

MORBIDITY AND MORTALITY WEEKLY REPORT

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## Vitamin A Deficiency Among Children Federated States of Micronesia, 2000

Vitamin A, a fat-soluble, heat-stable nutrient (retinol) derived from animal sources and certain fruits and vegetables, forms the basic component of retinal pigments and plays a vital role in optimal health, growth, and development. Vitamin A deficiency (VAD) (serum retinol $\leq 20 \mu \mathrm{~g} / \mathrm{dL}[\leq 0.7 \mu \mathrm{~mol} / \mathrm{L}]$ for subclinical VAD) can substantially increase the risk for childhood mortality from infectious and noninfectious causes (1-3). VAD impairs the mobilization and transport of iron and is usually associated with anemia and reduced growth $(4,5)$. VAD is a major public health problem in parts of Africa, Asia, Latin America, and the Western Pacific ( 1,6 ). In Chuuk and Pohnpei, two of the four Federated States of Micronesia (FSM) (2000 population: 107,008), nutrition surveys during the early 1990s documented VAD prevalences among the highest in the world (CDC, unpublished data, 1991; U.S. Public Health Service, unpublished data, 1994). In response to these findings, FSM health authorities, with support of the United Nations Children's Fund (UNICEF), began distributing vitamin A supplements in 1993 and 1998 in Chuuk and Pohnpei, respectively. In November 1999, FSM requested assistance from CDC in VAD assessment surveys of children in Kosrae and Yap, the other two FSM states. This report summarizes levels of serum retinol and prevalence of VAD and other indicators of nutritional status among children aged 24-59 months in Kosrae and Yap. The findings indicated low serum retinol levels and high VAD prevalences but no substantial stunting or wasting. A comprehensive, long-term national strategy is needed in FSM to promote sustained improvement in vitamin A status.

FSM is an island nation in the western Pacific Ocean. Kosrae state is a single island divided into 21 enumeration districts. Yap comprises four large islands and 134 small islands, primarily atolls, and is divided into 93 villages. For logistic reasons, only the three large islands connected by bridges (Yap proper) were included in the survey. These islands represent approximately $62 \%$ of the Yap population.

During January-February 2000, FSM health authorities, UNICEF, and CDC surveyed children aged 24-59 months and their mothers or reproductive-aged female caregivers in Kosrae and Yap. A separate cluster survey was performed in each state. The sample size for each state was calculated to yield a prevalence estimate with $5 \%$ error assuming $50 \%$ VAD prevalence. Because of uneven village sizes (range: 157-537 residents per village in Kosrae and one-580 in Yap), clusters were selected using the proportionate-to-population size sampling method. Investigators selected 13 villages in Kosrae and 29 villages in Yap. In each village, all children aged 24-59 months identified from a comprehensive list of vaccination records were eligible for the survey. Children were

## U.S. DEPARTMENT OF HEALTH \& HUMAN SERVICES

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excluded who had moved into the village during the 6 months preceding the survey or had experienced fever or diarrhea during the preceding 24 hours or cough for $\geq 4$ weeks. If more than one eligible child lived in a household, investigators randomly selected one for the survey.

Caregivers were asked about demographics, feeding history, availability of home garden, number of vitamin A-rich plants grown, and vitamin/mineral supplement intake for each child. Caregiver information included demographics, reproductive history, dietary and nutritional knowledge of vitamin $A$ and iron, and vitamin/mineral supplement intake.

Child height and weight were measured to calculate degree of stunting (height-forage $Z$-score, $\leq 2$ standard deviations [SD] below the reference median) and wasting (weight-for-height Z-score, $\leq 2$ SD below the reference median) based on World Health Organization (WHO)/CDC references. Blood was collected by venipuncture to assess serum retinol and hemoglobin. Hemoglobin levels were measured by the cyanmethemoglobin method using a portable HemoCue ${ }^{\text {TM * instrument. Children with hemoglobin }}$ $<11.0 \mathrm{~g} / \mathrm{dL}$ were considered anemic. Serum samples for retinol were analyzed at CDC using high-performance liquid chromatography under a strict quality-control protocol.

For each state's analysis, the survey sampling design was taken into account and the data were weighted to represent children aged 24-59 months. For Kosrae and Yap combined, the data were analyzed as a stratified cluster survey and weighted to represent the combined population of children aged 24-59 months. Because of the large proportion of children surveyed in each state ( $47.3 \%$ for Kosrae and $39.8 \%$ for Yap), the finite population correction was used to reduce the confidence interval.

A total of 270 children in Kosrae and 228 children in Yap was selected for the survey. Blood could not be collected from 13 children, leaving 267 children from Kosrae and 218 children from Yap included in these analyses. Only 485 children with retinol measurements were included in this report. Approximately half of these children were male, and they were distributed equally among ages 2,3 , and 4 years.

The mean serum retinol of all children surveyed was $20.4 \mu \mathrm{~g} / \mathrm{dL}(18.0 \mu \mathrm{~g} / \mathrm{dL}$ in Kosrae and $22.9 \mu \mathrm{~g} / \mathrm{dL}$ in Yap) (Table 1). The prevalence of VAD among all children was $48.8 \%$ and was higher in Kosrae (63.3\%) than Yap (33.8\%). The prevalences of stunting (16.6\%), wasting ( $3.8 \%$ ), and anemia ( $11.2 \%$ ) did not differ between the two states.

VAD risk factors among children for both states combined included residence in Kosrae, male sex, household size ( $>8$ persons), maternal income (no income), education (<8 years), maternal VAD, type of first solid food (local food) given to the child, anemia in children, and vitamin A-rich plants (<2) grown in the garden. However, the specific risk factors for VAD varied between the two states. In Kosrae, male sex, family income (no income), and type of first solid food (local food) were associated with VAD. In Yap, the significant risk factors were outer island ethnicity, maternal education ( $<8$ years), and vitamin A-rich plants (<2) grown in the garden. When stratified by each risk factor, all subgroups of children from Kosrae had VAD prevalence $>37 \%$, and on Yap all subgroups had VAD prevalence $>17 \%$.
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[^0]Vitamin A Deficiency - Continued
TABLE 1. Estimated prevalence* of children aged 24-59 months with vitamin A deficiency (VAD), stunting, wasting, and anemia and mean serum retinol Kosrae and Yap, Federated States of Micronesia, January-February 2000

| Condition | Kosrae$(n=267)$ |  | $\begin{gathered} \text { Yap } \\ (\mathrm{n}=218) \end{gathered}$ |  | $\begin{gathered} \text { Total } \\ (\mathrm{n}=485) \end{gathered}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | \% | (95\% CI ${ }^{\dagger}$ ) | \% | (95\% CI) | \% | (95\% CI) |
| VAD ${ }^{\text {¢ }}$ | 63.3 | (57.3-69.4) | 33.8 | (27.8-39.8) | 48.8 | (44.5-53.1) |
| Stunting ${ }^{\text {I }}$ | 17.1 | (13.1-21.2) | 16.2 | (10.9-21.5) | 16.6 | (13.3-19.9) |
| Wasting** | 4.8 | ( 1.0-8.7) | 2.8 | ( 0.0-6.9) | 3.8 | ( 1.0-6.7) |
| Anemia ${ }^{\text {t+ }}$ | 12.6 | ( 8.3-16.9) | 9.8 | ( 5.8-13.8) | 11.2 | ( 8.2-14.2) |
| Mean serum retinol ( $\mu \mathrm{g} / \mathrm{dL}$ ) | 18.0 | (17.1-18.9) | 22.9 | (21.9-23.9) | 20.4 | (19.8-21.1) |

* Computed to give each cluster an equal weight in the estimation of prevalence.
${ }^{\dagger}$ Confidence interval.
${ }^{\text {§ }}$ Serum retinol $\leq 20 \mu \mathrm{~g} / \mathrm{dL}$ or $\leq 0.7 \mu \mathrm{~mol} / \mathrm{L}$.
«Height-for-age $\leq 2$ standard deviations (SD) below the World Health Organization (WHO)/ CDC reference median.
** Weight-for-height $\leq 2$ SD below WHO/CDC reference median.
" Hemoglobin <11.0 g/dL.

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Editorial Note: The findings in this report indicate that VAD prevalence in virtually all subgroups of children examined in this survey was $\geq 20 \%$. WHO considers VAD prevalence $\geq 20 \%$ among children aged 6-71 months a severe public health problem (7). Compared with a healthy U.S. population ( 8 ), the serum retinol distributions among children from Kosrae and Yap are substantially lower (Figure 1), underscoring the potential risk for increased morbidity and mortality.

Children with VAD often are anemic, stunted, and occasionally wasted. However, in the population surveyed for this report, these indicators were not evident. The findings indicate relatively good nutritional status among these preschool-aged children. According to a proposed WHO classification for stunting and wasting among children aged $<5$ years, children from Kosrae and Yap have a low prevalence ( $<20 \%$ ) of stunting and an acceptable prevalence ( $<5 \%$ ) of wasting (9). These children also have lower prevalences of anemia than other Asia Pacific regions (10). This may be, in part, because of the absence of malaria.

The findings in this report are subject to at least one limitation. The survey lacked detailed dietary intake and medical data that would have provided a more complete assessment of the health status of each child.

To address severe VAD in children of Kosrae and Yap, vitamin A capsule distribution is the most practical immediate response. However, because of the magnitude and pervasiveness of VAD among preschool-aged children in all four FSM states and the likelihood that this problem extends to older children and adults, a comprehensive, long-term program is indicated. Although the risk factors for VAD identified in the survey do not fully explain the very low serum retinol distributions, they may be helpful in adjusting intervention programs to suit specific conditions in each state (e.g., promotion of vitamin Arich plants in household gardens). A national strategy should be aimed at sustained improvement of vitamin A status of the population. Sustained correction of VAD may be achieved only by combining the supplementation effort among children with food

Vitamin A Deficiency - Continued
FIGURE 1. Percentage distribution of serum retinol levels among children aged 24-59 months in Kosrae and Yap, Federated States of Micronesia, January-February 2000, and among children aged 48-71 months in the United States, 1988-1994*

*Third National Health and Nutrition Examination Survey.
fortification, diversification of dietary supply and consumption patterns, or public health education, as appropriate.
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## Measles Incidence Before and After Supplementary Vaccination Activities Lusaka, Zambia, 1996-2000

Zambia is a sub-Saharan African country (2000 population: nine million) with approximately $10 \%$ of the population residing in the capital of Lusaka. In Zambia, measles is one of the five major causes of morbidity and mortality among children aged <5 years. During 1991-1999, the annual number of reported measles cases ranged from 1698 to 23,518. In August 1999, supplementary vaccination activities (SVAs) were conducted in Lusaka among children aged 9 months-4 years. This report summarizes measles incidence, measured by the number of patients presenting to selected medical facilities, before and after SVAs and suggests that substantial measles transmission continued despite this intervention. To improve measles control in Zambia, nationwide supplementary measles vaccination is planned for children aged 9 months-14 years in 2002.

