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MORBIDITY AND MORTALITY WEEKLY REPORT

## Trends in Smoking Initiation Among Adolescents and Young Adults - United States, 1980-1989

The evaluation of efforts to prevent tobacco use among adolescents requires accurate surveillance of both smoking prevalence and smoking initiation rates. Although several surveillance systems provide timely data about adolescent smoking prevalence (1), data characterizing rates of smoking initiation among adolescents have been limited. To improve characterization of trends in smoking initiation among young persons, data from the Tobacco Use Supplement of the 1992 and 1993 Current Population Surveys (CPS) (2) were used to estimate smoking initiation rates for persons who were adolescents (aged 14-17 years) or young adults (aged 18-21 years) during 1980-1989. This report summarizes the results of that analysis.

The CPS are monthly surveys of the U.S. civilian, noninstitutionalized population aged $\geq 15$ years (2). Approximately 56,000 households are surveyed each month; one household respondent provides information about all household members aged $\geq 15$ years. Questions about tobacco use were added to the September 1992, January 1993, and May 1993 monthly surveys. The response rates for the three surveys were $84.7 \%, 84.9 \%$, and $82.0 \%$, respectively ( $\mathrm{N}=293,543$ household members). To minimize biases that could result from discrepancies between self reports and proxy reports of smoking behavior (3), this analysis used data from self-respondents only ( $82 \%$ of total sample). Ever smokers were defined as respondents who answered "yes" to the question, "Have you smoked at least 100 cigarettes in your entire life?" Ever smokers were asked, "How old were you when you started smoking cigarettes fairly regularly?" To restrict the analysis to persons who were adolescents or young adults for some period during 1980-1989, only respondents aged 17-34 years at interview were included. The final sample consisted of 71,321 persons, of whom 27,768 ( $38.9 \%$ ) were ever smokers.

Using the age of respondents at the time of the interview and the age they reported starting smoking, the age of respondents and their smoking status were calculated for each year during the 1980s. The denominator for the initiation rate for a given year was the number of respondents at risk for initiating smoking during that year (persons already smoking were eliminated from the denominator for that year). The numerator was the number of respondents who reported initiating smoking during that year. Data were weighted by age, sex, and race/ethnicity to provide national estimates.

Among adolescents, the smoking initiation rate decreased slightly from 1980 (5.4\%) through 1984 (4.7\%) and then increased through 1989 ( $5.5 \%$ ); the largest annual
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## Smoking Initiation - Continued

increase occurred in 1988 (Figure 1). In comparison, among young adults, initiation rates decreased throughout the 1980s (Figure 1). For both age groups, initiation rates and trends were similar for males and females.
Reported by: KM Cummings, PhD, D Shah, MS, Roswell Park Cancer Institute, Buffalo, New York. DR Shopland, National Cancer Institute, National Institutes of Health. Office on Smoking and Health, National Center for Chronic Disease Prevention and Health Promotion, CDC.
Editorial Note: The findings in this report indicate an increase in the rate of initiation of cigarette smoking among adolescents from 1985 through 1989, a period during which the rate among young adults declined and overall prevalence of smoking among adults decreased steadily (4). One important consequence of the increased rate of initiation among adolescents will be the increased future burden of tobaccorelated disease. In particular, because of the increase in initiation since 1984, an additional 600,000 adolescents began to smoke during 1985-1989.* Of those adolescents who continue to smoke regularly, approximately $50 \%$ will die from smoking-attributable disease (5).

Potential reasons for an increase in smoking initiation rates among adolescents include a decreased real price of cigarettes, increased levels of disposable income, increased acceptability of smoking, and intensified cigarette marketing (1). However, because the real price of cigarettes increased steadily during 1985-1989 and the real average weekly income among high school seniors remained stable during this period, cigarettes were less affordable to young persons (1,6) (Table 1). In addition, the acceptability of smoking among high school seniors did not increase: during this period there were increases in the percentages of high school seniors who believed

[^0]FIGURE 1. Smoking initiation rate among adolescents and young adults,* by year — United States, 1980-1989

*Per 100 adolescents (aged 14-17 years) or young adults (aged 18-21 years).

## Smoking Initiation - Continued

cigarettes are harmful, smoking is a "dirty habit," and becoming a smoker reflects poor judgment, and who reported they "mind being around people who are smoking" and would prefer to date nonsmokers (1).

The increase in rates of smoking initiation among adolescents during 1985-1989 may reflect increased real expenditures for cigarette advertising and promotion. The increase in rates occurred during a period when real expenditures for total cigarette advertising and promotion ${ }^{\dagger}$ doubled, and expenditures for cigarette promotion more than quadrupled (7) (Figure 2): from 1980 to 1989, total annual advertising and promotional expenditures (in 1993 dollars) increased from $\$ 2.1$ billion to $\$ 4.2$ billion, while promotional expenditures alone increased from $\$ 771$ million ( $37 \%$ of total expenditures) to $\$ 3.2$ billion ( $76 \%$ ) (Figure 2). Promotional efforts have been highly effective among adolescents. For example, among persons aged 12-17 years in 1992, approximately $50 \%$ of smokers and $25 \%$ of nonsmokers reported having received promotional items from tobacco companies (1).

