. Following nationwide vaccination efforts by both countries, transmission of the d9 measles virus has been interrupted. The last reported case occurred in Carabobo, Venezuela, on November 16, 2002. During the outbreak, 2,501 cases were reported in Venezuela and 140 in Colombia. As of March 16, no circulation of the d9 measles virus has been reported anywhere in the region for the preceding 17 weeks. During this same 17-week period, 1,066 suspected cases of measles were reported, of which 846 (79%) were measles IgM-antibody negative and discarded, 216 (20%) are still under investigation but do not appear to be linked to a measles outbreak; four (<1%) were confirmed, one from Canada and three from the United States. These confirmed cases are presumed to be associated with importations; virus genotyping data are pending.

Progress toward interruption of indigenous measles transmission in the Region of the Americas reflects sustained high political commitment by member countries and full implementation of PAHO's recommended measles-control strategies and suggests that global measles eradication is achievable. However, important challenges remain. Measles is still endemic in other regions, and sporadic cases continue to occur in the Region of the Americas because of importation. The majority of countries in the region have not achieved and sustained routine measles vaccination coverage rates of  $\geq$ 95% in all municipalities. Because poor, underserved neighborhoods in large cities that attract migrants of rural origin are particularly at risk for measles outbreaks when the virus is reintroduced, persons living in these areas are targeted for supplementary vaccination activities.

**Reported by:** *H Izurieta, MD, V Dietz, MD, P Carrasco, MPH, M Landaverde, MD, C Castillo, MD, Immunization Unit; M Brana, MPP, G Tambini, MD, Family and Community Health Area, Pan American Health Organization, Washington, DC. W Bellini, PhD, J Rota, MPH, P Rota, PhD, Div of Viral and Rickettsial Diseases,* 

<sup>\*</sup>The lowercase letter is used for newly identified measles genotypes, pending an update of measles genotypes in the World Health Organization Weekly Epidemiological Record.

### FIGURE. Number of measles cases\*, by week and year of rash onset — Region of the Americas, January 2001–March 2003<sup>†</sup>



\* n = 3,095.

 $\frac{1}{8}$  As of March 16, 2003.

<sup>9</sup> D6 measles virus genotype isolated.

<sup>1</sup> d9 measles virus genotype isolated. The lowercase letter is used for newly identified measles genotypes, pending an update of measles genotypes in the World Health Organization Weekly Epidemiological Record.

\*\* Other measles genotypes isolated.

National Center for Infectious Diseases; F Lievano, MD, P Strebel, MD, Global Immunization Div, National Immunization Program, CDC.

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# Notice to Readers

# Smallpox Vaccine Adverse Events Among Civilians — United States, 2003

During January 24–March 14, smallpox vaccine was administered to 21,698 civilian health-care and public health workers in 52 jurisdictions. Surveillance for adverse events during the civilian smallpox vaccination program is ongoing. The number of weekly smallpox vaccine adverse events reported among civilian vaccinees and civilian contacts of civilian and military vaccinees that are received by CDC from the Vaccine Adverse Event Reporting System is posted every Thursday at http://www.cdc.gov/od/oc/media/smpxrprt.htm. Surveillance reports including brief clinical descriptions of noteworthy cases are published regularly in *MMWR*.

### CASES CURRENT DISEASE DECREASE **INCREASE** 4 WEEKS Hepatitis A, Acute 296 Hepatitis B, Acute 315 Hepatitis C, Acute 64

FIGURE I. Selected notifiable disease reports, United States, comparison of provisional 4-week totals ending March 15, 2003, with historical data



\* No measles and rubella cases were reported for the current 4-week period yielding a ratio for week 11 of zero (0). † Ratio of current 4-week total to mean of 15 4-week totals (from previous, comparable, and subsequent 4-week periods for the past 5 years). The point where the hatched area begins

is based on the mean and two standard deviations of these 4-week totals.

						. /
		Cum. 2003	Cum. 2002		Cum. 2003	Cum. 2002
Anthrax		-	1	Hansen disease (leprosy) <sup>†</sup>	10	12
Botulism:		-	-	Hantavirus pulmonary syndrome <sup>†</sup>	4	-
	foodborne	2	4	Hemolytic uremic syndrome, postdiarrheal <sup>†</sup>	20	23
	infant	12	15	HIV infection, pediatric <sup>t§</sup>	49	28
	other (wound & unspecified)	4	5	Measles, total	3¶	5**
Brucellosis <sup>†</sup>	,	10	17	Mumps	37	62
Chancroid		8	16	Plague	-	-
Cholera		-	1	Poliomyelitis, paralytic	-	-
Cyclosporiasi	s†	8	21	Psittacosis <sup>†</sup>	2	11
Diphtheria		-	-	Q fever <sup>†</sup>	8	6
Ehrlichiosis:		-	-	Rabies, human	-	-
	human granulocytic (HGE) <sup>†</sup>	7	11	Rubella	-	1
	human monocytic (HME) <sup>+</sup>	6	2	Rubella, congenital	-	1
	other and unspecified	-	-	Streptococcal toxic-shock syndrome <sup>†</sup>	27	23
Encephalitis/I	Meningitis:	-	-	Tetanus	1	4
	California serogroup viral <sup>†</sup>	-	-	Toxic-shock syndrome	17	30
	eastern equine <sup>†</sup>	-	-	Trichinosis	1	3
	Powassan <sup>†</sup>	-	-	Tularemia <sup>+</sup>	4	4
	St. Louis <sup>†</sup>	-	-	Yellow fever	-	1
	western equine <sup>†</sup>	-	-			

TABLE I. Summary of provisional cases of selected notifiable diseases, United States, cumulative, week ending March 15, 2003 (11th Week)\*

-: No reported cases.

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

Not notifiable in all states.

<sup>§</sup> Updated monthly from reports to the Division of HIV/AIDS Prevention — Surveillance and Epidemiology, National Center for HIV, STD, and TB Prevention (NCHSTP). Last update February 23, 2003.

1 Of three cases reported, two were indigenous and one was imported from another country.

\*\* Of five cases reported, four were indigenous and one was imported from another country.

