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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 (m<sup>2</sup>)]. Obesity is defined as BMI >30.0 kg/m<sup>2</sup> (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

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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

	1	No disabilit	y			Disability	
-	%	(95% Cl†)	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	<u>+</u> 1.3	14,158,000		34.4	<u>+</u> 2.9	3,829,000
<u>≥</u> 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

 $\pm$ Body mass index  $\geq$ 30 kg/m<sup>2</sup>.

<sup>†</sup>Confidence interval.

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 crosssectional 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

18–44 yrs				45–64 yrs			≥65 yrs			Total			-	Total				
	Dis	sability	No d	isability	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	( <u>+</u> 7.8)	19.7	( <u>+</u> 2.2)	27.1	( <u>+</u> 4.6)	23.8	( <u>+</u> 3.3)	24.1	( <u>+</u> 5.1)	13.4	( <u>+</u> 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	( <u>+</u> 1.8)	35.4	( <u>+</u> 4.5)	22.6	( <u>+</u> 2.5)	23.9	( <u>+</u> 5.0)	14.6	( <u>+</u> 3.3)	29.6	( <u>+</u> 3.7)	18.8	( <u>+</u> 1.3)	20.8	( <u>+</u> 1.2)
District of Columbia	32.0	( <u>+</u> 10.5)	14.7	( <u>+</u> 2.1)	48.7	( <u>+</u> 11.4)	22.8	( <u>+</u> 3.9)	24.0	( <u>+</u> 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)
lowa	20.8	( <u>+</u> 4.6)	16.7	( <u>+</u> 1.6)	34.4	( <u>+</u> 4.6)	22.6	( <u>+</u> 2.4)	28.4	( <u>+</u> 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	( <u>+</u> 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	( <u>+</u> 1.5)	34.8	( <u>+</u> 6.3)	16.6	( <u>+</u> 2.5)	24.2	( <u>+</u> 6.1)	15.4	( <u>+</u> 3.2)	25.3	( <u>+</u> 3.7)	14.3	( <u>+</u> 1.2)	16.2	<u>(+</u> 1.2)
North Carolina	30.3	( <u>±</u> 7.4)	17.4	( <u>+</u> 2.0)	39.3	( <u>+</u> 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	( <u>+</u> 1.4)	19.8	<u>(+</u> 1.4)
Rhode Island	19.3	( <u>+</u> 4.3)	13.8	( <u>+</u> 1.4)	28.8	( <u>+</u> 5.2)	18.2	( <u>+</u> 2.1)	22.7	( <u>+</u> 4.7)	12.7	( <u>+</u> 2.2)	22.7	( <u>+</u> 2.9)	15.0	( <u>+</u> 1.1)	16.2	( <u>+</u> 1.0)
South Carolina	27.7	( <u>+</u> 6.4)	16.8	( <u>+</u> 1.6)	32.8	( <u>+</u> 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	( <u>+</u> 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)

 $\pm$ Body mass index  $\geq$ 30 kg/m<sup>2</sup>.

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  $\mu$ g 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 PHSrecommended 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 II<sup>TM</sup> 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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<sup>\*</sup> Numbers for other Hispanic women were too small for meaningful analysis.

						Р	ercentile				
			10th	25th			50th		75th	90th	
	No.	ng/mL	(95% Cl*)	ng/mL	(95% CI)	ng/mL	(95% CI)	ng/mL	(96% CI)	ng/mL	(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)

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

\*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 childbearing 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

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

surveys, orma	diveys, onited States, 1900–1994 and 1999–2000										
	No	Non-Hispanic white			n-Hispa	nic black	Mexican-American <sup>+</sup>				
	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.

<sup>†</sup>Numbers for other Hispanic women were too small for meaningful analysis.

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 non-Hispanic black women. For the number of pregnancies affected by NTDs to be reduced further, all women of childbearing 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

<sup>\*</sup>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.

	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 <sup>®</sup>	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 <sup>§</sup>	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 <sup>¶</sup>	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	

TABLE. Number of indigenous dracunculiasis cases reported, number of villages with endemic disease\*, and percentage of villages with endemic disease, by country and intervention<sup>†</sup>, January–June 2002

\*As of month of last report.

Data are provisional.

<sup>8</sup>No current data available.

<sup>1</sup>Interventions for Ansongo, Gao, and Tominian districts.

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<sup>®</sup> (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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# 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 WNVassociated 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 WNVassociated encephalitis in 297 horses in 62 counties.

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



\* 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.

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

-: No reported cases.

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

<sup>†</sup>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 July 28, 2002.

## **MMWR**

							Escherichia coli, Enterohemorrhagic				
	AID	s	Chlan	nvdia†	Cryptos	poridiosis	015	7:H7	Shiga Toxi Serogroup	n Positive, non-0157	
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. Vt	20	23	1,083	947 420	21 19	5 26	19	23	- 1	3	
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	6,909	57,023	57,442	187	212	153	138	-	-	
N.Y. City	3.210	3,732	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	
Uhio	453	360	20,995	25,054	90 27	113	93	107	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	
Wis.	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	
lowa	90 54	65	6,383 3 420	5,468 3 139	28	62	72	53	-	- 24	
Mo.	189	263	10,305	9,605	24	33	45	40	Ν	N	
N. Dak.	1	2	682	702	6	9	3	13	-	1	
S. Dak. Nebr	3 43	19 58	1,460	1,218	17 39	6 75	31	25 46	1	1	
Kans.	41	64	4,542	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	-	-	
Va.	538	714	10.376	12.688	9	15	32	41	2	2	
W.Va.	58	56	1,627	1,612	2	2	4	9	-	-	
N.C.	555	549	16,757	15,298	25	19	29	35	-	-	
Ga.	1.160	489 930	19.528	21.977	100	111	47	23	10	- 9	
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	-	-	
Ky.	173	244	5,607	6,134	3	3	19	54	-	-	
Ala	483 197	390	8 266	9 163	47 37	10	16	27	-	-	
Miss.	275	315	7,123	8,253	4	11	7	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	-	-	
La. Okla	693 133	588 170	13,451	12,584	4	9	1	19	-	-	
Tex.	1,707	1,883	48,136	48,900	5	67	18	110	-	-	
MOUNTAIN	790	960	31,539	31,292	119	121	220	190	12	10	
Mont.	8	14	1,387	1,340	4	8	16	11	-	-	
Idaho Wyo	18	17	1,599	1,252	21	12	31	38	5	2	
Colo.	157	211	9,506	8,938	42	33	58	71	2	5	
N. Mex.	53	88	4,431	4,217	18	18	5	10	3	3	
Ariz. Litab	327	383	9,797 1 755	9,882	12	6 35	28 53	19	1	-	
Nev.	178	163	2,421	3,503	3	5	21	11	-	-	
PACIFIC	3.017	3.406	84,749	88.138	208	183	416	263	5	6	
Wash.	302	361	9,621	9,299	37	U	97	65	-	-	
Oreg.	216	134	4,733	5,055	28	28	147	43	5	6	
Alaska	2,410 17	2,007 16	2.427	1,852	- 142	1	6	4	-	-	
Hawaii	66	38	2,906	2,693	1	3	33	12	-	-	
Guam	2	9	-	280	-	-	Ν	Ν	-	-	
P.R.	668	815	1,695	1,777	-	-	-	1	-	-	
Amer. Samoa	00 U	∠ U	96 U	U	U	- U	U	U	U	- U	
C.N.M.I.	2	U	132	U	-	U	-	U	-	U	

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

N: Not notifiable. U: Unavailable. -: No reported cases. C.N.M.I.: Commonwealth of Northern Mariana Islands. \* Incidence data for reporting year 2001 and 2002 are provisional and cumulative (year-to-date). † Chlamydia refers to genital infections caused by *C. trachomatis.* § Updated monthly from reports to the Division of HIV/AIDS Prevention — Surveillance and Epidemiology, National Center for HIV, STD, and TB Prevention. Last update July 28, 2002.