An association between overall cigarette marketing expenditures and initiation rates for smoking among adolescents is plausible for at least four reasons. First, brand loyalty is usually established with the first cigarette smoked (8); therefore, cigarette companies have an economic incentive to encourage first-time smokers to smoke their brands. Second, adolescents are exposed to cigarette advertising and promotions that employ themes and images that appeal to young persons (1). Third, advertising directly influences brand awareness and attitudes toward smoking among adolescents (1). Specifically, adolescents smoke the most heavily advertised brands,

[^1]TABLE 1. Real* cigarette price per pack, real weekly income of high school seniors, and real price per pack as a percentage of real weekly income among high school seniors - United States, 1980-1989

| Year | Real average cigarette <br> price per pack (cents) | Real average weekly <br> income (dollars) | Real price of cigarette <br> pack as percentage of <br> real weekly income |
| :--- | :---: | :---: | :---: |
| 1980 | 72.8 | NA | NA |
| 1981 | 69.3 | NA | NA |
| 1982 | 72.2 | 52.83 | 1.4 |
| 1983 | 82.2 | 51.26 | 1.6 |
| 1984 | 91.1 | 52.00 | 1.7 |
| 1985 | 90.9 | 51.84 | 1.7 |
| 1986 | 95.3 | 53.63 | 1.8 |
| 1987 | 96.8 | 55.15 | 1.8 |
| 1988 | 103.3 | 53.53 | 1.9 |
| 1989 | 102.8 | 53.13 | 1.9 |

[^2]
## Smoking Initiation - Continued

FIGURE 2. Cigarette advertising and promotional expenditures* - United States, 1980-1989

*Expenditures were converted to 1993 dollars, using the Consumer Price Index. Source: Federal Trade Commission.
and changes in brand preferences among young persons are associated with changes in brand-specific advertising expenditures (9). For example, the Joe Camel campaign introduced nationally in 1988 was associated with an increase in the market share of that specific brand among adolescents ( 1,9 ). Finally, consumer research suggests that younger persons (i.e., aged 14-17 years) aspire to be young adults (10); therefore, advertising and promotional efforts targeted toward young adults may have greater appeal to adolescents because of their age aspirations.

Although current estimates of smoking initiation rates among adolescents are not available, from 1991 through 1993, the national prevalence of smoking increased among eighth- and 10th-grade students ( 6 ). To reverse the trend of increasing smoking initiation rates among adolescents and to achieve the national health objective for the year 2000 of reducing the initiation of cigarette smoking by youth (no more than $15 \%$ should become regular smokers by age 20) (objective 3.5) (4), prevention efforts that focus on young persons should be intensified. Such efforts could include making cigarettes less affordable by either increasing their real price (1) or by limiting sales to cartons rather than individual packs, enforcing laws prohibiting the sale and distribution of cigarettes to young persons (4), conducting mass media campaigns to discourage tobacco use (1), and eliminating or severely restricting all forms of tobacco product advertising and promotion to which young persons are likely to be exposed (4).

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## Pertussis — United States, January 1992-June 1995

Pertussis was a major cause of morbidity and mortality among infants and children in the United States during the prevaccine era (i.e., before the mid-1940s). Since pertussis became a nationally reportable disease in 1922, the highest number of pertussis cases (approximately 260,000 ) was reported in 1934; the highest number of pertussisrelated deaths (approximately 9000) occurred in 1923. Following the licensure of whole-cell pertussis vaccine combined with diphtheria and tetanus toxoids (DTP) in 1949 and the widespread use of DTP among infants and children, the incidence of reported pertussis declined to a historical low of 1010 cases in 1976 (Figure 1). However, since the early 1980s, reported pertussis incidence has increased cyclically with peaks occurring in 1983, 1986, 1990, and 1993 (1-3). This report summarizes national surveillance data for pertussis from January 1992 through June 1995 from CDC's National Public Health Surveillance System (NPHSS) and Supplementary Pertussis Surveillance System (SPSS) and assesses the effectiveness of pertussis vaccination in the United States during this period using vaccination coverage data from CDC's National Health Interview Survey (NHIS).

## National Surveillance for Pertussis and Vaccination Coverage

Through NPHSS (formerly the National Notifiable Disease Surveillance System), state health departments report weekly to CDC the number of pertussis cases. Data reported include state and county of residence, age, date of report to CDC, and race/ethnicity. Through SPSS, more detailed information about persons with pertussis is reported to CDC, including demographic variables, vaccination history, selected clinical characteristics, hospital admission, deaths, and results of laboratory tests for Bordetella pertussis. Documented limitations of these pertussis surveillance systems

## Pertussis - Continued

include underreporting, disproportionate representation of classic and severe cases, lack of uniform reporting criteria among the states, and reliance on laboratory diagnosis of pertussis by some states (1). NHIS is an annual cross-sectional household interview survey of the U.S. civilian, noninstitutionalized population (4). In 1992, an immunization supplement was added to the survey to collect data about vaccinations among children aged <6 years. Vaccination information was obtained from vaccination records; for children for whom no vaccination records were available ( $50 \%-65 \%$ ), information was based on parental recall.

