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State-Specific Prevalence of Obesity Among Adults with Disabilities — Eight States and the District of Columbia, 1998–1999

The national health objectives for 2010 rank obesity among the top ten leading health indicators (1). Obesity increases the risk for type 2 diabetes, hypertension, dyslipidemia, cardiovascular disease, respiratory problems, certain cancers, gallstones, osteoarthritis, and lowered life expectancy (2–4). The estimated annual cost attributable to obesity-related diseases is approximately \$100 billion (5). Obesity among adults in the general U. S. population increased from 12.0% in 1991 to 17.9% in 1998 (6). Little is known about the national or state prevalence of obesity among persons with disabilities. Obesity is not measured routinely or reported among persons with disabilities (1). To determine the prevalence of obesity among persons with and without disabilities, CDC analyzed data from the 1998 and 1999 Behavioral Risk Factor Surveillance System (BRFSS) for eight states and the District of Columbia (DC). The findings indicate that obesity rates are significantly higher among persons with disabilities, especially among blacks and persons aged 45-64 years. The findings suggest that public health messages and interventions should be targeted to persons with disabilities who are likely to become obese and to obese persons who are likely to become disabled.

BRFSS is an ongoing, random-digit—dialed telephone survey of the noninstitutionalized U.S. population aged \geq 18 years. The survey consists of a list of questions, including self-reported height and weight, indicators used to calculate body mass index (BMI) (weight in kilograms divided by height in meters squared [weight (kg)/height squared (m²)]. Obesity is defined as BMI >30.0 kg/m² (5).

For this analysis, data from the 1998 and 1999 BRFSS were aggregated to increase the precision of prevalence estimates. Disability-identifying questions were asked to 52,037 respondents in eight states (Alabama, Arkansas, Iowa, Kansas, New York, North Carolina, Rhode Island, and South Carolina)

and DC. Disability was defined on the basis of a qualifying response to either of the following two questions: "Are you limited in any way in any activities because of an impairment or health problem?" or "If you use special equipment or help from others to get around, what type do you use?" Responses to type of assistance included wheelchair, walker, cane, or another person. Responses of "don't know" and "not sure" were coded as missing values. Previous analysis indicated wide variation in disability prevalence by state (7). BRFSS data for 1998 show rates of disability ranging from 13.6% to 21.8%, with an overall age-adjusted rate of 17.1% in 11 states and DC. Prevalence of disability increased with age; 9.7% of those aged 18–44 years, 22.1% of those aged 45–64 years, and 30.8% of those aged >65 years reported disability (7).

Samples were weighted for age, sex, race/ethnicity, and nonresponse to the survey to estimate the noninstitutionalized civilian population of each state. SUDAAN was used to account for the multistage, stratified samples of this survey and to calculate 95% confidence intervals (CIs). Response rates calculated for participating states using the CASRO method (8) for 1998 ranged from 52.2% (New York) to 75.1% (Kansas) with a median of 60.9%; in 1999, response rates ranged from 45.0% (New York) to 66.3% (Kansas) with a median of 49.6% for the eight states and DC. The sample

INSIDE

- 808 Folate Status in Women of Childbearing Age, by Race/ Ethnicity — United States, 1999–2000
- 810 Progress Toward Global Dracunculiasis Eradication, June 2002
- 812 West Nile Virus Activity United States, September 5–11, 2002, and Texas, January 1–September 9, 2002
- 823 Investigation of Blood Transfusion Recipients with West Nile Virus Infections

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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 size resulted in estimates for a weighted population of 62,137,000 persons.

Of the total population surveyed, 18.4% were obese (Table 1). Overall, and for each of the four demographic characteristics examined, persons with disabilities had higher rates of obesity (27.4% [95% CI=25.5–29.3]) than those without disabilities (16.5% [95% CI=15.9–17.1]). Substantial differences existed between men with disabilities (25.5% [95% CI=22.7–28.3]) and without disabilities (17.7% [95% CI=16.7–18.7]) and between women with disabilities (29.1% [95% CI=26.6–31.6]) and without disabilities (15.3% [95% CI=14.5–16.1]) (Table 2). In the population without disability, a slight but significantly higher percentage of men than women reported obesity; however, among those with a disability, a larger percentage of women than men tended to report obesity.

A significantly larger percentage of blacks with disabilities reported obesity compared with whites with disabilities. Among whites, 25.7% (95% CI=23.7–27.7) of those with disability reported obesity, compared with 35.8% (95% CI=30.6–41.0) among blacks and 31.1% (95% CI=22.3–40.3) among Hispanics. Significant differences were found in the percentages of persons with and without disabilities for the three age groups; however, the differences were greatest for those aged 45–64 years. A total of 34.4% (95% CI=31.5–37.3) of persons with disabilities in this age group reported obesity compared with 19.5% (95% CI=18.2–20.8) of persons without disabilities.

The estimated prevalence of obesity among persons reporting disabilities varied by state (Table 2). Overall, rates ranged from 22.7% (95% CI=19.8–25.6) in Rhode Island to 35.6% (95% CI=28.9–42.3) in DC. For women, rates ranged from 26.2% (95% CI=22.2–30.2) in Rhode Island to 35.4% (95% CI=19.8–41.0) in Alabama. For men, rates ranged from 22.7% (95% CI=19.8–25.6) in Rhode Island to 35.6% (95% CI=28.9–42.3) in DC. In three states (Alabama, Iowa, and Rhode Island), obesity rates among men with and without disabilities were similar. However, among men with disabilities in DC, men aged 18–44 and 45–64 years were three times more likely to be obese (13.7% versus 36.8% and 16.7% versus 48.7%, respectively).

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Editorial Note: The findings in this report indicate that in these eight states, persons with disabilities, regardless of sex, race/ethnicity, or age, have higher rates of obesity than persons without disabilities. These data indicate that obesity is frequently comorbid with disability and underscore both the public health implications of obesity among persons with disabilities and the need to develop public health policies (9)

TABLE 1. Prevalence of obesity* among adults for selected demographic groups, by disability status — Behavioral Risk Factor Surveillance System (BRFSS), eight states and the District of Columbia, 1998–1999

	ı	No disabilit	у			Disability	
-	%	(95% CI†)	Weighted estimate	•	%	(95% CI)	Weighted estimate
Sex							
Female	15.3	<u>+</u> 0.8	26,692,000		29.1	<u>+</u> 2.5	5,931,000
Male	17.7	<u>±</u> 1.0	25,057,000		25.5	<u>+</u> 2.8	4,457,000
Age Group (yrs)							
18-44	15.4	<u>+</u> 0.8	29,610,000		24.5	<u>+</u> 3.0	3,053,000
45-64	19.5	±1.3	14,158,000		34.4	<u>+</u> 2.9	3,829,000
≥65	14.5	<u>+</u> 1.5	7,980,000		24.0	<u>+</u> 2.7	3,506,000
Race							
Black	24.0	<u>+</u> 1.9	7,605,000		35.8	<u>+</u> 5.2	1,562,000
White	15.5	<u>+</u> 0.7	40,600,000		25.7	<u>+</u> 2.0	8,310,000
Other	13.1	<u>+</u> 3.6	3,228,000		25.2	<u>+</u> 9.5	452,000
Ethnicity							
Hispanic	16.5	<u>+</u> 3.7	3,483,000		31.3	<u>+</u> 9.0	625,000
Non-Hispanic	16.5	<u>+</u> 0.6	47,965,000		27.1	<u>+</u> 1.9	9,682,000
Total	16.5	<u>+</u> 0.6	51,748,000		27.4	<u>+</u> 1.9	10,388,000

^{*}Body mass index ≥30 kg/m².

and interventions to prevent or reduce serious weight problems among this population.

These are the first state-level data obtained from BRFSS to estimate the rates of obesity among persons with disabilities. However, additional information is needed about the antecedents and consequences of obesity and disability. The cross-sectional design of BRFSS precludes determining whether respondents became obese before or after developing a disability.

The prevalence of obesity observed in this survey is similar to findings of an analysis of BRFSS data about obesity in the general population (6). National Health and Nutrition Examination Survey data, which calculate BMI based on actual measures, indicate that 23% of persons without disabilities are obese compared with 30% of persons with disabilities.

The findings in this report are subject to at least four limitations. First, because BRFSS does not sample persons aged <18 years or persons who are in institutions, who are in households without a telephone, who are hearing impaired, who have cognitive, speech, and other communication impairments, or who have limited stamina and cannot get to the telephone, findings in this report cannot be generalized to the U.S. population. Second, the sample size for specific racial/ ethnic groups was too small to make reliable statespecific generalizations. Third, the survey data are self-reported; such indicators of activity limitations and compensatory strategies used to identify persons with disabilities have not been validated as measures of disability, and persons might not report height and weight accurately, thus affecting the calculation of BMI (10). Finally, CASRO rates for 1999 were substantially

lower than those for 1998; although weighting controls for nonresponse, caution should be exercised in the interpretation of results because missing data from nonparticipants might vary from those provided by survey respondents.

Interventions for obesity should address lifestyle, nutrition, physical activity, and access to facilities designed to promote fitness. Additional data are needed about contributors to obesity among persons with disabilities, including dietary and lifestyle decisions; available food choices; physical activity; use of home-, school-, work-, and community-based fitness facilities; and participation in recreational activities.

