## Current Trends

## Premarital Sexual Experience Among Adolescent Women United States, 1970-1988

The initiation of sexual intercourse early in life is associated with an increased number of sex partners and a greater risk for sexually transmitted diseases (STDs). This report describes trends in age at first premarital sexual intercourse for adolescent women (15-19 years of age) in the United States during 1970-1988 and indicates an accelerated increase in the proportion having had premarital sex from 1986 to 1988.

Data for this analysis were obtained from interviews with 8450 women* 15-44 years of age who participated in the National Survey of Family Growth (NSFG) conducted by CDC's National Center for Health Statistics (NCHS) in 1988. The women were part of a subsample from a nationally representative sample of households interviewed in the National Health Interview Survey of 1986 (NCHS, unpublished data). The NSFG provided specific information on age and marital status of participants at first sexual intercourse, as well as detailed information on other factors, such as childbearing experiences, use of family-planning services, and knowledge of and experience with STDs.

Proportions were calculated for adolescent women in each year of age from 15 through 19 who reported having had premarital sexual intercourse by March 1 in $1970,1975,1980,1985$, and $1988 .^{\dagger}$ For all ages combined for each of these periods, the proportion of adolescent women who reported having had premarital sexual intercourse increased steadily (from $28.6 \%$ in 1970 to $51.5 \%$ in 1988 [Table 1]). For each 5 -year period from 1970 to 1985, the amount of increase declined (i.e., during 1970-1975, 7.8 percentage points; during 1976-1980, 5.6; and during 1981-1985, 2.1). However, from 1985 through 1988, the proportion increased 7.4 points, or approximately one third of the increase in premarital sexual experience among adolescent women for the entire period 1970-1988. This trend persisted even after adjustment for the influence of changing age composition by comparing age-adjusted proportions.

[^0]Premarital Sex - Continued
For each year of age during 1970-1988, the proportion of adolescent women who reported having had premarital sexual intercourse increased at least 55\% (Table 1). The largest relative increase occurred among those 15 years of age (from 4.6\% in 1970 to $25.6 \%$ in 1988). The cumulative absolute effect of these changes was greatest among women 18 and 19 years of age.

Although the proportion of black adolescents who reported having had premarital sexual intercourse was consistently higher than the proportion of white adolescents who reported having had premarital intercourse, the difference narrowed substantially over time because of a greater relative increase among white adolescents ( 24 percentage points among whites compared with 13 percentage points among blacks) (Figure 1). For white adolescents, this represents an increase in the number of sexually experienced females from 2.2 million in 1970 to 3.7 million in 1988, and for black adolescents, from 0.6 million to 0.8 million.

In 1988, adolescents who had had sexual intercourse earlier in life reported greater numbers of sex partners. Among 15- to 24 -year-olds who initiated sexual intercourse before age $18,75 \%$ reported having had two or more partners, and $45 \%$ reported having had four or more partners; among those who became sexually active after age $19,20 \%$ reported having had more than one partner, and $1 \%$, four or more partners. Among women aged 15-24 years who had been sexually active for the same length of time ( $<24$ months), $45 \%$ of 15 - to 17-year-olds reported having had two or more partners, compared with $40 \%$ of 18 - to 19 -year-olds and $26 \%$ of those $\geqslant 20$ years of age.
Reported by: Family Growth Survey Br, Div of Vital Statistics, National Center for Health Statistics; Div of STD/HIV Prevention, Center for Prevention Svcs, CDC.

TABLE 1. Percentage of women aged 15-19 years who reported having had premarital sexual intercourse, by race and age - United States, 1970-1988*

|  | Year |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: |
| Race/Age (yrs) | 1970 | $\mathbf{1 9 7 5}$ | $\mathbf{1 9 8 0}$ | $\mathbf{1 9 8 5}$ | $\mathbf{1 9 8 8}$ |
| All races |  |  |  |  |  |
| 15 | 20.3 | 9.8 | 16.7 | 20.0 | 25.6 |
| 16 | 32.3 | 36.9 | 26.8 | 30.4 | 31.8 |
| 17 | 39.4 | 49.1 | 35.5 | 41.7 | 51.0 |
| 18 | 48.2 | 63.9 | 56.2 | 53.2 | 69.5 |
| 19 | 28.6 | 36.4 | 66.9 | 70.7 | 75.3 |
| Overall |  |  | 42.0 | 44.1 | 51.5 |
| White | 17.2 | 21.6 |  |  |  |
| 15-17 | 41.4 | 54.9 | 26.7 | 30.3 | 34.4 |
| 18-19 | 26.7 | 35.4 | 41.4 | 61.0 | 72.6 |
| Overall |  |  |  | 43.1 | 50.6 |
| Black | 32.8 | 32.0 | 41.4 |  |  |
| 15-17 | 66.8 | 79.0 | 78.3 | 86.6 | 48.4 |
| 18-19 | 46.0 | 50.8 | 58.1 | 55.4 | 75.6 |
| Overall |  |  |  |  |  |

*Tables of preliminary estimates of standard errors applicable to these data may be found in "Contraceptive Use in the United States, 1973-88," Advance Data from Vital and Health Statistics of the National Center for Health Statistics (NCHS), no. 182, March 20, 1990. Estimated standard errors for particular statistics may be obtained from CDC's Family Growth Survey Branch, Division of Vital Statistics, NCHS.

Premarital Sex - Continued
Editorial Note: The NSFG data show that the proportion of adolescent women who reported having had premarital sexual intercourse increased through the 1970s and 1980s, and first sexual experiences occurred at younger ages. Among the 9 million adolescent women in 1988, almost 4.9 million ( $52 \%$ ) may have had premarital sexual intercourse.

Information on the premarital sexual experience of adolescent women in the United States was first provided in a series of National Surveys of Young Women (NSYW) conducted in 1971, 1976, and 1979 (1). Based on these studies, the proportion of adolescent women in metropolitan settings experiencing premarital sexual intercourse increased from $30 \%$ in 1971 to $50 \%$ by 1979. This trend was confirmed by the 1982 NSFG, although the increase was less pronounced (1). The NSFG estimates for 1976 and 1979 were lower than those from the NSYW studies, but the differences were not statistically significant.

Increased sexual activity among adolescents has several health consequences. For several reasons, adolescents are at higher risk for sexually transmitted infection than are persons in other age groups (2). Compared with older age groups, adolescents have higher rates of gonorrheal and chlamydial infections (3) (Chlamydia trachomatis causes more lower genital tract infections among teenagers than does gonorrhea [4]). In addition, by their late teens, about $4 \%$ of whites and $17 \%$ of blacks have been infected with herpes virus type $2(5)$. The consequences of these infections are most severe later in life. If untreated, gonorrheal and chlamydial infections of the cervix may progress to pelvic inflammatory disease (PID); acute PID increases risk for recurrent PID, infertility, and ectopic pregnancy. Each year, >1 million U.S. women experience an episode of PID, with $16 \%-20 \%$ of cases occurring among teenagers $(3,5,6)$. Age-specific rates of PID are highest for adolescent females (based on appropriate adjustments for sexual activity) (7). In a prospective evaluation of the risk for cervical cancer after cytologic evidence of human papillomavirus (HPV) infection, women $<25$ years of age had increased risk of progression (8).
FIGURE 1. Percentage of women 15-19 years of age who reported having had premarital sexual intercourse, by race and year-United States, 1970-1988


Race

Premarital Sex - Continued
The association between early age of sexual intercourse and greater numbers of both recent and lifetime sex partners represents a behavioral link to higher levels of STDs. Females and males who have multiple sex partners over a specified period (e.g., several months) are at increased risk for gonorrhea, syphilis, chlamydia, and chancroid (9). Increased numbers of sex partners over a lifetime is associated with a greater cumulative risk for acquiring viral infections such as hepatitis B, genital herpes, HPV, and human immunodeficiency virus (9). Efforts to prevent the adverse health outcomes of sexual activity in adolescents should include 1) innovations for early detection and treatment of STDs among teenagers, 2) specialized training for clinicians providing health services for adolescents, 3) school education coupled with accessible clinical services, and 4) behavioral interventions to prevent exposure to and acquisition of sexually transmitted infections.

## References

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## Epidemiologic Notes and Reports

## False-Positive Results with the Use of Chlamydia Tests in the Evaluation of Suspected Sexual Abuse - Ohio, 1990

On June 21, 1990, a commercial laboratory reported to a private residential-care facility for profoundly retarded persons in Ohio that rectal cultures from 10 residents tested positive for Chlamydia trachomatis. This report summarizes the epidemiologic and laboratory investigation by public health officials in Ohio and at CDC, which concluded that the $C$. trachomatis results were false-positive.

On June 6, a female resident of the facility (index resident) who had undergone a hysterectomy several years earlier was evaluated in a hospital emergency room for vaginal bleeding. Because sexual abuse was suspected, vaginal specimens were obtained for culture of Neisseria gonorrhoeae and nonculture (i.e., enzyme immunoassay [EIA]) detection of $C$. trachomatis and sent to the local health department. On June 12, the facility was notified that the chlamydia test was positive, and a 10-day course of doxycycline was initiated.

Chlamydia Tests - Continued
On June 18, the facility's medical staff collected multiple specimens for chlamydia and gonorrhea testing with swabs from 25 of the other 26 residents (one recently admitted resident was not tested) of the same unit as the index resident and sent the specimens to a commercial laboratory for analysis. Specimens included rectal swabs from all residents for culture of $C$. trachomatis and N. gonorrhoeae, urethral swabs from males and cervical swabs from females for nucleic acid probe assays to detect C. trachomatis and N. gonorrhoeae, and urethral swabs from males for chlamydia culture. On June 21, the laboratory reported that rectal cultures were positive for chlamydia in 10 residents (six female and four male; age range: 10-25 years); all other specimens were negative. On June 23, pharyngeal swabs for chlamydia culture were obtained from the 10 residents with positive rectal cultures, and doxycycline therapy was initiated for these 10 residents. On June 25, four of the 10 pharyngeal cultures were reported by the commercial laboratory as positive for C. trachomatis.

From June 25 through June 28, rectal, pharyngeal, urethral (males), and cervical (females) swabs for chlamydia culture and rectal swabs for gonorrhea culture were obtained from the 75 residents of the remaining three units of the facility and from the 15 residents of the first unit who initially tested negative. All specimens were sent to the commercial laboratory that had tested the specimens obtained on June 18 and June 23; chlamydia cultures were positive in three residents (in two patients, rectal only, and one patient, rectal and pharyngeal). On June 29, all male staff of the facility and female staff of the index resident's unit were asked to volunteer to be cultured for C. trachomatis; rectal, pharyngeal, and urethral swabs were obtained from males, and rectal and pharyngeal swabs from females. All specimens from staff members for chlamydia culture were sent to the local health department; none were positive.

On June 22 and June 25, the commercial laboratory reported that it had used immunofluorescence (IF) staining to identify chlamydial inclusions in cell culture; this report implied the true presence of chlamydia in the rectal specimens obtained June 18. On July 2, however, the laboratory indicated that 9 months previously it had changed from the IF method to a new EIA confirmation method for detecting chlamydial antigen in cell culture and that only the EIA method had been used to identify the 10 rectal and four pharyngeal specimens as positive, as well as to identify as positive the specimens from the three residents of the facility obtained during the week of June 25.

On July 6, to compare the EIA culture confirmation and standard IF culture confirmation methods, duplicate rectal and pharyngeal specimens were obtained from the three residents identified as infected during the week of June 25 and from three residents who had tested negative; these specimens were tested by both the commercial laboratory (using both IF and EIA culture confirmation) and the chlamydia laboratory of CDC's Division of Sexually Transmitted Diseases Laboratory Research, Center for Infectious Diseases (IF culture confirmation only). None of the specimens from these six residents were positive by IF culture confirmation at either laboratory. However, five rectal and two pharyngeal specimens were positive by EIA culture confirmation at the commercial laboratory.

The CDC chlamydia laboratory also performed standard IF culture confirmation on residual transport media from the 10 rectal and four pharyngeal specimens initially reported as positive by EIA culture confirmation. No chlamydia were detected in any of these specimens. However, because these 14 transport media had not been stored optimally before transport to CDC, the viability of any chlamydial organisms present

Chlamydia Tests - Continued
would be reduced. Therefore, CDC also analyzed these specimens (and those obtained from the six residents on July 6) by polymerase chain reaction (PCR) using C. trachomatis-specific primers to amplify a portion of the 16s RNA gene; PCR results were also negative. Finally, CDC tested serum specimens from the 16 residents who had positive chlamydia cultures by EIA confirmation and the index resident for antibodies to $C$. trachomatis and $C$. pneumoniae (formerly $C$. psittaci TWAR) using the microimmunofluorescence test and immunoblotting; no $\lg \mathrm{g}$ or $\lg \mathrm{M}$ antibodies to C. trachomatis were detected. IgG antibody to C. pneumoniae, consistent with a past infection, was detected in one resident.

Based on the failure to detect $C$. trachomatis (or C. pneumoniae ) in any specimens by conventional culture techniques, negative PCR results, and the absence of serologic evidence of infection, the investigators concluded that the initial reports of positive chlamydia cultures represented false-positive results.
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Editorial Note: Both culture and nonculture methods for the detection of C. trachomatis are widely used in the United States. When performed by experienced technologists, cell culture isolation of $C$. trachomatis is the most sensitive and specific test. The three types of nonculture methods commercially available for detecting C. trachomatis directly in clinical specimens are EIA, direct immunofluorescence staining of smears (DIF), and nucleic acid probe tests.