Based on NPHSS data, from 1992 through 1994, a total of 15,286 pertussis cases were reported to CDC (4083 in 1992; 6586 in 1993; and 4617 in 1994), for crude annual incidence rates of $1.6,2.6$, and 1.8 cases per 100,000 population in 1992, 1993, and 1994, respectively. Cases were reported from all 50 states and the District of Columbia. From January 7 through June 30, 1995, a total of 1386 pertussis cases were reportedan $18 \%$ decrease from the number reported during the same period in 1994 (1690).

Based on the NPHSS, during 1992-1994, of 13,615 persons reported with pertussis for whom age data were available, 5618 (41\%) were aged <1 year; 2682 (20\%), 14 years; 1551 ( $11 \%$ ), $5-9$ years; and 3764 ( $28 \%$ ), $\geq 10$ years. Of the children aged $<1$ year with pertussis, 4524 ( $81 \%$ ) were aged $<6$ months.

Of 10,989 patients for whom data about vaccination status were available from SPSS, 6876 ( $63 \%$ ) had received fewer than three doses of DTP. Of 3184 patients aged 7 months-4 years for whom vaccination status was known, 725 ( $23 \%$ ) had received no doses, 714 ( $22 \%$ ) had received one or two doses, and 1745 ( $55 \%$ ) had received three or more doses. The proportion of patients who were hospitalized, had complications, or died was highest among infants and decreased with increasing age (Table 1). Of children aged <1 year reported with pertussis, $66 \%$ were hospitalized, $15 \%$ had pneumonia confirmed radiographically, and $2 \%$ had seizures. Overall, 32 pertussisrelated deaths and 17 cases complicated by encephalopathy were reported.

Based on the NHIS, from 1992 through the second quarter of 1994 (the most recent period for which data were available), among children aged 19-35 months (median FIGURE 1. Number of reported pertussis cases, by year — United States, 1922-1994*


TABLE 1. Number of pertussis-related hospitalizations, complications, and deaths, by age group — United States, 1992-1994

| Age group | No. persons with pertussis | Complications |  |  |  |  |  |  |  | Deaths |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Hospitalized |  | Pneumonia* |  | Seizures |  | Encephalopathy |  |  |  |
|  |  | No. | (\%) | No. | (\%) | No. | (\%) | No. | (\%) | No. | (\%) |
| <6 mos | 4,524 | 3,217 | (71.1) | 671 | (14.8) | 87 | (1.9) | 11 | ( 0.2) | 25 | ( 0.6) |
| 6-11 mos | 1,094 | 512 | (46.8) | 153 | (14.0) | 27 | (2.5) | 2 | ( 0.2) | 3 | ( 0.3) |
| 1-4 yrs | 2,682 | 580 | (21.6) | 248 | ( 9.2) | 45 | (1.7) | 3 | ( 0.1) | 1 | (<0.1) |
| 5-9 yrs | 1,551 | 124 | ( 8.0) | 66 | ( 4.3) | 8 | (0.5) | 0 |  | 3 | ( 0.2) |
| 10-19 yrs | 2,223 | 78 | ( 3.5) | 45 | ( 2.0) | 10 | (0.4) | 1 | (<0.1) | 0 |  |
| $\geq 20 \mathrm{yrs}$ | 1,541 | 57 | ( 3.7) | 41 | ( 2.7) | 7 | (0.5) | 0 |  | 0 |  |
| Total | 13,615 ${ }^{\dagger}$ | 4,568 ${ }^{\text {§ }}$ | (33.6) | 1,224 ${ }^{\text {I }}$ | ( 9.0) | 184 | (1.4) | 17 | ( 0.1) | 32 | ( 0.2) |

[^3]
## Pertussis - Continued

age: 27 months), vaccination coverage with three or more doses of DTP or diphtheria and tetanus toxoids (DT) was $83 \%$ for $1992,88 \%$ for $1993,87 \%$ for the first quarter of 1994, and $90 \%$ for the second quarter. Vaccination coverage with four or more doses of DTP or DT was $59 \%$ in $1992,72 \%$ for $1993,67 \%$ for the first quarter of 1994, and $70 \%$ for the second quarter. Based on vaccine distribution data for 1993, $6.7 \%$ of children may have received DT instead of DTP (CDC, unpublished data, 1993).