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TABLE 2. Percentage of adults that are obese*, by disability status and age group — Behavioral Risk Factor Surveillance System (BRFSS), eight states and the District of Columbia, 1998–1999

		18–4	4 yrs			45–6	4 yrs			≥65	yrs			To	tal		•	Total
	Dis	ability	No d	lisability	Dis	sability	No d	isability	Dis	ability	No d	isability	Dis	ability	No d	isability	pop	oulation
State	%	(95% CI†)	%	(95% CI)	%	(95% CI)	%	(95% CI)	%	(95% CI)	%	(95% CI)	%	(95% CI)	%	(95% CI)	%	(95% CI)
Alabama	31.8	(±7.8)	19.7	(<u>+</u> 2.2)	27.1	(±4.6)	23.8	(±3.3)	24.1	(<u>+</u> 5.1)	13.4	(±3.0)	29.1	(<u>+</u> 4.4)	19.8	(<u>+</u> 1.6)	21.4	<u>(+</u> 1.5)
Arkansas	28.1	(<u>+</u> 6.3)	18.0	(±1.8)	35.4	(±4.5)	22.6	(<u>+</u> 2.5)	23.9	(<u>+</u> 5.0)	14.6	(±3.3)	29.6	(<u>+</u> 3.7)	18.8	(±1.3)	20.8	(<u>+</u> 1.2)
District of Columbia	32.0	(±10.5)	14.7	(<u>+</u> 2.1)	48.7	(<u>+</u> 11.4)	22.8	(<u>+</u> 3.9)	24.0	(± 7.5)	15.1	(<u>+</u> 4.3)	35.6	(<u>+</u> 6.7)	17.2	(<u>+</u> 1.8)	19.6	<u>(+</u> 1.8)
Iowa	20.8	(±4.6)	16.7	(±1.6)	34.4	(±4.6)	22.6	(<u>+</u> 2.4)	28.4	(±4.2)	18.0	(<u>+</u> 3.0)	26.2	(<u>+</u> 2.9)	18.7	(<u>+</u> 1.2)	20.4	(<u>+</u> 1.1)
Kansas	22.8	(<u>+</u> 5.7)	15.4	(<u>+</u> 1.4)	35.2	(<u>+</u> 5.6)	19.8	(<u>+</u> 2.1)	20.4	(± 3.8)	13.4	(<u>+</u> 2.2)	26.1	(<u>+</u> 3.5)	16.4	(<u>+</u> 1.0)	17.7	<u>(+</u> 1.0)
New York	20.4	(<u>+</u> 5.6)	12.7	(±1.5)	34.8	(± 6.3)	16.6	(±2.5)	24.2	(<u>+</u> 6.1)	15.4	(± 3.2)	25.3	(±3.7)	14.3	(<u>+</u> 1.2)	16.2	(±1.2)
North Carolina	30.3	(± 7.4)	17.4	(<u>+</u> 2.0)	39.3	(± 7.4)	21.0	(<u>+</u> 2.8)	22.4	(<u>+</u> 5.0)	11.0	(<u>+</u> 2.7)	31.6	(<u>+</u> 4.6)	17.4	(±1.4)	19.8	(±1.4)
Rhode Island	19.3	(±4.3)	13.8	(<u>+</u> 1.4)	28.8	(<u>+</u> 5.2)	18.2	(<u>+</u> 2.1)	22.7	(± 4.7)	12.7	(<u>+</u> 2.2)	22.7	(<u>+</u> 2.9)	15.0	(<u>+</u> 1.1)	16.2	(±1.0)
South Carolina	27.7	(<u>+</u> 6.4)	16.8	(<u>+</u> 1.6)	32.8	(±5.2)	21.9	(<u>+</u> 2.4)	25.1	(<u>+</u> 5.6)	15.5	(<u>+</u> 2.9)	28.8	(<u>+</u> 3.8)	18.1	(<u>+</u> 1.2)	19.7	<u>(+</u> 1.1)
Total	24.5	(±3.0)	15.4	(<u>+</u> 0.8)	34.4	(<u>+</u> 2.9)	19.5	(<u>+</u> 1.3)	24.0	(<u>+</u> 2.7)	14.4	(<u>+</u> 1.5)	27.4	(<u>+</u> 1.9)	16.5	(<u>+</u> 0.6)	18.4	<u>(+</u> 0.6)

^{*}Body mass index ≥30 kg/m².

[†]Confidence interval.

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Folate Status in Women of Childbearing Age, by Race/ Ethnicity — United States, 1999–2000

In September 1992, the U.S. Public Health Service (PHS) recommended that women of childbearing age (i.e., aged 15-44 years) who are capable of becoming pregnant should consume 400 µg of the B-vitamin folic acid to reduce the number of cases of spina bifida and anencephaly (neural tube defects [NTDs]) (1). Since then, an ongoing national effort has encouraged women to consume dietary supplements containing folic acid (2). In 1998, the Food and Drug Administration (FDA) required the fortification of enriched cereal grain products with folic acid (3), and manufacturers have voluntarily added more folic acid to many ready-to-eat breakfast cereals (CDC, unpublished data, 2002). To assess temporal changes in serum and red blood cell (RBC) folate concentrations among childbearing-aged women, CDC compared folate concentrations for childbearing-aged women who participated during 1988-1994 and 1999-2000 in the National Health and Nutrition Examination Survey (NHANES). This report outlines the results of this comparison and describes serum and RBC folate levels by race/ethnicity. The results indicate that over the period studied, the median serum folate concentration for women aged 15-44 years increased approximately threefold, and the median RBC folate concentration increased approximately twofold. These findings indicate that the national health objective for 2010 to increase the median RBC folate level among women of childbearing age to 220 ng/mL RBC (objective 16.16b) has been met for Mexican-American* and non-Hispanic white women but not for non-Hispanic black women. To reduce the number of pregnancies affected by NTDs further, all women of childbearing age capable of becoming pregnant should consume the PHS-recommended level of folic acid daily (1).

Both NHANES 1988-1994 and NHANES 1999-2000 used a stratified, multistage probability sample of the civilian, U.S. noninstitutionalized population. NHANES 1988-1994 included persons aged >2 months, and NHANES 1999-2000 included persons of all ages. A household interview and a physical examination were conducted for each survey participant. During the physical examination, blood was collected by venipuncture for all persons aged >1 year. Serum and RBC folate were measured in CDC's NHANES Central Laboratory for both NHANES 1988-1994 and NHANES 1999-2000 by using the Bio-Rad Quantaphase IITM simultaneous folate/vitamin B12 radioassay (Bio-Rad Laboratories, Hercules, California) (4). Long-term qualitycontrol data for these assays, including overlapping control materials that were used in both surveys, indicated no analytical drift; results of all external proficiency testing challenges were graded as satisfactory.

From NHANES 1988-1994 to NHANES 1999-2000, median serum folate concentrations for women aged 15-44 years increased from 4.8 to 13.0 ng/mL. The 10th percentile increased from 2.3 to 6.4 ng/mL, and the 75th percentile increased from 7.8 to 18.1 ng/mL (Table 1). Serum folate concentrations increased for each of the three racial/ethnic populations for which estimates could be made (Table 2); in NHANES 1999-2000, the median serum folate concentration was highest for non-Hispanic whites (13.8 ng/mL) and lowest for non-Hispanic blacks (10.2 ng/mL). Similar results were obtained for RBC folate, a better measure of long-term folate status. Median RBC folate concentrations for women aged 15-44 years increased from 159.9 to 263.6 ng/mL RBC (Table 1). RBC folate concentrations increased for all racial/ ethnic groups studied (Table 2). In NHANES 1999-2000, the highest RBC folate concentrations occurred among non-Hispanic white women (median: 278.1 ng/mL RBC) and were lowest among non-Hispanic black women (median: 213.8 ng/mL RBC).

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^{*} Numbers for other Hispanic women were too small for meaningful analysis.

TABLE 1. Selected percentiles of serum (in ng/mL) and red blood cell (RBC) folate concentrations (in ng/mL RBC) for women aged 15–44 years — National Health and Nutrition Examination surveys, United States, 1988–1994 and 1999–2000

						Р	ercentile				
			10th		25th		50th		75th		90th
	No.	ng/mL	(95% CI*)	ng/mL	(95% CI)	ng/mL	(95% CI)	ng/mL	(96% CI)	ng/ml	L (95% CI)
Serum folate											
1988-1994	5,616	2.3	(2.2-2.4)	3.1	(3.0-3.4)	4.8	(4.5- 5.2)	7.8	(7.3 - 8.3)	11.7	(10.9-12.8)
1999-2000	1,648	6.4	(5.8–7.0)	9.1	(8.7 - 9.5)	13.0	(12.1-13.8)	18.1	(16.6-19.5)	26.1	(22.5-29.8)
RBC folate											
1988-1994	5,254	92.2	(88.5-95.8)	119.5	(115.9-123.4)	159.9	(153.6-168.6)	222.3	(214.2-232.2)	296.6	(284.9-315.2)
1999–2000	1,656	166.2	(157.8–174.7)	204.7	(198.6–210.8)	263.6	(248.3–278.9)	343.0	(324.9–361.1)	432.6	(411.9–453.3)

^{*}Confidence interval.

Editorial Note: Results from NHANES 1999–2000, which was conducted after implementation of food fortification and educational efforts to increase folate consumption, indicate that these public health actions have been effective in increasing folate status among U.S. women of childbearing age. The findings are consistent with reports of improved folate status in selected subsets of the U.S. population (5,6) and the results from the 1999 sample of NHANES 1999–2000 (7). In 1999, the median serum folate concentration was 14.5 ng/mL, and the median RBC folate concentration was 293 ng/mL RBC, somewhat higher than the 1999–2000 results. Both serum and RBC folate concentrations for the 2000 sample of NHANES 1999–2000 were lower than the 1999 sample.

Annual variations in estimates from NHANES can be expected because of the size of the yearly sample and the nature of the sampling design, and these differences might be explained by sampling variability. Other possible explanations include reduced consumption of foods and supplements containing folic acid, a decrease in the folic acid content of fortified foods (8), or undetected variations in laboratory technique. Because of the high level of long-term assay quality-control, changes in laboratory technique probably do not account for the lower folate concentrations in 2000. Another line of evidence suggesting that variations in laboratory technique are not likely to explain the lower folate concentrations in 2000 is that vitamin B12 concentrations in women of child-bearing age did not change from NHANES 1988–1994 to

NHANES 1999–2000, even though they are measured simultaneously in the same assay as the folate concentrations.

Women of each of the three racial/ethnic populations compared had substantial increases in serum and RBC folate concentrations over time, indicating that women of all racial/ethnic groups examined have benefitted from the public health actions to improve folate status. However, disparities in blood folate concentrations among racial/ethnic groups remain.

Women of childbearing age in the United States who are capable of becoming pregnant should consume $400 \mu g$ (0.4 mg) of folic acid per day to reduce their risk for having a pregnancy affected with spina bifida or other NTDs (1). The use of vitamin supplements containing folic acid before and during early pregnancy reduces the risk for NTDs (1). Increases in the reported use of vitamin supplements have been small (9). Because approximately 50% of all pregnancies are unplanned, and because NTDs occur early in pregnancy before many women are aware that they are pregnant, food fortification is probably the most important approach to delivery of folic acid at conception and during early pregnancy.

The data presented in this report are subject to at least one limitation. Because the sample size in NHANES 1999–2000 is smaller than that of NHANES 1988–1994, more data are necessary to allow more detailed analyses of trends in blood folate concentrations in all population subgroups, particularly among young women of varying socioeconomic status.