(36th Week)*						Haemophilus influenzae,				
	Escheri	chia coli,					Inva	sive		
	Enterohe Shiga Toxi	morrhagic	-				A	Age <5	Years	
	Not Sero	ogrouped	Giardiasis	Gono	rrhea	All Se	erotypes	В	ype	
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	-	-	131	88	100	1	1	-	-	
N.H.	-	-	29	80	123	7	4	-	-	
vi. Mass	-	-	533	2 266	2 168	38	37	-	- 1	
R.I.	-	-	101	596	525	10	3	-	-	
Conn.	-	-	211	1,992	1,615	15	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.I	-	-	220	4 082	8,644 5,278	40 38	39	-	-	
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	11	2	601	11,547	13,760	63	53	-	1	
Ind.	-	-	-	4,831	4,479	35	37	1	-	
III. Mich	- 1	-	421	9 963	16,292	56 10	69 12	- 2	-	
Wis.	-	-	296	3,652	4,094	7	25	-	1	
W.N. CENTRAL	-	2	1.272	11.330	11.384	44	53	1	1	
Minn.	-	-	472	1,902	1,746	31	28	1	-	
lowa	-	-	199	802	890	1	-	-	-	
M0. N Dak	N	N 2	323	5,831 37	5,860	9	16	-	-	
S. Dak.	-	-	48	173	189	-	-	-	-	
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	
Md	-	-	32 76	5 787	6.043	- 65	64	- 2	-	
D.C.	-	-	29	1,891	1,994	-	-	-	-	
Va.	-	-	179	6,224	7,581	22	20	-	-	
W.Va.	-	-	35	661 11 104	445	13	10	-	1	
S.C.	-	-	70	5,052	7,947	9	4	-	-	
Ga.	-	-	604	10,790	12,115	74	66	-	-	
Fla.	-	-	895	13,983	14,296	72	54	2	-	
E.S. CENTRAL	7	1	230	18,335	21,999	47	61	1	-	
ry. Tenn	-	-	102	6 374	2,424	24	31	-	-	
Ala.	-	-	128	5,373	7,213	14	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.	-	-	43	3.234	3.336	32	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	-	-	
Colo.	14	1	328	2,303	2,172	27	32	-	-	
N. Mex.	-	-	116	904	673	21	16	-	1	
Ariz.	-	-	130	2,412	2,721	63 15	49	1	3	
Nev.	-	-	89	734	1.282	7	11	1	2	
PACIFIC	-	-	645	17 614	19 297	103	107	2	4	
Wash.	-	-	239	1,894	2,073	2	2	1	-	
Oreg.	-	-	275	583	782	50	31	-	-	
ualif. Alaska	-	-	- 64	14,297 202	15,/35 273	22	4/	1	4	
Hawaii	-	-	67	442	434	28	21	-	-	
Guam	-	-	-	-	32	-	-	-	-	
P.R.	-	-	20	250	398	1	1	-	-	
V.I.	-	-	-	25	20		-			
Amer. Samoa C.N.M.I.	U -	U	1	13	U	U -	U	-	U	

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

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

	Ha	emophilus in	<i>fluenzae</i> , Invas	sive	Hepatitis (Viral, Acute), By Type							
		Age <	5 Years									
	Non-Sei	rotype B	Unknown	Serotype		Α		В	C; Non-A	A, Non-B		
Reporting Area	Cum. 2002	Cum. 2001	Cum. 2002	Cum. 2001	Cum. 2002	Cum. 2001	Cum. 2002	Cum. 2001	Cum. 2002	Cum. 2001		
UNITED STATES	176	175	15	22	5.692	6.578	4.619	4.879	4.217	2.815		
NEW ENGLAND	8	13	-		218	414	163	89	20	30		
Maine	-	-	-	-	7	8	6	5	-	-		
N.H.	-	1	-	-	11	11	13	10	-	-		
Vt. Mass	-	- 7	-	-	1	192	3	5	12	6		
R.I.	-	-	-	-	29	26	21	17	-	-		
Conn.	3	5	-	-	74	179	36	34	-	-		
MID. ATLANTIC	24	23	-	3	663	850	946	941	1,147	890		
Upstate N.Y.	10	7	-	1	134	172	92	83	41	19		
N.Y. City	/ 4	6	-	-	275	302	473	439	- 1 083	- 823		
Pa.	3	7	-	2	167	163	156	211	23	48		
E.N. CENTRAL	27	32	1	2	778	833	579	668	72	126		
Ohio	7	9	1	-	248	165	78	82	6	8		
Ind.	7	6	-	1	35	64	31	36	-	1		
III. Mich	11	11	-	- 1	201	311	83 387	98 422	10 56	108		
Wis.	1	6	-	-	124	55	-	30	-	-		
W.N. CENTRAL	2	2	3	6	237	268	150	141	634	839		
Minn.	2	1	1	2	32	24	18	12	-	7		
lowa	-	-	-	-	60	26	12	16	1	-		
MO. N Dak	-	-	2	4	66 1	60	82	81	619	821		
S. Dak.	-	-	-	-	3	2	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	214	9 168	/	21	5	3		
D.C.	-	-	-	-	56	33	14	11	-	-		
Va.	3	5	-	-	74	94	140	115	5	-		
W.Va.	1	1	1	-	15	9	18	20	2	9		
N.C. S.C.	3	∠ 1	-	4	104	61	70	24	22	10		
Ga.	16	14	-	-	374	665	338	282	29	-		
Fla.	12	8	1	-	816	153	365	225	50	13		
E.S. CENTRAL	10	12	1	2	181	277	233	326	136	165		
Ky. Tonn	1	-	-	1	40	89	38	36	3	6		
Ala	3	5	- 1	- 1	29	64	54	65	20	3		
Miss.	-	1	-	-	42	20	58	63	103	102		
W.S. CENTRAL	10	5	-	-	253	671	354	578	1,933	568		
Ark.	1	-	-	-	29	56	64	67	5	6		
La. Okla	1	- 5	-	-	25	73	33	89	17	120		
Tex.	2	-	-	-	161	448	235	343	1,907	438		
MOUNTAIN	32	19	7	1	420	544	436	340	67	43		
Mont.	-	-	-	-	11	9	4	2	-	1		
Idaho	1	-	-	-	23	48	6	10	-	2		
VVyo. Colo	- 2	- 2	-	-	2 71	61	14 64	1 74	5 30	5		
N. Mex.	6	7	1	1	15	31	107	96	1	11		
Ariz.	15	8	5	-	221	278	169	105	4	9		
Utah	5	2	-	-	41	57	33	18	4	2		
Nev.	5	-	1	-		54	- 10	34	23	1		
PACIFIC Wash	23	33	1	3	1,171	1,397	543 48	869	82 16	102		
Oreg.	5	5	-	-	51	85	93	118	15	13		
Calif.	13	25	1	1	992	1,191	393	631	51	73		
Alaska Hawaii	1	1	-	- 1	7	14	3	8	-	-		
	3	I	-	I	2	14	0	15	-	-		
Guam PR	-	- 1	-	-	- 76	1 141	- 68	-	-	- 1		
V.I.	-	-	-	-	-	-	-	-	-	-		
Amer. Samoa	U	U	U	U	U	U	U 27	U	U	U		