## Effectiveness of Pertussis Vaccination

The screening method (5) was used to calculate the effectiveness of pertussis vaccine among U.S. children aged 7-47 months during 1992-1994. Estimates of vaccine effectiveness (VE) were derived using the formula VE=1-[PCV/(1-PCV)][(1PPV)/PPV] (PPV is the proportion of the population vaccinated, and PCV is the proportion of case-patients vaccinated). Persons who were partially vaccinated (i.e., received one to two doses of vaccine) were excluded from both PPV and PCV. Data from the national SPSS were used to determine the PCV. A case of pertussis was defined as either onset of a cough illness of any duration with isolation of B. pertussis from a clinical specimen or onset of an acute cough illness lasting $\geq 14$ days plus at least one pertussis-associated symptom (i.e., paroxysms of cough, inspiratory "whoop," or posttussive vomiting) with no other apparent cause. Data from NHIS for 1992, 1993, and the first 2 quarters of 1994 were used to determine PPV for age groups 7-18 months and 19-47 months.

Compared with zero doses of pertussis vaccine, during 1992-1994, among children aged 7-18 months, VE for three doses was 85\%; among children aged 19-47 months, VE for four or more doses was $94 \%$. When these estimates were corrected by $6.7 \%$ to account for use of DT instead of DTP, VE was $64 \%$ and $82 \%$ for three doses and four or more doses, respectively.
Reported by: State and local health depts. Child Vaccine Preventable Disease Br, Epidemiology and Surveillance Div, and Assessment Br, Data Management Div, National Immunization Program, CDC.
Editorial Note: Despite the upward trend in the reported incidence of pertussis in the United States since the early 1980s, the annual numbers of cases reported during 1992-1994 represent an approximately $95 \%$ decline from those reported during the prevaccine era. Following the peak in reported cases in 1993, the numbers declined during 1994 and the first 2 quarters of 1995-a pattern consistent with the previously observed 3-4-year periodicity in pertussis incidence.

Pertussis remains an important cause of morbidity and mortality among infants and preschool-aged children. Rates of complications among infants during 1992-1994 are similar to those reported during 1980-1989 (1) and 1989-1991 (2). The two groups at greatest risk for severe complications are infants aged <6 months (the recommended age by which children should have received three doses of DTP) and preschool-aged children who are undervaccinated. The importance of timely vaccination of children is emphasized by the high proportion of undervaccination (approximately $45 \%$ ) among preschool-aged children with pertussis who were ageeligible for at least three doses of vaccine. The Advisory Committee on Immunization Practices and the American Academy of Pediatrics recommend three doses of DTP to be administered at ages 2, 4, and 6 months. An additional two doses are recommended, one each at ages 12-18 months and at 4-6 years (6). Either DTP or diphtheria

## Petussis - Continued

and tetanus toxoids and acellular pertussis vaccine (DTaP) can be administered for the fourth and fifth doses to children aged 15 months-6 years.

Since 1992, coverage with three doses of DTP or DT has increased, indicating progress toward the Childhood Immunization Initiative goal of $90 \%$ coverage by 1996. As a consequence, the proportion of persons with pertussis who have been vaccinated most likely will increase. Based on the screening method (which accounts for changes in vaccination coverage but may not provide an accurate estimate of vaccine efficacy when vaccination coverage is high) (5), estimated VE during 1992-1994 was consistent with previous reports about the efficacy of whole-cell pertussis vaccine in the United States during the mid-1980s, which documented $64 \%$ protection against mild disease and $95 \%$ protection against severe disease (7).

In the United States, widespread use of whole-cell pertussis vaccines among infants since 1949 has resulted in the successful control of pertussis. National pertussis surveillance data during January 1992-June 1995 indicate the continued effectiveness of the current pertussis vaccination program. However, despite increasing vaccination coverage in recent years, pertussis outbreaks (e.g., in Cincinnati and Chicago in 1993 [3]) continue to occur. Preliminary results of the protective efficacy of new acellular pertussis vaccines (when used for the first three doses among infants) suggest that these vaccines are either equally or more efficacious than whole-cell vaccines. Further scientific review of these results is in progress, but until such vaccines are licensed and available for use among infants, timely age-appropriate vaccination of infants with whole-cell pertussis vaccines should continue. Previous delays in administering pertussis vaccine to infants have resulted in widespread outbreaks (e.g., in the United Kingdom and Japan during the 1970s and Sweden during the 1980s) (8).

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FIGURE I. Notifiable disease reports, comparison of 4-week totals ending July 15, 1995, with historical data - United States


* The large apparent decrease in the number of reported cases of measles (total) reflects dramatic fluctuations in the historical baseline.
${ }^{\dagger}$ 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 - cases of specified notifiable diseases, United States, cumulative, week ending July 15, 1995 (28th Week)

|  | Cum. 1995 |  | Cum. 1995 |
| :---: | :---: | :---: | :---: |
| Anthrax | - | Psittacosis | 36 |
| Brucellosis | 48 | Rabies, human | 1 |
| Cholera | 8 | Rocky Mountain Spotted Fever | 177 |
| Congenital rubella syndrome | 4 | Syphilis, congenital, age < 1 year ${ }^{\text {§ }}$ | 132 |
| Diphtheria* |  | Tetanus | 13 |
| Haemophilus influenzae ${ }^{\dagger}$ | 675 | Toxic shock syndrome | 106 |
| Hansen Disease | 72 | Trichinosis | 23 |
| Plague | 5 | Typhoid fever | 159 |
| Poliomyelitis, Paralytic | - |  |  |

[^4]${ }^{\dagger}$ Of 658 cases of known age, 162 ( $25 \%$ ) were reported among children less than 5 years of age.
§Updated quarterly from reports to the Division of Sexually Transmitted Diseases and HIV Prevention, National Center for Prevention Services. This total through first quarter 1995.