In this report, the index resident was tested for chlamydia because of suspicion of sexual abuse, and a nonculture (EIA) chlamydia test performed on a vaginal specimen (a site for which this test is not approved) was positive. However, because the physical findings were not consistent with sexual abuse and serologic evidence of infection was not present, the nonculture results appear to have been false-positive. Based on the evaluation of this resident and subsequent investigation, three important issues concerning the use of laboratory tests to identify C. trachomatis should be emphasized. First, chlamydia tests should be used only on specimens for which they are approved. Each antigen detection and nucleic acid probe test for C. trachomatis is approved for use only on specimens from certain anatomic sites. When used on specimens from sites for which they are not approved, the likelihood of false-positive results is higher. False-positive results have been reported with the use of EIA on vaginal specimens from children (1-3) and rectal specimens from adults and children (4-6) and with DIF staining of rectal smears from adults and children (1,5). EIA and DIF false-positives may result from cross-reactivity with other bacteria commonly present in the anogenital area, including strains of Acinetobacter calcoaceticus, Escherichia coli, Gardnerella vaginalis, group A and group B streptococci, N. gonorrhoeae, Proteus vulgaris, and Staphylococcus aureus (2-4,7-9).

Second, only standard chlamydia cultures should be used in the evaluation of suspected sexual abuse (10) or other situations in which the possibility of a false-positive result is unacceptable. The two components necessary to culture C. trachomatis are a cell-culture system to amplify the number of organisms from a clinical specimen and an inclusion detection method (11). IF staining is the most sensitive detection method available. False-positive results should not occur with IF staining since the chlamydial inclusions have a characteristic morphology and unique staining pattern

## Chlamydia Tests - Continued

(12). Nonculture tests for chlamydia are not recommended and should not be used in the evaluation of suspected sexual abuse because of the possibility of false-positive results.

The method used by the commercial laboratory involved in this report uses the standard cell culture system but with EIA detection of chlamydial antigens rather than an inclusion staining method. EIA involves an automated optical density endpoint reading that is proportional to the amount of antigen present. EIA detection has the potential to generate false-positive results because EIA detects solubilized chlamydial antigens that would be derived from the inoculated cell culture, as well as crossreacting antigens from other organisms present in clinical specimens. Those organisms may be present more commonly in rectal and pharyngeal specimens than in cervical and urethral specimens and may be amplified in the cell culture system if they are resistant to the antimicrobials usually added to the transport medium and cell culture to suppress microbial contamination.

Finally, the term chlamydia "culture" should imply the use of visual identification of characteristic chlamydial intracellular inclusions in cell culture, because this method is specific. Any method that detects solubilized chlamydial macromolecules (e.g., proteins, lipopolysaccharide, DNA, and RNA) after inoculation and incubation of a specimen in cell culture is more likely to yield false-positive results than visual identification of inclusions and therefore may be less specific. Thus, laboratories that claim to be performing chlamydia "culture" should use only standard methods to grow and detect chlamydia. The decision to use EIA (or other methods that do not require visual identification of characteristic inclusions by a trained technician) to identify the presence of chlamydia in cell culture requires full understanding of the advantages and limitations of these methods.

## References

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FIGURE I. Notifiable disease reports, comparison of 4 -week totals ending December 22, 1990, with historical data - United States

*Ratio of current 4 -week total to mean of 154 -week totals (from comparable, previous, and subsequent 4 -week periods for past 5 years).

## TABLE I. Summary - cases of specified notifiable diseases, United States, cumulative, week ending December 22, 1990 (51st Week)

|  | Cum. 1990 |  | Cum. 1990 |
| :---: | :---: | :---: | :---: |
| AIDS | 40,916 | Plague | 2 |
| Anthrax | - | Poliomyelitis, Paralytic* | - |
| Botulism: Foodborne | 21 | Psittacosis | 108 |
| Infant | 57 | Rabies, human | 1 |
| Other | 6 | Syphilis: civilian | 47,440 |
| Brucellosis | 76 | military | 230 |
| Cholera | 6 | Syphilis, congenital, age $<1$ year | 685 |
| Congenital rubella syndrome | 4 | Tetanus | 58 |
| Diphtheria | 4 | Toxic shock syndrome | 283 |
| Encephalitis, post-infectious | 89 | Trichinosis | 30 |
| Gonorrhea: civilian | 646,605 | Tuberculosis |  |
| military | 8,301 | Tularemia | 135 |
| Leprosy | 184 | Typhoid fever | 492 |
| Leptospirosis | $58$ | Typhus fever, tickborne (RMSF) | 649 |
| Measles: imported indigenous | $\begin{array}{r} 1,100 \\ 25,198 \end{array}$ |  |  |

[^1]TABLE II. Cases of specified notifiable diseases, United States, weeks ending December 22, 1990, and December 23, 1989 (51st Week)

| Reporting Area | AIDS | Aseptic Meningitis | Encephalitis |  | Gonorrhea (Civilian) |  | Hepatitis (Viral), by type |  |  |  | Legionellosis | Leprosy |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Primary | Post-infectious |  |  | A | B | NA,NB | Unspecified |  |  |
|  | $\begin{aligned} & \text { Cum. } \\ & 1990 \end{aligned}$ | $\begin{aligned} & \text { Cum. } \\ & 1990 \end{aligned}$ | $\begin{aligned} & \text { Cum. } \\ & 1990 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1990 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1990 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1989 \end{aligned}$ | Cum. 1990 | Cum. <br> 1990 | $\begin{aligned} & \hline \text { Cum. } \\ & 1990 \end{aligned}$ | $\begin{aligned} & \text { Cum. } \\ & 1990 \end{aligned}$ | Cum. 1990 | $\begin{aligned} & \hline \text { Cum. } \\ & 1990 \end{aligned}$ |
| UNITED STATES | 40,916 | 11,064 | 1,141 | 89 | 646,605 | 690,843 | 28,500 | 19,651 | 2,695 | 1,608 | 1,259 | 184 |
| NEW ENGLAND | 1,494 | 407 | 28 | - | 17,733 | 20,130 | 595 | 1,026 | 99 | 69 | 79 | 12 |
| Maine | 56 | 23 | 5 | - | 199 | 255 | 11 | 26 | 5 | 1 | 6 | - |
| N.H. | 66 | 42 | - | - | 288 | 188 | 8 | 40 | 8 | 3 | 4 | - |
| Vt . | 19 | 40 | 2 | - | 50 | 68 | 6 | 49 | 6 | 1 | 6 | - |
| Mass. | 845 | 131 | 12 | - | 7,464 | 7,915 | 390 | 635 | 70 | 60 | 52 | 10 |
| R.I. | 82 | 125 | 1 | - | 1,235 | 1,403 | 54 | 53 | . | 4 | 11 | 1 |
| Conn. | 426 | 46 | 8 | - | 8,497 | 10,301 | 126 | 223 | 10 | - | - | 1 |
| MID. ATLANTIC | 12,008 | 1,041 | 49 | 8 | 88,082 | 99,131 | 3,673 | 2,429 | 222 | 92 | 380 | 20 |
| Upstate N.Y. | 1,518 | 551 | 39 | 1 | 14,234 | 18,063 | 1,209 | 692 | 82 | 26 | 145 | 1 |
| N.Y. City | 6,904 | 132 | 3 | 3 | 32,561 | 37,449 | 487 | 553 | 25 | 43 | 83 | 14 |
| N.J. | 2,384 | - | 1 | - | 14,287 | 14,293 | 428 | 570 | 42 | - | 49 | 4 |
| Pa. | 1,202 | 358 | 6 | 4 | 27,000 | 29,326 | 1,549 | 614 | 73 | 23 | 103 | 1 |
| E.N. CENTRAL | 2,852 | 3,367 | 293 | 15 | 122,673 | 128,761 | 2,509 | 2,279 | 480 | 94 | 310 | 2 |
| Ohio | 620 | 695 | 91 | 4 | 36,074 | 34,087 | 277 | 383 | 92 | 15 | 95 | . |
| Ind. | 262 | 347 | 14 | 9 | 10,909 | 9,850 | 243 | 396 | 22 | 15 | 47 | - |
| III. | 1,182 | 797 | 93 | 2 | 38,315 | 41,339 | 1,218 | 457 | 50 | 18 | 27 | 1 |
| Mich. | 578 | 1,112 | 79 |  | 29,716 | 33,072 | 374 | 637 | 47 | 46 | 98 | 1 |
| Wis. | 210 | 416 | 16 | - | 7,659 | 10,413 | 397 | 406 | 269 | - | 43 | . |
| W.N. CENTRAL | 1,021 | 597 | 117 | 2 | 33,175 | 32,888 | 1,842 | 890 | 156 | 31 | 73 | 1 |
| Minn. | 176 | 121 | 73 | 1 | 4,129 | 3,779 | 268 | 112 | 27 | - | 9 | - |
| lowa | 55 | 117 | 7 | - | 2,230 | 2,757 | 276 | 54 | 13 | 4 | 4 | - |
| Mo. | 585 | 226 | 7 | 1 | 20,013 | 19,978 | 469 | 573 | 87 | 19 | 36 | . |
| N. Dak. | 2 | 25 | 3 | - | 100 | 150 | 26 | 6 | 2 | 2 | 1 | - |
| S. Dak. | 9 | 10 | 9 | - | 302 | 276 | 457 | 8 | 4 | - | 2 | - |
| Nebr. | 57 | 42 | 7 | - | 1,794 | 1,622 | 107 | 33 | 4 | - | 13 | 1 |
| Kans. | 137 | 56 | 11 | - | 4,607 | 4,326 | 239 | 104 | 19 | 6 | 8 | . |
| S. ATLANTIC | 8,804 | 1,959 | 347 | 29 | 185,658 | 185,215 | 3,037 | 3,941 | 362 | 235 | 185 | 6 |
| Del. | 94 | 49 | 5 | - | 3,181 | 3,194 | 105 | 99 | 9 | 2 | 11 | - |
| Md. | 1,028 | 264 | 26 | 1 | 23,280 | 21,605 | 959 | 545 | 69 | 14 | 61 | 3 |
| D.C. | 716 | 9 | - | - | 13,238 | 10,255 | 15 | 39 | 4 | - | 2 | . |
| Va . | 728 | 369 | 55 | 1 | 17,371 | 15,995 | 293 | 261 | 44 | 160 | 13 | - |
| W. Va. | 60 | 57 | 62 | - | 1,337 | 1,482 | 24 | 85 | 4 | 10 | 4 | - |
| N.C. | 550 | 247 | 41 | - | 29,998 | 28,621 | 646 | 1,068 | 147 |  | 35 | 1 |
| S.C. | 344 | 27 | 1 | - | 14,091 | 16,493 | 41 | 617 | 15 | 9 | 25 | - |
| Ga. | 1,234 | 313 | 5 | 1 | 39,804 | 36,908 | 365 | 496 | 14 | 9 | 21 | - |
| Fla. | 4,050 | 624 | 152 | 26 | 43,358 | 50,662 | 589 | 731 | 56 | 31 | 13 | 2 |
| E.S. CENTRAL | 1,033 | 715 | 65 | 2 | 55,733 | 56,292 | 408 | 1,500 | 217 | 8 | 58 | 1 |
| Ky. | 178 | 195 | 26 | - | 5,653 | 5,445 | 90 | 466 | 41 | 6 | 22 | - |
| Tenn. | 333 | 158 | 27 | 2 | 17,546 | 18,952 | 198 | 804 | 143 | - | 21 | 1 |
| Ala. | 241 | 244 | 12 | - | 18,461 | 18,208 | 110 | 172 | 25 | - | 14 | . |
| Miss. | 281 | 118 | - | - | 14,073 | 13,687 | 10 | 58 | 8 | 2 | 1 | - |
| W.S. CENTRAL | 4,376 | 876 | 83 | 9 | 69,076 | 71,541 | 3,596 | 2,155 | 145 | 300 | 51 | 38 |
| Ark. | 195 | 35 | 7 | - | 8,835 | 8,048 | 542 | 86 | 13 | 26 | 9 | - |
| La. | 656 | 93 | 11 | 1 | 12,176 | 15,331 | 212 | 332 | 5 | 7 | 15 | 1 |
| Okla. | 204 | 81 | 3 | 6 | 5,942 | 6,295 | 584 | 169 | 29 | 26 | 17 | - |
| Tex. | 3,321 | 667 | 62 | 2 | 42,123 | 41,867 | 2,258 | 1,568 | 98 | 241 | 10 | 37 |
| MOUNTAIN | 1,072 | 399 | 26 | 2 | 13,091 | 14,277 | 4,458 | 1,425 | 218 | 126 | 54 | 3 |
| Mont. | 16 | 7 | - | - | 218 | 192 | 166 | 73 | 7 | 4 | 6 | - |
| Idaho | 28 | 10 | - | - | 141 | 168 | 92 | 80 | 8 | - | 3 | - |
| Wyo. | 3 | 10 | 1 | - | 148 | 109 | 78 | 17 | 5 | 1 | 2 | - |
| Colo. | 330 | 102 | 5 | - | 3,524 | 3,233 | 332 | 191 | 50 | 45 | 9 | - |
| N. Mex. | 110 | 20 | 1 | - | 1,229 | 1,277 | 919 | 189 | 17 | 10 | 4 | - |
| Ariz. | 295 | 172 | 10 | - | 5,039 | 5,714 | 1,954 | 476 | 72 | 49 | 12 | 2 |
| Utah | 98 | 28 | 5 | - | 373 | 437 | 600 | 102 | 28 | 7 | 6 | - |
| Nev. | 192 | 50 | 4 | 2 | 2,419 | 3,147 | 317 | 297 | 31 | 10 | 12 | 1 |
| PACIFIC | 8,256 | 1,703 | 133 | 22 | 61,384 | 82,608 | 8,382 | 4,006 | 796 | 653 | 69 | 101 |
| Wash. | 639 | - | 7 | 2 | 4,981 | 6,596 | 1,322 | 593 | 136 | 34 | 16 | 9 |
| Oreg. | 335 | - | - | - | 2,472 | 3,051 | 797 | 405 | 57 | 12 | 1 | 5 |
| Calif. | 7,101 | 1,495 | 118 | 19 | 52,422 | 71,398 | 5,989 | 2,877 | 586 | 595 | 51 | 75 |
| Alaska | 24 | 110 | 7 | - | 1,033 | 1,048 | 198 | 55 | 7 | 5 | - | $\cdots$ |
| Hawaii | 157 | 98 | 1 | 1 | 476 | 515 | 76 | 76 | 10 | 7 | 2 | 17 |
| Guam | 2 | 3 | - | - | 218 | 160 | 12 | 4 | - | 11 | - | 1 |
| P.R. | 1,729 | 86 | 8 | 1 | 715 | 1,073 | 160 | 611 | 19 | 28 | - | 6 |
| V.I. | 11 | 1 | - | 31 | 406 | 690 | 1 | 12 | - | - | - | 10 |
| Amer. Samoa | , | 1 | $\bar{\circ}$ | 31 | 73 | 55 | 37 | $\overline{-}$ | - | - | - | 10 |
| C.N.M.I. | - | - | 10 | - | 189 | 90 | 12 | 10 | - | 15 | - | 6 |