	AIE	DS	Chla	mydia†	Coccidio	domycosis	Cryptosp	oridiosis	Encephaliti Wes	s/Meningitis st Nile
Reporting area	Cum. 2003 <sup>§</sup>	Cum. 2002	Cum. 2003	Cum. 2002	Cum. 2003	Cum. 2002	Cum. 2003	Cum. 2002	Cum. 2003	Cum. 2002
UNITED STATES	6.085	6.339	140.338	163.833	705	841	235	447		
NEW ENGLAND	209	205	4,981	5,562	-	-	17	15	-	-
Maine	-	1	163	275	Ν	Ν	1	-	-	-
Vt.	3 5	4	282	151	-	-	3	3	-	-
Mass.	49	132	1,808	2,171	-	-	8	5	-	-
R.I. Conn.	131	43	1.913	2.051	N	N	3	3	-	-
MID. ATLANTIC	1.622	1.364	11.454	18.078	-	-	23	56	-	-
Upstate N.Y.	73	70	3,270	2,381	Ν	N	11	8	-	-
N.Y. City N.J	962 179	857 257	761 2 109	6,294 2 964	-	-	4	23	-	-
Pa.	408	180	5,314	6,439	Ν	N	6	22	-	-
E.N. CENTRAL	617	664	24,817	29,645	1	4	55	131	-	-
Ohio Ind	99 95	152 84	6,649 3 394	7,619	- N	- N	12	35 11	-	-
III.	239	333	5,481	8,371	-	-	5	24	-	-
Mich.	156	66	6,219	6,575	1	4	15	22	-	-
	28	29	3,074	3,521	-	-	19	39	-	-
Minn.	115	105	9,012	2,210	N	N	29 14	34 10	-	-
lowa	18	22	953	710	Ν	N	5	4	-	-
Mo. N Dak	/1	34	3,521	2,963	- N	N	2	9	-	-
S. Dak.	3	1	509	451	-	-	6	2	-	-
Nebr. Kans	1	13 16	792 1 514	782 1 588	- N	N	2	5	-	-
S ATLANTIC	1 157	1 963	30 795	29.460	1	-	58	88	_	-
Del.	27	45	643	580	Ň	Ν	1	1	-	-
Md.	47	250 87	3,357	3,108	1	-	7	3	-	-
Va.	197	155	3,232	3,156	-	-	5	1	-	-
W.Va.	3	11	520	488	N	N	- 7	1	-	-
S.C.	132	134	2,746	2,980	-	-	1	1	-	-
Ga.	218	472	6,556	6,193	-	-	25	46	-	-
FIA.	294	073	8,044	0,301	IN	IN	12	23	-	-
E.S. CENTRAL Kv.	237	258 31	10,953	11,334	N	N	13	20	-	-
Ténn.	119	115	3,709	3,608	Ν	N	5	6	-	-
Ala. Miss	45 65	57 55	3,039 2 391	3,554 2,262	- N	- N	6	12 1	-	-
W.S. CENTRAL	804	726	20.084	22.579	-	-	2	8	-	-
Ark.	23	35	1,267	1,565		-	1	2	-	-
La. Okla	49 40	182	3,338	3,941 1 867	N	N	- 1	1	-	-
Tex.	692	476	13,917	15,206	-	-	-	4	-	-
MOUNTAIN	293	194	8,672	9,947	570	565	16	20	-	-
Mont. Idaho	6	4	410 507	438	N	N	1	- 5	-	-
Wyo.	1	2	222	180	-	-	-	1	-	-
Colo.	56	34	1,783	2,921	N	N	3	5	-	-
Ariz.	145	78	3,200	2,844	563	553	2	4	-	-
Utah	38	13	712	254	1	3	4	2	-	-
	20	52	1,020	1,201	100	070	2	2	-	-
Wash.	68	860 82	3.124	28,287	133 N	272 N	- 22	75 15	-	-
Oreg.	46	90	1,496	1,344	-	-	5	7	-	-
∪alif. Alaska	908	675 2	13,417 561	22,490 699	133	2/2	1/	53	-	-
Hawaii	3	11	972	868	-	-	-	-	-	-
Guam	_1	-	-	-	-	-	-	-	-	-
Р.К. V.I.	58 1	165 45	218	6 43	N -	N -	N -	N -	-	-
Amer. Samoa	Ú	Ŭ	U	Ŭ	U	U	U	U	U	U
C.N.M.I.	2	U	-	U	-	U	-	U	-	U

TABLE II. Provisional cases of selected notifiable diseases, United States, weeks ending March 15, 2003, and March 16, 2002

N: Not notifiable. U: Unavailable. -: No reported cases. C.N.M.I.: Commonwealth of Northern Mariana Islands. \* Incidence data for reporting years 2002 and 2003 are provisional and cumulative (year-to-date). \* Chlamydia refers to genital infections caused by *C. trachomatis.* \$ Updated monthly from reports to the Division of HIV/AIDS Prevention — Surveillance and Epidemiology, National Center for HIV, STD, and TB Prevention. Last update February 23, 2003.