- : no reported cases

TABLE II. Cases of selected notifiable diseases, United States, weeks ending July 15, 1995, and July 16, 1994 (28th Week)

| Reporting Area | AIDS* <br> Cum. <br> 1995 | Gonorrhea |  | Hepatitis (Viral), by type |  |  |  |  |  | Legionellosis |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | A |  | B |  | C/NA,NB |  |  |  |
|  |  | $\begin{aligned} & \text { Cum. } \\ & 1995 \end{aligned}$ | $\begin{aligned} & \text { Cum. } \\ & 1994 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1995 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1994 \end{aligned}$ | $\begin{aligned} & \text { Cum. } \\ & 1995 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1994 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1995 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1994 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1995 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1994 \end{aligned}$ |
| UNITED STATES | 35,614 | 187,882 | 208,640 | 13,662 | 12,122 | 5,198 | 6,139 | 2,290 | 2,210 | 664 | 768 |
| NEW ENGLAND | 1,797 | 2,460 | 4,210 | 131 | 170 | 93 | 214 | 59 | 84 | 13 | 15 |
| Maine | 71 | 42 | 49 | 17 | 16 | 6 | 9 | - | - | 4 | - |
| N.H. | 56 | 71 | 45 | 6 | 9 | 13 | 16 | 9 | 7 | 1 | - |
| V . | 15 | 26 | 14 | 4 | 3 | 1 | 6 | 1 | 6 | - | - |
| Mass. | 812 | 1,455 | 1,564 | 51 | 70 | 39 | 130 | 48 | 59 | 7 | 8 |
| R.I. | 137 | 266 | 248 | 17 | 14 | 8 | 5 | 1 | 12 | 1 | 7 |
| Conn. | 706 | 600 | 2,290 | 36 | 58 | 26 | 48 | - | - | N | N |
| MID. ATLANTIC | 9,135 | 18,699 | 23,055 | 812 | 867 | 627 | 803 | 220 | 269 | 86 | 116 |
| Upstate N.Y. | 1,133 | 3,304 | 5,147 | 213 | 325 | 208 | 219 | 115 | 120 | 29 | 23 |
| N.Y. City | 4,481 | 6,128 | 8,503 | 373 | 289 | 173 | 169 | 1 | 1 | 1 | - |
| N.J. | 2,225 | 2,244 | 2,810 | 105 | 171 | 142 | 213 | 84 | 122 | 15 | 18 |
| Pa . | 1,296 | 7,023 | 6,595 | 121 | 82 | 104 | 202 | 20 | 26 | 41 | 75 |
| E.N. CENTRAL | 2,897 | 39,460 | 42,425 | 1,655 | 1,165 | 530 | 648 | 152 | 195 | 184 | 214 |
| Ohio | 607 | 12,247 | 12,752 | 1,050 | 381 | 69 | 98 | 5 | 13 | 88 | 98 |
| Ind. | 261 | 4,148 | 4,450 | 85 | 204 | 131 | 117 | 1 | 5 | 44 | 24 |
| III. | 1,284 | 10,770 | 12,365 | 217 | 311 | 94 | 177 | 33 | 53 | 13 | 21 |
| Mich. | 572 | 9,298 | 9,032 | 203 | 141 | 206 | 214 | 113 | 124 | 21 | 40 |
| Wis. | 173 | 2,997 | 3,826 | 100 | 128 | 30 | 42 | - | - | 18 | 31 |
| W.N. CENTRAL | 867 | 9,807 | 11,408 | 904 | 582 | 321 | 348 | 55 | 48 | 70 | 54 |
| Minn. | 204 | 1,504 | 1,679 | 96 | 114 | 28 | 39 | 2 | 10 | - | 2 |
| lowa | 44 | 798 | 719 | 41 | 28 | 23 | 16 | 5 | 7 | 14 | 22 |
| Mo. | 346 | 5,902 | 6,260 | 636 | 257 | 230 | 254 | 35 | 8 | 41 | 17 |
| N. Dak. | 5 | 16 | 21 | 16 | 2 | 3 | - | 4 | 1 | 3 | 4 |
| S. Dak. | 9 | 92 | 107 | 21 | 17 | 2 | - | 1 | - | - | - |
| Nebr. | 71 | - | 749 | 25 | 87 | 17 | 19 | 5 | 9 | 8 | 7 |