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

**MMWR** 

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

816

Vo	I. 51 /	'No.:	36

(36th Week)*										
	Legior	nellosis	Liste	riosis	Lvme	Disease	Ma	laria	Meas	sles tal
Reporting Area	Cum.	Cum.	Cum.	Cum.	Cum.	Cum. 2001	Cum.	Cum.	Cum.	Cum.
UNITED STATES	641	677	325	408	8,542	10,409	809	1,043	19†	97§
NEW ENGLAND Maine N.H. Vt. Mass. R.I. Conn.	55 2 4 21 19 1 8	39 5 7 4 12 2 9	41 4 2 20 1 10	34 2 2 18 1	1,869 53 166 17 701 186 746	3,071 55 12 944 267 1,793	44 6 2 15 3 14	68 4 2 1 35 6 20	-	5 - - 1 3 - 1
MID. ATLANTIC Upstate N.Y. N.Y. City N.J. Pa.	151 53 26 18 54	153 40 26 14 73	66 32 14 7 13	66 21 15 12 18	5,440 3,411 82 390 1,557	5,495 1,945 59 1,819 1,672	178 30 110 20 18	304 43 178 48 35	6 1 5 -	18 4 6 1 7
E.N. CENTRAL Ohio Ind. III. Mich. Wis.	166 67 14 - 62 23	183 81 13 20 35 34	39 15 6 1 14 3	62 10 5 21 19 7	57 45 12 - U	630 32 18 29 5 546	96 16 8 24 37 11	131 21 14 56 25 15	3 1 2 - -	10 3 4 3 -
W.N. CENTRAL Minn. Iowa Mo. N. Dak. S. Dak.	37 9 7 10 - 2	42 9 7 17 1 3	9 - 1 5 1 -	11 - 1 - -	178 111 28 28 - 1	271 215 24 26 -	46 16 2 13 1	29 6 5 10 -	3 1 - 2 -	4 2 2 -
Nebr. Kans.	9	4 1	1 1	1 3	5 5	4 2	5 9	2 6	-	-
S. ATLANTIC Del. Md. D.C.	125 7 20 5	113 4 27 7	57 - 11 -	53 2 9 -	843 110 481 17 67	744 123 460 8	245 2 79 14	214 1 89 13	1 - -	5 - 3 -
va. W.Va. N.C. S.C. Ga. Fla.	N 7 5 10 55	N 7 6 9 35	4 4 8 13 17	5 2 4 11 11	12 92 11 1 52	10 29 3 - 11	3 16 6 59 49	1 11 5 37 16	- - - - 1	
E.S. CENTRAL Ky. Tenn. Ala. Miss.	23 9 8 6	48 11 21 12 4	10 2 5 3	18 6 7 5	31 14 17 -	44 18 13 7 6	13 5 3 3 2	23 8 8 4 3		2 2 -
W.S.CENTRAL Ark. La. Okla. Tex.	8 - 1 3 4	19 - 6 3 10	11 - 6 5	30 1 - 2 27	16 2 1 - 13	67 - 4 - 63	10 1 3 6	70 3 5 2 60	1 - - 1	1 - - 1
MOUNTAIN Mont. Idaho Wyo.	28 3 - 1	33 - 2 2	21 - 2 -	29 - 1 1	19 - 3 1	8 - 4 1	35 1 -	39 2 3	1 - -	1 - 1 -
Colo. N. Mex. Ariz. Utah Nev.	6 1 7 8 2	11 2 8 5 3	4 2 9 3 1	8 6 1 6	6 1 2 5 1	- - - 3	19 2 6 4 3	20 3 3 3 5	- - - 1	-
PACIFIC Wash. Oreg. Calif. Alaska Hawaii	48 5 N 43 -	47 7 N 35 1 4	71 8 8 49 - 6	105 7 6 88 - 4	89 7 12 68 2 N	79 6 8 63 2 N	142 14 7 113 2 6	165 5 12 137 1 10	4 - - 3 - 1	51 15 2 27 - 7
Guam P.R. V.I. Amer. Samoa C.N.M.I.	- - - - -	2 - U U	1 - U	- - U U	N - U	N - U U	- - U	4 - U U	- - - U	- - - U U

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

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

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

 † Of 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.