		Escher	<i>richia coli</i> , Ente	rohemorrhagio						
			Shiga toxi	in positive,	Shiga toxi	n positive,				
	015	57:H7	serogroup	o non-0157	not sero	grouped	Gia	rdiasis	Gon	orrhea
Reporting area	Cum. 2003	Cum. 2002	Cum. 2003	Cum. 2002	Cum. 2003	Cum. 2002	Cum. 2003	Cum. 2002	Cum. 2003	Cum. 2002
UNITED STATES	175	243	17	11	7	1	2,419	3,194	56,767	71,685
NEW ENGLAND	10	17	2	1	-	-	145	327	1,303	1,706
Maine	-	-	-	-	-	-	18	35	6	14
N.H.	2	1	-	-	-	-	11	13	22	28
vi. Mass	4	9	-	- 1	-	-	83	185	∠1 428	24 744
R.I.	-	2	-	-	-	-	18	18	198	190
Conn.	4	5	2	-	-	-	1	54	628	706
MID. ATLANTIC	10	17	1	-	2	-	402	654	4,806	8,331
Upstate N.Y.	5	12	1	-	2	-	142	170	1,315	1,343
N.Y. City	2	1	-	-	-	-	196	202	345	2,596
N.J. Pa	N	4 N	-	-	-	-	33	176	1,155	2 758
	41	00	0		0		400	606	10,100	15,000
Ohio	41	83 14	3	-	2	-	422	184	4 094	4 234
Ind.	6	7	-	-	-	-	-	-	1,329	1,580
III.	5	24	-	-	-	-	80	185	2,646	4,741
Mich.	8	17	-	-	-	-	134	168	2,992	3,286
WIS.	9	21	-	-	-	-	30	99	1,108	1,189
W.N. CENTRAL	30	34	3	3	2	-	271	278	3,139	3,760
iviinn. Iowa	11	8	3	3	-	-	83 40	83 53	401	67 I 215
Mo.	8	9	Ν	Ν	Ν	Ν	72	71	1,730	1,794
N. Dak.	1	-	-	-	1	-	8	3	5	16
S. Dak.	2	1	-	-	-	-	10	13	25	52
Nebr. Kans	4	5	-	-	- 1	-	34	26	233	296 716
	1	0	0	-	,		440	20	15 015	17 510
	24	33	3	5	-	-	442	489	15,815 287	17,510
Md.	-	-	-	-	-	-	22	19	1.687	1.764
D.C.	-	-	-	-	-	-	-	11	551	612
Va.	2	3	-	-	-	-	39	16	1,598	2,071
W.Va.	-	-	-	-	-	-	5 N	4 N	168 2 871	191 2 944
S.C.	-	-	-	-	-	-	10	3	1.566	1.699
Ga.	8	18	-	4	-	-	171	116	3,307	3,358
Fla.	8	5	3	1	-	-	185	310	3,780	4,506
E.S. CENTRAL	10	4	-	-	-	-	55	59	5,520	6,398
Ky.	1	-	-	-	-	-	N	N	753	741
Ienn. Ala	5	3	-	-	-	-	22	22	1,690	2,030
Miss.	1	1	-	-	-	-	-	-	1.202	1.349
WS CENTRAL	1	4	_	_	_	1	12	17	8 / 83	10 305
Ark.	1	-	-	-	-	-	27	17	754	975
La.	-	-	-	-	-	-	3	-	2,158	2,528
Okla.	-	-	-	-	-	-	12	-	628	846
Iex.	-	4	-	-	-	1	-	-	4,943	5,956
MOUNTAIN	22	17	4	1	1	-	256	252	1,987	2,341
Mont.	-	3	- 2	-	-	-	5	14	29	26
Wvo.	-	-	-	1	-	_	3	2	11	14
Colo.	5	2	1	-	1	-	71	93	523	837
N.Mex.	-	2	1	-	-	-	11	26	164	311
Ariz. Litab	8	3	N	N	N	N	55 56	42	890	/28
Nev.	-	3	-	-	-	-	25	31	290	384
PACIFIC	97	34	1	1	_	-	384	482	3 545	6 304
Wash.	11	5	-	-	-	-	33	42	572	626
Oreg.	4	7	1	1	-	-	67	99	193	190
Calif.	12	21	-	-	-	-	250	295	2,496	5,232
Alaska Hawaii	-	- 1	-	-	-	-	16 18	17 20	8/ 107	136
	-	1	-	-	-	-	10	23	137	120
Guam PR	N	N	-	-	-	-	- 0	-	-	-
V.I.	-	-	-	-	-	-	-	-	-	16
Amer. Samoa	U	U	U	U	U	U	U	U	U	Ŭ
CNMI	-	U	-	U	-	U	-	U	-	U

 TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending March 15, 2003, and March 16, 2002 (11th Week)\*

N: Not notifiable. U: Unavailable. - : No reported cases. \* Incidence data for reporting years 2002 and 2003 are provisional and cumulative (year-to-date).

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# **MMWR**

(Thur week)											
				Haemophilus	<i>influenzae</i> , inv	asive			Нер	atitis	
	All	ages	Age <5 years							(viral, acute), by type	
	All se	rotypes	Serot	уре В	Non-ser	otype B	Unknown	serotype		A	
Reporting area	Cum. 2003	Cum. 2002	Cum. 2003	Cum. 2002	Cum. 2003	Cum. 2002	Cum. 2003	Cum. 2002	Cum. 2003	Cum. 2002	
UNITED STATES	282	400	2	4	39	73	9	4	902	2.077	
NEW ENGLAND	22	35	-	-	1	5	1	-	27	87	
Maine		1	-	-	-	-	-	-	1	3	
N.H.	4	4	-	-	-	-	-	-	3	3	
Mass.	8	18	-	-	1	3	- 1	-	17	46	
R.I.	-	-	-	-	-	-	-	-	2	4	
Conn.	5	10	-	-	-	2	-	-	3	31	
MID. ATLANTIC	45	72	-	1	7	10	2	-	115	226	
Upstate N.Y. N Y City	23	32	-	-	6 1	4	-	-	68	34 99	
N.J.	8	19	-	-	-	2	-	-	15	40	
Pa.	8	4	-	-	-	-	1	-	11	53	
E.N. CENTRAL	23	63	1	1	5	9	-	-	111	257	
Ohio	13	25	-	-	4	3	-	-	31	64 10	
III.	-	29	-	-	-	5	-	-	25	99	
Mich.	4	3	1	1	-	-	-	-	41	52	
Wis.	-	-	-	-	-	-	-	-	8	32	
W.N. CENTRAL	20	11	-	-	3	1	2	2	34	79	
Minn.	8	8	-	-	3	1	-	1	4	5	
No.	- 7	2	-	-	-	-	2	1	6	19	
N. Dak.	-	-	-	-	-	-	-	-	-	-	
S.Dak.	1	-	-	-	-	-	-	-	-	2	
Nebr. Kans	-	-	-	-	-	-	-	-	4	4	
	+	01			-	-			9	52	
5. ATLANTIC Del	63	91	-	-	4	20	-	-	283	545	
Md.	15	18	-	-	1	-	-	-	39	77	
D.C.	-	-	-	-	-	-	-	-	-	20	
Va.	2	8	-	-	-	2	-	-	2	11	
VV. Va. N C	2	10	-	-	-	- 1	-	-	15	75	
S.C.	1	3	-	-	-	1	-	-	10	12	
Ga.	15	28	-	-	2	10	-	-	112	68	
Fla.	25	23	-	-	1	6	-	-	100	272	
E.S. CENTRAL	24	18	-	1	3	4	-	-	31	78	
ry. Tenn	∠ 10	8	-	-	2	2	-	-	13	34	
Ala.	11	5	-	1	1	2	-	-	9	7	
Miss.	1	4	-	-	-	-	-	-	3	21	
W.S. CENTRAL	17	18	-	1	1	4	-	-	34	174	
Ark.	3	1	-	-	-	-	-	-	-	13	
La. Okla	4	15	-	-	- 1	- 4	-	-	6	10	
Tex.	-	1	-	1	-	-	-	-	25	145	
MOUNTAIN	50	48	1	-	10	9	3	1	80	152	
Mont.	-	-	-	-	-	-	-	-	-	5	
Idaho	-	1	-	-	-	-	-	-	-	10	
vvyo. Colo	-	11	-	-	- 2	- 1	-	-	- 7	2	
N. Mex.	5	10	-	-	1	4	2	-	5	4	
Ariz.	29	17	1	-	5	3	-	-	54	80	
Utah	5	5	-	-	2	-	- 1	-	5	12	
	2	5	-	-	-	1	1	1	3	10	
PACIFIC Wash	18	44	-	-	5	11	1	1	187	479	
Oreg.	11	24	-	-	2	4	-	-	20	30	
Calif.	1	10	-	-	1	6	-	1	150	413	
Alaska	-	1	-	-	-	1	-	-	3	5	
	3	9	-	-	-	-	-	-	2	10	
Guam	-	-	-	-	-	-	-	-	-	-	
V.I.	-	-	-	-	-	-	-	-	-	-	
Amer. Samoa	U	U	U	U	U	U	U	U	U	U	
C NEM L		11		11		11		11		11	