One of the national health objectives for 2010 is to increase the proportion of pregnancies begun with an optimum folic

acid level by increasing the median RBC folate level to 220 ng/mL RBC among women aged 15–44 years (objective 16.16b) (10). On the basis of NHANES 1999–2000, this objective has been met for non-Hispanic white and Mexican-American women but has not been met for

TABLE 2. Median serum (in ng/mL) and red blood cell (RBC) folate concentrations (in ng/mL RBC) for women aged 15–44 years, by race/ethnicity — National Health and Nutrition Examination surveys, United States, 1988–1994 and 1999–2000

	No	n-Hispa	nic white	No	n-Hispa	nic black	Me	merican†	
	No.	ng/mL	(95% CI*)	No.	ng/mL	(95% CI)	No.	ng/mL	(95% CI)
Serum folate									
1988-1994	1,582	5.1	(4.7- 5.5)	1,779	4.0	(3.9-4.2)	1,648	4.4	(4.2 - 4.8)
1999-2000	543	13.8	(12.5-15.1)	359	10.2	(9.7-10.6)	584	11.4	(10.1–12.8)
RBC folate									
1988-1994	1,589	169.2	(160.0-177.6)	1,785	123.6	(121.1-128.4)	1,631	157.2	(147.5-167.0)
1999–2000	545	278.1	(259.5–296.7)	363	213.8	(195.5–232.0)	586	247.9	(233.0-262.8)

^{*}Confidence interval.

Numbers for other Hispanic women were too small for meaningful analysis.

non-Hispanic black women. For the number of pregnancies affected by NTDs to be reduced further, all women of child-bearing age capable of becoming pregnant should consume the PHS-recommended level of folic acid daily (1).

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Progress Toward Global Dracunculiasis Eradication, June 2002

In 1986, when the World Health Assembly first adopted a resolution calling for the eradication of dracunculiasis (Guinea worm disease), an estimated 3.5 million persons in 20 countries had the disease, and approximately 120 million persons were at risk for infection (1,2). By December 2001, annual incidence of dracunculiasis had decreased approximately 98%, and seven countries (Cameroon, Chad, India, Kenya, Pakistan, Senegal, and Yemen) in which dracunculiasis had been endemic previously had eliminated the disease (3). This report describes the status of the global Dracunculiasis Eradication Program (DEP)* as of June 2002. The findings

indicate that DEP has succeeded in reducing incidence of dracunculiasis substantially; the disease can be eradicated if the remaining 13 countries in which it is endemic detect and contain transmission from the final cases.

For surveillance purposes, village-based health-care workers search for infected persons in each village in which disease is endemic and complete a register that provides a basis for monthly zonal, district, and national surveillance reports (3). During 2001, dracunculiasis was endemic in 13 African countries (Benin, Burkina Faso, Central African Republic, Côte d'Ivoire, Ethiopia, Ghana, Mali, Mauritania, Niger, Nigeria, Sudan, Togo, and Uganda) (2002 population: 353.5 million). These countries reported 63,717 cases from 6,122 villages (4); 3,921 (64%) of these villages were in Sudan, which reported 49,471 (78%) cases.

During January-June 2002, a total of 21,164 cases were reported, including 14,986 (71%) from Sudan. In countries other than Sudan, 6,158 indigenous cases were reported during January-June 2002, a decrease of 26% from the 8,349 cases those countries reported during the same period in 2001 and 53% from the 13,142 cases reported during the same period in 2000 (5). During January–June 2002, Ghana (3,076 cases) and Nigeria (1,993 cases) accounted for 82% of the cases reported outside of Sudan; 2,005 (33%) cases were reported from five districts in Ghana's northern region. A total of 27 cases were exported from one country to another, including 16 from Sudan, five from Togo, four from Ghana, one from Nigeria, and one from Burkina Faso. Mauritania has reported two indigenous cases of dracunculiasis, Uganda has reported four cases, Benin and Ethiopia appear close to interrupting transmission, and dracunculiasis is now confined to relatively restricted areas in Côte d'Ivoire and Mali. In addition, the World Health Organization (WHO) is verifying the occurrence of endemic transmission of dracunculiasis and the extent of the disease in the Central African Republic. During January-June 2002, the incidence of dracunculiasis in southeastern Nigeria, the country's most highly endemic zone, declined 80% compared with the same period in 2001.

Interventions in all 13 countries, including those parts of Sudan not affected by the civil war, have been intensified since mid-2000. For example, cloth filters were distributed in 13 countries to all households in 63% of villages in which the disease is endemic and in 85% of such villages excluding Sudan (Table) (5,6). During January–June 2002, external advisors provided programs with 176 person-months of in-country supervisory assistance compared with 88 personmonths during 2000. To prevent further transmission of the infection, some national eradication programs (e.g., in Togo and Ghana) are emphasizing the voluntary physical isolation

^{*}Major program partners include the ministries of health in 20 countries in which dracunculiasis is or was endemic, The Carter Center, United Nations Children's Fund (UNICEF), World Health Organization, Bill and Melinda Gates Foundation, other bilateral and private donors, U.S. Peace Corps, and CDC.

TABLE. Number of indigenous dracunculiasis cases reported, number of villages with endemic disease*, and percentage of villages with endemic disease, by country and intervention[†], January–June 2002

			Percentage of villages with endemic disease									
Country	No. indigenous cases reported	Reported number of villages with endemic disease	Reporting monthly	With filters in all households	Using Abate®	With ≥1 source of safe water	Provided health education	% of cases contained				
Sudan	14,986	5,110	57	52	1	49	75	51				
Ghana	3,076	1,047	97	79	17	43	96	67				
Nigeria	1,993	890	99	98	33	55	NA§	64				
Togo	531	212	100	93	86	NA	NA	63				
Burkina Faso	259	211	92	56	24	82	64	78				
Côte d'Ivoire	182	35	100	65	65	65	70	98				
Benin	50	46	94	78	80	80	80	93				
Mali [¶]	31	120	100	85	12	35	100	65				
Ethiopia	17	15	100	86	100	33	100	71				
Niger	13	50	100	100	17	54	100	100				
Uganda	4	6	100	77	54	65	100	88				
Mauritania	2	25	100	96	4	77	100	100				

^{*}As of month of last report.

of patients in health facilities or temporary structures when worms are emerging.

Reported by: The Carter Center, Atlanta, Georgia. World Health Organization Collaborating Center for Research, Training and Eradication of Dracunculiasis; Div of Parasitic Diseases, National Center for Infectious Diseases, CDC.

Editorial Note: Dracunculiasis is a parasitic infection caused by Dracunculus medinensis. Persons become infected by drinking water from ponds contaminated by copepods (water fleas) that contain immature forms of the parasite. A year after entering the infected person, adult worms 1-meter (approximately 40 inches) long emerge through skin lesions, usually on the lower limbs, which frequently develop severe secondary bacterial infections. No effective treatment or vaccine for the disease exists, and infected persons do not become immune to future infections by the parasite. However, dracunculiasis can be prevented by filtering drinking water through a finely woven cloth, by treating contaminated water with the larvicide Abate[®] (temephos), by educating persons to avoid entering water sources when worms are emerging from their bodies, and by providing clean water from borehole wells or from protected hand-dug wells.

During January–June 2002, dracunculiasis continued to decline; the two major remaining endemic foci of the disease are in southern Sudan and northern Ghana. Increased efforts to stop transmission of dracunculiasis in northern Ghana are being carried out by the government and its partners (i.e., The Carter Center, United Nations Children's Fund [UNICEF], WHO, U.S. Peace Corps, Ghana Red Cross

Society, and various bilateral donors and nongovernment organizations involved with providing safe sources of drinking water). These efforts are expected to result in reductions similar to those recorded in southeast Nigeria. In southern Sudan, the 19-year-old civil war is the main reason for the high rate of disease. If the intensified political negotiations now under way between the two sides in Sudan succeed in ending hostilities, full access to the final areas of endemic dracunculiasis in southern Sudan might be possible soon. After the war ends and health-care workers gain access to this area, at least 4–5 years will be required to eliminate dracunculiasis, given the extent to which the disease is endemic and southern Sudan's enormous size, geographic barriers, and poor infrastructure and communications networks. With the devotion of sufficient resources and the resolution of civil conflict, Sudan and the other countries in which dracunculiasis is endemic can eradicate this disease.

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Data are provisional.

No current data available.

Interventions for Ansongo, Gao, and Tominian districts.

West Nile Virus Activity — United States, September 5–11, 2002, and Texas, January 1–September 9, 2002

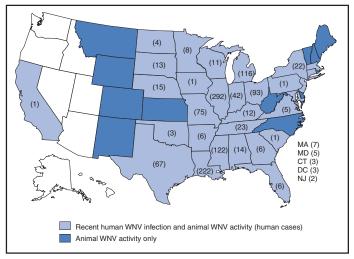
This report summarizes West Nile virus (WNV) surveillance data reported to CDC through ArboNET and by states and other jurisdictions as of 7:30 a.m. Mountain Daylight Time, September 11, 2002.

United States

During the reporting period of September 5–September 11, a total of 464 laboratory-positive human cases of WNVassociated illness were reported from Illinois (n=127), Michigan (n=87), Ohio (n=53), Missouri (n=38), Indiana (n=32), Texas (n=24), Mississippi (n=18), Louisiana (n=17), Nebraska (n=11), New York (n=nine), South Dakota (n=six), Massachusetts (n=five), Minnesota (n=five), Wisconsin (n=five), Florida (n=four), Tennessee (n=four), Arkansas (n=three), Maryland (n=three), Connecticut (n=two), the District of Columbia (n=two), Kentucky (n=two), New Jersey (n=two), Virginia (n=two), Alabama (n=one), California (n=one), and Oklahoma (n=one). During this period, New Jersey reported its first human cases for 2002, and California reported its first WNV activity ever. During the same period, WNV infections were reported in 794 dead crows, 625 other dead birds, 533 horses, and 630 mosquito pools.

During 2002, a total of 1,201 human cases with laboratory evidence of recent WNV infection have been reported from Illinois (n=292), Louisiana (n=222), Mississippi (n=122), Michigan (n=116), Ohio (n=93), Missouri (n=75), Texas (n=67), Indiana (n=42), Tennessee (n=23), New York (n=22), Nebraska (n=15), Alabama (n=14), South Dakota (n=13), Kentucky (n=12), Wisconsin (n=11), Minnesota (n=eight), Massachusetts (n=seven), Arkansas (n=six), Florida (n=six), Georgia (n=six), Maryland (n=five), Virginia (n=five), North Dakota (n=four), Connecticut (n=three), the District of Columbia (n=three), Oklahoma (n=three), New Jersey (n=two), California (n=one), Iowa (n=one), Pennsylvania (n=one), and South Carolina (n=one) (Figure 1). Among the patients with available data, the median age was 54 years (range: 9 months-99 years); 532 (53%) were male, and the dates of illness onset ranged from June 10 to September 6. A total of 43 human deaths have been reported. The median age of decedents was 79 years (range: 48–99 years); 26 (60%) deaths were among men. In addition, 4,037 dead crows and 2,857 other dead birds with WNV infection were reported from 39 states, New York City, and the District of Columbia; 1,692 WNV infections in mammals (all equines) have been reported from 29 states (Alabama, Arkansas, Colorado, Florida, Georgia, Illinois, Indiana, Iowa, Kansas,

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



* As of 7:00 a.m. Mountain Daylight Time, September 11, 2002.