The routine vaccination program in Zambia includes one dose of measles vaccine administered at age 9 months. Reported national measles vaccination coverage ranged from $93 \%$ in 1996 to $72 \%$ in 1999, with wide fluctuations among districts. In Lusaka, reported vaccination coverage decreased from >95\% in 1996 to 54\% in 1999 (Ministry of Health, Zambia, unpublished data, 1999).

To accelerate measles control, SVAs were conducted in four urban districts (Kabwe, Kitwe, Lusaka, and Ndola) that comprised approximately one fourth of the Zambian population. During August 20-23, 1999, measles vaccine for children aged 9-59 months, vitamin A for children aged 6-59 months, and oral poliovirus vaccine for children aged 059 months were administered during the second round of polio subnational immunization days. Measles vaccine was administered to 197,077 children regardless of prior measles vaccination or disease history. The reported measles vaccination coverage for the four urban districts combined was $81 \%$; Lusaka district reported coverage of $83 \%$ (1).

To assess the results of the 1999 campaign, a field investigation was conducted in Lusaka district. Attendance registers were reviewed for patients with measles seen during August 1996-September 2000 at the main city hospital and three health-care centers located in different areas of the city. Data on age, date of disease onset, date of admission, and mortality were abstracted. Because measles in partially immunized populations is a seasonal disease characterized by periodic epidemics, the impact of SVAs was assessed by comparing the annual number of measles cases, deaths, and the age distribution of these before and after SVAs. Three consecutive 12-month periods before SVAs were compared with one 11-month period after SVAs. The post-SVA period started 1 month after the vaccination campaign was conducted (i.e., September 23, 1999August 22, 2000).

From September 23, 1996, through September 22, 1999, 2048 measles cases were recorded in Lusaka. The highest monthly incidence occurred during October 1996 and October 1998 (Figure 1). Case counts for the pre-SVA periods during 1997, 1998, and 1999 were 900,333 , and 815 , respectively; 496 cases were recorded during the postSVA period.

Of the 2048 patients with measles during the pre-SVA period, 869 (42\%) were aged $1-4$ years (Table 1). Following SVAs, among the 496 measles patients, 144 ( $29 \%$ ) were aged $1-4$ years (Chi-square test, $p<0.001$ ). The number of measles cases among persons aged $\geq 15$ years increased in each successive study period (Table 1). The age distribution of measles patients was similar for both inpatients and outpatients. For the four study periods, clinical outcome (e.g., death) was available for 239 ( $27 \%$ ) of 900 (1997),

Measles - Continued
FIGURE 1. Number of measles cases among persons presenting to selected health-care facilities, by month and year - Lusaka, Zambia, September 1996-August 2000


249 (75\%) of 333 (1998), 539 ( $66 \%$ ) of 815 (1999), and 294 (59\%) of 496 (2000) patients, respectively. Among patients with known outcome, 15 ( $6 \%$ ), 22 ( $9 \%$ ), 42 ( $8 \%$ ), and 18 (6\%) died during the four study periods. From September 23, 1996, through September 22, 1998, no measles deaths were recorded among persons aged $\geq 10$ years; two deaths and three deaths were recorded in this age group in the two latter study periods, respectively (Table 1).
Reported by: A Mtonga, E Synyinza, J Nyrenda, Central Board of Health; M Banda, Lusaka District Management Team, Lusaka, Zambia. World Health Organization Office for Eastern Africa, Nairobi, Kenya. Vaccine Preventable Disease Eradication Div, National Immunization Program; and an EIS Officer, CDC.
Editorial Note: During 1989-1990, the World Health Assembly and the World Summit for Children set goals of reducing measles morbidity by $90 \%$ and mortality by $95 \%$ compared with prevaccine estimates ( 2,3 ). Despite these goals and the existence of safe and effective measles vaccines for approximately 35 years, an estimated 30 million cases and 875,000 deaths are attributed to measles each year (4). In March 2001, the World Health Organization (WHO)/United Nations Children's Fund Global Strategic Plan established a goal of reducing global measles deaths by $50 \%$ by 2005 compared with 1999 levels (5). Strategies to decrease measles deaths include 1) achieving and sustaining high population immunity through vaccination; 2) enhancing measles surveillance with integration of epidemiologic and laboratory surveillance; and 3 ) improving measles case management. The plan recommends that a second opportunity for measles vaccination be offered to all children either through regular SVAs or as a second dose in the routine vaccination schedule if coverage with the first dose of measles vaccine is $>90 \%$.

Although SVAs in Lusaka did not have a major impact on measles morbidity and mortality during the 11-month period following the intervention, the expected seasonal peak during September-December 1999 appears to have been blunted and the propor-

TABLE 1. Number and percentage of measles cases and deaths among persons presenting to selected health-care facilities, by year - Lusaka, Zambia, September 1996-August 2000

| Age group (yrs) | Sep 23, 1996Sep 22, 1997 |  |  |  | Sep 23, 1997Sep 22, 1998 |  |  |  | Sep 23, 1998- <br> Sep 22, 1999 |  |  |  | Sep 23, 1999- <br> Aug 22, 2000 |  |  |  | Total |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Cases |  | Deaths |  | Cases |  | Deaths |  | Cases |  | Deaths |  | Cases |  | Deaths |  | $\frac{\overline{\text { Cases }}}{\text { No. }}$ | DeathsNo. |
|  | No. | (\%) | No. | (\%) | No. | (\%) | No. | (\%) | No. | (\%) | No. | (\%) | No. | (\%) | No. | (\%) |  |  |
| <1 | 350 | ( 39) | 7 | ( 47) | 110 | ( 33) | 9 | ( 41) | 281 | ( 35) | 20 | ( 48) | 176 | ( 36) | 8 | ( 44) | 917 | 44 |
| 1-4 | 381 | ( 42) | 6 | ( 40) | 148 | ( 45) | 12 | ( 55) | 340 | ( 42) | 17 | ( 41) | 144 | ( 29) | 6 | ( 33) | 1013 | 41 |
| 5-9 | 95 | ( 11) | 2 | ( 13) | 42 | ( 12) | 1 | ( 4) | 99 | ( 12) | 3 | ( 7) | 99 | ( 20) | 1 | ( 6) | 335 | 7 |
| 10-14 | 65 | ( 7) | 0 |  | 21 | ( 6) | 0 |  | 60 | ( 7) | 1 | ( 2) | 36 | ( 7) | 1 | ( 6) | 182 | 2 |
| 15-19 | 6 | ( 1) | 0 |  | 4 | ( 1) | 0 |  | 18 | ( 2) | 1 | ( 2) | 16 | ( 3) | 2 | ( 11) | 44 | 3 |
| $\geq 20$ | 3 | ( 0) | 0 |  | 8 | ( 3) | 0 |  | 17 | ( 2) | 0 |  | 25 | ( 5) | 0 |  | 53 | 0 |
| Total | 900 | (100) | 15 | (100) | 333 | (100) | 22 | (100) | 815 | (100) | 42 | (100) | 496 | (100) | 18 | (100) | 2544 | 97 |

## Measles - Continued

tion of cases among persons aged 1-4 years was reduced. SVAs had limited impact for two major reasons. First, vaccination coverage during SVAs was <85\%, and reported coverage may have overestimated actual coverage. In Burkina Faso, cluster surveys in six urban districts after SVAs in 1998 indicated that measles vaccination coverage was $15 \%-52 \%$ lower than reported coverage ( 6 ). Second, routine coverage declined during 1997-1999. Conducting SVAs in a setting where routine coverage is declining results in an increase in the number of susceptible infants.

Other possible reasons for the limited impact of SVAs in Lusaka are 1) only children aged 9-59 months were targeted for vaccination, and approximately $20 \%$ of reported cases occurred among persons aged $\geq 5$ years; and 2) SVAs were limited to urban areas. Preliminary data suggest that, because of the high contagiousness of measles and migration of susceptible persons from rural areas, targeted urban campaigns have limited impact on transmission, especially during epidemics (World Health Organization Office for Eastern Africa, unpublished data, 1999).

At least four factors contributed to low coverage during SVAs in Lusaka. First, measles vaccine and injection equipment arrived late ( 1 day before the start of the second round of polio subnational immunization days). Second, donor funds for operational costs were delayed, resulting in insufficient funds for personnel and fewer vaccination posts. Third, health-care workers went on strike on one of the campaign days because of nonpayment of the full government allowances. Finally, supervision and monitoring were inadequate at the central and district levels (1).

During the 11-month period following SVAs, six measles deaths ( $33 \%$ of the annual total) occurred among children who should have received measles vaccination during the campaign. The increase in the number of measles cases among older persons in the latter two study periods may be the result of migration of susceptible persons into Lusaka or changes in use of health-care facilities included in the study.

Improvements in the vaccination infrastructure in Zambia, a reversal of the declining trend in routine vaccination coverage, improvements in monitoring of coverage, high coverage ( $\geq 95 \%$ ) in future SVAs that target a wider age group and geographic area, and strengthening of surveillance are needed to decrease measles-associated morbidity and mortality in Zambia. Advocacy and improved partner coordination are needed to further reduce measles morbidity and mortality.

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## Notice to Readers

## National HIV Testing Day — June 27, 2001

The National Association of People with AIDS will sponsor the 7th annual National HIV Testing Day on June 27. Testing Day is a nationwide campaign promoting human immunodeficiency virus (HIV) education and voluntary HIV counseling, testing, and referral to encourage persons at risk for HIV infection to know their HIV status and reduce their risks for HIV transmission.

Public health and other partners are encouraged to support community HIV education and counseling, testing, and referral efforts during the week of June 27. Activities can include sponsoring mobile HIV counseling, testing, and referral units; participating in health fairs where HIV education, counseling, testing, and referral are offered; and partnering with local media to promote HIV-prevention and testing messages.

Additional information about HIV counseling, testing, and referral services is available at http://www.hivtest.org.

## Notice to Readers

## Availability of Health Information for International Travel

CDC's Division of Global Migration and Quarantine (DQ), National Center for Infectious Diseases has released the 2001-2002 edition of Health Information for International Travel (The Yellow Book). The new edition contains updated vaccination information; updated information on malaria risk and prophylaxis (by country); updated and revised disease-specific text and tables; new sections on altitude sickness and international adoption; updated country listings; and improved maps and indexing. The Yellow Book can be purchased from the Public Health Foundation, telephone (877) 252-1200 or at http://bookstore.phf.org*. DO will no longer distribute the book.