TABLE II. (*Continued*) Provisional cases of selected notifiable diseases, United States, weeks ending March 15, 2003, and March 16, 2002 (11th Week)\*

N: Not notifiable. U: Unavailable. -: No reported cases. \* Incidence data for reporting years 2002 and 2003 are provisional and cumulative (year-to-date).

(THIT WEEK)	Н	epatitis (viral	, acute), by typ	be					1	
		B	<u> </u>	;	Legio	nellosis	Lister	riosis	Lyme o	disease
Reporting area	Cum. 2003	Cum. 2002	Cum. 2003	Cum. 2002	Cum. 2003	Cum. 2002	Cum. 2003	Cum. 2002	Cum. 2003	Cum. 2002
UNITED STATES	1,051	1,252	263	392	156	150	58	76	701	1,018
NEW ENGLAND Maine	35	45 1	-	9	8	6	5	8 1	9	96
N.H. Vt.	2	2	-	- 4	- 1	-	-	2	3	1
Mass.	30	28	-	5	2	3	2	3	1	77
K.I. Conn	- 2	- 11	-	-	1 4	- 2	- 2	- 2	4	3
MID ATI ANTIC	180	283	13	19	17	36	8	9	566	762
Upstate N.Y.	15	21	6	12	10	7	2	3	351	466
N.Y. City	59	158	-	-	3	1	3	2	-	31
Pa.	98	62 42	7	4	2	18	2 1	4	150	146
E.N. CENTRAL	97	110	27	26	42	52	5	13	9	30
Ohio	34	18	4	-	22	28	2	6	6	4
Ind. III	-	4 12	- 2	-	2	4	1	- 1	3	2
Mich.	51	68	21	20	18	14	2	3	-	-
Wis.	12	8	-	-	-	6	-	3	U	24
W.N. CENTRAL	53	49	49	166	4	7	2	2	17	8
lowa	4	6	-	1	1	-	-	-	2	3
Mo.	31	26	46	162	1	2	-	1	1	3
N. Dak. S. Dak.	- 1	-	-	-	-	- 1	-	1	-	-
Nebr.	10	9	2	3	-	3	1	-	-	-
Kans.	3	7	-	-	1	-	-	-	1	-
S. ATLANTIC	367	360 4	53	23	57	19	20	9	74 10	82 13
Md.	24	35	4	3	13	6	4	1	46	58
D.C.	-	2	-	-	-	-	-	-	-	3
va. W.Va.	1	29 6	-	-	2 N	N N	-	-	-	-
N.C.	31	40	3	3	5	3	5	1	9	5
5.0. Ga	3 164	137	13	2	- 7	2	4	2	- 2	-
Fla.	137	100	30	11	30	-	6	1	7	2
E.S. CENTRAL	63	76	19	52	3	4	4	3	2	3
Ky. Tenn	13 16	8 33	2	1	- 2	2	-	- 2	- 2	1
Ala.	17	18	2	2	-	2	3	1	-	-
Miss.	17	17	14	40	1	-	1	-	-	2
W.S. CENTRAL	29	65	60	71	6	4	1	8	2	13
La.	17	11	11	3	-	1	-	-	2	1
Okla.	4	1	-	-	2	-	1	3	-	-
iex.	/	23	49	63	4	3	-	5	-	12
MOUNTAIN Mont.	118	84	13	-	11	6	10	8	4-	2
Idaho	-	-	-	-	1	-	-	-	1	-
Wyo. Colo	1 17	3 16	- 8	2	1	- 2	-	- 2	-	-
N. Mex.	3	16	-	-	-	1	-	-	-	1
Ariz. Utab	68	34	3	-	3	- 2	4	4	- 2	1
Nev.	17	8	1	4	2	-	-	-	1	-
PACIFIC	109	180	29	19	8	16	3	16	18	22
Wash.	10	9	1	2	1	- N I	1	1	-	-
Cieg. Calif.	31 65	135	3 5	10	N 7	1N 16	1	14	5 13	21
Alaska	2	3	19	-	-	-	-	-	-	-
Hawaii	1	2	1	-	-	-	-	-	N	N
Guam PR	-	-	-	-	-	-	-	-	- N	- N
V.I.	-	-	-	-	-	-	-	-	-	-
Amer. Samoa	U	U	U	U	U	U	U	U	U	U

TABLE II. (*Continued*) Provisional cases of selected notifiable diseases, United States, weeks ending March 15, 2003, and March 16, 2002 (11th Week)\*

N: Not notifiable. U: Unavailable. -: No reported cases. \* Incidence data for reporting years 2002 and 2003 are provisional and cumulative (year-to-date).