Cum Reporting AreaCum, Participant Area<	· · ·	Meningo Disea	coccal ase	Mu	mps	Pert	ussis	Rabies, Animal		
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Reporting Area	Cum. 2002	Cum. 2001	Cum. 2002	Cum. 2001	Cum. 2002	Cum. 2001	Cum. 2002	Cum. 2001	
NEW ENCLAND         7         60         7         1         412         908         620         505           N.N.         10         10         4         -         31         123         37         77           N.N.         10         10         4         -         31         123         37         78           R.I.         5         3         -         -         100         75         50         48           Can.         13         15         1         -         200         17         223         48         88           N.L.         23         31         1         2         3         31         49         50         21         18         49	UNITED STATES	1,215	1,729	182	170	5,004	3,553	4,090	4,989	
Manne         /         1         - <td>NEW ENGLAND</td> <td>74</td> <td>80</td> <td>7</td> <td>1</td> <td>412</td> <td>308</td> <td>620</td> <td>505</td>	NEW ENGLAND	74	80	7	1	412	308	620	505	
Yi.         4         5         -         -         61         25         77         47           Mass.         3         4         2         1         265         247         200         188           Conn.         13         15         -         -         200         241         788         8891           Upstate N.Y.         37         150         -         -         200         241         788         8891           Upstate N.Y.         30         1         11         89         39         10         223           N.L.         22         33         1         2         3         169         156         1169           N.C. DY         22         38         1         2         30         12         21         100         13         100         100         12         100         100         20         22         10         100         13         7         470         103         20         100         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20         20 <td>Nane N.H.</td> <td>10</td> <td>1 10</td> <td>- 4</td> <td>-</td> <td>7 9</td> <td>- 14</td> <td>40 30</td> <td>47 15</td>	Nane N.H.	10	1 10	- 4	-	7 9	- 14	40 30	47 15	
Mass.         35         46         2         1         265         247         200         188           MID.ATLANTIC         12         166         1         -         20         230         241         766         881           MID.ATLANTIC         122         166         17         20         230         241         766         881           MID.ATLANTIC         20         30         1         11         8         39         10         23           N.C.IV         20         30         1         11         8         39         10         23           N.L.         42         75         13         4         800         73         118         108           Ind.         60         72         3         1         367         50         227         1           Ind.         31         57         6         2         39         40         32         35           Ind.         31         57         6         1         367         39         30         20         20           Ind.         31         57         6         1         30         30         30	Vt.	4	5	-	-	81	25	77	47	
Còm         13         15         1         -         20         17         223         182           MUDATLANTC         132         166         17         20         230         241         766         859           N.C.Dy         20         30         1         1         8         39         10         23           Ph.         20         30         1         1         2         3         13         116         143           Ph.         42         75         13         4         500         76         158         110           Min.         31         63         6         16         95         52         21         21         110           Min.         31         63         6         18         95         52         21         21         11           Min.         28         16         3         3         208         77         363         94         92         37         14         175         .         12         30         14         4         4         4         17         94         94         94         93         94         93         94	Mass.	35	46	2	1	285	247	200	188	
MD.ATLANTIC       122       196       17       20       20       20       21       766       891         N.Y. City       20       30       1       11       8       39       10       23         N.Y. City       20       30       1       11       8       39       10       23         N.Y. City       20       30       1       11       8       39       106       23         P.S. CENTRAL       160       262       18       21       506       50       27       11         Mich.       31       57       6       2       39       49       32       377         Mich.       31       57       6       2       39       49       32       377         Mich.       31       57       6       2       39       49       32       377         Mich.       31       50       1       -       12       10       30	Conn.	13	15	1	-	20	17	223	162	
Upstate N.Y.         37         50         2         3         169         113         4844         5599           N.Chry         20         30         1         1         3         30         168         168           Pa.         42         75         13         2         509         522         166         166           Onio         25         29         2         1         67         50         27         1           Onio         25         29         2         1         67         52         21         21           Mich.         31         63         6         16         95         52         21         21           Mich.         11         10         1         1         94         47         38         32           NDak.         2         5         1         -         125         17         57         64           Kans.         6         11         -         125         17         57         64         4         -         4         4         -         4         4         -         4         4         4         4         4 <td< td=""><td>MID. ATLANTIC</td><td>122</td><td>186</td><td>17</td><td>20</td><td>230</td><td>241</td><td>768</td><td>891</td></td<>	MID. ATLANTIC	122	186	17	20	230	241	768	891	
Nillandy 23 33 1 1 1 2 3 33 1 10 23 Pa. 42 75 13 4 50 76 158 166 ENCENTRAL 160 262 18 21 568 552 106 110 Ohio 25 29 2 1 6 76 562 21 21 Math. 33 57 6 2 34 49 32 77 Math. 34 9 40 3 - 91 73 38 32 N.Dak 5 1 - 1 5 3 44 44 Math. 34 9 40 3 - 91 73 38 32 N.Dak 5 1 - 1 5 3 44 Math 5 3 37 16 107 72 S.ATLANTIC 216 270 21 27 229 174 1,735 1,705 S.ATLANTIC 216 270 21 27 29 174 1,735 1,705 S.ATLANTIC 29 37 4 4 47 47 30 168 342 S.CENTRAL 19 19 44 1 1 6 31 7 7 4 7 9 S.CENTRAL 19 19 44 1 1 6 31 7 7 4 S.C.C. 19 29 37 4 8 37 7 4 7 7 S.C. 22 31 25 87 7 4 M.G.C. 22 37 13 18 18 19 Mas. 12 16 3 5 7 4 7 S.C.C. 139 29 27 3 13 12 40 1,73 202 207 S.C.C. 139 29 27 3 13 12 40 1,73 202 207 S.C.C. 14 97 15 15 3 202 27 37 13 3 M.M.C. 4 9 9 1 1 2 136 43 22 05 - 7 S.ATLANTINN 74 75 13 12 40 1,73 33 1 M.M.C. 4 9 9 1 1 2 136 43 22 07 14 15 M.M.C. 4 4 9 1 1 13 36 14 29 M.M.C. 4 4 9 1 1 13 36 14 29 M.M.C. 4 4 9 1 1 13 36 14 29 M.M.C. 4 4 9 1 1 13 36 14 29 M.M.C. 4 4 9 1 1 13 36 14 29 M.M.C. 4 4 9 1 1 13 36 14 29 M.M.C. 4 4 9 1 1 13 36 14 29 M	Upstate N.Y.	37	50	2	3	169	113	484	559	
Pa.         42         75         13         4         50         76         158         166           Doilo         61         72         3         1         508         532         105         110           Ohio         25         29         2         1         103         522         21         21           III.         31         63         6         16         95         52         21         21           Win.         12         41         1         1         94         157         -         15           Win.         24         10         3         7         470         183         291         272           Minn.         24         10         3         -         91         73         36         42           Min.         24         11         5         3         377         16         107         72           Statk         2         5         -         -         -         5         3         4         40           Nebr.         26         11         5         3         37         16         107         72 <td< td=""><td>N.Y. City</td><td>20 23</td><td>30 31</td><td>1</td><td>11</td><td>8</td><td>39</td><td>10 116</td><td>23 143</td></td<>	N.Y. City	20 23	30 31	1	11	8	39	10 116	23 143	
E M CENTRAL 160 262 18 21 968 532 105 110 Ohio 25 29 2 1 67 552 21 21 Mich. 25 29 2 1 67 552 21 21 Mich. 31 57 6 2 39 49 32 37 Mich. 31 2 41 1 1 9 33 7 470 183 291 272 Mich. 31 201 77 39 34 Mich. 39 40 3 - 91 73 38 291 Mich. 22 5 - 91 7 33 8 32 S.Dak. 2 5 - 1 5 3 47 40 Nabk. 2 6 11 5 3 7 29 114 1,755 1,705 Del. 6 3 - 2 2 5 - 2 24 23 S.Dak. 2 2 5 - 2 24 2 3 37 16 107 72 Del. 6 3 - 2 2 3 37 16 107 72 Del. 6 3 - 2 2 3 37 16 107 72 Del. 6 3 - 2 2 3 39 40 30 Mich. 2 4 11 - 1 4 4 4 3 4 - 4 Mach. 2 4 11 - 2 1 3 38 28 10 30 S.Dak. 2 2 5 4 4 4 1 3 4 4 4 30 Mich. 2 4 11 - 2 1 3 28 51 308 Mich. 2 4 11 - 2 1 3 28 51 308 Mich. 2 4 11 - 2 1 3 28 51 308 Mich. 2 4 11 - 2 1 3 28 51 508 Mich. 2 9 31 3 6 109 12 2 3 31 25 87 87 Mich. 2 9 37 4 6 100 100 91 78 Mich. 2 9 37 4 7 4 37 18 108 Mich. 2 9 37 4 6 160 100 91 78 S.Cak. 2 9 37 4 6 160 100 91 78 S.Cak. 2 9 37 4 7 4 37 18 108 Mich. 2 3 38 88 84 Mish. 12 16 3 5 7 4 - 2 Mich. 2 4 64 1 2 6 6 160 100 91 78 Mish. 12 16 13 7 817 Mich. 2 3 7 4 1 4 20 10 Mich. 2 3 7 1 1 4 20 10 Mish. 12 16 13 7 817 Mich. 2 3 7 1 1 4 20 10 Mish. 12 16 15 7 817 Mich. 2 3 7 1 1 4 20 10 Mich. 2 3 7 1 1 4 20 10 Mich. 2 3 7 1 1 4 20 10 Mish. 12 16 15 7 817 Mich. 2 3 7 1 1 4 20 10 Mich. 2 3 7 1 1 4 20 10 Mich. 2 3 7 1 1 4 20 10 Mich. 3 7 10 Mich. 4 9 11 Mich. 4 7 10 Mich. 4 9 10 M	Pa.	42	75	13	4	50	76	158	166	
Ohio         61         72         3         1         303         224         25         36           Mich.         31         67         6         1         65         50         27         1           Mich.         31         67         6         1         93         50         27         1           Mich.         31         67         6         1         93         50         27         1           WN.CENTRAL         111         109         13         7         470         183         291         222           WN.CENTRAL         111         109         13         7         470         183         291         223           N.Dak.         -         5         1         -         -         1         33         37         16         107         72         30           SDak.         -         5         1         -         -         1         1         -         4         4         4         4         4         4         4         4         4         30         32         32         33         32         33         34         107         17	E.N. CENTRAL	160	262	18	21	598	532	105	110	