[^1]FIGURE I. Selected notifiable disease reports, United States, comparison of provisional 4-week totals ending June 16, 2001, with historical data


* No measles cases were reported for the current 4-week period yielding a ratio for week 24 of zero (0).
${ }^{\dagger}$ Ratio of current 4-week total to mean of 154 -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 June 16, 2001 (24th Week)

|  | Cum. 2001 |  | Cum. 2001 |
| :---: | :---: | :---: | :---: |
| Anthrax | - | Poliomyelitis, paralytic | - |
| Brucellosis* | 26 | Psittacosis* | 4 |
| Cholera | 2 | Q fever* | 7 |
| Cyclosporiasis* | 70 | Rabies, human | - |
| Diphtheria | 1 | Rocky Mountain spotted fever (RMSF) | 107 |
| Ehrlichiosis: human granulocytic (HGE)* | 28 | Rubella, congenital syndrome | - |
| human monocytic (HME)* | 16 | Streptococcal disease, invasive, group A | 1,791 |
| Encephalitis: California serogroup viral* | - | Streptococcal toxic-shock syndrome* | 26 |
| eastern equine* | - | Syphilis, congenital ${ }^{\text {a }}$ | 84 |
| St.Louis* | - | Tetanus | 12 |
| western equine* | - | Toxic-shock syndrome | 58 |
| Hansen disease (leprosy)* | 28 | Trichinosis | 5 |
| Hantavirus pulmonary syndrome* ${ }^{\text {+ }}$ | 4 | Tularemia* | 25 |
| Hemolytic uremic syndrome, postdiarrheal* | 31 | Typhoid fever | 106 |
| HIV infection, pediatric*s Plague | 84 | Yellow fever | - |

[^2]TABLE II. Provisional cases of selected notifiable diseases, United States,
weeks ending June 16, 2001, and June 17, 2000 (24th Week)

| Reporting Area | AIDS |  | Chlamydia ${ }^{\dagger}$ |  | Cryptosporidiosis |  | Escherichia coli 0157:H7* |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | NETSS | PHLIS |  |
|  | Cum. $2001{ }^{\text {n }}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2000 \\ & \hline \end{aligned}$ |  |  | Cum. $2001$ | Cum. 2000 | $\begin{aligned} & \hline \text { Cum. } \\ & 2001 \\ & \hline \end{aligned}$ | Cum. <br> 2000 | Cum. <br> 2001 | Cum. <br> 2000 | Cum. <br> 2001 | Cum. <br> 2000 |
| UNITED STATES | 15,380 | 16,292 | 292,245 | 314,493 |  |  | 692 | 701 | 622 | 913 | 447 | 792 |
| NEW ENGLAND | 586 | 987 | 10,336 | 10,559 | 29 | 44 | 67 | 99 | 48 | 101 |
| Maine | 18 | 16 | 572 | 625 | 3 | 9 | 10 | 6 | 7 | 6 |
| N.H. | 14 | 13 | 563 | 476 | 1 | 2 | 12 | 5 | 7 | 8 |
| Vt. | 10 | 1 | 270 | 247 | 13 | 13 | 2 | 4 | 1 | 6 |
| Mass. | 332 | 669 | 4,673 | 4,496 | 7 | 12 | 27 | 51 | 21 | 45 |
| R.I. | 44 | 40 | 1,267 | 1,196 | 3 | 2 | 4 | 4 | 2 | 6 |
| Conn. | 168 | 248 | 2,991 | 3,519 | 2 | 6 | 12 | 29 | 10 | 30 |
| MID. ATLANTIC | 3,108 | 3,928 | 32,184 | 29,725 | 77 | 134 | 48 | 123 | 38 | 91 |
| Upstate N.Y. | 182 | 181 | 5,435 | 524 | 36 | 34 | 37 | 87 | 25 | 38 |
| N.Y. City | 1,587 | 2,313 | 13,310 | 12,755 | 36 | 77 | 4 | 8 | 3 | 5 |
| N.J. | 746 | 832 | 4,079 | 5,580 | 2 | 5 | 7 | 28 | 10 | 25 |
| Pa. | 593 | 602 | 9,360 | 10,866 | 3 | 18 | N | N | - | 23 |
| E.N. CENTRAL | 1,163 | 1,590 | 41,957 | 53,815 | 222 | 155 | 148 | 176 | 99 | 125 |
| Ohio | 198 | 196 | 5,226 | 14,153 | 51 | 22 | 42 | 27 | 33 | 28 |
| Ind. | 119 | 146 | 6,783 | 5,985 | 27 | 11 | 26 | 17 | 11 | 23 |
| 1 II . | 558 | 1,002 | 11,523 | 15,749 | 1 | 22 | 30 | 53 | 19 | 36 |
| Mich. | 224 | 184 | 13,968 | 10,331 | 61 | 23 | 24 | 30 | 19 | 23 |
| Wis. | 64 | 62 | 4,457 | 7,597 | 82 | 77 | 26 | 49 | 17 | 15 |
| W.N. CENTRAL | 355 | 358 | 15,280 | 17,697 | 40 | 49 | 78 | 112 | 74 | 127 |
| Minn. | 67 | 78 | 2,752 | 3,645 | - | 11 | 30 | 26 | 37 | 45 |
| Iowa | 40 | 36 | 1,490 | 2,366 | 18 | 14 | 13 | 18 | 7 | 14 |
| Mo. | 168 | 149 | 5,463 | 5,992 | 7 | 7 | 14 | 32 | 18 | 30 |
| N. Dak. | 1 | - | 445 | 419 | 3 | 3 | 1 | 6 | 3 | 6 |
| S. Dak. | 9 | 3 | 840 | 815 | 4 | 5 | 6 | 3 | 5 | 9 |
| Nebr. | 27 | 25 | 1,546 | 1,679 | 8 | 6 | 6 | 19 | - | 18 |
| Kans. | 43 | 67 | 2,744 | 2,781 | - | 3 | 8 | 8 | 4 | 5 |
| S. ATLANTIC | 4,910 | 4,276 | 57,213 | 57,839 | 139 | 104 | 69 | 73 | 29 | 61 |
| Del. | 84 | 77 | 1,335 | 1,364 | 1 | 3 | - | 1 | - | - |
| Md. | 591 | 455 | 5,455 | 5,924 | 27 | 6 | 4 | 10 | - | 1 |
| D.C. | 360 | 315 | 1,515 | 1,445 | 9 | 4 | - | - | U | U |
| Va . | 388 | 295 | 7,983 | 7,313 | 8 | 4 | 18 | 15 | 8 | 15 |
| W. Va. | 35 | 27 | 1,076 | 968 | - | 3 | 2 | 3 | - | 3 |
| N.C. | 212 | 255 | 7,787 | 9,904 | 14 | 9 | 24 | 14 | 11 | 11 |
| S.C. | 340 | 293 | 5,393 | 4,539 | - | - | 2 | 4 | 2 | 5 |
| Ga. | 579 | 429 | 11,449 | 11,626 | 46 | 55 | 10 | 9 | 2 | 12 |
| Fla. | 2,321 | 2,130 | 15,220 | 14,756 | 34 | 20 | 9 | 17 | 6 | 14 |
| E.S. CENTRAL | 836 | 767 | 21,233 | 22,770 | 16 | 22 | 28 | 42 | 18 | 31 |
| Kу. | 181 | 98 | 3,920 | 3,698 | 1 | 1 | 8 | 14 | 8 | 13 |
| Tenn. | 249 | 314 | 6,769 | 6,611 | 3 | 5 | 13 | 16 | 9 | 13 |
| Ala. | 182 | 206 | 5,350 | 6,992 | 5 | 9 | 6 | 3 | - | 3 |
| Miss. | 224 | 149 | 5,194 | 5,469 | 7 | 7 | 1 | 9 | 1 | 2 |
| W.S. CENTRAL | 1,617 | 1,475 | 46,627 | 47,646 | 16 | 35 | 31 | 73 | 39 | 96 |
| Ark. | 89 | 92 | 3,364 | 2,860 | 2 | 1 | 2 | 30 |  | 26 |
| La. | 403 | 265 | 7,768 | 8,662 | 7 | 8 | 2 | 6 | 14 | 18 |
| Okla. | 90 | 112 | 4,953 | 4,181 | 5 | 3 | 10 | 7 | 10 | 6 |
| Tex. | 1,035 | 1,006 | 30,542 | 31,943 | 2 | 23 | 17 | 30 | 15 | 46 |
| MOUNTAIN | 636 | 552 | 15,646 | 18,587 | 51 | 34 | 69 | 75 | 40 | 53 |
| Mont. | 12 | 7 | 1,014 | 730 | 5 | 5 | 5 | 11 | - | - |
| Idaho | 14 | 11 | 778 | 864 | 6 | 3 | 10 | 9 | - | 5 |
| Wyo. | 1 | 2 | 368 | 345 | 10 | 5 | 1 | 4 | 1 | 5 |
| Colo. | 126 | 130 | 1,441 | 5,617 | 16 | 8 | 29 | 28 | 20 | 17 |
| N. Mex. | 50 | 58 | 2,542 | 2,324 | 9 | 1 | 6 | 3 | 2 | 3 |
| Ariz. | 258 | 170 | 6,631 | 5,803 | 2 | 2 | 10 | 15 | 9 | 16 |
| Utah | 53 | 57 | 697 | 1,171 | 11 | 8 | 5 | 4 | 7 | 5 |
| Nev. | 122 | 117 | 2,175 | 1,733 | 2 | 2 | 3 | 1 | 1 | 2 |
| PACIFIC | 2,169 | 2,359 | 51,769 | 55,855 | 102 | 124 | 84 | 140 | 62 | 107 |
| Wash. | 247 | 243 | 6,370 | 5,856 | N | U | 20 | 38 | 13 | 59 |
| Oreg. | 104 | 86 | 1,351 | 3,220 | 5 | 6 | 19 | 21 | 13 | 24 |
| Calif. | 1,787 | 1,962 | 42,423 | 44,017 | 95 | 118 | 42 | 72 | 34 | 16 |
| Alaska | 9 | 5 | 1,166 | 1,166 | 2 | - | 1 | 1 | 2 | 1 |
| Hawaii | 22 | 63 | 459 | 1,596 | 2 | - | 2 | 8 | 2 | 7 |
| Guam |  |  | - | $240$ | - | - | N | N | U | U |
| P.R. | 535 | 431 | 2,154 | U | - | - | N | 5 | U | U |
| V.I. | 2 | 18 | 53 | - | - | - | - | - | U | U |
| Amer. Samoa | - | - | U | U | U | U | U | U | U | U |
| C.N.M.I. | - | - | 54 | U | - | U | - | U | U | U |

$\mathrm{N}:$ Not notifiable. U: Unavailable. $\quad-:$ No reported cases. $\quad$ C.N.M.I.: Commonwealth of Northern Mariana Islands.