(11th Week)*			Mening	ococcal					Rocky Mountain	
	Ma	laria Cum	dise	ease Cum	Pert	ussis Cum	Rabies	s, animal	spotte Cum	d fever
Reporting area	2003	2002	2003	2002	2003	2002	2003	2002	2003	2002
UNITED STATES	132	237	342	436	824	1,235	648	1,145	40	59
NEW ENGLAND	5	15	18	32	134	190	74	121	1	-
Maine N.H.	1	1 4	1	2	- 9	3	6	5	-	-
Vt.	-	-	-	3	16	29	6	24	-	-
Mass.	3	6	14	19	109	152	29	38	1	-
Conn.	-	4	2	2	-	5	28	47	-	-
MID. ATLANTIC	26	55	20	45	80	71	47	153	1	6
Upstate N.Y.	8	8	7	12	53	55	47	93	-	-
N.Y. City N.J.	2	20 11	э 3	9	5	5	-	22	- 1	-
Pa.	5	8	5	17	22	11	-	33	-	6
E.N. CENTRAL	11	30	48	63	75	167	4	3	1	2
Ind	5	1	19 12	23 10	56 6	102 12	- 2	1	-	2
III.	1	10	-	7	-	19	-	1	-	-
Mich. Wis	5	8	14	14	9	15 19	2	-	-	-
WN CENTRAL	4	18	20	38	52	112	88	63	2	з
Minn.	2	7	4	6	27	32	6	5	-	-
lowa	2	2	5	5	7	26	9	6	1	-
N. Dak.	-	4-	-	-	-	- 32	14	-	-	-
S. Dak.	-	-	-	2	1	5	6	18	-	-
Nebr. Kans	-	2	1	4	2	2 15	11 42	- 33	-	-
S ATI ANTIC	46	68	77	64	114	80	355	387	32	44
Del.	-	1	6	1	1	1	-	3	-	-
Md.	18	19	7	2	14	11	2	74	5	8
Va.	3	4	4	7	28	22	101	100	-	1
W.Va.	2	-	1	-	1	1	12	25	-	-
S.C.	4	2	э 3	10	41	18	25	15	- 27	4
Ga.	4	33	10	8	14	10	63	47	-	4
	14	1	41	26	13	6	22	22	-	-
E.S. GENTRAL Kv.	5	5	- 19	20	19	40 9	9 4	3	-	-
Tenn.	2	1	3	5	6	22	-	108	1	3
Ala. Miss	2	1	6 10	9	8	2	5	-	-	-
WS CENTRAL	7	2	10	59	5	238	30	235	_	1
Ark.	, 1	-	3	7	-	140	13	-	-	-
La.	1	2	17	4	3	1	-	-	-	-
Tex.	5	-	25	42	-	88	- 20	213	-	- 1
MOUNTAIN	8	7	15	33	176	141	14	27	1	-
Mont.	-	-	1	1	-	2	1	-	-	-
Idano Wvo.	1	-	-	-	6 15	20	-	- 1	-	-
Colo.	6	2	4	10	78	74	-	-	-	-
N. Mex.	- 1	- 2	2	1	13	20	- 13	- 26	- 1	-
Utah	-	2	-	1	14	7	-	-	-	-
Nev.	-	1	2	10	6	2	-	-	-	-
PACIFIC	20	37	67	82	169	196	18	45	1	-
Oreg.	4 5	-	21	17	53 49	12	-	-	-	-
Calif.	11	33	36	49	67	123	17	26	1	-
Hawaii	-	2	2	3	-	4	-	-	-	-
Guam	-	-	-	-	-	-	-	-	-	-
P.R.	-	-	-	-	-	-	-	-	Ν	Ν
V.I. Amer Samoa	-	-	-	-	-	-	-	-	-	-
C.N.M.I.	-	Ŭ	-	Ŭ	-	Ŭ	-	ŭ	-	Ŭ

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending March 15, 2003, and March 16, 2002

N: Not notifiable. - : No reported cases. \* Incidence data for reporting years 2002 and 2003 are provisional and cumulative (year-to-date).