Kentucky, Louisiana, Maryland, Minnesota, Mississippi, Montana, Nebraska, New Mexico, New York, North Dakota, Ohio, Oklahoma, Pennsylvania, South Carolina, South Dakota, Tennessee, Texas, Vermont, Virginia, and Wyoming). During 2002, WNV seroconversions have been reported in 173 sentinel chicken flocks from Florida, Nebraska, Pennsylvania, and New York City; 2,577 WNV-positive mosquito pools have been reported from 21 states (Alabama, Arkansas, Connecticut, Delaware, Georgia, Illinois, Indiana, Kentucky, Maryland, Massachusetts, Mississippi, Nebraska, New Hampshire, New Jersey, New York, Ohio, Pennsylvania, South Dakota, Texas, Vermont, and Virginia), New York City, and the District of Columbia.

Texas

During January 1–September 9, 2002, the Texas Department of Health (TDH) identified 67 persons with WNV-associated encephalitis; 24 cases were laboratory confirmed, and 43 were classified as probable. One case was fatal.

Among 63 patients with available data, the median age was 55 years (range: 20–85 years); 57% were male. Cases have been reported in 12 counties, with 42 cases reported in Harris County (Figure 2). The attack rate was 0.3 per 100,000 population in Texas and 1.2 in Harris County. In all but two counties, human cases were preceded by the identification of WNV in other species.

WNV activity has been detected in 76 of Texas' 254 counties. Positive mosquito pools (132) have been found in 11 counties, positive birds (210) in 13 counties, and WNV-associated encephalitis in 297 horses in 62 counties.

(Continued on page 823)

FIGURE I. Selected notifiable disease reports, United States, comparison of provisional 4-week totals ending September 7, 2002, with historical data

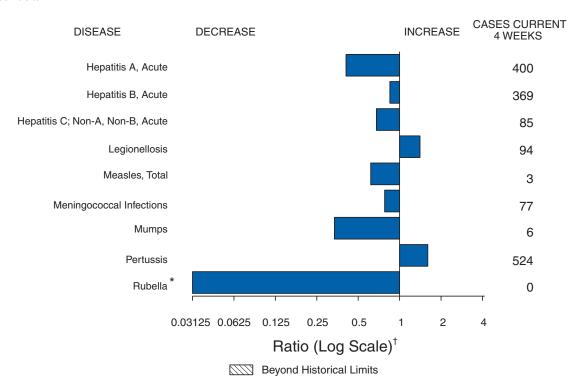


TABLE I. Summary of provisional cases of selected notifiable diseases, United States, cumulative, week ending September 7, 2002 (36th Week)*

		Cum. 2002	Cum. 2001		Cum. 2002	Cum. 2001
Anthrax		2	1	Encephalitis: West Nile [†]	134	25
Botulism:	foodborne	11	33	Hansen disease (leprosy)†	54	48
	infant	40	67	Hantavirus pulmonary syndrome†	10	6
	other (wound & unspecified)	15	12	Hemolytic uremic syndrome, postdiarrheal†	125	109
Brucellosis†	, , , , , ,	48	91	HIV infection, pediatric†§	116	127
Chancroid		50	25	Plague	-	2
Cholera		6	4	Poliomyelitis, paralytic	-	-
Cyclosporiasi	S [†]	145	100	Psittacosis†	17	9
Diphtheria		1	2	Q fever [†]	24	18
Ehrlichiosis:	human granulocytic (HGE)†	223	150	Rabies, human	2	1
	human monocytic (HME)†	88	84	Streptococcal toxic-shock syndrome [†]	61	58
	other and unspecified	5	4	Tetanus	18	26
Encephalitis:	California serogroup viral†	43	43	Toxic-shock syndrome	79	85
	eastern equine [†]	1	5	Trichinosis	12	13
	Powassan [†]	-	-	Tularemia [†]	49	101
	St. Louis [†]	-	63	Yellow fever	1	-
	western equine [†]	-	-			

^{-:} No reported cases.

^{*} No rubella cases were reported for the current 4-week period yielding a ratio for week 36 of zero (0).
† Ratio of current 4-week total to mean of 15 4-week totals (from previous, comparable, and subsequent 4-week periods for the past 5 years). The point where the hatched area begins is based on the mean and two standard deviations of these 4-week totals.

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

Not notifiable in all states.

^{\$} Updated monthly from reports to the Division of HIV/AIDS Prevention — Surveillance and Epidemiology, National Center for HIV, STD, and TB Prevention (NCHSTP). Last update July 28, 2002.

TABLE II. Provisional cases of selected notifiable diseases, United States, weeks ending September 7, 2002, and September 8, 2001 (36th Week)*

				<u> </u>		<u> </u>	Esch	nerichia coli, E	nterohemorrha	gic
	Δ1	DS	Chlai	nydia†	Cryptos	poridiosis	01	57:H7		in Positive, p non-O157
Reporting Area	Cum. 2002§	Cum. 2001	Cum. 2002	Cum. 2001	Cum. 2002	Cum. 2001	Cum. 2002	Cum. 2001	Cum. 2002	Cum. 2001
UNITED STATES	24,713	26,945	512,125	526,166	1,614	2,495	2,029	2,003	93	96
NEW ENGLAND	1,011	981	18,141	16,435	108	97	172	183	27	29
Maine	23	26	1,097	891	9	11	25	23	5	-
N.H. √t.	20 8	23 11	1,083 591	947 420	21 19	5 26	19 5	23 11	1	3 1
Mass.	519	532	7,440	7,056	32	42	80	90	8	9
R.I.	71	70	1,872	2,005	14	3	9	9	-	-
Conn.	370	319	6,058	5,116	13	10	34	27	13	16
MID. ATLANTIC	5,619 404	6,909 1,042	57,023	57,442 9,055	187 69	212 63	153 115	138 84	-	-
Jpstate N.Y. N.Y. City	3,210	3,732	11,414 19,652	20,692	78	88	9	13	-	-
N.J.	925	1,153	7,368	10,115	8	11	29	41	-	-
Pa.	1,080	982	18,589	17,580	32	50	N	N	-	-
E.N. CENTRAL	2,494	1,909	87,908	96,483	404	1,220	451	519	10	6
Ohio Ind.	453 347	360 223	20,995 11,324	25,054 10,531	90 27	113 54	93 38	107 56	8	4
III.	1,170	879	23,346	29,411	54	451	108	132	-	_
Mich.	398	328	22,096	20,349	74	122	86	67	2	2
Nis.	126	119	10,147	11,138	159	480	126	157	-	-
W.N. CENTRAL	421	572	29,055	26,658	246	289	326	306	17	27
Лinn. owa	90 54	101 65	6,383 3,420	5,468 3,139	122 28	102 62	113 72	113 53	14	24
ио.	189	263	10,305	9,605	24	33	45	40	N	N
N. Dak.	1	2	682	702	6	9	3	13	-	1
S. Dak. Nebr.	3 43	19 58	1,460 2,263	1,218 2,343	17 39	6 75	31 38	25 46	1 2	1 1
Kans.	43	64	4,542	2,343 4,183	10	2	24	16	-	-
S. ATLANTIC	7,537	8,169	97,981	101,963	226	250	176	157	22	18
Del.	131	184	1,796	1,947	2	3	4	3	-	-
Md.	1,066	1,083	10,434	10,133	17	29	18	14	-	-
D.C. /a.	371 538	586 714	2,265 10,376	2,189 12,688	4 9	10 15	32	41	2	2
N. Va.	58	56	1,627	1,612	2	2	4	9	-	-
V.C.	555	549	16,757	15,298	25	19	29	35	-	-
S.C. Ga.	547 1,160	489 930	8,335 19,528	10,945 21,977	4 100	6 111	4 47	12 23	10	9
aa. Fla.	3,111	3,578	26,863	25,174	63	55	38	20	10	7
E.S. CENTRAL	1,128	1,257	32,026	33,866	91	35	73	102	_	_
<y.< td=""><td>173</td><td>244</td><td>5,607</td><td>6,134</td><td>3</td><td>3</td><td>19</td><td>54</td><td>-</td><td>-</td></y.<>	173	244	5,607	6,134	3	3	19	54	-	-
Tenn.	483	390	11,030	10,316	47	10	31	27	-	-
Ala. Miss.	197 275	308 315	8,266 7,123	9,163 8,253	37 4	11 11	16 7	13 8	-	
W.S. CENTRAL	2,696	2,782	73,703	73,889	25	88	42	145	_	_
Ark.	163	141	4,509	5,170	7	5	7	9	-	-
_a.	693	588	13,451	12,584	4	7	1	7	-	-
Okla. Tex.	133 1,707	170 1,883	7,607 48,136	7,235 48,900	9 5	9 67	16 18	19 110	-	-
MOUNTAIN	790					121	220	190	10	10
Mont.	790	960 14	31,539 1,387	31,292 1,340	119 4	8	16	190	12	10
daho	18	17	1,599	1,252	21	12	31	38	5	2
Nyo.	6	2	643	574	8	4	8	6	1	-
Colo. N. Mex.	157 53	211 88	9,506 4,431	8,938 4,217	42 18	33 18	58 5	71 10	2 3	5 3
Ariz.	327	383	9,797	9,882	12	6	28	19	1	-
Jtah Nov	43	82 163	1,755 2,421	1,586	11	35 5	53	24 11	-	-
Nev.	178	163		3,503	3	5	21		-	-
PACIFIC Wash.	3,017 302	3,406 361	84,749 9,621	88,138 9,299	208 37	183 U	416 97	263 65	5	6
Oreg.	216	134	4,733	5,055	28	28	147	43	5	6
Calif.	2,416	2,857	65,062	69,239	142	151	133	139	-	-
Alaska Hawaii	17 66	16 38	2,427 2,906	1,852 2,693	1	1 3	6 33	4 12	-	-
	2	9	۷,500	280	'	3	33 N	N		=
Guam P.R.	668	815	1,695	280 1,777	-	-	- IN	1	-	-
V.I.	66	2	98	119				-	. -	
Amer. Samoa C.N.M.I.	U 2	U	U 122	U U	U	U U	U	U U	U	U U
J.14.IVI.I.	2	U	132	U		U		ds.	-	U

N: Not notifiable. U: Unavailable. -: No reported cases. C.N.M.I.: Commonwealth of Northern Mariana Islands.