int.       23       23       24       16       95       22       21       21         Wich.       31       57       6       16       39       40       32       37         Wins.       12       41       1       1       94       157       -       15         Winc.       111       109       13       7       470       183       291       272         Minn.       144       21       1       -       125       17       57       64         Mo.       39       40       3       -       91       73       88       32         S.Dak.       2       5       1       -       -       -       12       30         S.Dak.       2       5       1       -       -       -       16       107       72         S.ATLANTIC       216       270       21       27       299       174       1,725       1,706         S.ATLANTIC       216       270       21       27       299       13       36       107       30       355       298         D.C.       -       -       -       -       1	Ohio	61	72	3	1	303	224	25	36	
Mich.       31       57       6       2       39       49       32       37         WN.CENTRAL       111       109       13       7       470       183       291       221         WN.CENTRAL       111       109       13       7       470       183       291       221         Iowa       14       21       1       -       125       17       57       64         Mc.       39       40       3       -       91       73       38       32         N.Dak.       -       5       1       -       -       -       12       30         S.Dak.       2       5       -       -       5       3       47       4         Mob.       2       11       5       3       37       16       107       72         S.ATLANTIC       216       270       21       27       299       214       1,755       1,706         D.C.       7       35       -       -       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1<	III.	25 31	29 63	6	16	95	50 52	21	21	
Wile.         12         41         1         1         94         157         -         15           Min.         26         16         3         3         208         70         30         30           Mon.         39         46         3         -         125         17         57         64           Mo.         39         46         3         -         125         17         57         64           Mo.         39         46         3         -         125         17         57         64           S.Dak.         2         5         1         -         1         4         4         -         4           S.Dak.         2         6         11         5         3         37         16         107         72           S.ATLANTC         216         270         21         27         299         174         1,725         1,705           Dcl.         -         -         -         1         1         -         -         24         30         35         298         30         101         1         -         -         24         103	Mich.	31	57	6	2	39	49	32	37	
W.N.C.SUTFAL       111       109       13       7       470       183       291       272         iowa       14       21       1       -       125       17       57       64         Monk       39       40       3       -       191       73       39       30         S.Dak       2       5       -       -       5       3       47       40         Nack       2       5       -       -       5       3       47       40         Nack       2       5       -       -       5       3       47       40         Nack       6       11       5       3       37       16       107       72         SATLANTIC       216       270       21       27       299       174       1.55       1.705         Del.       6       3       -       -       2       -       24       30         Md.       7       35       4       4       47       30       08       42         DC.       -       -       3       28       51       508       4117       16       131       16	Wis.	12	41	1	1	94	157	-	15	
mining         23         3         3         202         17         37         54         34           Ma         3         4         1         -         1         73         58         52           N.Dak.         2         5         1         -         5         3         47         40           Nebr.         24         11         -         1         4         4         -         4           Nobr.         24         11         -         1         4         4         -         4           SATLANTC         216         270         21         27         299         174         1,705         1,705           SATLANTC         216         270         21         27         299         174         1,735         1,705           SATLANTC         216         37         4         4         4         47         30         168         342           SATLANTC         29         31         3         307         30         355         298           DC.         2         5         58         1         3         28         51         508         111         <	W.N. CENTRAL	111	109	13	7	470	183	291	272	
Mo.     39     40     3     -     91     73     38     32       S.Dak.     2     5     -     -     5     3     47     40       S.Dak.     24     11     -     1     4     4     -     4       Kans.     6     11     5     3     37     16     107     72       Del.     6     11     5     3     37     16     107     72       Del.     7     35     4     4     4     30     168     342       D.C.     -     -     -     2     -     24     30       Md.     7     35     4     4     47     30     168       D.C.     -     -     -     2     13     107       N.C.     25     58     1     3     28     51     508       S.C.     19     29     2     2     31     18     177       S.C.     19     29     2     31     18     176     135       E.S.CENTRAL     69     109     12     6     160     100     91     178       Ky.     11     19     4     2<	lowa	14	21	1	-	125	17	57	64	
N.Dak.       -       5       1       -       -       -       1       2       30         Nebr.       24       11       -       1       4       4       -       4         Nebr.       24       11       -       1       4       4       4       -       4         Nebr.       24       11       -       1       4       4       4       -       4         S.ATLANTIC       216       270       21       27       299       174       1,735       1,705         Del.       6       3       -       -       1       1       0       16       342         Va.vo.       24       31       3       6       107       30       355       298         Va.vo.       24       18       1       3       282       21       303       355       79       411         S.C.       19       29       29       27       4       37       18       176       135         S.C.       12       16       3       5       7       4       2       2         S.G.C.       19       109       12	Mo.	39	40	3	-	91	73	38	32	
Nubbr.         24         1         .         1         4         4         4         4         7.         4           Kans.         6         11         5         3         37         16         107         72           SATLANTIC         216         270         21         27         299         174         1,735         1,705           Del.         6         3         -         -         2         -         24         30           Mdt.         7         35         4         4         07         30         355         298           Vac.         29         31         3         6         107         30         355         298           Vac.         29         37         4         8         17         17         284         295           Sc.         19         29         37         4         8         17         17         284         295           Ga.         29         37         4         8         17         17         284         295           Fia.         97         66         7         4         37         18         176     <	N. Dak. S. Dak	- 2	5	1	-	- 5	- 3	12 47	30 40	
Kans.       6       11       5       3       37       16       107       72         S.ATLANTIC       216       270       21       27       299       174       1,735       1,706         Del.       6       3       -       -       2       30       168       34         Mat.       7       36       4       4       47       30       168       34         Va.       2       31       3       6       107       30       355       298         W.Va.       29       31       3       6       107       30       355       298         N.C.       25       58       1       3       26       51       508       411         S.C.       19       29       37       4       8       17       17       284       295         Fla.       97       66       7       4       37       18       176       135         E.S.CENTRAL       69       109       12       6       160       100       91       178         Ky.       11       19       4       1       27       27       7       51 <td>Nebr.</td> <td>24</td> <td>11</td> <td>-</td> <td>1</td> <td>4</td> <td>4</td> <td>-</td> <td>40</td>	Nebr.	24	11	-	1	4	4	-	40	
S.ATLANTIC       216       270       21       27       299       174       1.735       1.706         Del.       7       35       4       4       47       30       168       342         D.C.       -       -       -       1       1       -       -       -         Va.       29       31       3       6       107       30       355       298         W.Va.       4       11       -       -       29       2       133       107         N.C.       25       58       1       3       28       51       508       4111         S.C.       19       29       2       231       25       87       87         Ga.       29       37       4       8       17       17       284       295         Fal.       97       66       7       4       37       18       16       135         E.S.CENTRAL       141       283       16       9       1,323       38       86       845         V.S.CENTRAL       141       283       16       9       1,323       38       86       845	Kans.	6	11	5	3	37	16	107	72	
Del.       6       3       -       -       2       -       24       30         Md.       7       35       4       4       47       30       16       942         D.C.       -       -       -       1       1       -       -       -         Va.       29       31       3       6       107       30       355       298         W Va.       4       11       -       -       29       2       31       25       87       87         S.C.       19       29       2       2       31       25       87       87         Ga.       29       37       4       8       177       17       284       295         Fla.       97       66       7       4       37       18       176       138         ES.CENTRAL       69       109       12       6       160       100       91       178         Ky.       11       19       4       1       67       31       18       19         Mat.       18       30       3       -       27       27       7       5      <	S. ATLANTIC	216	270	21	27	299	174	1,735	1,705	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Del. Md	6	3	-	-	2	- 30	24	30	
Va.29313610730355298N.C.2556132851508411S.C.192922311784295Ga.2937481717284295Fla.9766743718176135E.S.CENTRAL6910912616010091178Ky.11194167311819Tenn.284442-593866106Ala.18303-2727751Miss.12163574-2VS.CENTRAL1412631691,32333888845Ark.2118435162-VS.CENTRAL141263157817305-786Mus.172565128652Kak.293-11420103131Idaho3711521672415WOUNTAIN747513126401,073202207Mot.23-11011526Colo	D.C.	-	-	-	-	1	1	-	-	