# **MMWR**

. ,							Streptococcus pneumoniae, invasive			
	Salmonellosis		Shige	losis	Streptococo invasive,	<i>cal</i> disease, group A	Drug res all ag	sistant, ges	Age <	5 years
Reporting area	Cum. 2003	Cum. 2002	Cum. 2003	Cum. 2002	Cum. 2003	Cum. 2002	Cum. 2003	Cum. 2002	Cum. 2003	Cum. 2002
UNITED STATES	4,075	5,683	3,193	2,809	982	996	542	472	75	39
NEW ENGLAND	192	280	61	52	56	48	2	1	1	1
Maine N H	9	40	2	2	4	7	-	-	- N	- N
Vt.	3	12	-	-	6	1	2	1	1	1
Mass.	116	155	37	39	41	28	N	N	N	N
Conn.	42	59	20	8	-	-	-	-	-	-
MID. ATLANTIC	330	743	177	176	135	165	16	24	18	11
Upstate N.Y. N Y City	99 125	129 200	47 54	21 73	91 15	70 34	15	24	15 U	11 U
N.J.	27	211	45	39	10	43	Ň	Ň	N	N
Pa.	79	203	31	43	19	18	1	-	3	-
E.N. CENTRAL	582	975 266	228	386	236	249	105	38	36 32	20
Ind.	46	48	25	11	15	7	24	36	4	6
III. Mich	169	405	82	115	41	91 67	-	2	- N	- N
Wis.	50	140	15	30	1	36	N	N	-	14
W.N. CENTRAL	288	397	157	269	84	61	70	94	9	6
Minn. Iowa	81 67	77 55	15 7	31 25	31	21	N	36 N	9 N	5 N
Mo.	76	175	52	32	20	19	3	1	-	1
N. Dak. S Dak	6 15	5 18	- 8	- 100	3	-	3	- 1	-	-
Nebr.	14	18	63	59	11	6	12	18	N	N
Kans.	29	49	12	22	11	12	52	38	N	N
S. ATLANTIC Del	1,285 4	1,457 12	1,595 66	1,036 3	173	171	302	249	2 N	1 N
Md.	121	103	134	116	68	22	-	-	-	-
D.C. Va	- 78	15 92	- 47	13 205	- 2	3 14	N	16 N	N	1 N
W.Va.	5	6	-	2	5	-	16	6	2	-
N.C. S.C.	237 60	197 65	158 34	60 9	22	43 12	N 20	N 52	U N	U N
Ga.	310	357	612	390	16	50	99	101	N	N
FIA.	470	610	544	238	55	27	167	/1	N	N
E.S. CENTRAL Kv.	287	286	32	198 41	5	5	23	45 6	N	N
Tenn.	86	87	46	14	26	26	22	39	N	N
Ala. Miss.	96 50	94 72	62 25	64 79	-	-	-	-	N -	N -
W.S. CENTRAL	182	346	368	186	48	63	15	7	9	-
Ark.	51	56	8	26	1	-	3	2	-	-
Okla.	36	48	132	42	22	11	N	ь N	2	-
Tex.	57	194	188	96	24	51	Ν	N	-	-
MOUNTAIN Mont	332 16	334 7	210	88	155	69	8	14	-	-
Idaho	24	18	3	2	8	1	Ν	Ν	Ν	Ν
Wyo. Colo	4	13 95	1 31	1 23	- 55	3 28	1	7	-	-
N. Mex.	26	50	29	12	34	32	7	7	-	-
Ariz. Utah	119 27	82 26	131	36 7	53	- 5	-	-	N _	N
Nev.	18	43	9	7	-	-	-	-	-	-
PACIFIC	597	865	232	418	64	139	1	-	-	-
Oreg.	58	29 55	20 14	27	N	20 N	N	N	N	N
Calif.	422	723	178	366	43	98	N	N	N	N
Hawaii	20	43	11	12	21	15	- 1	-	IN -	IN -
Guam	-	-	-	-	-	-	-	-	-	-
r.n. V.I.	3-	-	-	-	N -	N -	N -	N -	IN -	N -
Amer. Samoa	U	U	U	U	U	U	U	U	U	U
U.IN.IVI.I.	-	U	-	U	-	U	-	U	-	U

 TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending March 15, 2003, and March 16, 2002

 (11th Week)\*

N: Not notifiable. U: Unavailable. - : No reported cases. \* Incidence data for reporting years 2002 and 2003 are provisional and cumulative (year-to-date).

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(11th Week)*									
		Syp	hilis						Varicella
	Primary &	secondary	Cong	enital	Tuber	culosis	Typho	id fever	(Chickenpox)
Reporting area	Cum. 2003	Cum. 2002	Cum. 2003	Cum. 2002	Cum. 2003	Cum. 2002	Cum. 2003	Cum. 2002	Cum. 2003
UNITED STATES	1,189	1,238	59	84	1,079	1,886	28	64	23,287
NEW ENGLAND Maine	31	14	-	-	23	69 4	2	4	521 262
N.H.	3	-	-	-	3	3	-	-	-
Vt. Mass.	- 24	- 8	-	-	- 11	- 22	- 1	- 3	204 53
R.I.	4	2	-	-	3	16	-	-	2
Conn.	-	4	-	-	6	24	1	1	-
MID. AI LAN LIC Upstate N.Y.	129	122	7 5	10 1	248 28	314 39	4	20	1 N
N.Y. City	65	69	1	3	196	160	2	10	-
N.J. Pa.	33 27	29 20	1	6	- 24	74 41	-	6 2	- 1
E.N. CENTRAL	160	252	17	13	166	172	2	8	22.222
Ohio	38	41	2	-	23	23	-	3	354
Ind.	5 41	11 75	3	- 12	27 82	19 82	1	1	-
Mich.	74	119	3	1	31	34	1	2	982
Wis.	2	6	-	-	3	14	-	1	20,886
W.N. CENTRAL Minn.	32 9	17 7	-	-	68 26	89 37	-	3 2	8 N
lowa	2	-	-	-	5	-	-	-	-
Mo. N. Dak.	12	5	-	-	13	30	-	1	- 8
S. Dak.	-	-	-	-	8	5	-	-	-
Nebr. Kans.	- 9	2	-	-	2 14	1 16	-	-	-
S. ATLANTIC	332	300	8	19	157	341	5	10	519
Del.	1	4	-	-	-	-	-	-	1
D.C.	50 6	30 10	- 1	2	- 28	- 35	2	-	-
Va.	15	7	1	-	27	41	-	-	113
W.Va. N.C	- 33	- 73	- 3	-	2 24	6 41	- 1	-	377 N
S.C.	25	28	1	2	21	21	-	-	28
Ga. Fla.	65 131	43 105	- 2	4	42 13	58 139	- 2	5 4	-
E.S. CENTRAL	81	132	9	8	118	126	1	2	-
Ky.	14	14	1	2	16	17	-	2	N
Ala.	35 29	52 47	4	3	32 55	62 38	- 1	-	N -
Miss.	3	19	-	2	15	9	-	-	-
W.S. CENTRAL	166	164	8	23	30	353	-	3	2
Ark. La	10 16	10 34	-	-	15	9	-	-	- 2
Okla.	9	16	-	-	15	20	-	-	Ň
Tex.	131	104	8	23	-	324	-	3	-
MOUNTAIN Mont	49	56	8	4	32	47	2	2	14 N
Idaho	-	1	-	-	1	-	-	-	N
Wyo. Colo	- 3	-	- 2	- 1	1	1	- 2	- 1	2
N. Mex.	7	5	-	-	-	9	-	-	-
Ariz.	35	45	6	3	18	15	-	- 1	-
Nev.	2	- 1	-	-	-	4	-	-	-
PACIFIC	209	181	2	7	237	375	12	12	-
Wash.	13	11	-	-	48	42	-	-	-
Calif.	179	165	2	7	14	276	10	10	-
Alaska	-	-	-	-	12	17	-	-	-
Guam	Ö	I	-	-	22	23	-	-	-
P.R.	26	- 4	- 1	-	-	-	-	-	16
V.I. Amer Samoa	-	1	-	-	-	-	-	-	-
C.N.M.I.	-	U	-	U	-	U	-	U	-

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending March 15, 2003, and March 16, 2002

N: Not notifiable. U: Unavailable. - : No reported cases. \* Incidence data for reporting years 2002 and 2003 are provisional and cumulative (year-to-date).