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

† Chlamydia refers to genital infections caused by *C. trachomatis*.

§ Updated monthly from reports to the Division of HIV/AIDS Prevention — Surveillance and Epidemiology, National Center for HIV, STD, and TB Prevention. Last update July 28, 2002.

TABLE II. (*Continued*) Provisional cases of selected notifiable diseases, United States, weeks ending September 7, 2002, and September 8, 2001 (36th Week)*

	Foobox	iahia aali						s influenzae,	
		ichia coli, emorrhagic					Inva	sive Age <5	Years
		cin Positive, ogrouped	Giardiasis	Gono	rrhea		Ages, erotypes	Sero	
Reporting Area	Cum. 2002	Cum. 2001	Cum. 2002	Cum. 2002	Cum. 2001	Cum. 2002	Cum. 2001	Cum. 2002	Cum. 2001
UNITED STATES	33	8	10,438	216,674	242,652	1,091	1,062	18	19
NEW ENGLAND	-	1	1,089	5,092	4,579	77	79	-	1
Maine N.H.	-	-	131 29	88 80	100 123	1 7	1 4	-	-
Vt.	-	1	84	70	48	6	3	-	-
Mass.	-	-	533	2,266	2,168	38	37	-	1
R.I. Conn.	-	-	101 211	596 1,992	525 1,615	10 15	3 31	-	-
MID. ATLANTIC	-	1	2,242	25,726	28,214	189	152	3	3
Upstate N.Y.	-	-	765	5,882	5,528	86	51	2	-
N.Y. City N.J.	-	-	877 220	7,987 4,082	8,644 5,278	45 38	39 35	-	-
Pa.	-	1	380	7,775	8,764	20	27	1	3
E.N. CENTRAL	12	2	1,885	42,580	50,270	171	196	3	2
Ohio Ind.	11	2	601	11,547 4,831	13,760 4,479	63 35	53 37	- 1	1
III.	-	-	421	4,831 12,587	4,479 16,292	35 56	69	-	-
Mich.	1	-	567	9,963	11,645	10	12	2	-
Wis.	-	-	296	3,652	4,094	7	25	-	1
W.N. CENTRAL Minn.	-	2	1,272 472	11,330 1,902	11,384 1,746	44 31	53 28	1 1	1
lowa	-	-	199	802	890	1	-	-	-
Mo.	N	N	323	5,831	5,860	9	16	-	-
N. Dak. S. Dak.	-	2	11 48	37 173	25 189	-	6	-	-
Nebr.	-	-	116	707	831	-	2	-	1
Kans.	-	-	103	1,878	1,843	3	1	-	-
S. ATLANTIC	-	-	1,920	56,586	63,337	282	259	4	1
Del. Md.	-	-	32 76	1,094 5,787	1,139 6,043	- 65	64	2	-
D.C.	-	-	29	1,891	1,994	-	-	-	-
Va. W. Va.	-	-	179 35	6,224 661	7,581 445	22 13	20 10	-	1
N.C.	-	-	-	11,104	11,777	27	41	-	-
S.C.	-	-	70	5,052	7,947	9	4	-	-
Ga. Fla.	-	-	604 895	10,790 13,983	12,115 14,296	74 72	66 54	2	-
E.S. CENTRAL	7	1	230	18,335	21,999	47	61	1	_
Ky.	7	i	-	2,318	2,424	4	2	-	-
Tenn. Ala.	-	-	102 128	6,374 5,373	6,918 7,213	24 14	31 26	- 1	-
Miss.	-	-	-	4,270	5,444	5	2	-	-
W.S. CENTRAL	_	-	144	32,725	36.419	42	40	2	1
Ark.	-	-	99	2,630	3,255	2	-	-	-
La. Okla.	-	-	2 43	8,327 3,234	8,731 3,336	3 32	6 33	-	-
Tex.	-	-	-	18,534	21,097	5	1	2	1
MOUNTAIN	14	1	1,011	6,686	7,153	136	115	2	6
Mont.	-	-	60	60	78	-	-	-	-
Idaho Wyo.	-	-	75 21	58 42	55 47	2 1	1 1	-	-
Colo.	14	1	328	2,303	2,172	27	32	-	-
N. Mex. Ariz.	-	-	116 130	904 2,412	673 2,721	21 63	16 49	- 1	1 3
Utah	-	-	192	173	125	15	49 5	-	-
Nev.	-	-	89	734	1,282	7	11	1	2
PACIFIC	-	-	645	17,614	19,297	103	107	2	4
Wash. Oreg.	-	- -	239 275	1,894 583	2,073 782	2 50	2 31	1 -	-
Calif.	-	-	-	14,297	15,735	22	47	1	4
Alaska Hawaii	-	-	64 67	398 442	273 434	1 28	6 21	-	-
	-	-		44∠		∠8	۷۱	-	-
Guam P.R.	-	- -	20	250	32 398	1	1	- -	-
V.I. Amer. Samoa			-	25	20	-	-	. .	
	U	U	U	U	U	U	U	U	U

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

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

TABLE II. (*Continued*) Provisional cases of selected notifiable diseases, United States, weeks ending September 7, 2002, and September 8, 2001 (36th Week)*

	Ha	emophilus in	fluenzae, Invas	ive						
		<u> </u>	5 Years		1	Н	epatitis (Viral,	Acute). By Ty	pe	
	Non-Se	rotype B	Unknown S	Serotype	,	Α		В	C; Non-A	, Non-B
	Cum.	Cum.	Cum.	Cum.	Cum.	Cum.	Cum.	Cum.	Cum.	Cum.
Reporting Area	2002	2001	2002	2001	2002	2001	2002	2001	2002	2001
UNITED STATES	176	175	15	22	5,692	6,578	4,619	4,879	4,217	2,815
NEW ENGLAND Maine	8 -	13	-	-	218 7	414 8	163 6	89 5	20	30
N.H.	-	1	-	-	11	11	13	10	-	-
Vt. Mass.	5	7	-	-	1 96	8 182	3 84	5 18	12 8	6 24
R.I.	-	-	-	-	29	26	21	17	-	
Conn.	3	5	-	-	74	179	36	34	-	-
MID. ATLANTIC Upstate N.Y.	24 10	23 7	-	3 1	663 134	850 172	946 92	941 83	1,147 41	890 19
N.Y. City	7	6	-	-	275	302	473	439	-	-
N.J. Pa.	4 3	3 7	-	2	87 167	213 163	225 156	208 211	1,083 23	823 48
E.N. CENTRAL	27	32	1	2	778	833	579	668	72	126
Ohio	7	9	1	-	248	165	579 78	82	6	8
Ind.	7	6	-	1	35	64	31	36	-	1
III. Mich.	11 1	11	-	1	201 170	311 238	83 387	98 422	10 56	9 108
Wis.	1	6	-	-	124	55	-	30	-	-
W.N. CENTRAL	2	2	3	6	237	268	150	141	634	839
Minn. Iowa	2	1	1	2	32 60	24 26	18 12	12 16	- 1	7
Mo.	-	-	2	4	66	60	82	81	619	821
N. Dak. S. Dak.	-	1	-	-	1 3	2 2	4 1	- 1	- 1	-
Nebr.	-	-	-	-	16	29	20	20	9	5
Kans.	-	-	-	-	59	125	13	11	4	6
S. ATLANTIC	40	36	2	5	1,771	1,324	1,215	927	126	52
Del. Md.	3	5	-	1	9 214	9 168	7 88	21 96	5 9	3 6
D.C.	-	-	-	-	56	33	14	11	-	-
Va. W. Va.	3 1	5 1	1	-	74 15	94 9	140 18	115 20	5 2	9
N.C.	3	2	-	4	164	132	175	133	22	16
S.C. Ga.	2 16	1 14	-	-	49 374	61 665	70 338	24 282	4 29	5
Fla.	12	8	1	-	816	153	365	225	50	13
E.S. CENTRAL	10	12	1	2	181	277	233	326	136	165
Ky.	1	6	-	1	40 70	89	38	36	3	6
Tenn. Ala.	6 3	5	1	1	70 29	104 64	83 54	162 65	26 4	54 3
Miss.	-	1	-	-	42	20	58	63	103	102
W.S. CENTRAL	10	5	-	-	253	671	354	578	1,933	568
Ark. La.	1 1	-	-	-	29 25	56 73	64 33	67 89	5 17	6 120
Okla.	6	5	-	-	38	94	22	79	4	4
Tex.	2	-	-	-	161	448	235	343	1,907	438
MOUNTAIN Mont.	32	19	7	1	420 11	544 9	436 4	340 2	67	43 1
daho	1	-	-	-	23	48	6	10	-	2
Wyo. Colo.	2	2	-	-	2 71	6 61	14 64	1 74	5 30	5 6
N. Mex.	6	7	1	1	15	31	107	96	1	11
Ariz.	15	8	5	-	221	278	169	105	4	9
Utah Nev.	5 3	2	1	-	41 36	57 54	33 39	18 34	4 23	2 7
PACIFIC	23	33	1	3	1,171	1,397	543	869	82	102
Wash.	1	1	-	1	119	93	48	97	16	16
Oreg. Calif.	5 13	5 25	1	1	51 992	85 1,191	93 393	118 631	15 51	13 73
Alaska	1	1	-	-	7	14	3	8	-	-
Hawaii -	3	1	-	1	2	14	6	15	-	-
Guam P.R.	-	1	-	-	- 76	1 141	- 68	- 185	-	1
V.I.	-	-	-	-	-	-	-	-	-	-
Amer. Samoa	U	U U	U	U U	U	U U	U 37	U U	U	U U

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

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

TABLE II. (Continued) Provisional cases of selected notifiable diseases, United States, weeks ending September 7, 2002, and September 8, 2001 (36th Week)*