* Individual cases can be reported through both the National Electronic Telecommunications System for Surveillance (NETSS) and the Public Health Laboratory Information System (PHLIS).
${ }^{\dagger}$ Chlamydia refers to genital infections caused by C. trachomatis. Totals reported to the Division of STD Prevention, NCHSTP.
${ }^{\text {§ }}$ Updated monthly from reports to the Division of HIV/AIDS Prevention - Surveillance and Epidemiology, National Center for HIV, STD, and TB Prevention. Last update May 29, 2001.

TABLE II. (Cont'd) Provisional cases of selected notifiable diseases, United States, weeks ending June 16, 2001, and June 17, 2000 (24th Week)

| Reporting Area | Gonorrhea |  | Hepatitis C; Non-A, Non-B |  | Legionellosis |  | Listeriosis <br> Cum. <br> 2001 | Lyme Disease |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \hline \text { Cum. } \\ & 2001 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2000 \\ & \hline \end{aligned}$ | $\begin{gathered} \hline \text { Cum. } \\ 2001 \end{gathered}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2000 \\ & \hline \end{aligned}$ | $\begin{gathered} \hline \text { Cum. } \\ 2001 \\ \hline \end{gathered}$ | $\begin{gathered} \hline \text { Cum. } \\ 2000 \\ \hline \end{gathered}$ |  | $\begin{aligned} & \hline \text { Cum. } \\ & 2001 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2000 \\ & \hline \end{aligned}$ |
| UNITED STATES | 132,862 | 155,192 | 1,015 | 1,585 | 307 | 324 | 173 | 1,349 | 3,461 |
| NEW ENGLAND | 2,831 | 2,909 | 13 | 13 | 18 | 23 | 20 | 395 | 762 |
| Maine | 62 | 35 | - | 1 | 1 | 2 | - | - | - |
| N.H. | 61 | 49 | - | - | 4 | 2 | - | 52 | 36 |
| Vt. | 38 | 29 | 5 | 3 | 4 | 1 | - | 1 | 7 |
| Mass. | 1,431 | 1,145 | 8 | 6 | 4 | 10 | 12 | 51 | 297 |
| R.I. | 326 | 293 | - | 3 | 1 | 3 | 1 | 47 | 26 |
| Conn. | 913 | 1,358 | - | - | 4 | 5 | 7 | 244 | 396 |
| MID. ATLANTIC | 14,622 | 16,529 | 35 | 340 | 31 | 82 | 28 | 581 | 2,099 |
| Upstate N.Y. | 3,375 | 2,951 | 23 | 14 | 20 | 23 | 12 | 412 | 495 |
| N.Y. City | 5,569 | 5,326 | - | - | 4 | 11 | 5 | 1 | 75 |
| N.J. | 1,346 | 3,120 | - | 303 | 4 | 8 | 6 | 83 | 871 |
| Pa . | 4,332 | 5,132 | 12 | 23 | 3 | 40 | 5 | 85 | 658 |
| E.N. CENTRAL | 22,517 | 30,660 | 103 | 120 | 79 | 87 | 22 | 46 | 177 |
| Ohio | 3,322 | 8,025 | 5 | 3 | 44 | 35 | 5 | 35 | 15 |
| Ind. | 2,787 | 2,714 | 1 | - | 7 | 9 | 3 | 1 | 4 |
| III. | 7,002 | 9,540 | 10 | 12 | - | 8 | - | - | 11 |
| Mich. | 8,024 | 7,186 | 87 | 105 | 19 | 17 | 13 | $\overline{-}$ | 7 |
| Wis. | 1,382 | 3,195 | - | - | 9 | 18 | 1 | 10 | 140 |
| W.N. CENTRAL | 6,405 | 7,563 | 357 | 274 | 28 | 17 | 5 | 51 | 45 |
| Minn. | 871 | 1,456 | 1 | 4 | 6 | 1 | - | 30 | 15 |
| Jowa | 392 | 481 | 351 | 1 | 5 | 3 | - | 8 | - |
| Mo. | 3,284 | 3,661 | 351 | 263 | 10 | 10 | 2 | 9 | 16 |
| N. Dak. | 16 | 33 | - | - | 1 | - | - | - | - |
| S. Dak. | 129 | 122 | - | - | 1 | 1 | - | $\bar{\square}$ | - |
| Nebr. | 540 | 627 | 1 | 2 | 4 | - | 1 | 1 | 2 |
| Kans. | 1,173 | 1,183 | 4 | 4 | 1 | 2 | 2 | 3 | 12 |
| S. ATLANTIC | 34,590 | 40,828 | 51 | 39 | 57 | 56 | 29 | 210 | 301 |
| Del. | 729 | 769 | - | 2 | - | 4 | - | 6 | 59 |
| Md. | 3,090 | 4,010 | 10 | 3 | 14 | 13 | 2 | 139 | 180 |
| D.C. | 1,282 | 1,023 | - | 1 | 2 | 7 | - | 7 | 1 |
| Va . | 4,007 | 4,649 | $\overline{-}$ | 1 | 7 | 7 | 5 | 40 | 38 |
| W. Va. | 278 | 309 | 6 | 5 | N | N | 4 | 1 | 8 |
| N.C. | 6,488 | 8,371 | 8 | 13 | 5 | 8 | - | 6 | 8 |
| S.C. | 3,910 | 4,336 | 3 | 1 | 1 | 2 | 2 | 2 | 2 |
| Ga. | 6,214 | 7,148 | - | 2 | 4 | 4 | 8 | - | - |
| Fla. | 8,592 | 10,213 | 24 | 11 | 24 | 18 | 8 | 9 | 5 |
| E.S. CENTRAL | 13,577 | 16,057 | 105 | 217 | 28 | 10 | 8 | 8 | 15 |
| Ky. | 1,527 | 1,541 | 3 | 17 | 7 | 5 | 2 | 2 | 4 |
| Tenn. | 4,407 | 5,078 | 30 | 49 | 12 | 2 | 3 | 4 | 9 |
| Ala. | 4,321 | 5,347 | 2 | 7 | 7 | 2 | 3 | 2 | 1 |
| Miss. | 3,322 | 4,091 | 70 | 144 | 2 | 1 | - | - | 1 |
| W.S. CENTRAL | 22,400 | 24,594 | 161 | 471 | 5 | 13 | 5 | 7 | 23 |
| Ark. | 2,064 | 1,539 | 3 | 3 | - | - | 1 | - | - |
| La. | 5,330 | 6,107 | 74 | 244 | 2 | 6 | - | 1 | 2 |
| Okla. | 2,237 | 1,808 | 3 | 2 | 3 | 1 | 1 | - | - |
| Tex. | 12,769 | 15,140 | 81 | 222 | - | 6 | 3 | 6 | 21 |
| MOUNTAIN | 4,638 | 4,741 | 133 | 32 | 25 | 16 | 18 | 5 | 1 |
| Mont. | 53 | 25 | - | 2 | - | - | - | - | - |
| Idaho | 33 | 43 | 1 | 3 | 1 | 3 | 1 | 2 | - |
| Wyo. | 29 | 30 | 101 | 1 | 1 | - | 1 | 1 | 1 |
| Colo. | 1,416 | 1,496 | 11 | 5 | 7 | 6 | 3 | 1 | - |
| N. Mex. | 410 | 491 | 10 | 6 | 1 | 1 | 3 | - | - |
| Ariz. | 1,842 | 1,903 | 6 | 11 | 9 | 2 | 4 | - | - |
| Utah | 62 | 119 | 1 | - | 4 | 4 | 1 | - | - |
| Nev. | 793 | 634 | 3 | 4 | 2 | - | 5 | 1 | - |
| PACIFIC | 11,282 | 11,311 | 57 | 79 | 36 | 20 | 38 | 46 | 38 |
| Wash. | 1,368 | 1,008 | 15 | 10 | 6 | 8 | 2 | 2 | - |
| Oreg. | 209 | 404 | 8 | 15 | N | N | 1 | 3 | 3 |
| Calif. | 9,432 | 9,540 | 34 | 54 | 29 | 12 | 34 | 41 | 34 |
| Alaska | 151 | 151 | - | - | - | - | 1 | N | 1 |
| Hawaii | 122 | 208 | - | - | 1 | - | 1 | N | N |
| Guam | - | 25 | - | 1 | - | - | - | - | - |
| P.R. | 509 | 255 | 1 | 1 | 2 | - | - | N | N |
| V.I. | 6 | - | - | - | - | - | - | - | - |
| Amer. Samoa | U | U | U | U | U | U | - | U | U |
| C.N.M.I. | 3 | U | - | U | - | U | - | - | U |

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

TABLE II. (Cont'd) Provisional cases of selected notifiable diseases, United States, weeks ending June 16, 2001, and June 17, 2000 (24th Week)