W. Va.41129213310/N.C.2558132851508411S.C.19292231258787Ga.2937481717284295Fla.9766743718176135E.S.CENTRAL6910912616010091178Ky.11194167311819Tenn.28442-593866106Ala.18303-2727751Miss.12163574-2W.S.CENTRAL1412631691,32333888845Ark.2118435162-La.24641265-7Oka.172565128652Tex.79156157817305-786MOUNTAIN747513126401,073202207Mont.23-14201031Idaho371152626Woo4<	Va.	29	31	3	6	107	30	355	298	
S.C.19292231256787Ga.2937481717284295Fla.9766743718176135E.S. CENTRAL6910912616010091178Ky.11194167311819Tenn.28442-593866106Ala.18303-2727751Miss.12163574-2Ak.2118435162-Ark.2118655-7Oka.172565126652Tex.79156157817305-786MOUNTAIN747513126401.073202207Mont.23-14201031Wyo4-11011526Colo23292323693712Mark.49123693712Mark.49110548910111Wyo475144<	N.C.	4 25	58	1	3	29	∠ 51	508	411	
Ga.       29       37       4       8       17       17       284       295         Fla.       97       66       7       4       37       18       176       135         E.S.CENTRAL       69       109       12       6       160       100       91       178         Ky.       11       19       4       1       67       31       18       191         Tenn.       28       44       2       -       59       38       66       106         Ala.       18       30       3       -       27       7       7       51         Miss.       12       16       9       1,323       338       88       845         Ark.       21       18       -       -       435       16       2       -         La.       24       64       1       2       6       5       -       7         Oka.       17       25       -       -       65       12       86       52         Mont.       2       3       -       1       4       20       10       31         Mont.       2	S.C.	19	29	2	2	31	25	87	87	
n.a.ofofofiiofioioioioioKy.11194167311819fenn.28442-593866106Ala.18303-2727751Miss.12163574-2Miss.12163574-2Ark.2118435162-La.24641265-7Oka.172565128652Tex.79156157817305-786MOUNTAIN747513126401,073202207Mont.23-14201031Idaho3711521672415Colo.23292325222935-Ariz.231111105489101114Nev.15532371331PACIFIC2483756567872604190276Vita.5323713311PACIFIC248375 <t< td=""><td>Ga. Ela</td><td>29 97</td><td>37</td><td>4</td><td>8</td><td>17 37</td><td>17</td><td>284 176</td><td>295 135</td></t<>	Ga. Ela	29 97	37	4	8	17 37	17	284 176	295 135	
L.S. CENTRAL6910912610010091176Tenn.28442-593866106Ala.18303-277751Miss.12163574-22W.S. CENTRAL1412631691,32333888845Ark.2118435162-La.24641265-7Okla.172565128652Tex.79156157817305-786MOUNTAIN747513126401,073202207Mont.23-14201031Idaho3711521672415Oko.23292325222935-Ariz.23111105489101114Uah47532371331PACIFIC2483756567872604190276Wash.5567872604190276Wash.5567872604190276Calif.15326229 <td< td=""><td></td><td>57</td><td>100</td><td>10</td><td>4</td><td>160</td><td>100</td><td>01</td><td>179</td></td<>		57	100	10	4	160	100	01	179	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Ky.	11	19	4	1	67	31	18	19	
Ala.18303- $27$ $27$ $7$ $4$ $51$ Miss.121635 $7$ $4$ $2$ W.S.CENTRAL141263169 $1,323$ 33888845Ark.2118- $435$ 162-La.24641265-7Okla.172565128652Tex.79156157817305-786MOUNTAIN747513126401,073202207Mont.23-14201031Idaho3711521672415Colo.23292325222935-N.Mex.491213693712New.15532371331PACIFIC2483756567872604190276Wash.5052-1324105Oreg.3648NN1473932Colif.153265229383428163236Alaska32-1324105Rex.1556	Tenn.	28	44	2	-	59	38	66	106	
NumberIndIndIndIndIndIndIndIndIndIndWS. CENTRAL1412631691,32333888845Ark.2118435162-La.24641265-7Okla.172565128652Tex.79156157817305-786MOUNTAIN747513126401,073202207Mont.23-14201031Idaho3711521672415Wyo4-11011526Colo.23292325222935-N.Mex.491213693712Ariz.231111105489101114Utah47532371331Nev.155323713322Oreg.3648NN14739322Quark552-1324105Oreg.3648NN14739322<	Ala. Miss	18 12	30 16	3	- 5	27	27	/ -	51	
No. Contract112031031,22310031,223100034043La.24641265-7La.1724641265-7Okla.172565128652Tex.79156157817305-786MOUNTAIN747513126401,073202207Mont.23-14201031Idaho3711521672415Wyo4-11011526Colo.23292325222935-Ariz.231111105489101114Utah47532371331PACIFIC2483756567872604190276Wash.5052-1324105Oreg.3648NN14739322Calif.1532625229383428163236Alaska32-1432438Alaska32-143	WS CENTRAL	1/1	263	16	9	1 323	338	88	845	
La.24641265-7Okla.172565128652Tex.79156157817305-786MOUNTAIN747513126401,073202207Mont.23-14201031Idaho3711521672415Wyo4-11011526Colo.23292325222935-Ariz.231111105489101114Utah4751446178Nev.15532371331PACIFIC2483756567872604190276Wash.5052-1324105Oreg.3648NN14739322Calif.1532625229383428163236Alaska32-1432438Alaska32-1432438Alaska32-1432438Alaska61113 <td>Ark.</td> <td>21</td> <td>18</td> <td>-</td> <td>-</td> <td>435</td> <td>16</td> <td>2</td> <td>-</td>	Ark.	21	18	-	-	435	16	2	-	
Okla.         17         25         -         -         65         12         86         52           Tex.         79         156         15         7         817         305         -         786           MOUNTAIN         2         3         -         1         4         20         10         31           Idaho         3         7         1         1         52         167         24         15           Wyo.         -         4         -         1         10         1         15         26           Colo.         23         29         2         3         252         229         35         -           NMex.         4         9         1         2         136         933         7         12           Ariz.         23         11         1         105         489         101         114           Utah         4         7         5         1         444         61         7         8           Nev.         15         5         3         2         37         13         3         1           PACIFIC         248         37	La.	24	64	1	2	6	5	-	7	
MOUNTAIN         74         75         13         12         640         1,073         202         207           Mont.         2         3         -         1         4         20         10         31           Idaho         3         7         1         1         52         167         24         15           Wyo.         -         4         -         1         10         1         15         26           Colo.         23         29         2         3         252         229         35         -           NMex.         4         9         1         2         136         93         7         12           Ariz.         23         11         1         1         105         489         101         114           Utah         4         7         5         1         44         61         7         8           Nev.         15         5         3         2         37         13         3         1           PACIFIC         248         375         65         67         872         604         190         276           Wash.	Tex.	17 79	25 156	- 15	- 7	65 817	12 305	- 86	52 786	
Mont.23-14201031Idaho3711521672415Wyo4-11011526Colo.23292325222935-N.Mex.491213693712Ariz.231111105489101114Utah4751446178Nev.15532371331PACIFIC2483756567872604190276Wash.5052-1324105Oreg.3648NN1473932Calif.1532625229383428163236Alaska32-1432438Hawaii61113361429GuamP.R.452-4969VIAmer. SamoaUUUUUUUUUU	MOUNTAIN	74	75	13	12	640	1 073	202	207	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Mont.	2	3	-	1	4	20	10	31	
wyb4-11011520Colo.23292325222935-N.Mex.491213693712Ariz.231111105489101114Utah4751446178Nev.15532371331PACIFIC2483756567872604190276Wash.5052-1324105Oreg.3648NN1473932Calif.1532625229383428163236Alaska32-1432438Hawaii61113361429Guam2-4969VI2-4969VIAmer.SamoaUUUUUUUUU	Idaho	3	7	1	1	52	167	24	15	
N.Mex.491213693712Ariz.231111105489101114Utah4751446178Nev.15532371331PACIFIC2483756567872604190276Wash.5052-1324105Oreg.3648NN1473932Calif.1532625229383428163236Alaska32-1432438Hawaii61113361429Guam2-4969VI.452-4969VI.UUUUUUUU	Colo.	23	29	2	3	252	229	35	-	
Ariz.231111105489101114Utah4751446178Nev.15532371331PACIFIC2483756567872604190276Wash.5052-1324105Oreg.3648NN1473932Calif.1532625229383428163236Alaska32-1432438Hawaii61113361429GuamP.R.452-4969VIAmer.SamoaUUUUUUUUU	N.Mex.	4	9	1	2	136	93	7	12	
Nev.         15         5         3         2         37         13         3         1           PACIFIC         248         375         65         67         872         604         190         276           Wash.         50         52         -         1         324         105         -         -           Oreg.         36         48         N         N         147         39         3         2           Calif.         153         262         52         29         383         428         163         236           Alaska         3         2         -         1         4         3         24         38           Hawaii         6         11         13         36         14         29         -         -           Guam         -	Ariz. Litah	23	11	1	1	105	489	101	114	
PACIFIC         248         375         65         67         872         604         190         276           Wash.         50         52         -         1         324         105         -         -           Oreg.         36         48         N         N         147         39         3         2           Calif.         153         262         52         29         383         428         163         236           Alaska         3         2         -         1         4         3         24         38           Hawaii         6         11         13         36         14         29         -         -           Guam         -         -         -         -         -         -         -         -           P.R.         4         5         -         -         2         -         49         69           VI.         -         -         -         -         -         -         -         -         -	Nev.	15	5	3	2	37	13	3	1	
Wash.5052-1324105Oreg.3648NN1473932Calif.1532625229383428163236Alaska32-1432438Hawaii61113361429GuamP.R.45-2-4969V.IAmer.SamoaUUUUUUUU	PACIFIC	248	375	65	67	872	604	190	276	
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Wash.	50	52	-	1	324	105	-	-	
Alaska     3     2     -     1     4     3     24     38       Hawaii     6     11     13     36     14     29     -     -       Guam     -     -     -     -     -     -     -     -       P.R.     4     5     -     -     2     -     49     69       VI.     -     -     -     -     -     -     -       Amer.Samoa     U     U     U     U     U     U     U	Calif.	36 153	48 262	52	1N 29	383	428	3 163	236	
Hawaii     6     11     13     36     14     29     -     -       Guam     -     -     -     -     -     -     -     -       P.R.     4     5     -     -     2     -     49     69       V.I.     -     -     -     -     -     -     -       Amer.Samoa     U     U     U     U     U     U     U	Alaska	3	2	-	1	4	3	24	38	
Guam     -     -     -     -     -     -     -     -       P.R.     4     5     -     -     2     -     49     69       V.I.     -     -     -     -     -     -     -       Amer.Samoa     U     U     U     U     U     U     U     U	Hawaii	6	11	13	36	14	29	-	-	
r.n. 4 5 - 2 - 49 69 VI	Guam	-	-	-	-	-	-	-	-	
Amer.Samoa U U U U U U U U U	v.i.	4 -	5	-	-	-	-	49	-	
CNMI - II - II - II - II	Amer. Samoa	U	U	U	U	U 1	U	U	U	