	Legion	ellosis	Listeriosis		Lvme	Disease	Ma	laria	Meas Tot	
Reporting Area	Cum. 2002	Cum. 2001	Cum. 2002	Cum. 2001	Cum. 2002	Cum. 2001	Cum. 2002	Cum. 2001	Cum. 2002	Cum. 2001
UNITED STATES	641	677	325	408	8,542	10,409	809	1,043	19 [†]	97§
NEW ENGLAND	55	39	41	34	1,869	3,071	44	68	-	5
/laine	2	5	4	-	53	-	4	4	-	-
I.H.	4	7	4	2	166	55	6	2	-	-
/t. ∕lass.	21 19	4 12	2 20	2 18	17 701	12 944	2 15	1 35	-	1 3
R.I.	1	2	1	1	186	267	3	6	-	-
Conn.	8	9	10	11	746	1,793	14	20	-	1
IID. ATLANTIC	151	153	66	66	5,440	5,495	178	304	6	18
Ipstate N.Y.	53 26	40	32 14	21	3,411 82	1,945 59	30 110	43 178	1	4 6
.Y. City .J.	26 18	26 14	7	15 12	390	1,819	20	48	5	1
a.	54	73	13	18	1,557	1,672	18	35	-	7
.N. CENTRAL	166	183	39	62	57	630	96	131	3	10
Ohio	67	81	15	10	45	32	16	21	1	3
nd. I.	14	13 20	6 1	5 21	12	18 29	8 24	14 56	2	4 3
ı. 1ich.	62	35	14	19	-	29 5	37	25	-	-
Vis.	23	34	3	7	U	546	11	15	-	-
V.N. CENTRAL	37	42	9	11	178	271	46	29	3	4
linn.	9	9	-	.	111	215	16	6	1	2
owa No.	7 10	7 17	1 5	1 6	28 28	24 26	2 13	5 10	2	2
I. Dak.	-	17	1	-	-	-	13	-	-	-
S. Dak.	2	3	-	-	1	-	-	-	-	-
lebr. (ans.	9	4 1	1 1	1 3	5 5	4 2	5 9	2 6	-	-
									-	-
i. ATLANTIC Del.	125 7	113 4	57	53 2	843 110	744 123	245 2	214 1	1	5
/ld.	20	27	11	9	481	460	79	89	-	3
).C.	5	7	-	-	17	8	14	13	-	-
′a. V.Va.	16 N	18 N	4	9 5	67 12	100 10	17 3	41 1	-	1
I.C.	7	7	4	2	92	29	16	11	-	-
3.C.	5	6	8	4	11	3	6	5	-	-
ia. Ia.	10 55	9 35	13 17	11 11	1 52	11	59 49	37 16	1	1
.S. CENTRAL	23	48	10	18	31	44	13	23		2
.S. CENTRAL Ý.	9	11	2	6	14	18	5	23 8	-	2
enn.	8	21	5	7	17	13	3	8	-	-
∖la. ⁄liss.	6	12 4	3	5	-	7 6	3	4 3	-	-
							2		-	-
V.S. CENTRAL ırk.	8	19	11	30 1	16 2	67	10 1	70 3	1 -	1 -
a.	1	6	-	-	1	4	3	5	-	-
Okla.	3	3	6	2	-	-	6	2	-	-
ex.	4	10	5	27	13	63	-	60	1	1
MOUNTAIN Mont.	28 3	33	21	29	19	8	35 1	39 2	1	1
iont. Iaho	-	2	2	1	3	4	-	3	-	1
/yo.	1	2	-	1	1	1	-	-	-	-
Colo. I. Mex.	6 1	11 2	4 2	8 6	6 1	-	19 2	20 3	-	-
riz.	7	8	9	6	2	-	6	3	-	-
tah	8	5	3	1	5	-	4	3	-	-
ev.	2	3	1	6	1	3	3	5	1	-
ACIFIC	48	47	71	105	89	79	142	165	4	51
√ash. ∂reg.	5 N	7 N	8 8	7 6	7 12	6 8	14 7	5 12	-	15 2
alif.	43	35	49	88	68	63	113	137	3	27
laska	-	1	-	-	2	2	2	1	-	-
awaii	-	4	6	4	N	N	6	10	1	7
uam	-	-	-	-	- NI	- NI	-	-	-	-
R. I.	-	2	1 -	-	N -	N -	-	4	-	-
mer. Samoa	U	U	U	U	U	U	U	U	U	U
N.M.I.	-	U	-	U	-	U	-	U	-	U

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

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

† Of 19 cases reported, eight were indigenous and 11 were imported from another country.

§ Of 97 cases reported, 46 were indigenous and 51 were imported from another country.

TABLE II. (*Continued*) Provisional cases of selected notifiable diseases, United States, weeks ending September 7, 2002, and September 8, 2001 (36th Week)*

(36th Week)*	Meningo				Do-		Dahiaa	A I
Demanting Area	Cum.	Cum.	Cum.	Cum.	Cum.	Cum.	Cum.	Cum.
Reporting Area UNITED STATES	2002 1,215	2001 1,729	2002 182	2001 170	2002 5,004	2001 3,553	2002 4,090	2001 4,989
NEW ENGLAND	74	80	7	1	412	308	620	505
Maine N.H.	7 10	1 10	4	-	7 9	- 14	40 30	47 15
Vt.	4	5	-	-	81	25	77	47
Mass. R.I.	35 5	46 3	2	1 -	285 10	247 5	200 50	188 46
Conn.	13	15	1	-	20	17	223	162
MID. ATLANTIC Upstate N.Y.	122 37	186 50	17 2	20 3	230 169	241 113	768 484	891 559
N.Y. City	20	30	1	11	8	39	10	23
N.J. Pa.	23 42	31 75	1 13	2 4	3 50	13 76	116 158	143 166
E.N. CENTRAL	160	262	18	21	598	532	105	110
Ohio Ind.	61 25	72 29	3 2	1 1	303 67	224 50	25 27	36 1
III.	31	63	6	16	95	52	21	21
Mich. Wis.	31 12	57 41	6 1	2 1	39 94	49 157	32	37 15
W.N. CENTRAL	111	109	13	7	470	183	291	272
Minn. Iowa	26 14	16 21	3 1	3	208 125	70 17	30 57	30 64
Mo.	39	40	3	-	91	73	38	32
N. Dak. S. Dak.	2	5 5	1 -	-	- 5	3	12 47	30 40
Nebr. Kans.	24 6	11 11	- 5	1 3	4 37	4 16	107	4 72
S. ATLANTIC	216	270	21	27	299	174	1,735	1,705
Del.	6	3	-	-	2	-	24	30
Md. D.C.	7	35	4 -	4 -	47 1	30 1	168	342
Va. W. Va.	29 4	31 11	3	6	107 29	30 2	355 133	298 107
N.C.	25	58	1	3	28	51	508	411
S.C. Ga.	19 29	29 37	2 4	2 8	31 17	25 17	87 284	87 295
Fla.	97	66	7	4	37	18	176	135
E.S. CENTRAL	69 11	109 19	12 4	6 1	160 67	100 31	91 18	178 19
Ky. Tenn.	28	44	2	-	59	38	66	106
Ala. Miss.	18 12	30 16	3 3	- 5	27 7	27 4	7	51 2
W.S. CENTRAL	141	263	16	9	1,323	338	88	845
Ark. La.	21 24	18 64	- 1	2	435 6	16 5	2	7
Okla.	17	25	-	-	65	12	86	52
Tex.	79	156	15	7	817	305	-	786
MOUNTAIN Mont.	74 2	75 3	13 -	12 1	640 4	1,073 20	202 10	207 31
Idaho Wyo.	3	7 4	1	1 1	52 10	167 1	24 15	15 26
Colo.	23	29	2	3	252	229	35	-
N. Mex. Ariz.	4 23	9 11	1 1	2 1	136 105	93 489	7 101	12 114
Utah	4	7	5	1	44 37	61	7	8
Nev. PACIFIC	15 248	5 375	3 65	2 67	37 872	13 604	3 190	1 276
Wash.	50	52	-	1	324	105	-	-
Oreg. Calif.	36 153	48 262	N 52	N 29	147 383	39 428	3 163	2 236
Alaska	3	2	13	1	4	3	24	38
Hawaii Guam	6	11	13	36	14	29	-	-
P.R.	4	5	-	-	2	-	49	69
V.I. Amer. Samoa	- U	U	- U	- U	U	Ū	U	- U
C.N.M.I.	-	Ü	-	Ü	1	Ü	-	Ü

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

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

TABLE II. (*Continued*) Provisional cases of selected notifiable diseases, United States, weeks ending September 7, 2002, and September 8, 2001 (36th Week)*

(36th Week)*				Ru	bella			
		/lountain d Fever	Ruk	pella		enital pella	Salmor	ellosis
Reporting Area	Cum. 2002	Cum. 2001	Cum. 2002	Cum. 2001	Cum. 2002	Cum. 2001	Cum. 2002	Cum. 2001
UNITED STATES	622	394	8	16	2	-	24,472	25,940
NEW ENGLAND	-	3	-	-	-	-	1,417	1,759
Maine	-	-	-	-	-	-	100	144
N.H. Vt.	-	1	-	-	-	-	86 47	134 56
Mass.	-	2	-	-	-	-	793	1,026
R.I. Conn.	-	-	-	-	-	-	101 290	85 314
MID. ATLANTIC	35	24	3	7	_	_	2,968	3,474
Upstate N.Y.	7	2	1	1	-	-	973	795
N.Y. City	8	1	-	5	-	-	868	875
N.J. Pa.	9 11	6 15	2	1 -	-	-	433 694	882 922
E.N. CENTRAL	14	15	_	2	_	_	3,600	3,605
Ohio	10	1	-	-	-	-	946	967
Ind.	2	1	-	-	-	-	315	360
III. Mich.	2	12 1	-	2	-	-	1,118 631	1,055 624
Wis.	-	-	-	-	-	-	590	599
W.N. CENTRAL	79	56	-	3	-	-	1,710	1,547
Minn.	2	2	-	-	-	-	400	444
Iowa Mo.	72	52	-	1	-	-	285 604	225 409
N. Dak.	-	-	-	-	-	-	25	43
S. Dak.	4	2	-	-	-	-	70	114
Nebr. Kans.	1	-	-	1	-	-	116 210	117 195
S. ATLANTIC	324	183	_	3	-	_	6,574	5,782
Del.	4	3	-	-	-	-	53	64
Md. D.C.	41	34	-	-	-	-	658 50	565 57
Va.	22	16	-	-	-	-	661	965
W.Va.	1	-	-	-	-	-	93	84
N.C. S.C.	188 43	101 17	-	2	-	-	867 411	818 573
Ga.	18	8	-	-	-	-	1,220	1,111
Fla.	7	4	-	1	-	-	2,561	1,545
E.S. CENTRAL	64	81	-	-	1	-	1,725	1,646
Ky. Tenn.	3 46	2 53	-	-	-	-	229 476	246 412
Ala.	15	13	-	-	-	-	496	441
Miss.	-	13	-	-	-	-	524	547
W.S. CENTRAL	89	23	2	-	-	-	1,753	3,173
Ark. La.	28	5 2	-	-	-	-	604 211	510 552
Okla.	61	16	-	-	-	-	303	292
Tex.	-	-	2	-	-	-	635	1,819
MOUNTAIN	12	9	-	-	-	-	1,390	1,481
Mont. Idaho	1	1 1	-	-	-	-	64 99	50 100
Wyo.	3	2	-	-	-	-	43	52
Colo.	2	1	-	-	-	-	316	411
N. Mex. Ariz.	1	1	-	-	-	-	204 396	186 406
Utah	-	3	-	-	-	-	132	150
Nev.	5	-	-	-	-	-	136	126
PACIFIC	5	-	3	1	1	-	3,335	3,473
Wash. Oreg.	2	-	-	-	-	-	311 253	354 204
Calif.	3	-	3	-	-	-	2,528	2,635
Alaska	-	-	-	-	-	-	42	28
Hawaii	-	-	-	I	1	-	201	252
Guam P.R.	-	-	-	3	-	-	136	19 676
V.I.	-	-	-	-	-	-	-	-
Amer. Samoa	U	U	U	U	U	U	U	U
C.N.M.I.	-	U	-	U	-	U	25	U