TABLE II. (Cont'd.) Cases of specified notifiable diseases, United States, weeks ending December 22, 1990, and December 23, 1989 (51st Week)

| Reporting Area | Malaria | Measles (Rubeola) |  |  |  |  | Meningococcal Infections | Mumps |  | Pertussis |  |  | Rubella |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Indigenous |  | Imported* |  | Total <br> Cum. <br> 1989 |  |  |  |  |  |  |  |  |  |
|  | $\begin{aligned} & \text { Cum. } \\ & 1990 \end{aligned}$ | 1990 | $\begin{aligned} & \text { Cum. } \\ & 1990 \end{aligned}$ | 1990 | $\begin{aligned} & \text { Cum. } \\ & 1990 \end{aligned}$ |  | $\begin{aligned} & \text { Cum. } \\ & 1990 \end{aligned}$ | 1990 | $\begin{aligned} & \text { Cum. } \\ & 1990 \end{aligned}$ | 1990 | $\begin{aligned} & \text { Cum. } \\ & 1990 \end{aligned}$ | $\begin{aligned} & \text { Cum. } \\ & 1989 \end{aligned}$ | 1990 | $\begin{aligned} & \text { Cum. } \\ & 1990 \end{aligned}$ | $\begin{aligned} & \text { Cum: } \\ & 1989 \end{aligned}$ |
| UNITED STATES | 1,161 | 76 | 25,198 | 2 | 1,100 | 16,944 | 2,286 | 97 | 4,970 | 109 | 4,138 | 3,818 | 1 | 1,093 | 379 |
| NEW ENGLAND | 97 | - | 269 | - | 28 | 398 | 181 | - | 49 | 37 | 454 | 393 | - | 8 | 6 |
| Maine | 4 | - | 28 | - | 2 | 1 | 15 | - | - | 1 | 23 | 25 | - | 1 |  |
| N.H. | 4 | - | - | - | 9 | 16 | 14 | - | 11 | 2 | 69 | 16 | - | 1 | 4 |
| Vt . | 7 | - | - | - | 1 | 3 | 13 | - | 2 | . | 8 | 10 | - | . | 1 |
| Mass. | 50 | - | 24 | - | 8 | 108 | 81 | - | 13 | 34 | 317 | 299 | - | 2 | 1 |
| R.I. | 8 | - | 27 | - | 3 | 41 | 14 | - | 11 | . | 10 | 21 | - | 1 | , |
| Conn. | 24 | - | 190 | - | 5 | 229 | 44 | - | 12 | - | 27 | 22 | - | 3 | - |
| MID. ATLANTIC | 235 | 29 | 1,600 | 15 | 158 | 1,020 | 350 | 10 | 358 | 6 | 553 | 326 | - | 11 | 37 |
| Upstate N.Y. | 48 | - | 206 | 1 | 113 | 157 | 134 | 7 | 144 | 3 | 324 | 148 | - | 10 | 14 |
| N.Y. City | 80 | - | 613 | - | 21 | 125 | 46 | - | - | - | - | 17 | . | - | 16 |
| N.J. | 78 | - | 336 | - | 15 | 456 | 68 | - | 95 | - | 36 | 37 | - |  | 7 |
| Pa. | 29 | 29 | 445 | - | 9 | 282 | 102 | 3 | 119 | 3 | 193 | 124 | - | 1 | . |
| E.N. CENTRAL | 73 | - | 3,387 | - | 143 | 6,623 | 300 | 5 | 529 | 8 | 972 | 665 | - | 163 | 30 |
| Ohio | 9 | - | 551 | - | 3 | 2,239 | 93 | - | 91 | 7 | 264 | 147 | - | 131 | 3 |
| Ind. | 3 | U | 417 | U | 1 | 112 | 29 | U | 21 | U | 149 | 60 | U | - | . |
| III. | 34 |  | 1,328 |  | 10 | 3,132 | 83 | - | 186 | - | 332 | 196 | - | 20 | 23 |
| Mich. | 18 | - | 348 | - | 125 | 344 | 69 | 5 | 175 | 1 | 87 | 46 | - | 9 | 1 |
| Wis. | 9 | - | 743 | - | 4 | 796 | 26 | - | 56 | - | 140 | 216 | - | 3 | 3 |
| W.N. CENTRAL | 24 | - | 904 | - | 17 | 951 | 79 | 35 | 199 | 4 | 225 | 244 | - | 50 | 7 |
| Minn. | 8 | - | 424 | - | 6 | 26 | 19 | - | 17 | 1 | 55 | 67 | - | 42 | 7 |
| lowa | 2 | - | 25 | - | 1 | 13 | 1 | - | 23 | 1 | 19 | 15 | - | 4 | 1 |
| Mo. | 12 | - | 101 | - | 1 | 659 | 34 | - | 59 | 2 | 112 | 135 | - | 2 | 4 |
| N. Dak. | - | . | - | - | - | . | 1 | - | . | . | 3 | 5 | - | 1 | 1 |
| S. Dak. | - | - | 15 | - | 8 | - | 3 | - | - | - | 1 | 4 | . | . | . |
| Nebr. | - | - | 105 | - | 1 | 113 | 5 | - | 9 | - | 10 | 10 | . | 1 |  |
| Kans. | 2 | - | 234 | - | - | 140 | 16 | 35 | 91 | - | 25 | 8 | - | - | 1 |
| S. ATLANTIC | 223 | 11 | 951 | - | 375 | 758 | 431 | 25 | 1,981 | 1 | 315 | 375 | - | 21 | 23 |
| Del. | 6 | - | 8 | - | 3 | 40 | 4 |  | 6 | - | 9 | 1 | . | 21 | 23 |
| Md. | 59 | - | 195 | - | 18 | 105 | 48 | 10 | 1,115 | - | 62 | 80 | - | 2 | 2 |
| D.C. | 10 | - | 16 | - | 7 | 42 | 11 | - | 40 | - | 15 | 4 | . | 1 | 2 |
| Va . | 53 | - | 84 | - | 2 | 22 | 54 | - | 106 | - | 25 | 37 | - | 1 | . |
| W. Va. | 2 | 1 | 6 | - | - | 53 | 20 | - | 44 | - | 31 | 34 | - | . |  |
| N.C. | 22 | 1 | 25 | - | 15 | 190 | 78 | 12 | 327 | 1 | 78 | 79 | . | 1 | 1 |
| S.C. | 3 | - | 4 | - |  | 15 | 29 | 1 | 67 | , | 5 |  | - | . | . |
| Ga. | 16 | $10^{-}$ | 99 | - | 259 | 18 | 69 | , | 96 | - | 41 | 54 | - | 1 | - |
| Fla. | 52 | 10 | 514 | - | 71 | 273 | 118 | 2 | 180 | - | 49 | 86 | - | 15 | 20 |
| E.S. CENTRAL | 23 | - | 194 | - | 4 | 255 | 140 | - | 107 | - | 162 | 211 | - | 4 | 5 |
| Ky. | 2 | - | 41 | - | 1 | 44 | 40 | - | , | - | 162 | 1 | - | 1 | 5 |
| Tenn. | 11 | U | 104 | U | - | 147 | 56 | U | 61 | U | 85 | 120 | U | 3 | 4 |
| Ala. | 9 | - | 23 | - | 2 | 60 | 38 |  | 19 | . | 69 | 79 | U | 3 | 1 |
| Miss. | 1 | - | 26 | - | 1 | 4 | 6 | - | 27 | - | 8 | 11 | - | - | . |
| W.S. CENTRAL | 76 | - | 4,233 | - | 96 | 3,321 | 156 | 13 | 741 | 5 | 204 | 378 | - | 91 | 50 |
| Ark. | 4 | - | 18 | - | 31 | 22 | 18 | - | 140 | . | 22 | 31 | - | 3 | 5 |
| La. | 7 | - | 10 | - | - | 119 | 36 | 3 | 124 | - | 34 | 31 | - | 3 | 5 |
| Okla. | 10 | - | 174 | - | - | 110 | 18 | 2 | 108 | 5 | 68 | 66 | - | 1 | 1 |
| Tex. | 55 | - | 4,031 | - | 65 | 3,070 | 84 | 8 | 369 | - | 80 | 250 | - | 87 | 44 |
| MOUNTAIN | 29 | 2 | 878 | - | 100 | 420 | 77 | 3 | 349 | 6 | 331 | 686 | - | 112 | 37 |
| Mont. | 1 | - | - | - | 1 | 13 | 11 | - | 1 | - | 36 | 43 | - | 15 | 1 |
| Idaho | 5 | - | 17 | - | 10 | 7 | 6 | - | 144 | - | 57 | 76 | - | 49 | 32 |
| Wyo. | 1 | - | - | - | 15 |  | 1 | - | 2 | - |  | $\cdots$ | - | 4 | 2 |
| Colo. | 6 | - | 91 | - | 47 | 101 | 25 | - | 26 | 2 | 119 | 107 | - | 4 | 1 |
| N. Mex. | 4 | - | 81 | - | 12 | 31 | 12 | N | N | 2 | 19 | 35 | . | 4 | 1 |
| Ariz. | 11 | - | 300 | - | 12 | 145 | 7 | 2 | 142 | - | 56 | 400 | - | 32 | . |
| Utah | , | - | 147 | - | - | 114 | 7 | 2 | 14 | 4 | 40 | 24 | - | 4 |  |
| Nev. | 1 | 2 | 242 | - | 3 | 9 | 8 | 1 | 20 | - | 4 | 1 | - | 8 | 1 |
| PACIFIC | 381 | 34 | 12,782 | 1 | 179 | 3,198 | 572 | 6 | 657 | 42 | 922 | 540 | 1 | 633 | 184 |
| Wash. | 32 | - | 257 | - | 87 | 54 | 75 |  | 62 | 3 | 220 | 193 | , | 1 | 184 |
| Oreg. | 20 | $3{ }^{-}$ | 169 | it | 44 | 82 | 70 | N | N | 1 | 113 | 18 | - | 75 | 4 |
| Calif. | 323 | 34 | 12,239 | $1+$ | 42 | 3,032 | 410 | 6 | 563 | 38 | 461 | 302 | 1 | 541 | 158 |
| Alaska | 2 | - | 78 | - | 2 | 1 | 12 |  | 6 | - | 15 | 1 | , | 54 | , |
| Hawaii | 4 | - | 39 | - | 4 | 32 | 5 | - | 26 | - | 113 | 26 | - | 16 | 22 |
| Guam | 3 | U | - | U | 1 | 4 | 4 | U | 5 | U | 1 | 1 | U | - | - |
| P.R. | 3 | - | 1,668 | U | , | 568 | 13 | U | 8 | U | 22 | 6 | U | - | 8 |
| V.I. | 5 | U | 21 | U | 3 | 4 |  | U | 14 | U | 2 | 6 | U | - | 8 |
| Amer. Samoa | 35 | U | 600 | U |  | 4 | - | U | 41 | U | - | - | U | - | - |
| C.N.M.I. |  | U | 65 | $\cup$ | 4 | . | 1 | U | 10 | U | 4 | - | U | - | - |

*For measles only, imported cases includes both out-of-state and international importations.
N : Not notifiable U: Unavailable ${ }^{\dagger}$ International ${ }^{5}$ Out-of-state