TABLE III. Deaths in 122 U.S. of	cities,* week ending March	15, 2003 (11th Week)
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	All causes, by age (years)								All causes, by age (years)						
Reporting Area	All Ages	≥65	45-64	25-44	1-24	<1	P&l⁺ Total	Reporting Area	All Ages	<u>≥</u> 65	45-64	25-44	1-24	<1	P&l⁺ Total
NEW ENGLAND	463	358	67	22	8	8	63	S. ATLANTIC	1,442	923	339	97	39	43	108
Boston, Mass.	104	85	3	10	3	3	14	Atlanta, Ga.	347	200	86	33	9	19	19
Bridgeport, Conn.	30	23	7	-	-	-	4	Baltimore, Md.	214	134	57	15	5	3	19
Cambridge, Mass.	20	17	3	-	-	-	-	Charlotte, N.C.	113	77	25	4	5	2	17
Fall River, Mass.	27	25	2	-	-	-	4	Jacksonville, Fla.	154	101	40	6	1	5	11
Hartford, Conn.	40	23	8	5	2	2	8	Miami, Fla.	60	38	13	/	1	1	5
Lowell, Mass.	24	20	3	-	-	1	0	Norrolk, va.	51	34	10	3	4	-	6
Lynn, Mass.	28	22	5	- 1	-	-	2	Savannah Ga	57	38	1/	1	2	4	7
New Haven Conn	40	30	8	1	1	_	7	St Petersburg Fla	79	51	21	1	4	2	1
Providence B I	10	Ü	ŭ	ú	Ū.	U	ú	Tampa Fla	191	141	34	8	3	5	11
Somerville, Mass.	7	5	2	-	-	-	-	Washington, D.C.	104	66	25	11	2	-	2
Springfield, Mass.	36	32	2	1	1	-	5	Wilmington, Del.	21	12	4	5	-	-	4
Waterbury, Conn.	37	23	11	1	1	1	2		1 000	007	000	05	10	4.5	07
Worcester, Mass.	59	45	10	3	-	1	8	E.S. CENTRAL	1,022	697	228	65	16	15	97
	0 717	1 000	E00	170	27	4.4	151	Dirmingham, Ala.	217	102	3/	13	4	- 1	19
Albany N.V.	2,717	1,920	10	1/2	37	44	101	Knowillo Tonn	101	44 70	21	7	1	1	9
Allentown Pa	49	21	10	-	-		1	Levington Ky	106	77	21	5	-	-	7
Buffalo N Y	95	62	25	2	2	4	9	Memphis Tenn	229	149	56	16	4	4	33
Camden N.I	38	27	4	6	-	1	5	Mobile Ala	73	50	20	2	1		4
Flizabeth N J	23	15	6	2	-	-	7	Montgomery Ala	46	33	9	3	1	-	6
Erie. Pa.	43	37	4	2	-	-	4	Nashville, Tenn.	182	110	47	13	2	9	11
Jersev City, N.J.	49	39	5	4	1	-	-		4 075	4 0 0 4	0.40	100	-	40	100
New York City, N.Y.	1,575	1,094	328	105	21	24	60	W.S.CENTRAL	1,675	1,061	348	132	88	46	129
Newark, N.J.	65	34	16	10	2	3	6	Austin, Iex.	107	69	21	10	1	6	9
Paterson, N.J.	31	16	9	5	1	-	-	Baton Rouge, La.	80	63 27	10	2	3	2	2
Philadelphia, Pa.	305	213	65	20	3	4	15	Dolloo Tox	20	150	14 51	16	1	-	10
Pittsburgh, Pa.§	27	21	4	-	-	2	2	El Paso Tox	245	159	10	10	1	0	13
Reading, Pa.	24	19	4	1	-	-	2	Et Worth Tex	120	67	36	9	3	5	4
Rochester, N.Y.	153	122	21	6	2	2	16	Houston Tex	300	199	82	43	57	18	37
Schenectady, N.Y.	31	27	3	1	-	-	1	Little Bock Ark	94	48	30	8	5	3	7
Scranton, Pa.	15	13	2	-	-	-	-	New Orleans La	44	25	12	6	1	-	-
Syracuse, N.Y.	110	86	17	3	2	2	10	San Antonio, Tex.	333	249	58	18	5	3	31
Irenton, N.J.	26	16	4	3	2	1	1	Shreveport, La.	9	8	-	1	-	-	-
Viica, N.Y. Yonkers, N.Y.	16 20	11 18	4	- 1	1 -	-	2 4	Tulsa, Ökla.	102	73	22	7	-	-	12
E N CENTRAL	2 209	1 487	481	150	34	57	157	MOUNTAIN	1,000	678	214	68	30	10	88
Akron. Ohio	59	40	11	6	1	1	8	Albuquerque, N.M.	130	89	30	8	3	-	10
Canton, Ohio	49	39	8	2	-	-	2	Boise, Idaho	46	33	10	2	1	-	8
Chicago, III.	393	226	95	34	10	28	21	Colo. Springs, Colo.	/3	52	11	2	/	1	3
Cincinnati, Ohio	83	53	23	5	2	-	5	Denver, Colo.	115	172	21	11	5	6	14
Cleveland, Ohio	139	90	34	13	-	2	7	Las vegas, Nev.	282	1/5	/5	20	0	-	21
Columbus, Ohio	207	150	37	11	3	6	12	Phoenix Ariz	21	21	11				2
Dayton, Ohio	126	94	23	9	-	-	11	Pueblo Colo	26	16	7	1	2	-	3
Detroit, Mich.	202	121	56	21	3	1	17	Salt Lake City, Utah	129	95	19	9	4	2	13
Evansville, Ind.	47	40	4	-	2	1	4	Tucson. Ariz.	172	125	35	9	2	1	14
Fort Wayne, Ind.	/1	52	15	1	2	1	9	DACIEIO	1 70 4	1 00 1	004		40	40	150
Gary, Ind. Grand Banida, Miah	17	9	6	2	-	-	1	PACIFIC Barkalay Calif	1,794	1,294	304	111	42	42	156
Indianapolis Ind	211	120	9	14	-	4	10	Erospo Calif	120	102	22	2	-	1	10
Longing Mich	50	150	40	2	0	2	10	Glondalo Calif	109	20	22	9	4	1	10
Milwaukee Wis	156	102	30	13	2	-	11	Hopolulu Hawaii	20	62	4 Q	- 1	2	7	2
Peoria III	59	39	13	2	-	5	4	Long Beach Calif	81	51	23	6	1		7
Bockford III	51	36	14	1	-	-	5	Los Angeles Calif	333	234	58	23	8	10	16
South Bend Ind	64	46	13	3	2	-	3	Pasadena Calif	29	25	2	2	-	-	6
Toledo. Ohio	95	73	12	9	-	1	5	Portland, Oreg.	170	133	25	5	4	3	7
Youngstown, Ohio	63	50	12	-	1	-	1	Sacramento, Calif.	201	162	21	9	6	3	34
W N CENTRAL	637	452	117	34	19	15	62	San Diego, Calif.	187	122	40	14	7	4	15
Des Moines, Iowa	85	66	14	2	2	1	10	San Francisco, Calif.	U	U	U	U	U	U	U
Duluth, Minn.	36	29	4	3	-	-	3	San Jose, Calif.	191	144	29	9	3	6	25
Kansas Citv. Kans.	27	15	5	3	2	2	3	Santa Cruz, Calif.	39	30	5	2	1	1	3
Kansas City, Mo.	115	73	23	9	5	5	7	Seattle, Wash.	138	90	29	14	3	2	12
Lincoln, Nebr.	29	21	4	3	1	-	3	Spokane, Wash.	54	39	11	3	-	1	6
Minneapolis, Minn.	95	64	20	4	5	2	8	lacoma, wash.	107	70	20	12	3	1	3
Omaha, Nebr.	89	70	15	2	1	1	9	TOTAL	12,959 <sup>¶</sup>	8,878	2,631	851	313	280	1,011
St. Louis, Mo.	U	U	U	U	U	U	U								
St. Paul, Minn.	65	52	10	1	-	2	10								
Wichita, Kans.	96	62	22	7	3	2	9								