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

 (36th Week)\*

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

			Γ	Ru	ubella				
	Rocky I Spotte	Mountain ed Fever	Ruk	pella	Conge	enital ella	Salmonellosis		
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.	-	1	-	-	-	-	86	134	
Mass.	-	2	-	-	-	-	793	1,026	
R.I.	-	-	-	-	-	-	101	85	
Conn.	-	-	-	-	-	-	290	314	
MID. AI LAN I IC Upstate N Y	35 7	24	3	1	-	-	2,968	3,474 795	
N.Y. City	8	1	-	5	-	-	868	875	
N.J.	9	6	2	1	-	-	433	882	
	11	15	-	-	-	-	694	922	
E.N. CENTRAL Ohio	14 10	15 1	-	2	-	-	3,600	3,605 967	
Ind.	2	1	-	-	-	-	315	360	
III. Miah	-	12	-	2	-	-	1,118	1,055	
Wich.	2	-	-	-	-	-	590	624 599	
W N CENTRAL	79	56	-	3	-	-	1 710	1 547	
Minn.	-	-	-	-	-	-	400	444	
lowa	2	2	-	1	-	-	285	225	
No. N. Dak.	12	52	-	-	-	-	604 25	409 43	
S. Dak.	-	2	-	-	-	-	70	114	
Nebr.	4	-	-	-	-	-	116	117	
	204	100	-	2	-	-	6 574	5 790	
Del.	324	3	-	-	-	-	53	5,762	
Md.	41	34	-	-	-	-	658	565	
D.C. Va	- 22	-	-	-	-	-	50 661	57	
W.Va.	1	-	-	-	-	-	93	84	
N.C.	188	101	-	-	-	-	867	818	
S.C. Ga	43 18	17 8	-	2	-	-	411 1 220	573	
Fla.	7	4	-	1	-	-	2,561	1,545	
E.S. CENTRAL	64	81	-	-	1	-	1,725	1,646	
Ky.	3	2	-	-	-	-	229	246	
Ala.	40 15	53 13	-	-	-	-	476	412	
Miss.	-	13	-	-	-	-	524	547	
W.S. CENTRAL	89	23	2	-	-	-	1,753	3,173	
Ark.	28	5	-	-	-	-	604	510	
Okla.	61	16	-	-	-	-	303	552 292	
Tex.	-	-	2	-	-	-	635	1,819	
MOUNTAIN	12	9	-	-	-	-	1,390	1,481	
Mont.	1	1	-	-	-	-	64	50	
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	
Oreg.	- 2	-	-	-	-	-	253	354 204	
Calif.	3	-	3	-	-	-	2,528	2,635	
Alaska Hawaii	-	-	-	- 1	- 1	-	42	28	
Cuem	-	-	-	ſ	I	-	201	202	
P.R.	-	-	-	3	-	-	- 136	676	
V.I.							-	-	
C.N.M.I.	- -	U	-	U	-	U	25	U	