| Reporting Area | Malaria |  | Rabies, Animal |  | Salmonellosis* |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | NETSS | PHLIS |  |
|  | $\begin{aligned} & \hline \text { Cum. } \\ & 2001 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2000 \\ & \hline \end{aligned}$ |  |  | $\begin{aligned} & \hline \text { Cum. } \\ & 2001 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2000 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2001 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2000 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2001 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2000 \\ & \hline \end{aligned}$ |
| UNITED STATES | 389 | 526 | 2,619 | 3,009 | 11,326 | 13,349 | 9,222 | 11,912 |
| NEW ENGLAND | 30 | 21 | 275 | 336 | 869 | 798 | 806 | 814 |
| Maine | 3 | 4 | 34 | 65 | 96 | 55 | 74 | 35 |
| N.H. | 2 | 1 | 7 | 4 | 71 | 53 | 65 | 51 |
| V . | - | 2 | 35 | 32 | 35 | 51 | 34 | 51 |
| Mass. | 9 | 9 | 88 | 108 | 485 | 467 | 393 | 459 |
| R.I. | 3 | 3 | 26 | 20 | 51 | 32 | 67 | 54 |
| Conn. | 13 | 2 | 85 | 107 | 131 | 140 | 173 | 164 |
| MID. ATLANTIC | 68 | 113 | 382 | 518 | 1,133 | 2,026 | 1,485 | 2,070 |
| Upstate N.Y. | 19 | 23 | 294 | 314 | 414 | 449 | 376 | 536 |
| N.Y. City | 35 | 59 | 11 | 4 | 389 | 527 | 470 | 542 |
| N.J. | 8 | 14 | 70 | 69 | 204 | 526 | 218 | 404 |
| Pa. | 6 | 17 | 7 | 131 | 126 | 524 | 421 | 588 |
| E.N. CENTRAL | 44 | 62 | 23 | 32 | 1,660 | 1,913 | 1,232 | 1,213 |
| Ohio | 9 | 6 | 8 | 5 | 587 | 458 | 412 | 434 |
| Ind. | 10 | 3 | 1 | - | 166 | 203 | 141 | 241 |
| III. | 1 | 34 | 3 | 1 | 383 | 603 | 255 | 1 |
| Mich. | 16 | 13 | 11 | 18 | 302 | 379 | 275 | 401 |
| Wis. | 8 | 6 | - | 8 | 222 | 270 | 149 | 136 |
| W.N. CENTRAL | 16 | 24 | 152 | 265 | 730 | 841 | 750 | 989 |
| Minn. | 6 | 7 | 18 | 36 | 211 | 170 | 279 | 271 |
| lowa | 1 | 1 | 31 | 38 | 122 | 107 | 95 | 118 |
| Mo. | 5 | 5 | 13 | 14 | 196 | 279 | 247 | 341 |
| N. Dak. | - | 2 | 20 | 69 | 14 | 25 | 22 | 37 |
| S. Dak. | - | - | 21 | 55 | 49 | 34 | 39 | 41 |
| Nebr. | 2 | 3 | 1 | - | 55 | 81 | - | 68 |
| Kans. | 2 | 6 | 48 | 53 | 83 | 145 | 68 | 113 |
| S. ATLANTIC | 110 | 117 | 961 | 1,056 | 2,725 | 2,246 | 1,642 | 1,914 |
| Del. | 1 | 3 | 18 | 20 | 32 | 39 | 33 | 49 |
| Md. | 43 | 38 | 114 | 211 | 283 | 297 | 262 | 296 |
| D.C. | 4 | 6 | - | - | 32 | 26 | U | U |
| Va . | 24 | 26 | 204 | 265 | 450 | 320 | 328 | 327 |
| W. Va. | 1 | - | 60 | 56 | 41 | 54 | 48 | 54 |
| N.C. | 2 | 10 | 275 | 264 | 421 | 314 | 272 | 306 |
| S.C. | 4 | 1 | 55 | 56 | 290 | 200 | 272 | 165 |
| Ga. | 8 | 4 | 135 | 123 | 393 | 373 | 351 | 534 |
| Fla. | 23 | 29 | 100 | 61 | 783 | 623 | 76 | 183 |
| E.S. CENTRAL | 10 | 17 | 87 | 85 | 672 | 644 | 416 | 534 |
| Ky. | 2 | 3 | 10 | 12 | 126 | 142 | 81 | 100 |
| Tenn. | 5 | 5 | 61 | 47 | 189 | 157 | 187 | 236 |
| Ala. | 3 | 8 | 16 | 26 | 215 | 179 | 109 | 167 |
| Miss. | - | 1 | - | - | 142 | 166 | 39 | 31 |
| W.S. CENTRAL | 6 | 32 | 481 | 468 | 1,048 | 1,532 | 898 | 902 |
| Ark. | 3 | 1 | - | - | 162 | 156 | 92 | 107 |
| La. | 1 | 4 | - | - | 240 | 260 | 214 | 187 |
| Okla. | 1 | 3 | 39 | 33 | 100 | 129 | 81 | 104 |
| Tex. | 1 | 24 | 442 | 435 | 546 | 987 | 511 | 504 |
| MOUNTAIN | 22 | 20 | 105 | 113 | 826 | 1,060 | 607 | 988 |
| Mont. | 2 | 1 | 16 | 30 | 30 | 50 | - |  |
| Idaho | 2 | - | 1 | 1 | 47 | 58 | 4 | 49 |
| Wyo. | - | - | 16 | 31 | 28 | 27 | 22 | 25 |
| Colo. | 10 | 11 | - | $\overline{7}$ | 229 | 334 | 200 | 314 |
| N. Mex. | 1 | - | 4 | 7 | 107 | 95 | 75 | 93 |
| Ariz. | 2 | 2 | 66 | 41 | 237 | 237 | 206 | 258 |
| Utah | 3 | 3 | 1 | 2 | 88 | 153 | 77 | 154 |
| Nev. | 2 | 3 | 1 | 1 | 60 | 106 | 23 | 95 |
| PACIFIC | 83 | 120 | 153 | 136 | 1,663 | 2,289 | 1,386 | 2,488 |
| Wash. | 3 | 9 | - | - | 189 | 181 | 205 | 269 |
| Oreg. | 5 | 22 | 12 | 113 | 77 | 142 | 125 | 185 |
| Calif. | 71 | 83 | 120 | 113 | 1,312 | 1,863 | 930 | 1,931 |
| Alaska | 1 | - | 33 | 23 | 19 | 23 | 2 | 19 |
| Hawaii | 3 | 6 | - | - | 66 | 80 | 124 | 84 |
| Guam | - | - | - | ${ }^{-}$ | - | 13 | U | U |
| P.R. | 3 | 4 | 61 | 30 | 274 | 205 | U | U |
| V.I. | - | - | - | - | - | - | U | U |
| Amer. Samoa | U | U | U | U | U | U | U | U |
| C.N.M.I. | - | U | - | U | 5 | U | U | U |

N : Not notifiable.
U: Unavailable.

- No reported cases.
* Individual cases can be reported through both the National Electronic Telecommunications System for Surveillance (NETSS) and the Public Health Laboratory Information System (PHLIS).

TABLE II. (Cont'd) Provisional cases of selected notifiable diseases, United States, weeks ending June 16, 2001, and June 17, 2000 (24th Week)

| Reporting Area | Shigellosis* |  |  |  | Syphilis (Primary \& Secondary) |  | Tuberculosis |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | NETSS |  | PHLIS |  |  |  |  |  |
|  | $\begin{gathered} \hline \text { Cum. } \\ 2001 \end{gathered}$ | $\begin{gathered} \hline \text { Cum. } \\ 2000 \end{gathered}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2001 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2000 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2001 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2000 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2001 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2000 \end{aligned}$ |
| UNITED STATES | 5,587 | 8,637 | 2,792 | 4,869 | 2,439 | 2,861 | 4,857 | 6,040 |
| NEW ENGLAND | 87 | 155 | 86 | 139 | 21 | 40 | 193 | 171 |
| Maine | 4 | 5 | 1 |  | - | 1 | 5 | 3 |
| N.H. | 2 | 1 | 2 | 6 | 1 | 1 | 9 | 4 |
| V . | 3 | 1 | 2 | - | 2 | - | 2 | 3 |
| Mass. | 57 | 112 | 52 | 93 | 11 | 27 | 106 | 101 |
| R.I. | 7 | 10 | 11 | 13 | 2 | 3 | 19 | 17 |
| Conn. | 14 | 26 | 18 | 27 | 5 | 8 | 52 | 43 |
| MID. ATLANTIC | 511 | 1,268 | 343 | 774 | 192 | 134 | 1,005 | 987 |
| Upstate N.Y. | 277 | 392 | 15 | 147 | 6 | 6 | 134 | 122 |
| N.Y. City | 154 | 582 | 196 | 366 | 115 | 57 | 529 | 533 |
| N.J. | 40 | 185 | 67 | 158 | 43 | 29 | 225 | 232 |
| Pa . | 40 | 109 | 65 | 103 | 28 | 42 | 117 | 100 |
| E.N. CENTRAL | 869 | 1,744 | 423 | 540 | 405 | 619 | 521 | 576 |
| Ohio | 370 | 115 | 188 | 96 | 41 | 34 | 79 | 125 |
| Ind. | 117 | 605 | 19 | 58 | 81 | 205 | 38 | 56 |
| III. | 164 | 480 | 105 | 2 | 106 | 214 | 284 | 272 |
| Mich. | 139 | 381 | 98 | 353 | 167 | 136 | 88 | 84 |
| Wis. | 79 | 163 | 13 | 31 | 10 | 30 | 32 | 39 |
| W.N. CENTRAL | 625 | 715 | 461 | 635 | 28 | 39 | 187 | 227 |
| Minn. | 217 | 136 | 240 | 220 | 12 | 4 | 100 | 76 |
| Iowa | 133 | 181 | 84 | 149 | 1 | 10 | 9 | 19 |
| Mo. | 123 | 301 | 81 | 209 | 7 | 20 | 52 | 83 |
| N. Dak. | 13 | 2 | 2 | 3 | - | - | 3 | - |
| S. Dak. | 67 | 2 | 37 | 1 | - | - | 6 | 9 |
| Nebr. | 32 | 28 | - | 16 | - | 2 | 17 | 10 |
| Kans. | 40 | 65 | 17 | 37 | 8 | 3 | - | 30 |
| S. ATLANTIC | 876 | 988 | 260 | 383 | 924 | 929 | 1,001 | 1,210 |
| Del. | 4 | 7 | 4 | 6 | 5 | 4 | 9 | 2 |
| Md. | 52 | 46 | 26 | 22 | 108 | 138 | 77 | 107 |
| D.C. | 23 | 13 | U | U | 19 | 20 | 15 | 3 |
| Va . | 71 | 128 | 27 | 133 | 63 | 63 | 103 | 128 |
| W. Va. | 4 | 3 | 6 | 3 | - | 1 | 14 | 15 |
| N.C. | 170 | 56 | 78 | 28 | 217 | 274 | 149 | 160 |
| S.C. | 90 | 57 | 46 | 46 | 123 | 99 | 96 | 135 |
| Ga. | 99 | 115 | 57 | 90 | 129 | 160 | 173 | 250 |
| Fla. | 363 | 563 | 16 | 55 | 260 | 170 | 365 | 410 |
| E.S. CENTRAL | 573 | 416 | 223 | 283 | 275 | 419 | 307 | 416 |
| Ky. | 221 | 108 | 96 | 43 | 22 | 48 | 42 | 47 |
| Tenn. | 41 | 194 | 38 | 216 | 151 | 258 | 99 | 165 |
| Ala. | 122 | 23 | 78 | 21 | 51 | 54 | 129 | 133 |
| Miss. | 189 | 91 | 11 | 3 | 51 | 59 | 37 | 71 |
| W.S. CENTRAL | 903 | 1,478 | 650 | 431 | 317 | 383 | 516 | 922 |
| Ark. | 278 | 94 | 155 | 24 | 19 | 46 | 63 | 90 |
| La. | 104 | 139 | 81 | 75 | 61 | 88 | - | 71 |
| Okla. | 18 | 51 | 2 | 17 | 34 | 65 | 66 | 58 |
| Tex. | 503 | 1,194 | 412 | 315 | 203 | 184 | 387 | 703 |
| MOUNTAIN | 346 | 401 | 206 | 262 | 97 | 100 | 174 | 220 |
| Mont. | - | 3 | - | - | - | - | - | 6 |
| Idaho | 16 | 28 | - | 20 | - | - | 4 | 4 |
| Wyo. | - | 2 | 5 | 2 | 17 |  | 1 | 1 |
| Colo. | 67 | 77 | 54 | 35 | 17 | 5 | 53 | 30 |
| N. Mex. | 53 | 42 | 33 | 24 | 9 | 8 | 11 | 24 |
| Ariz. | 163 | 144 | 89 | 94 | 61 | 82 | 65 | 82 |
| Utah | 22 | 34 | 22 | 37 | 6 | 1 | 9 | 22 |
| Nev. | 25 | 71 | 8 | 50 | 4 | 3 | 31 | 51 |
| PACIFIC | 797 | 1,472 | 140 | 1,422 | 180 | 198 | 953 | 1,311 |
| Wash. | 75 | 298 | 76 | 275 | 30 | 31 | 93 | 106 |
| Oreg. | 24 | 92 | 46 | 57 | 4 | 8 | 45 | 40 |
| Calif. | 684 | 1,056 | - | 1,071 | 144 | 158 | 777 | 1,054 |
| Alaska | 3 | 6 | 1 | 3 | - | - | 18 | 49 |
| Hawaii | 11 | 20 | 17 | 16 | 2 | 1 | 20 | 62 |
| Guam | - | 18 | U | U | $\stackrel{-}{-}$ | 2 | - | 27 |
| P.R. | 6 | 14 | U | U | 129 | 82 | 51 | 61 |
| V.I. | - | - | U | U | - | - | - | - |
| Amer. Samoa | U | U | U | U | U | U | U | U |
| C.N.M.I. | 4 | U | U | U | - | U | 19 | U |