U: Unavailable. -: No reported cases.

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

# (Continued from page 229)

# Notice to Readers

# World Water Day, March 22, 2003

In 1992, the United Nations Conference on Environment and Development designated March 22 of each year as World Water Day. The theme for this year is "Water for the Future." The objective of World Water Day is to promote activities, such as the publication and diffusion of documents and the organization of conferences and seminars, related to the conservation and development of water resources (1). The third annual World Water Forum will be held in Kyoto, Shiga, and Osaka, Japan during March 16–23.

Approximately 1.1 billion persons lack access to an improved water source, and 2.4 billion persons do not have access to adequate sanitation. Diarrhea accounts for approximately 4 billion episodes of illness and 2.2 million deaths every year, disproportionately affecting young children. Safe water, adequate sanitation, and hygiene education can reduce diarrheal disease deaths by an estimated 65% and related morbidity by 26% (2). One of the Millennium Development Goals set at the World Summit for Sustainable Development in 2002 is to reduce by 50% the proportion of persons without access to safe water by 2015.

CDC's Safe Water System is a water-quality intervention that uses simple, inexpensive technologies to enable persons to treat and safely store drinking water in their homes. It has been adapted for use by street vendors, schools, and health clinics. *Safe Water Systems for the Developing World: A Handbook for Implementing Household-Based Water Treatment and Safe Storage Projects* is a resource for program managers, technical staff, and other personnel in organizations involved in water and sanitation projects (*3*). It is available in English, French, and Spanish; an Arabic edition will be published later this year. CDC, in collaboration with its partners, is establishing a Global Network to promote safe household water treatment and storage to reduce waterborne disease, especially among children and the poor.

Additional information about World Water Day is available at http://www.waterday2003.org. Information about CDC's Safe Water System is available at http://www.cdc.gov/ safewater.

#### References

- United Nations Environment Programme. World Water Day 2003: water for the future. Available at http://www.waterday2003.org.
- 2. World Health Organization and United Nations Children's Fund. Global water supply and sanitation assessment 2000 report. Geneva, Switzerland and New York, New York: World Health Organization and United Nations Children's Fund, 2000.
- CDC. Safe water systems for the developing world: a handbook for implementing household-based water treatment and safe storage projects. Atlanta, Georgia: U.S. Department of Health and Human Services, CDC, 2001.

# Notice to Readers

# Satellite Broadcast on Sexual Violence Prevention

CDC will present a live, interactive satellite broadcast and webcast, "Sexual Violence Prevention: Building Leadership and Commitment to Underserved Communities," on April 3, 2003, from 12:00 p.m. to 2:00 p.m. EST. Participants will learn to identify strategies that can help prevent sexual violence in underserved communities. A question and answer session will enable participants nationwide to pose questions to panelists by toll-free telephone, fax, or TTY lines.

The program is designed for rape-prevention and education practitioners and program managers; state health department officials (injury prevention programs, maternal and child health, and women's health) and other public health officials; health professionals; state sexual violence prevention coalitions; local rape crisis centers; private and nonprofit organizations; Violence Against Women Act (VAWA) grantees and administrators; Victims Of Crime Acts (VOCA) grantees and administrators; and other partners.

Additional information about program content, registration, resource materials, continuing education credit, and accessing the live broadcast/webcast is available at http:// www.phppo.cdc.gov/phtn/svprev. Information about registration also is available at CDC, telephone, 800-418-7246 or 404-639-1292.

All MMWR references are available on the Internet at http://www.cdc.gov/mmwr. Use the search function to find specific articles.

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