TABLE II. (Cont'd.) Cases of specified notifiable diseases, United States, weeks ending December 22, 1990, and December 23, 1989 (51st Week)

| Reporting Area | Syphilis (Civilian) (Primary \& Secondary) |  | Toxicshock Syndrome | Tuberculosis |  | Tularemia | Typhoid Fever | Typhus Fever (Tick-borne) (RMSF) | Rabies, Animal |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \hline \text { Cum. } \\ & 1990 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1989 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1990 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1990 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1989 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1990 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1990 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1990 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1990 \end{aligned}$ |
| UNITED STATES | 47,440 | 43,841 | 283 | 23,057 | 21,309 | 135 | 492 | 649 | 4,191 |
| NEW ENGLAND | 1,620 | 1,675 | 25 | 613 | 638 | 4 | 33 | 20 | 6 |
| Maine | 7 | 13 | 8 | 18 | 25 | 1 | - | - | . |
| N.H. | 51 | 16 | 1 | 3 | 26 | - | - | 1 | 3 |
| Vt. | 2 | 1 | 1 | 13 | 9 | - | - | - | - |
| Mass. | 668 | 498 | 13 | 346 | 361 | 3 | 31 | 17 | - |
| R.I. | 24 | 30 | 1 | 73 | 64 | - | - | - | - |
| Conn. | 868 | 1,117 | 1 | 160 | 153 | - | 2 | 2 | 3 |
| MID. ATLANTIC | 9,159 | 9,356 | 32 | 5,440 | 4,398 | 2 | 100 | 30 | 1,100 |
| Upstate N.Y. | 889 | 945 | 11 | 367 | 364 | 1 | 19 | 15 | 220 |
| N.Y. City | 4,016 | 4,394 | 5 | 3,405 | 2,493 | - | 54 | 2 | - |
| N.J. | 1,483 | 1,438 | - | 920 | 862 | 1 | 23 | 8 | 396 |
| Pa . | 2,771 | 2,579 | 16 | 748 | 679 | - | 4 | 5 | 484 |
| E.N. CENTRAL | 3,541 | 1,901 | 64 | 2,196 | 2,152 | 6 | 34 | 48 | 174 |
| Ohio | 554 | 182 | 19 | 387 | 357 | 2 | 6 | 36 | 11 |
| Ind. | 107 | 59 | 1 | 222 | 209 | 1 | 2 | 2 | 17 |
| III. | 1,518 | 828 | 14 | 1,081 | 1,026 | 3 | 17 | 3 | 31 |
| Mich. | 996 | 660 | 30 | 423 | 434 | - | 8 | 7 | 52 |
| Wis. | 366 | 172 | - | 83 | 126 | - | 1 | - | 63 |
| W.N. CENTRAL | 508 | 332 | 35 | 618 | 552 | 45 | 5 | 53 | 629 |
| Minn. | 91 | 61 | 5 | 123 | 101 | - | - | - | 236 |
| lowa | 74 | 36 | 10 | 69 | 55 | - | 1 | 2 | 21 |
| Mo. | 282 | 176 | 9 | 300 | 264 | 33 | 3 | 35 | 29 |
| N. Dak. | 1 | 6 | 1 | 19 | 15 | - | - | - | 93 |
| S. Dak. | 3 | 1 | - | 14 | 31 | 4 | - | 2 | 201 |
| Nebr. | 15 | 24 | 4 | 16 | 22 | 4 | - | 1 | 4 |
| Kans. | 42 | 28 | 6 | 77 | 64 | 4 | 1 | 13 | 45 |
| S. ATLANTIC | 15,063 | 15,421 | 18 | 4,272 | 4,444 | 5 | 80 | 292 | 1,130 |
| Del. | 189 | 226 | 1 | 36 | 44 | - | - | 1 | 32 |
| Md. | 1,177 | 859 | 1 | 351 | 376 | - | 33 | 21 | 442 |
| D.C. | 1,080 | 835 | 1 | 159 | 156 | - | - | 2 | 1 |
| Va . | 880 | 593 | 3 | 384 | 370 | 2 | 7 | 25 | 199 |
| W. Va. | 20 | 15 | - | 80 | 73 | - | 1 | 1 | 37 |
| N.C. | 1,712 | 1,141 | 4 | 596 | 590 | 2 | 4 | 178 | 8 |
| S.C. | 1,049 | 861 | 2 | 463 | 494 | 1 | 2 | 43 | 129 |
| Ga . | 3,831 | 3,848 | 2 | 716 | 779 | - | 4 | 18 | 201 |
| Fla. | 5,125 | 7,043 | 4 | 1,487 | 1,562 | - | 29 | 3 | 81 |
| E.S. CENTRAL | 4,403 | 3,022 | 14 | 1,647 | 1,677 | 8 | 4 | 84 | 175 |
| Ky. | 112 | 56 | 3 | 359 | 380 | 2 | 1 | 11 | 54 |
| Tenn. | 1,844 | 1,329 | 8 | 487 | 531 | 6 | 1 | 58 | 27 |
| Ala. | 1,328 | 920 | 3 | 483 | 455 | - | 2 | 12 | 91 |
| Miss. | 1,119 | 717 | - | 318 | 311 | - | - | 3 | 3 |
| W.S. CENTRAL | 8,218 | 6,230 | 12 | 2,764 | 2,573 | 41 | 31 | 101 | 451 |
| Ark. | 586 | 387 | - | 317 | 297 | 31 | - | 22 | 42 |
| La. | 2,560 | 1,583 | 1 | 276 | 333 | - | 1 | 3 | 31 |
| Okla. | 263 | 124 | 8 | 198 | 214 | 9 | 3 | 70 | 129 |
| Tex. | 4,809 | 4,136 | 3 | 1,973 | 1,729 | 1 | 27 | 6 | 249 |
| MOUNTAIN | 868 | 678 | 29 | 525 | 575 | 20 | 22 | 12 | 214 |
| Mont. | - | 2 | - | 22 | 16 | - | - | 4 | 45 |
| Idaho | 7 | 1 | 2 | 13 | 27 | - | - | 1 | 7 |
| Wyo. | 2 | 6 | 2 | 5 | - | 7 | - | 1 | 54 |
| Colo. | 50 | 64 | 7 | 28 | 57 | 6 | - | 1 | 23 |
| N. Mex. | 46 | 26 | 3 | 106 | 94 | 4 | - | 1 | 12 |
| Ariz. | 616 | 351 | 9 | 250 | 296 | - | 19 | 1 | 38 |
| Utah | 29 | 16 | 5 | 38 | 44 | 3 | - | 3 | 16 |
| Nev. | 118 | 212 | 1 | 63 | 41 | - | 3 | - | 19 |
| PACIFIC | 4,060 | 5,226 | 54 | 4,982 | 4,300 | 4 | 183 | 9 | 312 |
| Wash. | 321 | 478 | 4 | 302 | 231 | 2 | 23 | 2 | - |
| Oreg. | 131 | 239 | 3 | 131 | 139 | - | 5 | 1 | 1 |
| Calif. | 3,580 | 4,485 | 46 | 4,296 | 3,688 | - | 145 | 1 | 289 |
| Alaska | 17 | 9 | - | 59 | 59 | 2 | - | - | 22 |
| Hawaii | 11 | 15 | 1 | 194 | 183 | - | 10 | 5 | - |
| Guam | 2 | 4 | - | 40 | 85 | - | - | - | - |
| P.R. | 313 | 519 | - | 159 | 289 | - | 3 | - | 41 |
| V.I. | 42 | 10 | - | 4 | 4 | - | - | - | - |
| Amer. Samoa | - | - | - | 15 | 7 | - | 1 | - | - |
| C.N.M.I. | 5 | 14 | - | 57 | 31 | - | 4 | - | - |