N : Not notifiable. $\quad$ U: Unavailable.
*Individual cases can be reported through both the National Electronic Telecommunications System for Surveillance (NETSS) and the Public Health Laboratory Information System (PHLIS).

TABLE III. Provisional cases of selected notifiable diseases preventable by vaccination, United States, weeks ending June 16, 2001, and June 17, 2000 (24th Week)

| Reporting Area | H. influenzae, Invasive |  | Hepatitis (Viral), By Type |  |  |  | Measles (Rubeola) |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | A |  | B |  | Indigenous |  | Imported* |  | Total |  |
|  | $\begin{aligned} & \hline \text { Cum. } \\ & \mathbf{2 0 0 1}^{+} \\ & \hline \end{aligned}$ | $\begin{gathered} \hline \text { Cum. } \\ 2000 \\ \hline \end{gathered}$ | $\begin{gathered} \hline \text { Cum. } \\ 2001 \\ \hline \end{gathered}$ | $\begin{gathered} \hline \text { Cum. } \\ 2000 \\ \hline \end{gathered}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2001 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2000 \\ & \hline \end{aligned}$ | 2001 | $\begin{aligned} & \hline \text { Cum. } \\ & 2001 \\ & \hline \end{aligned}$ | 2001 | $\begin{gathered} \hline \text { Cum. } \\ 2001 \\ \hline \end{gathered}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2001 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2000 \\ & \hline \end{aligned}$ |
| UNITED STATES | 660 | 642 | 4,170 | 5,902 | 2,787 | 3,159 | - | 38 | - | 22 | 60 | 44 |
| NEW ENGLAND | 34 | 49 | 193 | 145 | 42 | 49 | - | 3 | - | 1 | 4 | 3 |
| Maine | 1 | 1 | 5 | 7 | 5 | 5 | - | - | - | - | - | - |
| N.H. | - | 8 | 5 | 13 | 10 | 9 | - | - | - | - | - | - |
| Vt. | 1 | 3 | 5 | 3 | 2 | 5 | - | 1 | - | - | 1 | 3 |
| Mass. | 24 | 27 | 55 | 59 | 3 | 3 | - | 2 | - | 1 | 3 | - |
| R.I. | 2 | 1 | 8 | 7 | 10 | 9 | - | - | - | - | - | - |
| Conn. | 6 | 9 | 115 | 56 | 12 | 18 | - | - | - | - | - | - |
| MID. ATLANTIC | 78 | 115 | 366 | 592 | 411 | 552 | - | 2 | - | 5 | 7 | 11 |
| Upstate N.Y. | 33 | 41 | 111 | 105 | 63 | 58 | - | 1 | - | 4 | 5 | - |
| N.Y. City | 24 | 33 | 158 | 239 | 244 | 258 | - | - | - | - | - | 10 |
| N.J. | 20 | 23 | 70 | 96 | 64 | 92 | - | - | - | 1 | 1 | - |
| Pa. | 1 | 18 | 27 | 152 | 40 | 144 | - | 1 | - | - | 1 | 1 |
| E.N. CENTRAL | 85 | 96 | 467 | 770 | 346 | 344 | - | - | - | 10 | 10 | 6 |
| Ohio | 41 | 31 | 111 | 134 | 59 | 58 | - | - | - | 3 | 3 | 2 |
| Ind. | 22 | 10 | 42 | 22 | 14 | 26 | - | - | - | 4 | 4 | - |
| III. | 10 | 35 | 133 | 331 | 51 | 44 | - | - | - | 3 | 3 | 3 |
| Mich. | 6 | 7 | 153 | 238 | 222 | 200 | - | - | - | - | - | 1 |
| Wis. | 6 | 13 | 28 | 45 | - | 16 | - | - | - | - | - | - |
| W.N. CENTRAL | 30 | 29 | 189 | 418 | 102 | 132 | - | 4 | - | - | 4 | 1 |
| Minn. | 15 | 16 | 14 | 113 | 12 | 16 | - | 2 | - | - | 2 | 1 |
| lowa | - | - | 17 | 42 | 12 | 15 | - | - | - | - | - | - |
| Mo. | 10 | 8 | 54 | 185 | 55 | 66 | - | 2 | - | - | 2 | - |
| N. Dak. | 3 | 1 | 1 | - | - | 2 | - | - | - | - | - | - |
| S. Dak. | - | - | 1 | $\stackrel{-}{-}$ | 1 | - | - | - | - | - | - | - |
| Nebr. | 1 | 3 | 22 | 19 | 11 | 22 | - | - | - | - | - | - |
| Kans. | 1 | 1 | 80 | 59 | 11 | 11 | - | - | - | - | - | - |
| S. ATLANTIC | 213 | 150 | 880 | 575 | 600 | 524 | - | 3 | - | 1 | 4 | - |
| Del. | - | - | - | 9 | - | 7 | - | - | - | - | - | - |
| Md. | 46 | 42 | 122 | 70 | 68 | 66 | - | 2 | - | 1 | 3 | - |
| D.C. | - | - | 21 | 11 | 7 | 16 | - | - | - | - | - | - |
| Va . | 16 | 28 | 62 | 67 | 62 | 72 | - | - | - | - | - | - |
| W. Va. | 5 | 4 | 6 | 39 | 14 | 6 | - | - | - | - | - | - |
| N.C. | 28 | 13 | 55 | 87 | 99 | 123 | - | - | - | - | - | - |
| S.C. | 5 | 4 | 26 | 23 | 6 | 4 | U | - | U | - | - | - |
| Ga . | 57 | 42 | 344 | 80 | 160 | 90 | - | 1 | - | - | 1 | - |
| Fla. | 56 | 17 | 244 | 189 | 184 | 140 | - | - | - | - | - | - |
| E.S. CENTRAL | 51 | 30 | 154 | 229 | 187 | 217 | - | 2 | - | - | 2 | - |
| Ky. | 2 | 11 | 26 | 26 | 17 | 45 | - | 2 | - | - | 2 | - |
| Tenn. | 25 | 12 | 70 | 83 | 91 | 94 | - | - | - | - | - | - |
| Ala. | 23 | 5 | 50 | 29 | 41 | 25 | - | - | - | - | - | - |
| Miss. | 1 | 2 | 8 | 91 | 38 | 53 | - | - | - | - | - | - |
| W.S. CENTRAL | 24 | 36 | 591 | 1,080 | 332 | 489 | - | 1 | - | - | 1 | - |
| Ark. | - | - | 31 | 85 | 47 | 48 | - | - | - | - | - | - |
| La. | 3 | 12 | 46 | 44 | 26 | 72 | - | - | - | - | - | - |
| Okla. | 21 | 22 | 81 | 136 | 47 | 64 | - | - | - | - | - | - |
| Tex. | - | 2 | 433 | 815 | 212 | 305 | - | 1 | - | - | 1 | - |
| MOUNTAIN | 95 | 68 | 389 | 404 | 256 | 229 | - | - | - | 1 | 1 | 11 |
| Mont. | - | - | 5 | 2 | 2 | 3 | - | - | - | - | - | - |
| Idaho | 1 | 2 | 35 | 15 | 6 | 4 | - | - | - | 1 | 1 | - |
| Wyo. | 4 | 1 | 16 | 3 | 16 | - | - | - | - | - | - | - |
| Colo. | 23 | 13 | 34 | 90 | 53 | 44 | - | - | - | - | - | 2 |
| N. Mex. | 12 | 15 | 13 | 39 | 69 | 71 | - | - | - | - | - | - |
| Ariz. | 42 | 31 | 213 | 191 | 78 | 74 | - | - | - | - | - | - |
| Utah | 6 | 4 | 35 | 30 | 13 | 12 | - | - | - | - | - | 3 |
| Nev. | 7 | 2 | 38 | 34 | 19 | 21 | U | - | U | - | - | 6 |
| PACIFIC | 50 | 69 | 941 | 1,689 | 511 | 623 | - | 23 | - | 4 | 27 | 12 |
| Wash. | 1 | 3 | 46 | 141 | 49 | 31 | - | 13 | - | 2 | 15 | 3 |
| Oreg. | 14 | 21 | 39 | 111 | 28 | 48 | - | 1 | - | - | 1 | $\overline{7}$ |
| Calif. | 31 | 25 | 844 | 1,416 | 428 | 533 | U | 8 | U | 1 | 9 | 7 |
| Alaska | 3 | 2 | 12 | 10 | 4 | 4 | - | - | - | - | - | 1 |
| Hawaii | 1 | 18 | - | 11 | 2 | 7 | - | 1 | - | 1 | 2 | 1 |
| Guam | - | 1 | - | 1 | - | 9 | U | - | U | - | - | - |
| P.R. | 1 | 3 | 52 | 157 | 93 | 122 | U | - | U | - | - | - |
| V.I. | , |  | 2 | , |  | , | U | - | U | - | U | - |
| Amer. Samoa | U | U | U | U | U | U | U | U | U | U | U | U |
| C.N.M.I. | U | U | U | U | 19 | U | U | U | U | U | U | U |