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

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

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

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

 (36th Week)\*

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

(36th week)*		Svo	hilis			Typhoid			
	Primary &	Secondary	Cong	jenital	Tubero	ulosis	Fever		
Reporting Area	Cum.	Cum.	Cum.	Cum.	Cum.	Cum.	Cum.	Cum.	
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. Vt.	3	2	-	-	9	4	-	-	
Mass.	64	18	-	2	146	169	9	9	
Conn.	5 20	8	-	- 1	25 70	42 81	- 3	- 1	
MID. ATLANTIC	466	344	37	53	1,480	1,545	41	77	
Upstate N.Y.	24	15	4	3	221 756	239	6	14	
N.J.	92	78	17	23	332	345	12	27	
Pa.	72	60	1	-	171	184	3	4	
E.N. CENTRAL	717	706	29	53	823	959	15	30	
Ind	98 49	59 116	1	2	132 76	187 70	5	3	
III.	203	234	21	34	408	454	1	16	
Mich.	353	278	7	5	166	199	3	5	
WN CENTRAL	73	65	_	4	363	365	7	4	
Minn.	34	26	-	2	152	159	3	4	
lowa	2	4	-	-	17	18	-	-	
N. Dak.	-	-	-	-	102	3	-	-	
S. Dak.	-	-	-	-	.9	10	-	-	
Nebr. Kans.	15		-	2	17 65	27 56	3	-	
S. ATLANTIC	1,128	1,407	51	84	1,573	1,744	28	28	
Del.	9	10	-	-	13	15	-	-	
Ma. D.C.	133	1/5	8	3	189	152 51	6	8	
Va.	46	78	1	4	131	175	1	8	
W.Va.	2 204	- 322	- 17	- 10	24 225	21	- 1	- 2	
S.C.	82	181	5	18	116	130	-	-	
Ga.	235	262	7	18	295	309	8	7	
E S CENTRAI	329	438	11	23	489	569	4	1	
Ky.	65	31	2	-	94	84	4	-	
Tenn.	126	235	3	14	195	211	-	1	
Miss.	34	88	2	6	67	93	-	-	
W.S. CENTRAL	590	502	47	61	1,023	1,427	4	14	
Ark.	20	29	1	6	88	100	-	-	
Okla.	48	46	2	5	90	101	-	-	
Tex.	422	314	44	50	845	1,141	4	14	
MOUNTAIN	189	155	12	20	240	369	9	8	
Idaho	- 1	1	1	-	8	7	-	-	
Wyo.	-	1	-	-	2	3	-	-	
N. Mex.	30 22	18	-	2	39 21	90 44	5	-	
Ariz.	125	111	10	17	133	136	-	1	
Utah Nev	5	7 4	-	-	18 13	25 58	2	1 4	
PACIFIC	614	404	26	48	1 520	2 000	52	58	
Wash.	37	37	1	-	155	167	4	3	
Oreg.	11	11	1	-	72	77	2	6	
Alaska	- 559	-	-	40	33	35	40	40	
Hawaii	7	10	1	-	110	97	1	2	
Guam	-	2	-	1	-	47	-	2	
r.n. V.I.	100	-	-	-			-	-	
Amer. Samoa C N M I	U 15	U	U	U	U 29	U	U	U	

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

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

TABLE III. Dea	ths in 122 U.S	. cities.* week e	endina Septembe	r 7, 2002	(36th Week)
TABLE III. DOU		. onnoo, week (	shalling ocptombo		

	All Causes, By Age (Years)				<u> </u>	,		All Causes, By Age (Years)							
Reporting Area	All Ages	<u>≥</u> 65	45-64	25-44	1-24	<1	P&l⁺ Total	Reporting Area	All Ages	<u>≥</u> 65	45-64	25-44	1-24	<1	P&I <sup>†</sup> 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.	29	24	3	2	-	-	4	Baltimore, Md.	181	95	51	29	4	2	18
Fall River Mass	12	16	5	-	-	2	1	Jacksonville Fla	127	55 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
Somerville Mass	6	3	0	2	1	0	1	Washington D.C.	144	55	27	10	3 8	2	9
Springfield, Mass.	41	24	13	3	1	-	4	Wilmington, Del.	U	U	20 U	Ŭ	Ŭ	Ū	ů
Waterbury, Conn.	44	36	5	2	-	1	4		510	051	105	00	10	5	0.4
Worcester, Mass.	57	40	14	2	1	-	6	E.S. CENTRAL Birmingham Ala	160	351	105	38	13	5	34
MID ATLANTIC	1 959	1 331	415	145	32	36	91	Chattanooga Tenn	64	42	29 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.	61	47	10	2	3	-	3	Nashville, Tenn.	108	73	21	12	2	-	9
New York City, N.J.	959	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.	41	27	1/	5	2	-	-
Philadelphia, Pa.	258	140	77	26	3	12	10	Dallas Tex	193	114	14	18	14	-	4 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
Schenectady N Y	27	21	18	4	3	3	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.	170	100	0	11	0	U	14
Trenton, N.J.	28	14	8	3	-	3	1	San Antonio, rex. Shrevenort La	40	25	30 12	2	∠ 1	°	14
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	205	144	45	21	11	24
E.N. CENTRAL	1,394	939	292	94	34	35	81	Albuquerque N M	82	55	21	43	21	-	24
Akron, Ohio	55	39	8	6	1	1	7	Boise, Idaho	33	20	7	1	2	3	2
Canton, Ohio	43	33	/	1	-	2	2	Colo. Springs, Colo.	58	39	12	5	2	-	-
Cincago, III. 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	123	55	13	6	3	8
Columbus, Ohio	164	111	34	8	6	5	12	Ogden, Utan	24	15	/	1	1	-	1
Dayton, Ohio	90	59	23	5	2	1	5	Pueblo Colo	35	29	5	-	1	-	5
Detroit, Mich.	177	91	55	23	5	3	9	Salt Lake City. Utah	104	67	20	12	3	2	4
Evansville, Ind.	45	37	4	3	1	-	3	Tucson, Ariz.	U	U	U	U	U	U	U
Gary Ind	42	8	3		-	2	-	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	58	16	3	4	2	4	Honolulu, Hawaii	78	52	15	6	2	3	6
Peoria, III.	46	36	10	-	-	1	3	Long Beach, Calif.	51	33	13	2	10	1	5
South Bend Ind	30 66	20 53	10	3	2	1	7	Pasadena Calif	314	207	209	21	13	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
	403	260	78	30	13	11	10	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.	141	99	28	10	2	2	9
Kansas City, Kans.	7	5	-	1	1	-	1	Santa Cruz, Calif.	24	14	5	3	2	-	2
Kansas City, Mo.	69	43	11	9	2	4	-	Spokane Wash	61	23 42	∠ı 14	2	2	∠ 1	-
Lincoln, Nebr.	27	21	6	-	-	-	-	Tacoma, Wash.	81	54	19	5	1	2	5
Minneapolis, Minn.	48	31	10	3	1	3	1	тота	0.000	15 700	1 000	054		100	500
Omana, Nebr.	70	38	19	/	3	3	6	IUIAL	8,680	"5,700	1,899	651	243	183	509
St Paul Minn	49	.34	11	3	1	-	2								
Wichita, Kans.	25	18	3	3	1	-	1								

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 812)

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



<sup>\*</sup> 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 (TaqMan<sup>®</sup>) 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.,  $\leq 4$  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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