# TABLE III. Deaths in 121 U.S. cities,* week ending December 22, 1990 (51st Week) 

| Reporting Area | All Causes, By Age (Years) |  |  |  |  |  | $\left\|\begin{array}{l} \mathrm{P} \& \mathrm{l}^{* *} \\ \text { Total } \end{array}\right\|$ | Reporting Area | All Causes, By Age (Years) |  |  |  |  |  | $\begin{aligned} & \text { P\&I** } \\ & \text { Total } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | All Ages | $\geqslant 65$ | 45-64 | 25-44 | 1-24 | <1 |  |  | $\begin{gathered} \text { All } \\ \text { Ages } \end{gathered}$ | $\geqslant 65$ | 45-64 | 25-44 | 1-24 | $<1$ |  |
| NEW ENGLAND | 662 | 459 | 117 | 51 | 15 | 20 | 47 | S. ATLANTIC | 1,203 | 749 | 233 | 141 | 44 | 34 | 69 |
| Boston, Mass. | 182 | 105 | 38 | 19 | 7 | 13 | 16 | Atlanta, Ga. | 169 | 100 | 44 | 20 | 4 | 1 | 5 |
| Bridgeport, Conn. | 38 | 32 | 4 | 2 |  |  | 4 | Baltimore, Md. | 154 | 103 | 21 | 17 | 9 | 3 | 18 |
| Cambridge, Mass. | 21 | 14 | 5 | 2 | - | - | 1 | Charlotte, N.C. | 88 | 50 | 16 | 14 | 2 | 6 | 3 |
| Fall River, Mass. | 30 | 26 | 4 | - | $\bar{\square}$ | - | - | Jacksonville, Fla. | 127 | 83 | 17 | 17 | 4 | 6 | 14 |
| Hartford, Conn. | 78 | 57 | 6 | 9 | 3 | 3 | 4 | Miami, Fla. | 105 | 47 | 32 | 17 | 4 | 4 | 3 |
| Lowell, Mass. | 28 | 19 | 8 | 1 | - | - | 4 | Norfolk, Va. | 71 | 38 | 14 | 8 | 6 | 5 | 1 |
| Lynn, Mass. | 18 | 13 | 3 | 2 | - | - | 1 | Richmond, Va. | 79 | 52 | 17 | 7 | 2 | 1 | 2 |
| New Bedford, Mass. | 23 | 20 | 2 | - | 1 | - | 1 | Savannah, Ga. | 61 | 47 | 8 | 4 | 1 | 1 | 6 |
| New Haven, Conn. | 55 | 37 | 9 | 4 | 2 | 3 | 2 | St. Petersburg, Fla. | 58 | 45 | 9 | 1 | 1 | 2 | 2 |
| Providence, R.I.§ | 49 | 36 | 11 | 2 | - | - | 4 | Tampa, Fla. | 144 | 103 | 26 | 10 | 4 | 1 | 11 |
| Somerville, Mass. | 3 46 | 3 | 9 | - | $i$ | - | 3 | Washington, D.C. | 131 | 72 | 26 | 22 | 7 | 4 | 4 |
| Springfield, Mass. | 46 | 32 | 9 | 4 | 1 | - | 3 | Wilmington, Del. | 16 | 9 | 3 | 4 | . | - | - |
| Waterbury, Conn. | 33 | 21 | 6 | 5 | 1 | 1 | 2 |  |  |  |  |  |  |  |  |
| Worcester, Mass. | 58 | 44 | 12 | 1 | - | 1 | 5 | Birmingham, Ala.§ | 695 110 | 466 69 | 138 23 | 13 | 14 2 | 19 3 | 48 3 |
| MID. ATLANTIC | 3,121 | 1,983 | 648 | 338 | 61 | 90 | 147 | Chattanooga, Tenn. | 49 | 32 | 9 | 4 | 2 | 2 | 6 |
| Albany, N.Y. | 37 18 | 26 14 | 6 2 | 2 | 2 | 3 | 5 | Knoxville, Tenn. | 59 | 42 | 9 | 7 | - | 1 | 7 |
| Allentown, Pa. | 18 | 14 | 2 | 2 |  | - | 1 | Louisville, Ky. | 62 | 46 | 10 | 2 | 2 | 2 | 3 |
| Buffalo, N.Y.§ | 113 | 82 | 21 | 8 | - | 2 | 6 | Memphis, Tenn. | 195 | 121 | 44 | 16 | 6 | 8 | 13 |
| Camden, N.J. | 43 | 27 | 10 | 3 | 1 | 2 | 7 | Mobile, Ala. | 67 | 58 | 7 | 2 | - | . | 3 |
| Elizabeth, N.J. | 34 | 20 | 9 | 5 | - | - | 7 | Montgomery, Ala.§ | 47 | 31 | 11 | 4 | 1 | - | 2 |
| Erie, Pa.t | 40 | 28 | 8 | 3 |  | 1 | 2 | Nashville, Tenn. | 106 | 67 | 25 | 10 | 1 | 3 | 11 |
| Jersey City, N.J. | 70 | 34 | 16 | 7 | ${ }^{-}$ | 12 | 1 |  |  |  |  |  |  |  |  |
| N.Y. City, N.Y. | 1,852 | 1,162 | 378 | 232 | 30 | 50 | 79 | W.S. CENTRAL | 1,392 | 845 | 290 | 147 | 53 | 57 | 91 |
| Newark, N.J. | 55 | 16 | 12 | 19 | 6 | 2 | 4 | Austin, Tex. | 59 | 30 | 7 | 7 | 3 | 12 | 2 |
| Paterson, N.J. | 28 | 14 | 5 | 6 | 2 | 1 | 2 | Baton Rouge, La. | 30 | 20 | 7 | 2 | - | 1 | 3 |
| Philadelphia, Pa. | 390 | 235 | 98 | 36 | 12 | 9 | 18 | Corpus Christi, Tex. | 45 | 34 | 8 | 1 | - | 2 | 5 |
| Pittsburgh, Pa.t | 88 | 59 | 16 | 7 | 4 | 2 | 1 | Dallas, Tex. | 206 | 120 | 48 | 24 | 8 | 6 | 5 |
| Reading, Pa. | 37 | 27 | 8 | 2 | - | - | 5 | El Paso, Tex. | 61 | 43 | 14 | 1 | - | 3 | 5 |
| Rochester, N.Y. | 109 | 84 | 19 | 4 | 1 | 1 | 6 | Fort Worth, Tex. | 99 | 62 | 14 | 13 | 6 | 4 | 1 |
| Schenectady, N.Y. | 28 | 23 | 5 | - | - | - | - | Houston, Tex. | 333 | 185 | 70 | 47 | 20 | 11 | 28 |
| Scranton, Pa.t | 27 | 24 | 3 | - | - | - | 1 | Little Rock, Ark. | 76 | 48 | 18 | 7 | - | 3 | 4 |
| Syracuse, N.Y. | 71 | 53 | 13 | 1 | 1 | 3 | 5 | New Orleans, La. | 137 | 75 | 31 | 19 | 10 | 2 | - |
| Trenton, N.J. | 36 | 22 | 9 | 3 | 1 | 1 | 1 | San Antonio, Tex. | 207 | 134 | 46 | 16 | 4 | 7 | 28 |
| Utica, N.Y. | 18 | 12 | 5 | - | - | 1 | - | Shreveport, La. | 47 | 29 | 13 | 2 | 1 | 2 | 3 |
| Yonkers, N.Y. | 27 | 21 | 5 | - | 1 | - | 3 | Tulsa, Okla. | 92 | 65 | 14 | 8 | 1 | 4 | 7 |
| E.N. CENTRAL | 2,386 | 1,622 | 457 | 180 | 50 | 77 | 113 | MOUNTAIN | 695 | 475 | 132 | 43 | 21 | 24 | 44 |
| Akron, Ohio | 62 | 50 | 8 | 3 | 1 | 7 | 113 | Albuquerque, N. Mex | x. 69 | 44 | 18 | 3 | 2 | 2 | 2 |
| Canton, Ohio | 45 | 34 | 6 | 5 | - | - | 2 | Colo. Springs, Colo. | 39 | 27 | 6 | 3 | 2 | 1 | 3 |
| Chicago, III.§ | 564 | 362 | 125 | 45 | 10 | 22 | 16 | Denver, Colo. | 77 | 50 | 13 | 5 | 4 | 5 | 6 |
| Cincinnati, Ohio | 127 | 91 | 23 | 7 | 4 | 2 | 8 | Las Vegas, Nev. | 142 | 88 | 35 | 11 | 4 | 4 | 4 |
| Cleveland, Ohio | 153 | 101 | 32 | 10 | 2 | 8 | 2 | Ogden, Utah | 29 | 22 | 5 | - | 1 | 1 | 2 |
| Columbus, Ohio | 181 | 123 | 29 | 19 | 7 | 3 | 6 | Phoenix, Ariz. | 169 | 118 | 26 | 12 | 6 | 7 | 10 |
| Dayton, Ohio | 110 | 71 | 27 | 9 | 2 | 1 | 5 | Pueblo, Colo. | 29 | 20 | 6 | 2 | 1 | - | 4 |
| Detroit, Mich. | 252 | 152 | 51 | 27 | 11 | 11 | 6 | Salt Lake City, Utah | 36 105 | 20 | 10 | 3 | 1 | 2 | 6 |
| Evansville, Ind. | 41 | 32 | 4 | 4 | - | 1 | 2 | Tucson, Ariz. | 105 | 86 | 13 | 4 | - | 2 | 7 |
| Fort Wayne, Ind. | 61 | 49 | 8 | 2 | i | 2 | 3 | PACIFIC | 1,915 | 1,272 | 350 | 201 | 43 | 47 | 134 |
| Gary, Ind. | 13 | 5 | 5 | 2 | 1 | - | 1 | Berkeley, Calif. | 19 | 13 | 5 | 201 | 1 | 4 | 134 |
| Grand Rapids, Mich. | 64 | 44 | 14 | 2 | 2 | 2 | 11 | Fresno, Calif. | 79 | 56 | 12 | 4 | 2 | 5 | 3 |
| Indianapolis, Ind. | 233 | 150 | 54 | 11 | 4 | 14 | 11 | Glendale, Calif. | 22 | 16 | 4 | 2 | 2 | 5 |  |
| Madison, Wis. | 45 | 27 | 8 | 5 | 2 | 3 | 6 | Honolulu, Hawaii | 77 | 48 | 16 | 7 | 3 | 3 | 6 |
| Milwaukee, Wis. | 130 | 101 | 17 | 8 | 2 | 2 | 14 | Long Beach, Calif. | 110 | 68 | 22 | 7 | 3 | 10 | 17 |
| Peoria, III. | 43 | 31 | 9 | 2 | - | 1 | 4 | Los Angeles Calif. | 395 | 260 | 74 | 46 | 8 | 5 | 20 |
| Rockford, III. | 57 | 47 | 5 | 2 | 1 | 2 | 3 | Oakland, Calif. 5 | 73 | 51 | 10 | 8 | 3 | 1 | 5 |
| South Bend, Ind. | 56 | 44 | 9 | 3 | - | - | 6 | Pasadena, Calif. | 33 | 20 | 3 | 6 | 1 | 3 | 3 |
| Toledo, Ohio | 106 | 75 | 17 | 11 | 1 | 2 | 7 | Portland, Oreg. | 111 | 81 | 16 | 11 | 1 | 2 | 1 |
| Youngstown, Ohio | 43 | 33 | 6 | 3 | - | 1 | - | Sacramento, Calif. | 178 | 128 | 29 | 14 | 3 | 4 | 25 |
| W.N. CENTRAL | 843 | 614 | 131 | 57 | 14 | 27 | 49 | San Diego, Calif. | 199 | 127 | 40 | 22 | 6 | 4 | 17 |
| Des Moines, lowa | 138 | 105 | 24 | 4 | 3 | 2 | 7 | San Francisco, Calif. | 195 | 104 | 44 | 40 | 5 | 2 | 9 |
| Duluth, Minn. | 28 | 24 | 3 | 1 | - | - | - | San Jose, Calif. | 119 | 112 | 32 | 14 | 4 | 1 | 16 |
| Kansas City, Kans. | 29 | 23 | 3 | 2 | - | 1 | 3 | Seattle, Wash. | 119 | 77 | 23 | 14 | 4 | 1 | 3 |
| Kansas City, Mo. | 125 | 86 | 19 | 13 | 2 | 5 | 9 | Spokane, Wash. Tacoma, Wash. | 63 82 |  | 7 13 | 4 | 2 | 1 | 3 |
| Lincoln, Nebr. | 34 | 26 | 8 | 7 | - | - | - | Tacoma, Wash. | 82 | 60 | 13 | 2 | 2 | 5 | 6 |
| Minneapolis, Minn. | 182 | 137 | 20 | 17 | 4 | 4 | 15 | TOTAL 1 | 12,912 ${ }^{\dagger \dagger}$ | 8,485 | 2,496 | 1,216 | 315 | 395 | 742 |
| Omaha, Nebr.§ | 89 | 62 | 20 | 4 | 1 | 2 | 4 |  |  |  |  |  |  |  |  |
| St. Louis, Mo. | 125 | 86 | 15 | 13 | 3 | 8 | 9 |  |  |  |  |  |  |  |  |
| St. Paul, Minn. | 49 | 35 | 9 | 1 | - | 4 | 1 |  |  |  |  |  |  |  |  |
| Wichita, Kans. | 44 | 30 | 10 | 2 | 1 | 1 | 1 |  |  |  |  |  |  |  |  |

[^2]§Data not available. Figures are estimates based on average of past available 4 weeks.

FIGURE I. Notifiable disease reports, comparison of 4 -week totals ending December 29, 1990, with historical data - United States

*Ratio of current 4-week total to mean of 154 -week totals (from comparable, previous, and subsequent 4 -week periods for past 5 years).

TABLE I. Summary - cases of specified notifiable diseases, United States, cumulative, week ending December 29, 1990 (52nd Week)

|  | Cum. 1990 |  | Cum. 1990 |
| :---: | :---: | :---: | :---: |
| AIDS | 41,129 | Plague | 2 |
| Anthrax |  | Poliomyelitis, Paralytic* |  |
| Botulism: Foodborne | 21 | Psittacosis | 109 |
| Infant | 58 | Rabies, human | 1 |
| Other | 7 | Syphilis: civilian | 48,128 |
| Brucellosis | 77 | military | 235 |
| Cholera | 9 | Syphilis, congenital, age < 1 year | 685 |
| Congenital rubella syndrome | 9 | Tetanus | 60 |
| Diphtheria | 4 | Toxic shock syndrome | 293 |
| Encephalitis, post-infectious | 91 | Trichinosis | 30 |
| Gonorrhea: civilian | 664,159 | Tuberculosis | 23,720 |
| military | 8,579 | Tularemia | 137 |
| Leprosy | 203 | Typhoid fever | 503 |
| Leptospirosis | 60 | Typhus fever, tickborne (RMSF) | 654 |
| Measles: imported indigenous | $\begin{array}{r} 1,099 \\ 25,421 \end{array}$ |  |  |

[^3]TABLE II. Cases of specified notifiable diseases, United States, weeks ending December 29, 1990, and December 30, 1989 (52nd Week)