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

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

TABLE II. (*Continued*) Provisional cases of selected notifiable diseases, United States, weeks ending September 7, 2002, and September 8, 2001 (36th Week)*

(36th Week)*		Shi	gellosis	Streptococo Invasive,			s pneumoniae, ant, Invasive	Streptococcus pneumoniae, Invasive (<5 Years)		
Reporting Area		Cum. 2002	Cum. 2001	Cum. 2002	Cum. 2001	Cum. 2002	Cum. 2001	Cum. 2002	Cum. 2001	
UNITED STATES	•	10,621	12,475	3,125	2,728	1,549	2,000	165	308	
NEW ENGLAND		213	221	149	172	14	95	2	32	
Maine N.H.		3 8	6 4	20 29	10 N	-	-	- N	N	
Vt. Mass.		135	7	9 77	9 55	4 N	7 N	1 N	- N	
R.I.		8	151 16	14	8	10	3	1	3	
Conn.		59	37	-	90	-	85	-	29	
MID. ATLANTIC Upstate N.Y.		786 193	1,083 384	508 237	506 212	85 75	131 125	49 49	78 78	
N.Y. City		265 197	298 213	125 103	141	U N	U N	U N	U N	
N.J. Pa.		131	188	43	101 52	10	6	- -	IN -	
E.N. CENTRAL		1,129	3,030	552	640	167	135	69	84	
Ohio Ind.		452 64	2,009 157	174 41	162 49	33 129	- 135	1 43	40	
III.		391	419	105	210	2	-	-	44	
Mich. Wis.		119 103	214 231	232	168 51	3 N	- N	N 25	N -	
W.N. CENTRAL		769	1,115	189	281	159	108	36	48	
Minn. Iowa		158 97	323 313	98	126	48 N	50 N	36 N	40 N	
Mo.		122	218	38	58	6	9	-	-	
N. Dak. S. Dak.		15 150	20 122	11	11 9	1 1	5 3	-	8 -	
Nebr. Kans.		161 66	58 61	16 26	32 45	26 77	13 28	N N	N N	
S. ATLANTIC		4,091	1,650	613	457	952	1,073	4	5	
Del.		83	9	2	2	3	3	N	N	
Md. D.C.		798 40	109 43	99 6	N 15	N 48	N 5	N 1	N 3	
Va. W. Va.		627 8	208 8	57 16	62 18	N 36	N 37	N 3	N 2	
N.C.		242	253	105	122	N	N	U	U	
S.C. Ga.		69 1,044	204 221	29 137	9 147	139 257	220 309	N N	N N	
Fla.		1,180	595	162	82	469	499	N	N	
E.S. CENTRAL		876 91	1,086 433	74 13	83 29	103 12	196 23	- N	- N	
Ky. Tenn.		50	71	61	54	91	172	N	N	
Ala. Miss.		472 263	176 406	-	-	-	1 -	N -	N -	
W.S. CENTRAL		776	2,005	101	246	37	227	3	61	
Ark. La.		151 105	438 175	5	- 1	6 31	14 213	- 1	- 61	
Okla.		323	38	35	35	N	N	2	-	
Tex.		197	1,354	61	210	N	N	-	-	
MOUNTAIN Mont.		475 3	657 2	496	286	32	32	2	-	
Idaho Wyo.		5 6	25 4	6 7	7 8	N 9	N 5	N	N	
Colo.		91	166	165	121	-	-	-	-	
N. Mex. Ariz.		96 214	83 272	77 213	61 86	22	25	- N	N	
Utah		26	45	28	3	1	-	2	-	
Nev. PACIFIC		34 1,506	60 1,628	443	- 57	-	2 3	-	-	
Wash.		101	142	65	-	- 	-	N	N	
Oreg. Calif.		77 1,285	80 1,356	N 323	N -	N N	N N	N N	N N	
Alaska Hawaii		3 40	4	55	- 57	-	3	N	N	
Guam		40	46 37	- -	57 1	-	ა -	-	-	
P.R.		5	15	N	N	-	-	N	N	
V.I. Amer. Samoa		Ū	Ū	U	U	-	-	U	U	
C.N.M.I.	U: Unavailable	17	reported cases		Ü	-	-	<u>-</u>	Ü	

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

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

TABLE II. (*Continued*) Provisional cases of selected notifiable diseases, United States, weeks ending September 7, 2002, and September 8, 2001 (36th Week)*

(36th Week)*									
		Syp					Typhoid Fever		
		Primary & Secondary Cum. Cum.		genital Cum.	Tubero Cum.	culosis Cum.	Cum.	Cum.	
Reporting Area	2002	2001	Cum. 2002	2001	2002	2001	2002	2001	
UNITED STATES	4,201	4,057	213	355	7,771	9,297	172	236	
NEW ENGLAND Maine	95 2	36	-	3	260 10	319 12	12	12 1	
N.H.	3	1	-	-	9	11	-	1	
Vt. Mass.	1 64	2 18	-	2	- 146	4 169	9	9	
R.I. Conn.	5 20	7 8	-	1	25 70	42 81	3	- 1	
MID. ATLANTIC	466	344	37	53	1,480	1,545	41	77	
Upstate N.Y. N.Y. City	24 278	15 191	4 15	3 27	221 756	239 777	6 20	14 32	
N.J.	92	78	17	23	332	345	12	27	
Pa.	72	60	1	-	171	184	3	4	
E.N. CENTRAL Ohio	717 98	706 59	29 1	53 2	823 132	959 187	15 5	30 3	
Ind. III.	49 203	116 234	- 21	8 34	76 408	70 454	2 1	2 16	
Mich.	353	278	7	5	166	199	3	5	
Wis. W.N.CENTRAL	14 73	19 65	-	4 9	41 363	49 365	4 7	4 8	
Minn.	34	26	-	2	152	159	3	4	
Iowa Mo.	2 19	4 14	-	- 5	17 102	18 92	1	4	
N. Dak. S. Dak.	-	-	-	-	1 9	3 10	-	-	
Nebr.	3	3	-	-	17	27	3	-	
Kans. S. ATLANTIC	15 1,128	18 1,407	- 51	2 84	65	56 1,744	28	28	
Del.	9	10	-	-	1,573 13	15	-	-	
Md. D.C.	133 62	175 22	8 1	3 2	189 -	152 51	6	8 -	
Va. W. Va.	46 2	78	1 -	4	131 24	175 21	1	8	
N.C.	204	322	17	10	225	232	1	2	
S.C. Ga.	82 235	181 262	5 7	18 18	116 295	130 309	8	7	
Fla.	355	357	12	29	580	659	12	3	
E.S. CENTRAL Ky.	329 65	438 31	11 2	24	489 94	569 84	4 4	1 -	
Tenn. Ala.	126 104	235 84	3 4	14 4	195 133	211 181	-	1	
Miss.	34	88	2	6	67	93	-	-	
W.S. CENTRAL	590	502	47	61	1,023	1,427	4	14	
Ark. La.	20 100	29 113	1 -	6	88	100 85	-	-	
Okla. Tex.	48 422	46 314	2 44	5 50	90 845	101 1,141	4	- 14	
MOUNTAIN	189	155	12	20	240	369	9	8	
Mont. Idaho	1	- 1	- 1	-	6 8	6 7	-	1	
Wyo.	-	1	-	-	2	3	-	-	
Colo. N. Mex.	30 22	18 13	1 -	1 2	39 21	90 44	5 -	- -	
Ariz. Utah	125 5	111 7	10	17	133 18	136 25	2	1 1	
Nev.	6	4	-	-	13	58	2	4	
PACIFIC Wash.	614 37	404 37	26 1	48	1,520 155	2,000 167	52 4	58 3	
Oreg.	11	11	1	-	72	77	2	6	
Calif. Alaska	559 -	346	23	48 -	1,150 33	1,624 35	45 -	46 1	
Hawaii	7	10	1	-	110	97	1	2	
Guam P.R.	155	2 191	12	1 7	33	47 95	-	2 -	
V.I. Amer. Samoa	1 U	- U	Ū.	- U	- U	Ū	Ū	Ū	
C.N.M.I.	15	U	-	U	29	U	-	U	

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

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

TABLE III. Deaths in 122 U.S. cities,* week ending September 7, 2002 (36th Week)