| Kans. | 188 | 1,495 | 1,873 | 69 | 77 | 18 | 20 | 3 | 13 | 4 | 2 |
| S. ATLANTIC | 9,055 | 55,296 | 54,843 | 649 | 620 | 781 | 1,224 | 169 | 274 | 123 | 186 |
| Del. | 165 | 1,092 | 996 | 7 | 14 | 2 | 8 | 1 | 1 | 1 | - |
| Md. | 1,313 | 6,832 | 10,285 | 109 | 97 | 146 | 188 | 5 | 16 | 20 | 49 |
| D.C. | 579 | 2,454 | 3,909 | 15 | 14 | 13 | 29 | - | - | 4 | 5 |
| Va . | 645 | 5,645 | 6,590 | 99 | 78 | 49 | 63 | 5 | 18 | 8 | 5 |
| W. Va. | 44 | 430 | 387 | 11 | 7 | 29 | 20 | 26 | 20 | 3 | 1 |
| N.C. | 490 | 12,667 | 13,428 | 65 | 67 | 173 | 157 | 28 | 36 | 21 | 12 |
| S.C. | 449 | 6,643 | 6,704 | 22 | 25 | 32 | 22 | 12 | 3 | 21 | 9 |
| Ga . | 1,090 | 8,539 | U | 54 | 23 | 63 | 493 | 15 | 151 | 23 | 79 |
| Fla. | 4,280 | 10,994 | 12,544 | 267 | 295 | 274 | 244 | 77 | 29 | 22 | 26 |
| E.S. CENTRAL | 1,109 | 23,579 | 24,032 | 826 | 272 | 488 | 599 | 621 | 458 | 21 | 62 |
| Ky. | 155 | 2,532 | 2,479 | 26 | 98 | 39 | 56 | 12 | 17 | 3 | 7 |
| Tenn. | 437 | 7,158 | 7,662 | 712 | 103 | 382 | 503 | 607 | 433 | 12 | 31 |
| Ala. | 298 | 10,024 | 8,362 | 51 | 44 | 67 | 40 | 2 | 8 | 5 | 9 |
| Miss. | 219 | 3,865 | 5,529 | 37 | 27 | - | - | - | - | 1 | 15 |
| W.S. CENTRAL | 3,137 | 19,826 | 25,268 | 1,658 | 1,511 | 752 | 582 | 331 | 150 | 8 | 23 |
| Ark. | 137 | 1,968 | 3,785 | 183 | 37 | 27 | 14 | 3 | 4 | 1 | 4 |
| La. | 502 | 6,425 | 6,674 | 49 | 79 | 105 | 102 | 94 | 77 | 2 | 6 |
| Okla. | 154 | 1,382 | 2,401 | 370 | 137 | 249 | 68 | 213 | 35 | 3 | 9 |
| Tex. | 2,344 | 10,051 | 12,408 | 1,056 | 1,258 | 371 | 398 | 21 | 34 | 2 | 4 |
| MOUNTAIN | 1,119 | 4,366 | 5,291 | 2,154 | 2,370 | 447 | 342 | 249 | 243 | 73 | 58 |
| Mont. | 9 | 39 | 44 | 56 | 15 | 15 | 14 | 9 | 5 | 4 | 14 |
| Idaho | 26 | 68 | 46 | 212 | 186 | 51 | 53 | 33 | 54 | 2 | 1 |
| Wyo. | 6 | 26 | 38 | 75 | 13 | 14 | 14 | 111 | 74 | 5 | 3 |
| Colo. | 372 | 1,592 | 1,752 | 284 | 284 | 68 | 56 | 35 | 41 | 31 | 12 |
| N. Mex. | 107 | 443 | 523 | 384 | 599 | 159 | 110 | 30 | 35 | 3 | 2 |
| Ariz. | 299 | 1,437 | 1,816 | 630 | 890 | 75 | 28 | 17 | 12 | 6 | 4 |
| Utah | 69 | 83 | 166 | 457 | 242 | 50 | 36 | 6 | 11 | 9 | 6 |
| Nev. | 231 | 678 | 906 | 56 | 141 | 15 | 31 | 8 | 11 | 13 | 16 |
| PACIFIC | 6,498 | 14,389 | 18,108 | 4,873 | 4,565 | 1,159 | 1,379 | 434 | 489 | 86 | 40 |
| Wash. | 495 | 1,360 | 1,582 | 389 | 625 | 94 | 130 | 116 | 141 | 11 | 8 |
| Oreg. | 223 | 212 | 486 | 969 | 497 | 49 | 80 | 27 | 23 | - | - |
| Calif. | 5,594 | 12,077 | 15,158 | 3,394 | 3,285 | 1,000 | 1,139 | 281 | 321 | 70 | 30 |
| Alaska | 46 | 388 | 480 | 24 | 127 | 5 | 7 | 1 | - | - | - |
| Hawaii | 140 | 352 | 402 | 97 | 31 | 11 | 23 | 9 | 4 | 5 | 2 |
| Guam | - | 42 | 72 | 2 | 13 | - | 4 | - | - | - | 1 |
| P.R. | 1,514 | 291 | 283 | 60 | 36 | 401 | 192 | 211 | 96 | - | - |
| V.I. | 21 | 6 | 11 | - | 2 | 2 | 6 | - | 1 | - | - |
| Amer. Samoa | - | 13 | 18 | 5 | 5 | - | - | - | - | - | - |
| C.N.M.I. | - | 20 | 31 | 15 | 4 | 7 | 1 | - | - | - | - |