| Reporting Area | AIDS | Aseptic Meningitis | Encephalitis |  | Gonorrhea (Civilian) |  | Hepatitis (Viral), by type |  |  |  | Legionellosis | Leprosy |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Primary | Post-infectious |  |  | A | B | NA,NB | Unspecified |  |  |
|  | Cum. $1990$ | Cum. $1990$ | Cum. 1990 | $\begin{aligned} & \hline \text { Cum. } \\ & 1990 \\ & \hline \end{aligned}$ | $\begin{aligned} & \text { Cum. } \\ & 1990 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1989 \end{aligned}$ | $\begin{aligned} & \text { Cum. } \\ & 1990 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1990 \end{aligned}$ | $\begin{aligned} & \text { Cum. } \\ & 1990 \end{aligned}$ | $\begin{aligned} & \text { Cum. } \\ & 1990 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1990 \end{aligned}$ | $\begin{aligned} & \text { Cum. } \\ & 1990 \end{aligned}$ |
| UNITED STATES | 41,129 | 11,178 | 1,159 | 91 | 664,159 | 703,463 | 28,919 | 19,939 | 2,773 | 1,625 | 1,284 | 203 |
| NEW ENGLAND | 1,492 | 414 | 28 | - | 17,883 | 20,401 | 600 | 1,040 | 100 | 66 | 80 | 12 |
| Maine | 56 | 23 | 5 | - | 200 | 259 | 11 | 27 | 5 | 1 | 6 |  |
| N.H. | 66 | 42 | - | - | 288 | 195 | 8 | 40 | 9 | 3 | 4 |  |
| V t. | 19 | 40 | 2 | . | 50 | 70 | 6 | 49 | 6 | 1 | 6 |  |
| Mass. | 844 | 133 | 12 | - | 7,556 | 8,069 | 391 | 646 | 70 | 58 | 53 | 10 |
| R.I. | 82 | 130 | 1 | - | 1,248 | 1,414 | 54 | 54 |  | 3 | 11 | 1 |
| Conn. | 425 | 46 | 8 | - | 8,541 | 10,394 | 130 | 224 | 10 | . |  | 1 |
| MID. ATLANTIC | 11,972 | 1,052 | 50 | 8 | 91,788 | 100,555 | 3,675 | 2,440 | 222 | 92 | 394 | 20 |
| Upstate N.Y. | 1,511 | 559 | 40 |  | 14,447 | 18,271 | 1,209 | 698 | 82 | 26 | 148 | 1 |
| N.Y. City | 6,888 | 132 | 3 | 3 | 32,561 | 38,251 | 487 | 553 | 25 | 43 | 83 | 14 |
|  | 2,376 |  | 1 |  | 14,287 | 14,403 | 428 | 570 | 42 |  | 49 | 4 |
| Pa . | 1,197 | 361 | 6 | 4 | 30,493 | 29,630 | 1,551 | 619 | 73 | 23 | 114 | 1 |
| E.N. CENTRAL | 2,909 | 3,411 | 300 | 16 | 126,679 | 133,009 | 2,604 | 2,343 | 499 | 94 | 312 | 2 |
| Ohio | 660 | 708 | 91 | 4 | 39,695 | 34,548 | 292 | 387 | 94 | 15 | 95 |  |
| Ind. | 282 | 366 | 18 | 10 | 11,149 | 9,880 | 263 | 423 | 25 | 15 | 48 |  |
| III. | 1,181 | 809 | 96 | 2 | 38,395 | 44,428 | 1,278 | 475 | 55 | 18 | 28 | 1 |
| Mich. | 577 | 1,112 | 79 | . | 29,716 | 33,627 | 374 | 637 | 47 | 46 | 98 | 1 |
| Wis. | 209 | 416 | 16 | - | 7,724 | 10,526 | 397 | 421 | 278 | . | 43 | . |
| W.N. CENTRAL | 1,020 | 603 | 118 | 2 | 33,451 | 33,626 | 1,888 | 893 | 158 | 31 | 73 | 1 |
| Minn. | 176 | 122 | 74 | 1 | 4,149 | 3,807 | 275 | 114 | 29 |  | 9 |  |
| lowa | 55 | 122 | 7 | - | 2,285 | 2,757 | 276 | 54 | 13 | 4 | 4 |  |
| Mo. | 583 | 226 | 7 | 1 | 20,192 | 20,625 | 471 | 574 | 87 | 19 | 36 |  |
| N. Dak. | 2 | 25 | 3 |  | 100 | 150 | 27 | 6 | 2 | 2 | 1 | - |
| S. Dak. | 9 | 10 | 9 | - | 308 | 277 | 493 | 8 | 4 |  | 2 |  |
| Nebr. | 58 | 42 | 7 | - | 1,804 | 1,684 | 107 | 33 | 4 |  | 13 | 1 |
| Kans. | 137 | 56 | 11 | - | 4,613 | 4,326 | 239 | 104 | 19 | 6 | 8 |  |
| S. ATLANTIC | 8,746 | 1,977 | 351 | 29 | 189,752 | 187,725 | 3,048 | 3,987 | 366 | 241 | 186 | 6 |
| Del. | 94 | 49 | 5 |  | 3,251 | 3,411 | +105 | -99 | - 9 | 2 | 11 |  |
| Md. D.C. | 1,002 704 | 266 9 | 26 | 1 | 23,280 | 21,853 | 960 | 562 | 72 | 14 | 61 | 3 |
| Va. | 704 | 9 369 | 55 | $i$ | 13,517 | 10,255 | 15 | 39 | 4 |  | 2 |  |
| W. Va. | 59 | 56 | 65 | 1 | 17,680 1,347 | 15,995 | 293 | 261 | 44 | 160 | 13 | - |
| N.C. | 558 | 252 | 42 | - | 1,347 31,982 | 1,500 | 24 | 87 | 4 | 10 | 4 | - |
| S.C. | 342 | 28 | 1 | - | 14,146 | 29,132 16,493 | 651 | 1,082 | 148 | 6 | 36 | 1 |
| Ga. | 1,222 | 315 | 5 | 1 | 40,633 | 37,859 | 45 365 | 624 496 | 15 14 | 9 | 25 |  |
| Fla. | 4,048 | 633 | 155 | 26 | 43,916 | 51,227 | 590 | 737 | 56 | 31 | 21 13 |  |
| E.S. CENTRAL | 1,039 | 717 | 67 | 2 | 57,056 | 56,906 | 438 | 1,559 | 224 |  |  |  |
| Ky. | 190 | 195 | 26 |  | 5,770 | 5,505 | 92 | +469 | 24 41 | 6 | 22 | 1. |
| Tenn. | 331 | 158 | 27 | 2 | 18,112 | 19,261 | 198 | 804 | 143 | 6 | 21 |  |
| Ala. | 239 | 245 | 14 |  | 18,858 | 18,208 | 110 | 175 | - 26 | - | 14 | 1 |
| Miss. | 279 | 119 | - | - | 14,316 | 13,932 | 38 | 111 | 14 | 2 | 1 1 | - |
| W.S. CENTRAL | 4,417 | 890 | 83 | 9 | 71,436 | 72,758 | 3,633 | 2,166 | 145 | 302 | 51 | 38 |
| Ark. | 208 | 39 | 7 |  | 8,881 | 8,086 | + 556 | 2,90 | 13 | 27 | 9 | 38 |
| La. | 703 | 93 | 11 | 1 | 12,843 | 15,381 | 214 | 335 | 5 | 7 | 15 |  |
| Okla. | 203 | 81 | 3 | 6 | 6,035 | 6,449 | 591 | 169 | 29 | 26 | 17 | 1 |
| Tex. | 3,303 | 677 | 62 | 2 | 43,677 | 42,842 | 2,272 | 1,572 | 98 | 242 | 10 | 37 |
| MOUNTAIN | 1,125 | 399 | 26 | 2 | 13,484 | 14,438 | 4,493 | 1,447 | 225 | 126 |  | 3 |
| Mont. | 17 | 7 | - |  | 220 | 196 | 167 | 74 | 7 | 4 | 6 | 3 |
| Idaho | 28 | 10 | - | - | 143 | 172 | 93 | 83 | 8 | - | 3 |  |
| Wyo. | 3 | 10 | 1 | - | 151 | 109 | 78 | 17 | 5 | 1 | 2 |  |
| Colo. | 364 | 102 | 5 | - | 3,617 | 3,301 | 334 | 196 | 56 | 43 | 9 |  |
| N. Mex. | 109 | 20 | 1 | - | 1,241 | 1,296 | 919 | 189 | 17 | 10 | 4 |  |
| Ariz. | 315 | 172 | 10 | - | 5,258 | 5,776 | 1,980 | 482 | 72 | 51 | 15 | 2 |
| Utah | 98 | 28 | 5 | - | 385 | 441 | 602 | 103 | 28 | 7 | 8 | $\underline{ }$ |
| Nev . | 191 | 50 | 4 | 2 | 2,469 | 3,147 | 320 | 303 | 32 | 10 | 13 | 1 |
| PACIFIC | 8,409 | 1,715 | 136 | 23 | 62,630 | 84,045 | 8,540 | 4,064 | 834 | 665 | 70 | 120 |
| Wash. | 637 | - | 8 | 2 | 5,022 | 6,657 | 1,378 | 621 | 144 | 36 | 17 | 9 |
| Oreg. | 335 |  | - | - | 2,503 | 3,104 | 803 | 412 | 58 | 13 |  | , |
| Calif. | 7,257 | 1,502 | 120 | 20 | 53,580 | 72,687 | 6,085 | 2,900 | 615 | 604 | 51 | 76 |
| Alaska | 24 | 110 | 7 | - | 1,042 | 1,072 | 198 | 55 | 7 | 5 | , |  |
| Hawaii | 156 | 103 | 1 | 1 | 483 | 525 | 76 | 76 | 10 | 7 | 2 | 35 |
| Guam | 2 | 3 | - | - | 218 | 160 | 12 | 4 | - | 11 |  |  |
| P.R. | 1,727 | 86 | 8 | 1 | 715 | 1,073 | 160 | 611 | 19 | 28 | - | 6 |
| V.I. | 11 | - | - |  | 470 | 697 | 1 | 13 |  |  |  |  |
| Amer. Samoa |  | 1 | - | 31 | 73 | 56 | 37 | - | . | - | - | 10 |
| C.N.M.I. | - | - | 10 | . | 189 | 94 | 12 | 10 | - | 15 | - | 6 |

TABLE II. (Cont'd.) Cases of specified notifiable diseases, United States, weeks ending December 29, 1990, and December 30, 1989 (52nd Week)

| Reporting Area | Malaria | Measles (Rubeola) |  |  |  |  | Meningococcal Infections | Mumps |  | Pertussis |  |  | Rubella |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Indigenous |  | Imported* |  | Total <br> Cum. <br> 1989 |  |  |  |  |  |  |  |  |  |
|  | $\begin{aligned} & \hline \text { Cum. } \\ & 1990 \end{aligned}$ | 1990 | $\begin{aligned} & \hline \text { Cum. } \\ & 1990 \end{aligned}$ | 1990 | $\begin{aligned} & \text { Cum. } \\ & 1990 \end{aligned}$ |  | $\begin{aligned} & \text { Cum. } \\ & 1990 \end{aligned}$ | 1990 | $\begin{aligned} & \hline \text { Cum. } \\ & 1990 \end{aligned}$ | 1990 | $\begin{aligned} & \hline \text { Cum. } \\ & 1990 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1989 \end{aligned}$ | 1990 | $\begin{aligned} & \text { Cum. } \\ & 1990 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1989 \end{aligned}$ |
| UNITED STATES | 1,185 | 276 | 25,421 | 1 | 1,099 | 17,862 | 2,349 | 102 | 5,075 | 46 | 4,188 | 4,030 | 8 | 1093 | 384 |
| NEW ENGLAND | 98 | - | 269 | - | 28 | 398 | 183 | - | 49 | 7 | 461 | 421 | - | 8 | 6 |
| Maine | 4 | - | 28 | - | 2 | 1 | 16 | - | - | 1 | 24 | 27 | - | 1 | - |
| N.H. | 4 | - | - | - | 9 | 16 | 14 | - | 11 | - | 69 | 30 | - | 1 | 4 |
| Vt. | 7 | - | - | - | 1 | 3 | 13 | - | 2 | - | 8 | 11 | - | - | 1 |
| Mass. | 50 | - | 24 | - | 8 | 108 | 81 | - | 13 | 6 | 323 | 307 | - | 2 | 1 |
| R.I. | 9 | - | 27 | - | 3 | 41 | 14 | - | 11 | - | 10 | 21 | - | 1 | . |
| Conn. | 24 | - | 190 | - | 5 | 229 | 45 | - | 12 | - | 27 | 25 | - | 3 | - |
| MID. ATLANTIC | 245 | - | 1,600 | - | 158 | 1,072 | 376 | 2 | 360 | 1 | 554 | 344 | - | 11 | 37 |
| Upstate N.Y. | 49 | - | 206 | - | 113 | 199 | 138 | 2 | 146 | 1 | 325 | 166 | - | 10 | 14 |
| N.Y. City | 80 | - | 613 | - | 21 | 135 | 46 | - | - | - | - | 17 | - | - | 16 |
| N.J. | 78 | - | 336 | - | 15 | 456 | 68 | - | 95 | - | 36 | 37 | - | - | 7 |
| Pa . | 38 | - | 445 | - | 9 | 282 | 124 | - | 119 | - | 193 | 124 | - | 1 | . |
| E.N. CENTRAL | 74 | 10 | 3,392 | - | 142 | 7,247 | 302 | - | 529 | 5 | 977 | 671 | - | 163 | 30 |
| Ohio | 9 | 10 | 556 | - | 2 | 2,720 | 94 | - | 91 | - | 264 | 147 | - | 131 | 3 |
| Ind. | 3 | . | 417 | - | 1 | 112 | 30 | - | 21 | 5 | 154 | 60 | - | - | . |
| III. | 35 | - | 1,328 | - | 10 | 3,191 | 83 | - | 186 | - | 332 | 198 | - | 20 | 23 |
| Mich. | 18 | U | 348 | U | 125 | 359 | 69 | U | 175 | U | 87 | 48 | U | 9 | 1 |
| Wis. | 9 | - | 743 | - | 4 | 865 | 26 | - | 56 | - | 140 | 218 | - | 3 | 3 |
| W.N. CENTRAL | 25 | - | 856 | - | 16 | 980 | 79 | 5 | 204 | 5 | 232 | 258 | 2 | 44 | 8 |
| Minn. | 8 | - | 376 | - | 5 | 41 | 19 | - | 17 | 4 | 59 | 70 | 2 | 36 | . |
| lowa | 2 | - | 25 | - | 1 | 13 | 1 | - | 23 | 1 | 20 | 15 | - | 4 | 1 |
| Mo. | 12 | - | 101 | - | 1 | 673 | 34 | - | 59 | - | 112 | 142 | - | 2 | 4 |
| N. Dak. | - | - | - | - | - | - | 1 | - | - | - | 5 | 5 | - | 1 | 1 |
| S. Dak. | - | - | 15 | - | 8 | - | 3 | - | - | - | 1 | 4 | - | - | . |
| Nebr. | - | - | 105 | - | 1 | 113 | 5 | - | 9 | - | 10 | 10 | - | 1 | $\cdot$ |
| Kans. | 3 | - | 234 | - | - | 140 | 16 | 5 | 96 | - | 25 | 12 | - | - | 2 |
| S. ATLANTIC | 224 | 1 | 952 | - | 375 | 851 | 434 | 17 | 1,998 | 13 | 328 | 389 | 1 | 22 | 24 |
| Del. | 6 | 1 | 9 | - | 3 | 40 | 4 | - | 6 |  | 9 | 1 | - | - | , |
| Md. | 59 | - | 195 | - | 18 | 116 | 48 | 3 | 1,118 | - | 62 | 82 | - | 2 | 2 |
| D.C. | 10 | - | 16 | - | 7 | 42 | 11 | 1 | 41 | - | 15 | 4 | - | 1 | . |
| Va . | 53 | - | 84 | - | 2 | 22 | 54 | - | 106 | - | 25 | 37 | - | 1 | . |
| W. Va. | 2 | - | 6 | - | - | 53 | 20 | - | 44 | - | 31 | 36 | - | - | - |
| N.C. | 23 | - | 25 | - | 15 | 190 | 81 | - | 327 | - | 78 | 79 | - | 1 | 1 |
| S.C. | 3 | - | 4 | - | - | 48 | 29 | 8 | 75 | 9 | 14 | - | 1 | 1 | . |
| Ga . | 16 | - | 99 | - | 259 | 18 | 69 | - | 96 | - | 41 | 55 | - | 1 | - |
| Fla. | 52 | - | 514 | - | 71 | 322 | 118 | 5 | 185 | 4 | 53 | 95 | - | 15 | 21 |
| E.S. CENTRAL | 24 | - | 194 | - | 4 | 261 | 148 | 1 | 108 | - | 162 | 245 | - | 4 | 5 |
| KY. | 2 | - | 41 | - | 1 | 47 | 42 | - | 108 | - | , | 35 | - | 1 | - |
| Tenn. | 11 | - | 104 | - | - | 147 | 56 | - | 61 | - | 85 | 120 | - | 3 | 4 |
| Ala. | 9 | - | 23 | - | 2 | 60 | 39 | - | 19 | - | 69 | 79 | - |  | 1 |
| Miss. | 2 | - | 26 | - | 1 | 7 | 11 | 1 | 28 | - | 8 | 11 | - | - | - |
| W.S. CENTRAL | 77 | - | 4,233 | - | 96 | 3,400 | 161 | 64 | 805 | 2 | 206 | 429 | - | 91 | 50 |
| Ark. | 4 | - | 18 | - | 31 | 22 | 19 | - | 140 | 1 | 23 | 35 | - | 3 | . |
| La. | 8 | - | 10 | - | - | 119 | 37 | - | 124 |  | 34 | 38 | - | , | 5 |
| Okla. | 10 | $\bullet$ | 174 | - | - | 110 | 19 | - | 108 | 1 | 69 | 66 | - | 1 | 1 |
| Tex. | 55 | - | 4,031 | - | 65 | 3,149 | 86 | 64 | 433 | - | 80 | 290 | - | 87 | 44 |
| MOUNTAIN | 29 | 3 | 881 | - | 100 | 420 | 80 | 3 | 352 | 6 | 337 | 693 | 2 | 114 | 37 |
| Mont. | 1 | - | - | - | 1 | 13 | 11 | . | 1 |  | 36 | 43 | 2 | 15 | 1 |
| Idaho | 5 | - | 16 | - | 10 | 7 | 6 | - | 144 | 1 | 58 | 76 | - | 49 | 32 |
| Wyo. | 1 | - | - | - | 15 | - | 1 | 1 | 3 | 1 | 1 |  | 1 | 1 | 2 |
| Colo. | 6 | - | 91 | - | 47 | 101 | 26 | N | 26 | 4 | 123 | 112 | . | 4 | 1 |
| N. Mex. | 4 | - | 81 | - | 12 | 31 | 12 | N | N | - | 19 | 35 | . | - | . |
| Ariz. | 11 | - | 300 | - | 12 | 145 | 9 | 1 | 143 | - | 56 | 400 | - | 32 | - |
| Utah | - | - | 147 | - | - | 114 | 7 | - | 14 | - | 40 | 26 | - | 4 | - |
| Nev. | 1 | 3 | 246 | - | 3 | 9 | 8 | 1 | 21 | - | 4 | 1 | 1 | 9 | 1 |
| PACIFIC | 389 | 262 | 13,044 | 1 | 180 | 3,233 | 586 | 10 | 670 | 7 | 931 | 580 | 3 | 636 | 187 |
| Wash. | 33 | 262 | 257 | $1 \S$ | 88 | 56 | 78 | 4 | 66 | 5 | 225 | 197 | 3 | 1 | 187 |
| Oreg. | 20 | - | 169 | - | 44 | 82 | 72 | N | N | . | 113 | 18 | 2 | 77 | 4 |
| Calif. | 329 | 262 | 12,501 | - | 42 | 3,065 | 418 | 6 | 570 | 2 | 463 | 336 | 1 | 542 | 160 |
| Alaska | 2 | 262 | 78 | - | 2 | , 1 | 12 | - | 8 | 2 | 17 | 1 | . | 542 | 160 |
| Hawaii | 5 | - | 39 | - | 4 | 32 | 6 | - | 26 | - | 113 | 28 | - | 16 | 23 |
| Guam | 3 | U | - | U | 1 | 4 | 4 | U | 5 | U | 1 | 1 | U | - | - |
| P.R. | 3 | U | 1,668 | U | - | 604 | 13 | U | 8 | U | 22 | 6 | U | - | 8 |
| V.I. | - |  | 21 | - | 3 | 4 |  | 1 | 15 |  | 22 | 6 | - | - | 8 |
| Amer. Samoa | 35 | U | 600 | U | - |  | - | U | 41 | U | . | - | U | - | - |
| C.N.M.I. | - | U | 65 | U | 4 | - | 1 | U | 10 | U | 4 | - | U | - | - |