TABLE III. Deaths	s in 122 U.S. cities,* week ending September 7 All Causes, By Age (Years)					7, 2002 (36th Week)	All Causes, By Age (Years)					_		
	All	T		735 (1			P&I [†]		All	T	<u> </u>			T	P&I [†]
Reporting Area	Ages	≥65	45-64	25-44	1-24	<1	Total	Reporting Area	Ages	≥65	45-64	25-44	1-24	<1	Total
NEW ENGLAND	502	337	102	37	19	7	56	S. ATLANTIC	873	513	213	95	30	21	66
Boston, Mass.	150	82	33	18	12	5	17	Atlanta, Ga.	U	U	U	U	U	U	U
Bridgeport, Conn. Cambridge, Mass.	29 12	24 7	3 5	2	-	-	4 3	Baltimore, Md. Charlotte, N.C.	181 85	95 55	51 14	29 11	4 2	2	18 15
Fall River, Mass.	17	16	1	-	-	-	1	Jacksonville, Fla.	127	70	36	15	2	4	7
Hartford, Conn.	64	48	11	4	_	1	4	Miami, Fla.	69	40	20	4	3	1	7
Lowell, Mass.	16	12	2	1	1	-	3	Norfolk, Va.	37	21	8	2	4	2	-
Lynn, Mass.	10	5	4	-	1	-	-	Richmond, Va.	63	34	17	6	2	4	2
New Bedford, Mass.	22	19	3	-	-	-	2	Savannah, Ga.	25	14	7	3	-	1	3
New Haven, Conn.	34	21	8	3	2	-	7	St. Petersburg, Fla.	40	27	10	1	2	-	4
Providence, R.I. Somerville, Mass.	U 6	U 3	U	U 2	U 1	U	U 1	Tampa, Fla. Washington, D.C.	144 102	102 55	27 23	10 14	3 8	2 2	9 1
Springfield, Mass.	41	24	13	3	1	_	4	Wilmington, Del.	U	U	U	Ü	Ü	Ū	ΰ
Waterbury, Conn.	44	36	5	2	-	1	4	l			_				
Worcester, Mass.	57	40	14	2	1	-	6	E.S. CENTRAL Birmingham, Ala.	513 169	351 122	105 29	38 11	13 4	5 2	34 17
MID. ATLANTIC	1,959	1,331	415	145	32	36	91	Chattanooga, Tenn.	64	42	14	4	3	1	3
Albany, N.Y.	37	22	10	4	1	-	4	Knoxville, Tenn.	58	36	17	2	3		-
Allentown, Pa.	19	14	3	2	-	-	2	Lexington, Ky.	43	30	7	5	1	-	2
Buffalo, N.Y.	120	88	26	1	2	3	15	Memphis, Tenn.	U	U	U	U	U	U	U
Camden, N.J.	35	24	7	1	2	1	2	Mobile, Ala.	34	22	10	1	-	1	1
Elizabeth, N.J.	24	15	6	2	1	-	1	Montgomery, Ala.	37	26	7	3	-	1	2
Erie, Pa. Jersey City, N.J.	61 44	47 26	9 10	2 6	3 -	2	3 -	Nashville, Tenn.	108	73	21	12	2	-	9
New York City, N.Y.	959	26 674	189	72	14	10	25	W.S. CENTRAL	1,091	681	256	82	38	33	68
Newark, N.J.	36	11	12	12	-	1	-	Austin, Tex.	81	54	19	7	-	1	2
Paterson, N.J.	30	15	10	3	1	1	1	Baton Rouge, La. Corpus Christi, Tex.	41	27 17	7 14	5 3	2 1	-	4
Philadelphia, Pa.	258	140	77	26	3	12	10	Dallas. Tex.	35 193	114	44	18	14	3	18
Pittsburgh, Pa.§	23	16	6	1	-	-	3	El Paso, Tex.	43	33	8	2	-	-	3
Reading, Pa.	16	13	1	1	1	-	2	Ft.Worth, Tex.	95	61	23	7	2	2	3
Rochester, N.Y. Schenectady, N.Y.	142 27	114 21	18 6	4	3	3	11 3	Houston, Tex.	235	134	68	19	6	8	13
Scranton, Pa.	25	21	3	1	_	_	-	Little Rock, Ark.	60	33	12	3	7	5	-
Syracuse, N.Y.	45	34	8	2	1	-	4	New Orleans, La.	U 170	U	U	U	U	U	U
Trenton, N.J.	28	14	8	3	-	3	1	San Antonio, Tex. Shreveport, La.	179 40	122 25	35 12	11 2	2 1	8 -	14 2
Utica, N.Y.	11	8	2	1	-	-	2	Tulsa, Okla.	89	61	14	5	3	6	9
Yonkers, N.Y.	19	14	4	1	-	-	2	MOUNTAIN	616	395	144	45	21	11	24
E.N. CENTRAL	1,394	939	292	94	34	35	81	Albuquerque, N.M.	82	55	21	4	2	-	2
Akron, Ohio Canton, Ohio	55 43	39 33	8 7	6 1	1	1 2	7 2	Boise, Idaho	33	20	7	1	2	3	2
Chicago, III.	43 U	U	Ú	Ü	U	Ü	U	Colo. Springs, Colo.	58	39	12	5	2	-	-
Cincinnati, Ohio	77	46	21	6	1	3	2	Denver, Colo.	80	47	17	9	4	3	2
Cleveland, Ohio	131	78	26	17	4	6	4	Las Vegas, Nev.	200 24	123 15	55 7	13	6 1	3	8
Columbus, Ohio	164	111	34	8	6	5	12	Ogden, Utah Phoenix, Ariz.	24 U	U	Ú	1 U	U	U	1 U
Dayton, Ohio	90	59	23	5	2	1	5	Pueblo, Colo.	35	29	5	-	1	-	5
Detroit, Mich.	177 45	91 37	55 4	23 3	5 1	3	9 3	Salt Lake City, Utah	104	67	20	12	3	2	4
Evansville, Ind. Fort Wayne, Ind.	45 42	32	10	3		-	5 5	Tucson, Ariz.	U	U	U	U	U	U	U
Garv. Ind.	11	8	3	_	_	-	-	PACIFIC	1,329	884	294	83	43	24	70
Grand Rapids, Mich.	33	21	8	2	1	1	6	Berkeley, Calif.	14	11	1	1	-	1	1
Indianapolis, Ind.	135	91	32	5	3	4	10	Fresno, Calif.	85	52	19	10	4	-	5
Lansing, Mich.	35	26	8	1	-	-	-	Glendale, Calif.	18	12	4	1	1	-	-
Milwaukee, Wis.	83 46	58 36	16 9	3	4	2 1	4 3	Honolulu, Hawaii	78 51	52 33	15 13	6 2	2 2	3 1	6 5
Peoria, III. Rockford, III.	36	20	10	3	3		3 1	Long Beach, Calif. Los Angeles, Calif.	51 314	207	69	21	13	4	5
South Bend, Ind.	66	53	7	3	2	1	7	Pasadena, Calif.	16	13	2	-	-	1	4
Toledo, Ohio	81	58	9	8	1	5	-	Portland, Oreg.	108	72	24	7	3	1	5
Youngstown, Ohio	44	42	2	-	-	-	1	Sacramento, Calif.	135	94	30	4	4	3	12
W.N. CENTRAL	403	269	78	32	13	11	19	San Diego, Calif.	118	76	30	4	5	3	13
Des Moines, Iowa	73	53	13	5	1	1	3	San Francisco, Calif.	U	U	U	U	U	U	U
Duluth, Minn.	35	26	5	1	3	-	5	San Jose, Calif. Santa Cruz, Calif.	141 24	99 14	28 5	10 3	2 2	2	9 2
Kansas City, Kans.	7	.5		1	1	-	1	Seattle, Wash.	24 85	53	21	7	2	2	3
Kansas City, Mo.	69	43	11	9	2	4	-	Spokane, Wash.	61	42	14	2	2	1	-
Lincoln, Nebr. Minneapolis, Minn.	27 48	21 31	6 10	3	1	3	1	Tacoma, Wash.	81	54	19	5	1	2	5
Omaha, Nebr.	48 70	38	10	3 7	3	3	6	TOTAL	8,680	¶5,700	1,899	651	243	183	509
St. Louis, Mo.	Ü	U	Ü	ύ	Ü	Ü	Ŭ	''	5,000	5,700	1,000	001	_ 10	. 50	555
St. Paul, Minn.	49	34	11	3	1	-	2								
Wichita, Kans.	25	18	3	3	1	-	1								

U: Unavailable. -: No reported cases.

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

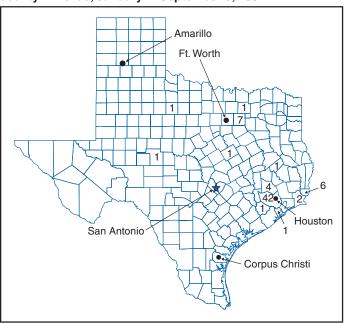
† Pneumonia and influenza.

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

† Total includes unknown ages.

(Continued from page 812)

FIGURE 2. Number of West Nile virus cases in humans*, by county — Texas, January 1–September 9, 2002



* n=67.

Additional information about WNV activity in Texas is available at http://www.tdh.state.tx.us. Additional information about WNV activity is available at http://www.cdc.gov/ncidod/dvbid/westnile/index.htm and http://www.cindi.usgs.gov/hazard/event/west_nile/west_nile.html.

Public Health Dispatch

Investigation of Blood Transfusion Recipients with West Nile Virus Infections

An investigation conducted by CDC, the Food and Drug Administration (FDA), the American Red Cross, and state health departments in Georgia and Florida has confirmed transmission of West Nile virus (WNV) from a single organ donor to four organ recipients (1). During treatment for injuries that eventually proved fatal, the organ donor received

numerous transfusions of blood products. However, the source of the organ donor's infection remains unknown.

Subsequently, CDC has been informed of four other patients with WNV infection diagnosed after receiving units of blood in the weeks before WNV diagnosis. Because each of these patients resided in areas with high levels of WNV activity, the most likely mode of infection is mosquito exposure. To rule out blood transfusion-associated transmission, investigations are ongoing and efforts are under way to contact donors of blood given to these patients and other recipients of blood from these donors for follow-up and WNV testing. In each instance, precautionary measures have included a withdrawal of any remaining blood products obtained from the donors whose blood was given to these patients.

The investigations of the organ donor and four other transfusion recipient patients involve follow-up of approximately 100 donors. Initial testing by a quantitative polymerase chain reaction (PCR) assay (TagMan®) of stored blood specimens obtained from the blood donors at the time of donation has been completed for two investigations. In one investigation, both donors tested negative for WNV. In the second investigation, in which specimens for 15 of 17 donors were available, specimens from three donors had evidence of WNV viral RNA, suggesting that these donors might have had WNV infection at the time of donation. In addition, plasma derived from a donation by one of these three donors also had evidence of WNV RNA. These results are preliminary because all of the specimens available for testing in both investigations were initially processed and stored as part of routine blood collection procedures, which could affect test validity. Therefore, additional follow-up testing and epidemiologic investigation of these donors are necessary.

In cases of suspected WNV meningitis or encephalitis in recent (e.g., ≤4 weeks before onset of illness) recipients of blood or organs, clinicians should contact local public health authorities to initiate an investigation. Serum or tissue samples should be retained for later studies.

Reference

1. CDC. West Nile virus infection in organ donor and transplant recipients—Georgia and Florida, 2002. MMWR 2002;51:790.

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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