N : Not notifiable
U: Unavailable
-: no reported cases
*Updated monthly to the Division of HIV/AIDS Prevention, National Center for Prevention Services, last update June 29, 1995.

TABLE II. (Cont'd.) Cases of selected notifiable diseases, United States, weeks ending July 15, 1995, and July 16, 1994 (28th Week)

| Reporting Area | LymeDisease |  | Malaria |  | Measles (Rubeola) |  |  |  |  |  | Meningococcal Infections |  | Mumps |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Indigenous | Imported* |  | Total |  |  |  |  |  |
|  | $\begin{aligned} & \hline \text { Cum. } \\ & 1995 \\ & \hline \end{aligned}$ | $\begin{aligned} & \text { Cum. } \\ & 1994 \\ & \hline \end{aligned}$ |  |  | $\begin{aligned} & \text { Cum. } \\ & 1995 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1994 \\ & \hline \end{aligned}$ | 1995 | $\begin{aligned} & \text { Cum. } \\ & 1995 \end{aligned}$ | 1995 | $\begin{aligned} & \hline \text { Cum. } \\ & 1995 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1995 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1994 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1995 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1994 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1995 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1994 \end{aligned}$ |
| UNITED STATES | 2,774 | 4,151 | 527 | 508 | 3 | 202 | - | 8 | 211 | 772 | 1,852 | 1,700 | 492 | 793 |
| NEW ENGLAND | 656 | 868 | 23 | 31 | - | 4 | - | - | 4 | 23 | 91 | 71 | 8 | 14 |
| Maine | 3 | 2 | 2 | 2 | - | - | - | - | - | 4 | 6 | 13 | 4 | 3 |
| N.H. | 14 | 13 | 1 | 3 | - | - | - | - | - | 1 | 17 | 7 | 1 | 4 |
| Vt. | 5 | 5 | - | 1 | - | - | - | - | - | 2 | 6 | 2 | - | - |
| Mass. | 56 | 58 | 8 | 13 | - | 2 | - | - | 2 | 7 | 32 | 30 | 1 |  |
| R.I. | 135 | 107 | 2 | 5 | - | 2 | - | - | 2 | 6 | - | - | - | 1 |
| Conn. | 443 | 683 | 10 | 7 | - | - | - | - | - | 3 | 30 | 19 | 2 | 6 |
| MID. ATLANTIC | 1,647 | 2,470 | 124 | 85 | - | 4 | - | 2 | 6 | 208 | 224 | 175 | 68 | 74 |
| Upstate N.Y. | 895 | 1,755 | 28 | 26 | - | - | - | - | - | 15 | 72 | 60 | 18 | 20 |
| N.Y. City | 55 | 6 | 53 | 26 | - | 2 | - | 2 | 4 | 13 | 23 | 23 | 5 | 2 |
| N.J. | 260 | 453 | 31 | 17 | - | 2 | - | - | 2 | 172 | 63 | 37 | 6 | 13 |
| Pa. | 437 | 256 | 12 | 16 | - | - | - | - | - | 8 | 66 | 55 | 39 | 39 |
| E.N. CENTRAL | 34 | 296 | 66 | 56 | - | 7 | - | 2 | 9 | 101 | 251 | 248 | 82 | 143 |
| Ohio | 25 | 19 | 5 | 7 | - | 1 | - | - | 1 | 16 | 81 | 71 | 26 | 41 |
| Ind. | 5 | 8 | 11 | 9 | - | - | - | - | - | 1 | 39 | 36 | 1 | 6 |
| III. | 3 | 14 | 32 | 25 | - | - | - | 1 | 1 | 56 | 71 | 85 | 27 | 60 |
| Mich. | 1 | 5 | 12 | 13 | - | 4 | - | 1 | 5 | 25 | 50 | 31 | 28 | 31 |
| Wis. | - | 250 | 6 | 2 | - | 2 | - | - | 2 | 3 | 10 | 25 | - | 5 |
| W.N. CENTRAL | 38 | 65 | 11 | 24 | 1 | 2 | - | - | 2 | 169 | 115 | 112 | 31 | 42 |