*For measles only, imported cases includes both out-of-state and international importations.
N : Not notifiable U: Unavailable ${ }^{\dagger}$ International ${ }^{\$}$ Out-of-state

TABLE II. (Cont'd.) Cases of specified notifiable diseases, United States, weeks ending December 29, 1990, and December 30, 1989 (52nd Week)

| Reporting Area | Syphilis (Civilian) (Primary \& Secondary) |  | Toxicshock Syndrome | Tuberculosis |  | Tularemia <br> Cum. 1990 | Typhoid <br> Fever <br> Cum. <br> 1990 | Typhus Fever <br> (Tick-borne) <br> (RMSF) <br> Cum. <br> 1990 | Rabies, <br> Animal <br> Cum. <br> 1990 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \hline \text { Cum. } \\ & 1990 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1989 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1990 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1990 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & \hline \end{aligned}$ |  |  |  |  |
| UNITED STATES | 48,128 | 44,940 | 293 | 23,720 | 22,422 | 137 | 503 | 654 | 4,219 |
| NEW ENGLAND | 1,629 | 1,718 | 27 | 679 | 717 | 4 | 33 | 20 | 6 |
| Maine | 7 | 13 | 8 | 18 | 25 | 1 | - | - |  |
| N.H. | 51 | 16 | 1 | 3 | 29 | - | - | 1 | 3 |
| Vt. | 2 | 1 | 2 | 13 | 9 | - | - | - |  |
| Mass. | 668 | 512 | 14 | 407 | 430 | 3 | 31 | 17 | - |
| R.I. | 26 | 30 | 1 | 75 | 64 | . | 3 |  |  |
| Conn. | 875 | 1,146 | 1 | 163 | 160 | - | 2 | 2 | 3 |
| MID. ATLANTIC | 9,169 | 9,546 | 36 | 5,610 | 4,548 | 2 | 103 | 30 | 1,105 |
| Upstate N.Y. | 889 | 957 | 11 | , 377 | 376 | 1 | 19 | 15 | 223 |
| N.Y. City | 4,016 | 4,518 | 5 | 3,554 | 2,563 | , | 54 | 2 |  |
| N.J. | 1,483 | 1,466 | - | 931 | 922 | 1 | 23 | 8 | 398 |
| Pa. | 2,781 | 2,605 | 20 | 748 | 687 | . | 7 | 5 | 484 |
| E.N. CENTRAL | 3,555 | 2,054 | 65 | 2,218 | 2,211 | 6 | 38 | 48 | 174 |
| Ohio | 554 | 182 | 20 | , 387 | 2, 381 | 2 | 6 | 36 | 11 |
| Ind. | 114 | 61 | 1 | 230 | 220 | 1 | 2 | 2 | 17 |
| III. | 1,524 | 944 | 14 | 1,091 | 1,026 | 3 | 21 | 3 | 31 |
| Mich. | 996 | 695 | 30 | 423 | 458 | . | 8 | 7 | 52 |
| Wis. | 367 | 172 |  | 87 | 126 | - | 1 | . | 63 |
| W.N. CENTRAL | 514 | 344 | 35 | 623 | 584 | 46 | 5 | 54 | 633 |
| Minn. | 92 | 64 | 5 | 125 | 103 |  | 5 |  | 238 |
| lowa | 75 | 36 | 10 | 71 | 68 | - | 1 | 2 | 21 |
| Mo. | 284 | 183 | 9 | 300 | 278 | 34 | 3 | 36 | 29 |
| N. Dak. | 1 | 6 | 1 | 19 | 15 | 3 | 3 | 3 | 95 |
| S. Dak. | 3 | 1 | - | 14 | 31 | 4 | - | 2 | 201 |
| Nebr. | 17 | 26 | 4 | 16 | 22 | 4 | - | 1 | 4 |
| Kans. | 42 | 28 | 6 | 78 | 67 | 4 | 1 | 13 | 45 |
| S. ATLANTIC | 15,194 | 15,624 | 18 | 4,477 | 4,661 | 5 | 80 | 292 | 1,141 |
| Del. | 190 | 230 | 1 | , 36 | 4,66 | 5 | 8 | 1 | 32 |
| Md. | 1,177 | 876 | 1 | 388 | 397 | . | 33 | 21 | 447 |
| D.C. | 1,082 | 835 | 1 | 159 | 156 | - | 3 | 2 | 2 |
| Va. | 880 | 593 | 3 | 411 | 381 | 2 | 7 | 25 | 202 |
| W. Va. | 20 | 16 | 3 | 82 | 73 | 2 | 1 | 1 | 37 |
| N.C. | 1,729 | 1,162 | 4 | 668 | 637 | 2 | 4 | 178 | 8 |
| S.C. | 1,061 | 861 | 2 | 464 | 509 | 1 | 2 | 43 | 129 |
| Ga. | 3,878 | 3,897 | 2 | 753 | 801 | - | 4 | 18 | 202 |
| Fla. | 5,177 | 7,154 | 4 | 1,516 | 1,661 | - | 29 | 3 | 82 |
| E.S. CENTRAL | 4,589 | 3,119 | 14 | 1,648 | 1,736 | 8 | 4 | 88 | 177 |
| Ky . | $\begin{array}{r}117 \\ \hline\end{array}$ | 60 | 3 | 359 | 380 | 2 | 1 | 11 | 54 |
| Tenn. | 1,938 | 1,412 | 8 | 487 | 568 | 6 | 1 | 58 | 27 |
| Ala. | 1,390 | 920 | 3 | 484 | 464 | . | 2 | 13 | 93 |
| Miss. | 1,144 | 727 |  | 318 | 324 | - | 2 | 6 | 3 |
| W.S. CENTRAL | 8,473 | 6,494 | 12 | 2,776 | 2,646 | 41 | 31 | 101 | 452 |
| Ark. | 593 | , 387 | 12 | + 320 | 2,643 | 31 | 3 | 22 | 42 |
| La. | 2,626 | 1,632 | 1 | 276 | 333 | 3 | 1 | 3 | 31 |
| Okla. | 264 | 134 | 8 | 207 | 230 | 9 | 3 | 70 | 130 |
| Tex. | 4,990 | 4,341 | 3 | 1,973 | 1,770 | 1 | 27 | 6 | 249 |
| MOUNTAIN | 884 | 708 | 30 | 553 | 657 | 21 | 22 | 12 | 214 |
| Mont. | - | 2 | . | 22 | 31 | 21 | 22 | 4 | 45 |
| Idaho | 9 | 1 | 2 | 12 | 28 | - | - | 1 | 7 |
| Wyo. | 2 | 6 | 2 | 5 | 2 | 7 | . | 1 | 54 |
| Colo. | 51 | 64 | 7 | 28 | 73 | 6 | - | 1 | 23 |
| N. Mex. | 51 | 26 | 3 | 124 | 96 | 4 | - | 1 | 12 |
| Ariz. | 616 | 381 | 10 | 261 | 332 |  | 19 | 1 | 38 |
| Utah | 29 | 16 | 5 | 38 | 56 | 4 |  | 3 | 16 |
| Nev. | 126 | 212 | 1 | 63 | 41 | 4 | 3 | - | 19 |
|  |  | 5,333 | 56 | 5,136 | 4,662 | 4 | 187 | 9 | 317 |
| Wash. | 321 | 489 | 4 | 302 | 240 | 2 | 23 | 2 | - |
| Oreg. | 137 3 | 245 | 3 | 138 | 145 | 2 | 5 | 1 | 1 |
| Calif. | 3,634 | 4,574 | 48 | 4,439 | 4,026 | - | 149 | 1 | 294 |
| Alaska | 17 | 10 | - | 61 | , 62 | 2 | , | - | 22 |
| Hawaii | 12 | 15 | 1 | 196 | 189 | - | 10 | 5 | 22 |
| Guam | 2 | 4 | - | 40 | 85 | - | - | . | - |
| P.R. | 313 | 519 | - | 159 | 289 | - | 3 | - | 41 |
| V.I. | 44 | 10 | . | 4 | 4 | - | 3 | . | 4 |
| Amer. Samoa | - | - | - | 15 | 7 | - | 1 | - | - |
| C.N.M.I. | 5 | 14 | - | 57 | 31 | - | 4 | - | - |

TABLE III. Deaths in 121 U.S. cities,* week ending December 29, 1990 (52nd Week)