TABLE III. (Cont'd) Provisional cases of selected notifiable diseases preventable by vaccination, United States, weeks ending June 16, 2001, and June 17, 2000 (24th Week)

| Reporting Area | Meningococcal Disease |  | Mumps |  |  | Pertussis |  |  | Rubella |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \hline \text { Cum. } \\ & 2001 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2000 \\ & \hline \end{aligned}$ | 2001 | $\begin{gathered} \hline \text { Cum. } \\ 2001 \\ \hline \end{gathered}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2000 \end{aligned}$ | 2001 | $\begin{aligned} & \hline \text { Cum. } \\ & 2001 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2000 \\ & \hline \end{aligned}$ | 2001 | $\begin{aligned} & \hline \text { Cum. } \\ & 2001 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 2000 \end{aligned}$ |
| UNITED STATES | 1,224 | 1,223 | 2 | 80 | 184 | 60 | 1,948 | 2,543 | - | 11 | 72 |
| NEW ENGLAND | 75 | 67 | - |  | 2 | 2 | 211 | 703 | - | - | 10 |
| Maine | 1 | 5 | - | - | - | - | - | 14 | - | - | - |
| N.H. | 9 | 6 | - | - | - | 1 | 19 | 61 | - | - | 1 |
| Vt. | 4 | 2 | - | - | - | - | 22 | 142 | - | - | - |
| Mass. | 42 | 40 | - | - | - | 1 | 161 | 449 | - | - | 8 |
| R.I. | 2 | 4 | - | - | 1 | - | 1 | 8 | - | - | - |
| Conn. | 17 | 10 | - | - | 1 | - | 8 | 29 | - | - | 1 |
| MID. ATLANTIC | 93 | 133 | - | 5 | 12 | 3 | 140 | 228 | - | 4 | 7 |
| Upstate N.Y. | 39 | 34 | - | 1 | 5 | 3 | 100 | 115 | - | 1 | 1 |
| N.Y. City | 23 | 28 | - | 4 | 4 | - | 23 | 39 | - | 2 | 6 |
| N.J. | 25 | 23 | - | - | - | - | 8 | - | - | 1 | - |
| Pa. | 6 | 48 | - | - | 3 | - | 9 | 74 | - | - | - |
| E.N. CENTRAL | 163 | 213 | - | 9 | 17 | 13 | 238 | 291 | - | 3 | - |
| Ohio | 57 | 43 | - | 1 | 7 | 11 | 145 | 160 | - | - | - |
| Ind. | 32 | 24 | - | 1 | - | 1 | 20 | 25 | - | 1 | - |
| III. | 20 | 5 | - | 6 | 5 | - | 26 | 23 | - | 2 | - |
| Mich. | 27 | 68 | - | 1 | 4 | 1 | 23 | 29 | - | - | - |
| Wis. | 27 | 21 | - | - | 1 | - | 24 | 54 | - | - | - |
| W.N. CENTRAL | 88 | 81 | - | 7 | 10 | - | 99 | 120 | - | 2 | 1 |
| Minn. | 13 | 7 | - | 2 | - | - | 31 | 56 | - | - | - |
| lowa | 19 | 18 | - | - | 5 | - | 10 | 17 | - | 1 | - |
| Mo. | 30 | 40 | - | - | 2 | - | 40 | 23 | - | - | - |
| N. Dak. | 5 | 2 | - | - | - | - | - | 1 | - | - | - |
| S. Dak. | 4 | 5 | - | - | - | - | 3 | 3 | - | - | - |
| Nebr. | 8 | 4 | - | 1 | 1 | - | 2 | 3 | - | - | 1 |
| Kans. | 9 | 5 | - | 4 | 2 | - | 13 | 17 | - | 1 | - |
| S. ATLANTIC | 227 | 169 | 1 | 17 | 28 | 7 | 106 | 184 | - | 1 | 31 |
| Del. | - | - | - | - | - | - | - | 4 | - | - | - |
| Md. | 29 | 16 | - | 4 | 6 | - | 16 | 46 | - | - | - |
| D.C. | - | - | - | - | - | - | 1 | 1 | - | - | - |
| Va . | 25 | 29 | - | 2 | 5 | - | 12 | 20 | - | - | - |
| W. Va. | 6 | 7 | - | - | - | - | 1 | - | - | - | - |
| N.C. | 48 | 29 | - | 1 | 3 | 3 | 39 | 49 | - | - | 23 |
| S.C. | 21 | 13 | U | 1 | 9 | U | 19 | 16 | U | - | 6 |
| Ga . | 32 | 32 | U | 7 | 2 | 2 | 6 | 20 | - | - | - |
| Fla. | 66 | 43 | 1 | 2 | 3 | 2 | 12 | 28 | - | 1 | 2 |
| E.S. CENTRAL | 81 | 88 | - | 2 | 4 | - | 42 | 50 | - | - | 4 |
| Ky. | 14 | 17 | - | 1 | - | - | 11 | 27 | - | - | 1 |
| Tenn. | 30 | 38 | - | - | 2 | - | 17 | 11 | - | - | - |
| Ala. | 29 | 25 | - | - | 2 | - | 11 | 9 | - | - | 3 |
| Miss. | 8 | 8 | - | 1 | - | - | 3 | 3 | - | - | - |
| W.S. CENTRAL | 160 | 139 | - | 6 | 21 | 13 | 95 | 109 | - | - | 6 |
| Ark. | 10 | 6 | - | 1 | 1 | - | 4 | 11 | - | - | 1 |
| La. | 52 | 34 | - | 2 | 4 | - | 2 | 7 | - | - | 1 |
| Okla. | 18 | 21 | - | - | - | - | 1 | 9 | - | - | - |
| Tex. | 80 | 78 | - | 3 | 16 | 13 | 88 | 82 | - | - | 4 |
| MOUNTAIN | 68 | 58 | - | 7 | 13 | 12 | 859 | 358 | - | - | 1 |
| Mont. | 2 | 1 | - | - | 1 | - | 6 | 7 | - | - | - |
| Idaho | 6 | 6 | - | - | - | 3 | 161 | 41 | - | - | - |
| Wyo. | 5 | - | - | 1 | 1 | - | 1 | 1 | - | - | - |
| Colo. | 23 | 18 | - | 1 | - | 2 | 151 | 201 | - | - | 1 |
| N. Mex. | 10 | 6 | - | 2 | 1 | 2 | 55 | 60 | - | - | - |
| Ariz. | 11 | 18 | - | 1 | 3 | 1 | 455 | 34 | - | - | - |
| Utah | 7 | 6 | - | 1 | 4 | 4 | 21 | 10 | - | - | - |
| Nev. | 4 | 3 | U | 1 | 3 | U | 9 | 4 | U | - | - |
| PACIFIC | 269 | 275 | 1 | 27 | 77 | 10 | 158 | 500 | - | 1 | 12 |
| Wash. | 41 | 27 | 1 | 1 | 2 | 9 | 56 | 160 | - | - | 7 |
| Oreg. | 20 | 30 | N | N | N | 1 | 13 | 44 | - | - | - |
| Calif. | 204 | 206 | U | 21 | 63 | U | 85 | 267 | U | - | 5 |
| Alaska | 2 | 4 | - | 1 | 4 | - | 1 | 7 | - | - | - |
| Hawaii | 2 | 8 | - | 4 | 8 | - | 3 | 22 | - | 1 | - |
| Guam | - | - | U | - | 7 | U | - | 3 | U | - | 1 |
| P.R. | 3 | 6 | - | - | - | - | 2 | 1 | - | - | - |
| V.I. | - | - | U | - | - | U | - | - | U | - | - |
| Amer. Samoa | U | U | U | U | U | U | U | U | U | U | U |
| C.N.M.I. | U | U | U | U | U | U | U | U | U | U | U |

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

TABLE IV. Deaths in 122 U.S. cities,* week ending June 16, 2001 (24th Week)