| Reporting Area | All Causes, By Age (Years) |  |  |  |  |  | Total | Reporting Area | All Causes, By Age (Years) |  |  |  |  |  | $\begin{aligned} & \text { P\&l** } \\ & \text { Total } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | All Ages | $\geqslant 65$ | 45-64 | 25-44 | 1.24 | $<1$ |  |  | $\begin{gathered} \text { All } \\ \text { Ages } \end{gathered}$ | $\geqslant 65$ | 45-64 | 25-44 | 1-24 | $<1$ |  |
| NEW ENGLAND | 653 | 460 | 113 | 52 | 17 | 11 | 44 | S. ATLANTIC | 1,085 | 696 | 227 | 98 | 29 | 33 | 63 |
| Boston, Mass. | 173 | 112 | 32 | 19 | 8 | 2 | 13 | Atlanta, Ga. | 108 | 54 | 22 | 19 | 2 | 11 | 4 |
| Bridgeport, Conn. | 45 | 37 | 5 |  | 1 | 2 | 3 | Baltimore, Md. | 213 | 144 | 46 | 12 | 5 | 5 | 20 |
| Cambridge, Mass. | 16 | 13 | 2 | - | - | 1 | - | Charlotte, N.C. | 60 | 38 | 13 | 7 |  | 2 | 2 |
| Fall River, Mass. | 26 | 21 | 4 | 1 | - | - | $\overline{-}$ | Jacksonville, Fla. | 105 | 75 | 21 | 6 | 2 | 1 | 9 |
| Hartford, Conn. | 78 | 56 | 15 | 3 | 2 | 2 | 5 | Miami, Fla. | 114 | 67 | 26 | 13 | 4 | 4 | 1 |
| Lowell, Mass. | 22 | 13 | 5 | 2 | 2 | - | 2 | Norfolk, Va. | 43 | 26 | 14 | 1 | - | 2 | 4 |
| Lynn, Mass. | 13 | 11 | 2 |  | . | - | - | Richmond, Va. | 63 | 44 | 12 | 7 | - | - | 2 |
| New Bedford, Mass. | 19 | 16 | 2 | 1 | - |  | - | Savannah, Ga. | 57 | 43 | 11 | 1 |  | 2 | 2 |
| New Haven, Conn. | 49 | 28 | 7 | 10 | 2 | 2 | 2 | St. Petersburg, Fla. | 86 | 67 | 10 | 5 | 3 | 1 | 8 |
| Providence, R.I. | 83 | 58 | 19 | 6 | - | - | 6 | Tampa, Fla. | 100 | 64 | 19 | 8 | 4 | 4 | 5 |
| Somerville, Mass. | 3 | 2 |  | 1 | - | - | - | Washington, D.C. | 109 | 56 | 27 | 18 | 7 | 1 | 2 |
| Springfield, Mass. | 45 | 34 | 7 | 3 | , | - | 2 | Wilmington, Del. | 27 | 18 | 6 | 1 | 2 | - | 4 |
| Waterbury, Conn. | 28 | 20 | 4 | 3 | 1 | 2 | 4 |  | 641 |  |  |  | 21 |  | 47 |
| Worcester, Mass. | 53 | 39 | 9 | 3 |  | 2 | 7 | Birmingham, Ala. | $\begin{array}{r} 61 \\ 81 \end{array}$ | 430 51 | 126 22 | 4 | 21 | 17 4 | 47 3 |
| MID. ATLANTIC | 2,403 | 1,616 | 451 | 241 | 45 | 50 | 127 | Chattanooga, Tenn. | 35 | 26 | 4 | 4 | 1 | - | 5 |
| Albany, N.Y. | 60 | 43 | 9 | 5 | 1 | 2 | 2 | Knoxville, Tenn. | 78 | 61 | 12 | 3 | 1 | 1 | 10 |
| Allentown, Pa. | 17 | 15 | 2 |  | - | - | - | Louisville, Ky. | 58 | 35 | 16 | 3 | 4 | - | 3 |
| Buffalo, N.Y.§ | 115 | 84 | 21 | 8 | - | 2 | 6 | Memphis, Tenn. | 186 | 121 | 30 | 18 | 9 | 8 | 8 |
| Camden, N.J. | 54 | 33 | 10 | 7 | 1 | 3 | - | Mobile, Ala. | 45 | 34 | 8 | 1 | - | 2 | 5 |
| Elizabeth, N.J. | 9 | 6 | 1 | 2 | - | - | 1 | Montgomery, Ala.§ | 50 | 33 | 11 | 5 | 1 | - | 2 |
| Erie, Pa.t | 43 | 38 | 4 |  | 1 | $\overline{-}$ | 1 | Nashville, Tenn. | 108 | 69 | 23 | 9 | 5 | 2 | 11 |
| Jersey City, N.J. | 43 | 28 | 8 | 5 | 0 | 2 | 3 |  | 890 | 533 | 209 | 73 | 39 | 36 | 45 |
| N.Y. City, N.Y. | 1,182 | 761 | 235 | 143 | 20 | 23 | 56 | W.S. CENTRAL Austin, Tex. | 8 | 533 | 8 | 73 2 | $\begin{array}{r}39 \\ \hline\end{array}$ | 36 2 | 45 |
| Newark, N.J. | 54 | 27 | 12 | 7 | 3 | 5 | 1 | Austin, Tex. | 19 | 10 | 5 | 2 | 1 | 2 | 2 |
| Paterson, N.J. | 33 | 21 | 5 | 5 | 1 | 1 | 9 | Baton Rouge, La. <br> Corpus Christi, Tex. | 17 | 11 | 4 | 2 | - | 2 | 1 |
| Philadelphia, Pa.§ | 396 | 258 | 85 | 34 | 9 | 10 | 20 | Corpus Christi, Tex. Dallas, Tex. | 127 | 58 | 4 40 | 17 | 7 | 5 | 3 |
| Pittsburgh, Pa. $\dagger$ | 48 | 37 | 8 | 2 | 1 | - | 2 | El Paso, Tex. | 50 | 34 | 11 | 2 | - | 3 | 2 |
| Reading, Pa. | 31 | 27 | 1 | 1 | 2 | 1 | 10 | El Paso, Tex. Fort Worth, Tex. | 56 | 36 | 13 | 5 | 1 | 1 | 4 |
| Rochester, N.Y. Schenectady, N.Y. | 112 | 89 | 13 | 6 | 3 | 1 | 10 | Houston, Tex. | 228 | 124 | 55 | 27 | 13 | 9 | 14 |
| Schenectady, N.Y. Scranton, Pa. $\dagger$ | 28 | 19 | 7 | 1 | 1 | - | 2 | litle Rock, Ark. | - 53 | 34 | 12 | 2 | 1 | 4 | 2 |
| Scranton, Pa. $\dagger$ Syracuse, N.Y. | 35 75 | 29 54 | 17 | 4 2 | 1 | 1 | 2 | New Orleans, La. | 49 | 25 | 11 | 4 | 6 | 3 | - |
| Trenton, N.J. | 28 | 17 | 6 | 4 | 1 | 1 | 3 | San Antonio, Tex. | 135 | 90 | 30 | 5 | 6 | 4 | 6 |
| Utica, N.Y. | 20 | 14 | 3 | 3 | . | - | 3 | Shreveport, La. | 71 | 48 | 13 | 6 | 4 | - | 9 |
| Yonkers, N.Y. | 20 | 16 | 2 | 2 | - | - | 2 | Tulsa, Okla. | 51 | 42 | 7 | 1 | - | 1 | 2 |
| E.N. CENTRAL | 1,925 | 1,300 | 398 | 114 | 44 | 69 | 76 | MOUNTAIN | 599 | 390 | 123 | 46 | 13 | 27 | 38 |
| Akron, Ohio | 1,48 | 1,31 | 10 | 3 | 1 | 3 | 76 | Albuquerque, N. Mex | 71 | 50 | 13 | 3 | 2 | 3 | 2 |
| Canton, Ohio | 43 | 30 | 13 | - | . | - | - | Colo. Springs, Colo. | 45 | 32 | 6 | 4 | 2 | 1 | 3 |
| Chicago, III.§ | 564 | 362 | 125 | 45 | 10 | 22 | 16 | Denver, Colo. | 101 | 69 | 21 | 5 | 3 | 3 | 8 |
| Cincinnati, Ohio | 43 | 30 | 5 | 1 | 3 | 4 | 5 | Las Vegas, Nev. | 88 | 46 | 26 | 14 | 1 | 1 | 4 |
| Cleveland, Ohio | 117 | 68 | 37 | 6 | 5 | 1 | 3 | Ogden, Utah | 25 | 19 | 3 | 2 | - | 1 | 4 |
| Columbus, Ohio | 178 | 117 | 38 | 12 | 4 | 7 | 6 | Phoenix, Ariz. | 115 | 69 | 22 | 9 | 3 | 12 | 4 |
| Dayton, Ohio | 83 | 56 | 22 | 3 | $\bigcirc$ | 2 | 5 | Pueblo, Colo. | 18 | 15 | 3 9 | 4 | 1 | 5 | 1 |
| Detroit, Mich. | 167 | 98 | 34 | 15 | 5 | 15 | 4 | Salt Lake City, Utah | 37 99 | 18 | $\begin{array}{r}9 \\ \hline\end{array}$ | 4 | 1 | 5 | 10 |
| Evansville, Ind. | 30 | 23 |  | 1 | - | - |  | Tucson, Ariz. | 99 | 72 | 20 | 5 | 1 | 1 | 10 |
| Fort Wayne, Ind. | 56 | 45 | 6 | 1 |  | 3 | 2 | PACIFIC | 1,693 | 1,144 | 288 | 182 | 39 | 36 | 91 |
| Gary, Ind. | 12 | 8 | 2 | 1 | 1 | - | - | Berkeley, Calif. | 20 | 11 | 5 | 3 | - | 1 | 1 |
| Grand Rapids, Mich. | 73 | 53 | 12 | 2 | 2 | 4 | 7 | Fresno, Calif.§ | 94 | 66 | 16 | 6 | 3 | 3 | 5 |
| Indianapolis, Ind. | 143 | 92 | 32 | 7 | 7 | 5 | 6 | Glendale, Calif. | 20 | 17 | 3 | - | - | - | 1 |
| Madison, Wis. | 28 | 20 | 5 | 2 | - | 1 | 1 | Honolulu, Hawaii | 86 | 62 | 17 | 4 | - | 3 | 7 |
| Milwaukee, Wis. | 125 | 98 | 22 | 3 | 1 | 1 | 6 | Long Beach, Calif. | 65 | 38 | 15 | 10 | - | 2 | 10 |
| Peoria, III.§ | 47 | 39 | 6 | 2 | - | - | 5 | Los Angeles Calif. | 303 | 191 | 55 | 43 | 7 | 4 | 8 |
| Rockford, III. | 43 | 33 | 7 | 2 | - | 1 | 4 | Oakland, Calif.§ | 68 | 48 | 9 | 7 | 3 | 1 | 4 |
| South Bend, Ind. | 30 | 24 | 4 | - | 2 | - | 2 | Pasadena, Calif. | 32 | 23 | 6 | - | 1 | 2 | - |
| Toledo, Ohio | 43 | 31 | 6 | 5 | 1 | - | 3 | Portland, Oreg. | 109 | 78 | 14 | 9 | 4 | 4 | 3 |
| Youngstown, Ohio | 52 | 42 | 6 | 3 | 1 | - | 1 | Sacramento, Calif. | 145 | 103 | 19 | 14 | 5 | 4 | 9 |
| W.N. CENTRAL | 622 | 453 | 107 | 36 | 13 | 13 | 23 | San Diego, Calif.§ | 178 | 110 | 33 | 25 | 5 | 5 | 17 |
| Des Moines, lowa | 44 | 31 | 9 | 3 | - | 1 | 1 | San Francisco, Calif. | 153 | 98 | 22 | 28 | 2 | 2 | 4 |
| Duluth, Minn. | 18 | 17 | 1 | - | - | - | 3 | San Jose, Calif. | 149 | 100 | 29 | 13 | 4 3 | 3 | 14 |
| Kansas City, Kans. | 20 | 10 | 5 | 1 | 2 | 2 |  | Seattle, Wash.§ | 151 | 107 39 | 27 | 13 | 3 | 1. | 2 |
| Kansas City, Mo. | 90 | 69 | 15 | 2 | 3 | 1 | 3 | Spokane, Wash. Tacoma, Wash. | 48 72 | 39 53 | 8 10 | 1 | 2 | 1 | 4 2 |
| Lincoln, Nebr. | 31 | 23 | 6 | 2 | - | - |  | Tacoma, Wash. | 72 | 53 | 10 | 6 | 2 | 1 | 2 |
| Minneapolis, Minn. | 123 | 85 | 20 | 14 | 1 | 3 | 7 | TOTAL 10 | 0,511 ${ }^{\dagger \dagger}$ | 7,022 | 2,042 | 889 | 260 | 292 | 554 |
| Omaha, Nebr. | 67 | 46 | 15 | 4 | 1 | 1 | 3 |  |  |  |  |  |  |  |  |
| St. Louis, Mo. | 135 | 104 | 21 | 6 | 3 | 1 | - |  |  |  |  |  |  |  |  |
| St. Paul, Minn. | 50 | 34 | 7 | 2 | 3 | 4 | 5 |  |  |  |  |  |  |  |  |
| Wichita, Kans. | 44 | 34 | 8 | 2 | - |  | 1 |  |  |  |  |  |  |  |  |

[^4]§Data not available. Figures are estimates based on average of past available 4 weeks.

Reported cases of measles, by state - United States, weeks 49-52, 1990


The Morbidity and Mortality Weekly Report is prepared by the Centers for Disease Control, Atlanta, Georgia, and is available on a paid subscription basis from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402, (202) 783-3238.

The data in this report are provisional, based on weekly reports to CDC by state health departments. The reporting week concludes at close of business on Friday; compiled data on a national basis are officially released to the public on the succeeding Friday. Accounts of interesting cases, outbreaks, environmental hazards, or other public health problems of current interest to health officials, as well as matters pertaining to editorial or other textual considerations should be addressed to: Editor, Morbidity and Mortality Weekly Report, Mailstop C-08, Centers for Disease Control, Atlanta, Georgia 30333; telephone (404) 332-4555.

| Director, Centers for Disease Control |
| :---: |
| William L. Roper, M.D., M.P.H. |
| Director, Epidemiology Program Office |
| Stephen B. Thacker, M.D., M.Sc. |

むU.S. Government Printing Office: 1991-531-130/22043 Region IV

$x$



[^0]:    *Sufficient data were available to provide stable estimates only for blacks and whites.
    ${ }^{\dagger}$ Because some women in each age group will have premarital sexual intercourse for the first time after March 1 but before reaching their next birthday, the proportions do not represent true age-specific rates. However, time comparisons are valid because the proportions are similarly computed for each comparison year.

[^1]:    *Six cases of suspected poliomyelitis have been reported in 1990; five of 13 suspected cases in 1989 were confirmed and all were vaccine-associated.

[^2]:    *Mortality data in this table are voluntarily reported from 121 cities in the United States, most of which have populations of 100,000 or more. 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 these 3 Pennsylvania cities, these numbers are partial counts for the current week. Complete counts will be available in 4 to 6 weeks.
    $\dagger \dagger$ Total includes unknown ages.

[^3]:    *Six cases of suspected poliomyelitis have been reported in 1990; five of 13 suspected cases in 1989 were confirmed and all were vaccine-associated.

[^4]:    *Mortality data in this table are voluntarily reported from 121 cities in the United States, most of which have populations of 100,000 or more. 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.
    $\dagger$ Because of changes in reporting methods in these 3 Pennsylvania cities, these numbers are partial counts for the current week. Complete counts will be available in 4 to 6 weeks.
    $\dagger \dagger$ Total includes unknown ages.