| Reporting Area | All Causes, By Age (Years) |  |  |  |  |  | $\left\|\begin{array}{l} \text { P\&I }^{\dagger} \\ \text { Total } \end{array}\right\|$ | Reporting Area | All Causes, By Age (Years) |  |  |  |  |  | P\& ${ }^{\dagger}$ <br> Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \text { All } \\ \text { Ages } \end{gathered}$ | $\geq 65$ | 45-64 | 25-44 | 1-24 | <1 |  |  | $\begin{gathered} \text { All } \\ \text { Ages } \end{gathered}$ | $\geq 65$ | 45-64 | 25-44 | 1-24 | <1 |  |
| NEW ENGLAND | 494 | 349 | 83 | 38 | 11 | 12 | 41 | S. ATLANTIC | 1,479 | 953 | 322 | 149 | 36 | 18 | 90 |
| Boston, Mass. | 134 | 93 | 26 | 5 | 2 | 8 | 6 | Atlanta, Ga. | 196 | 116 | 48 | 25 | 5 | 2 | 2 |
| Bridgeport, Conn. | 31 | 20 | 7 |  | 3 | 1 | 2 | Baltimore, Md. | 259 | 164 | 53 | 34 | 6 | 2 | 29 |
| Cambridge, Mass. | 26 | 19 | 4 | 1 | - | 1 | 2 | Charlotte, N.C. | 84 | 60 | 14 | 7 | 1 | 2 | 10 |
| Fall River, Mass. | 28 | 24 | 4 | - | - |  | 3 | Jacksonville, Fla. | 167 | 106 | 38 | 12 | 7 | 3 | 7 |
| Hartford, Conn. | 63 | 43 | 6 | 14 | $\bar{\square}$ |  | 7 | Miami, Fla. | 117 | 76 | 23 | 17 | - | 1 | 9 |
| Lowell, Mass. | 30 | 19 | 5 | 5 | 1 |  | - | Norfolk, Va. | 37 | 24 | 9 | 3 | - | 1 | 2 |
| Lynn, Mass. | 15 | 10 | 4 | 1 |  |  |  | Richmond, Va. | 66 | 38 | 18 | 7 | 3 | - | 6 |
| New Bedford, Mass. | s. U | U | U | U | U | U | U | Savannah, Ga. | 47 | 37 | 7 | 1 | 1 | 1 | 4 |
| New Haven, Conn. | 26 | 17 | 5 | 3 |  | 1 | 4 | St. Petersburg, Fla | a. 73 | 53 | 13 | 4 | 2 | 1 | 6 |
| Providence, R.I. | U | U | U | U | U | U | U | Tampa, Fla. | 218 | 153 | 41 | 17 | 4 | 3 | 12 |
| Somerville, Mass. | 2 | 1 | $\overline{7}$ | 1 | - | - |  | Washington, D.C. | 200 | 123 | 46 | 22 | 7 | 2 | 3 |
| Springfield, Mass. | 39 | 25 | 7 | 5 | 1 | 1 | 5 | Wilmington, Del. | 15 | 3 | 12 |  | - | - | - |
| Waterbury, Conn. | 30 | 21 | 6 | 2 | 3 |  | 2 |  |  |  |  |  |  |  |  |
| Worcester, Mass. | 70 | 57 | 9 | 1 | 3 | - | 10 | E.S. CENTRAL <br> Birmingham, Ala. | $\begin{aligned} & 905 \\ & 163 \end{aligned}$ | 623 | 183 | 59 16 | 22 | 17 3 | 76 16 |
| MID. ATLANTIC | 2,244 | 1,596 | 394 | 164 | 47 | 43 | 133 | Chattanooga, Tenn | n. 83 | 59 | 20 | - | 3 | 1 | 11 |
| Albany, N.Y. | 48 | 31 | 8 | 5 | - | 4 | 1 | Knoxville, Tenn. | 94 | 65 | 22 | 6 | 1 | - | 7 |
| Allentown, Pa. | 18 | 14 | 4 | - |  |  | 1 | Lexington, Ky. | 79 | 51 | 19 | 6 | 1 | 2 | 1 |
| Buffalo, N.Y. | 97 | 66 | 22 | 4 | 1 | 4 | 13 | Memphis, Tenn. | 224 | 157 | 46 | 11 | 5 | 5 | 20 |
| Camden, N.J. | 33 | 25 | 5 | 1 | 1 | 1 | 1 | Mobile, Ala. | 78 | 55 | 13 | 7 | 1 | 2 | 1 |
| Elizabeth, N.J. | 28 | 22 | 4 | 2 | - |  |  | Montgomery, Ala. | 43 | 29 | 6 | 4 | 3 | 1 | 3 |
| Erie, Pa.§ | 41 | 30 | 8 | - | 3 |  | 1 | Nashville, Tenn. | 141 | 96 | 29 | 9 | 3 | 3 | 17 |
| Jersey City, N.J. | 34 | 25 | 4 | 5 |  |  |  |  | 1,496 | 946 | 303 | 138 | 67 | 40 |  |
| New York City, N.Y. | 1,149 | 819 | 204 | 90 | 22 | 14 | 59 | Austin, Tex. | 1,496 | 946 | 8 | 9 | 2 | 1 | 6 |
| Newark, N.J. | 40 | 13 | 14 | 10 | 1 | 2 |  | Baton Rouge, La. | 31 | 17 | 8 | 4 |  | 2 | 6 |
| Paterson, N.J. | 22 | 9 9 | 7 59 | 23 | 1 | 3 | 21 | Corpus Christi, Tex | x. 67 | 54 | 9 | 3 | - | 1 | 6 |
| Pittsburgh, Pa.§ | 345 38 | 26 | 7 | + 4 | 9 | 1 | 3 | Dallas, Tex. | 211 | 120 | 48 | 19 | 18 | 6 | 16 |
| Reading, Pa . | 18 | 16 | 1 | 1 |  |  | 2 | El Paso, Tex. | 113 | 65 | 31 | 13 | 2 | 2 | 3 |
| Rochester, N.Y. | 139 | 103 | 21 | 6 | 4 | 5 | 12 | Ft. Worth, Tex. | 117 | 85 | 19 | 5 | 7 | 1 | 5 |
| Schenectady, N.Y. | 18 | 14 | 3 |  | 1 | - | 2 | Houston, Tex. | 353 | 192 | 84 | 41 | 29 | 7 | 17 |
| Scranton, Pa.§ | 30 | 25 | 3 | 1 | 1 |  | 1 | Little Rock, Ark. | 64 | 42 | 15 | 4 | 2 | 1 | 2 |
| Syracuse, N.Y. | 87 | 63 | 11 | 4 | 3 | 6 | 10 | New Orleans, La. | 66 | 35 | 9 | 6 | 3 | 11 | 7 |
| Trenton, N.J. | 42 | 30 | 6 | 4 | - | 2 | 4 | San Antonio, Tex. | 224 | 153 | 45 | 22 | 1 | 3 | 14 |
| Utica, N.Y. | 17 | 14 | 3 |  |  |  | 1 | Shreveport, La. | 68 | 47 | 9 | 8 | 1 | 3 | 9 |
| Yonkers, N.Y. | U | U | U | U | U | U | U | Tulsa, Okla. | 93 | 67 | 18 | 4 | 2 | 2 | 10 |
| E.N. CENTRAL | 1,608 | 1,144 | 294 | 99 | 27 | 44 | 105 | MOUNTAIN | 1,005 | 685 | 187 | 80 | 26 | 27 | 73 |
| Akron, Ohio | 48 | , 40 | 5 | 1 | - | 2 | 2 | Albuquerque, N.M | . 68 | 47 | 15 | 4 | 1 | 1 | 7 |
| Canton, Ohio | 48 | 36 | 8 | 3 | - | 1 | 5 | Boise, Idaho | 55 | 38 | 9 | 2 | 2 | 4 | 7 |
| Chicago, III. | U | U | U | U | U | U | U | Colo. Springs, Colo | o. 55 | 41 | 9 | 4 | - | 1 | 3 |
| Cincinnati, Ohio | 93 | 70 | 12 | 3 | 2 | 6 | 8 | Denver, Colo. | 111 | 64 | 24 | 14 | 3 | 6 | 8 |
| Cleveland, Ohio | 122 | 77 | 27 | 8 | 3 | 7 | 6 | Las Vegas, Nev. | 213 | 153 | 36 | 20 | 4 | - | 21 |
| Columbus, Ohio | 188 | 135 | 30 | 19 | 1 | 3 | 10 | Ogden, Utah | 29 | 20 | 8 | 2 | 7 | 8 | 5 |
| Dayton, Ohio | 121 | 91 | 21 | 4 | 3 | 2 | 7 | Phoenix, Ariz. | 202 | 119 | 46 | 22 | 7 | 8 | 12 |
| Detroit, Mich. | 182 | 117 | 41 | 16 | 1 | 7 | 17 | Pueblo, Colo. | 21 | 16 | 5 | - | 4 | 2 | 2 |
| Evansville, Ind. | 41 | 30 | 7 | 2 | 2 |  | 3 | Salt Lake City, Utah | h 89 | 65 | 12 | 7 | 4 | 2 | 4 |
| Fort Wayne, Ind. | 59 | 42 | 11 | 3 | 3 | - | 5 | Tucson, Ariz. | 162 | 122 | 23 | 7 | 5 | 5 | 4 |
| Gary, Ind. | 17 | 12 | 3 | 2 | - | $\bar{\square}$ | 1 | PACIFIC | 1,782 | 1,261 | 339 | 105 | 48 | 26 | 153 |
| Grand Rapids, Mich. | h. 49 | 118 | 8 | 4 | 2 | 2 | 3 | Berkeley, Calif. | 28 | 20 | 4 | 2 |  | 2 | 2 |
| Indianapolis, Ind. | 180 | 118 | 39 | 13 | 5 | 5 | 11 | Fresno, Calif. | 94 | 62 | 20 | 11 | 1 | - | 9 |
| Lansing, Mich. | 43 | 29 | 12 | 8 | - | 1 |  | Glendale, Calif. | 17 | 16 |  | 1 | - | - | - |
| Milwaukee, Wis. | 143 | 109 | 21 | 8 | 1 | 4 | 10 | Honolulu, Hawaii | 58 | 50 | 3 | 3 | 2 | - | 4 |
| Peoria, III. | 51 | 37 | 10 | 2 | 1 | 1 |  | Long Beach, Calif. | 74 | 59 | 9 | 2 | 3 | 1 | 8 |
| Rockford, III. | 45 | 32 | 9 | 4 | - |  | 3 | Los Angeles, Calif. | 382 | 274 | 65 | 19 | 14 | 10 | 19 |
| South Bend, Ind. | 45 | 36 | 7 | 1 |  | $\bar{\square}$ | 5 | Pasadena, Calif. | 18 | 13 | 4 | 1 | - | - |  |
| Toledo, Ohio | 89 | 63 | 17 | 4 | 2 | 3 | 7 | Portland, Oreg. | 101 | 67 | 20 | 9 | 3 | 2 | 5 |
| Youngstown, Ohio | 44 | 37 | 6 | 1 |  |  | 1 | Sacramento, Calif. | 191 | 131 | 38 | 10 | 8 | 4 | 28 |
| W.N. CENTRAL | 904 | 628 | 162 | 68 | 27 | 19 | 59 | San Diego, Calif. | 187 | 134 | 37 | 9 | 2 | 3 | 24 |
| Des Moines, Iowa | 95 | 78 | 12 | 3 | 1 | 1 | 11 | San Francisco, Cali | if. 130 | 90 | 29 | 9 | 2 | - | 14 |
| Duluth, Minn. | 21 | 15 | 3 | 3 |  |  |  | San Jose, Calif. | 147 | 108 | 26 | 4 | 8 | 1 | 15 |
| Kansas City, Kans. | 56 | 41 | 10 | 3 | 2 |  | 6 | Santa Cruz, Calif. | 45 | 33 | 9 | 2 | - |  | 4 |
| Kansas City, Mo. | 82 | 59 | 16 | 3 | 1 | 3 | 5 | Seattle, Wash. | 139 | 88 | 36 | 10 | 3 | 2 | 8 |
| Lincoln, Nebr. | 31 | 23 | 3 | 5 |  |  | 1 | Spokane, Wash. | 60 | 47 | 10 29 | 10 | 2 | - | 7 5 |
| Minneapolis, Minn. | . 215 | 157 | 35 | 15 | 3 | 5 | 15 | Tacoma, Wash. | 111 | 69 | 29 | 10 | 2 | - | 5 |
| Omaha, Nebr. | 84 | 56 | 16 | 8 | 1 | 3 | 9 | TOTAL | 11,917 | 8,185 | 2,267 | 900 | 311 | 246 | 825 |
| St. Louis, Mo. | 107 | 52 | 35 | 10 | 9 | 1 | - |  |  |  |  |  |  |  |  |
| St. Paul, Minn. | 101 | 79 | 13 | 6 | 1 | 2 | 6 |  |  |  |  |  |  |  |  |
| Wichita, Kans. | 112 | 68 | 19 | 12 | 9 | 4 | 6 |  |  |  |  |  |  |  |  |

U: Unavailable. -:No reported cases.
*Mortality data in this table are voluntarily reported from 122 cities in the United States, most of which have populations of $\geq 100,000$. 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.
${ }^{\dagger}$ Preumonia and influenza.
${ }^{\text {s }}$ 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.

## Contributors to the Production of the MMWR (Weekly)

## Weekly Notifiable Disease Morbidity Data and 122 Cities Mortality Data

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[^2]:    -: No reported cases.
    *Not notifiable in all states.

    + Updated monthly from reports to the Division of HIV/AIDS Prevention - Surveillance and Epidemiology, National Center for HIV, STD, and TB Prevention (NCHSTP). Last update May 29, 2001.
    ${ }^{\text {§ }}$ Updated from reports to the Division of STD Prevention, NCHSTP.