| Minn. | - | 2 | 3 | 7 | - | - | - | - | - | - | 17 | 10 | 2 | 3 |
| Iowa | 6 | 2 | 1 | 4 | - | - | - | - | - | 7 | 23 | 13 | 8 | 10 |
| Mo. | 15 | 56 | 4 | 9 | - | 1 | - | - | 1 | 159 | 44 | 54 | 17 | 26 |
| N. Dak. | - | - | - | 1 | - | - | - | - | - | - | 1 | 1 |  | 2 |
| S. Dak. | - | - | 1 | - | - | - | - | - | - | - | 5 | 7 | - | - |
| Nebr. | 1 | 2 | 2 | 2 | - | - | - | - | - | 2 | 9 | 9 | 4 | 1 |
| Kans. | 16 | 3 | - | 1 | 1 | 1 | - | - | 1 | 1 | 16 | 18 | - | - |
| S. ATLANTIC | 278 | 334 | 110 | 100 | 2 | 7 | - | - | 7 | 13 | 320 | 249 | 74 | 121 |
| Del. | 7 | 44 | 1 | 3 | - | - | - | - | - | - | 3 | 4 | - | - |
| Md. | 196 | 104 | 29 | 43 | - | - | - | - | - | 3 | 26 | 19 | 20 | 36 |
| D.C. | - | 2 | 9 | 8 | - | - | - | - | - | - | 1 | 2 | - | - |
| Va . | 21 | 41 | 22 | 11 | - | - | - | - | - | 2 | 36 | 46 | 14 | 27 |
| W. Va. | 13 | 9 | 1 | - | - | - | - | - | - | 1 | 5 | 10 | - | 3 |
| N.C. | 22 | 43 | 8 | 2 | - | - | - | - | - | - | 50 | 40 | 16 | 24 |
| S.C. | 8 | 5 | - | 2 | - | - | - | - | - | - | 42 | 11 | 7 | 6 |
| Ga . | 8 | 80 | 12 | 17 | - | 2 | - | - | 2 | 2 | 70 | 57 | 6 | 8 |
| Fla. | 3 | 6 | 28 | 14 | 2 | 5 | - | - | 5 | 5 | 87 | 60 | 11 | 17 |
| E.S. CENTRAL | 17 | 24 | 10 | 14 | - | - | - | - | - | 28 | 115 | 132 | 13 | 15 |
| Ky. | 3 | 15 | 1 | 4 | - | - | - | - | - | - | 36 | 29 | - |  |
| Tenn. | 11 | 6 | 3 | 6 | - | - | - | - | - | 28 | 35 | 24 | , | 5 |
| Ala. | 1 | 3 | 5 | 3 | - | - | - | - | - | - | 27 | 51 | 4 | 3 |
| Miss. | 2 | - | 1 | 1 | - | - | - | - | - | - | 17 | 28 | 9 | 7 |
| W.S. CENTRAL | 57 | 52 | 15 | 24 | - | 19 | - | - | 19 | 16 | 233 | 200 | 33 | 168 |
| Ark. | 4 | 3 | 3 | 2 | - | 2 | - | - | 2 | 1 | 19 | 33 | 2 | 5 |
| La. | 1 | - | 1 | 4 | - | 17 | - | - | 17 | 1 | 32 | 25 | 8 | 19 |
| Okla. | 22 | 26 | - | 2 | - | - | - | - | - | - | 23 | 19 | - | 23 |
| Tex. | 30 | 23 | 11 | 16 | - | - | - | - | - | 14 | 159 | 123 | 23 | 121 |
| MOUNTAIN | 5 | 2 | 34 | 21 | - | 48 | - | - | 49 | 156 | 135 | 120 | 24 | 31 |
| Mont. | - | - | 3 | - | - | - | - | - | - | - | 2 | 3 | 1 | - |
| Idaho | - | 1 | 1 | 2 | - | - | - | - | 1 | - | 5 | 15 | 3 | 7 |
| Wyo. | 3 | 1 | - | 1 | U | - | U | - | - | $\stackrel{-}{-}$ | 5 | 5 | - | 1 |
| Colo. | 1 | - | 16 | 9 | - | 8 | - | - | 8 | 19 | 36 | 23 | 1 | 2 |
| N. Mex. | - | - | 3 | 3 | - | 29 | - | - | 29 | - | 27 | 11 | N | N |
| Ariz. | - | - | 6 | 1 | - | 10 | - | - | 10 | - | 43 | 41 | 2 | 3 |
| Utah | - | - | 4 | 4 | - | - | - | - | - | 128 | 10 | 15 | 10 | 11 |
| Nev. | 1 | - | 1 | 1 | U | 1 | U | - | 1 | 9 | 7 | 7 | 6 | 7 |
| PACIFIC | 42 | 40 | 134 | 153 | - | 111 | - | 4 | 115 | 58 | 368 | 393 | 159 | 185 |
| Wash. | 4 | - | 12 | 14 | - | 13 | - | 2 | 15 | 3 | 63 | 63 | 10 | 14 |
| Oreg. | 3 | 5 | 4 | 11 | - | 1 | - | - | 1 | 8 | 60 | 86 | N | N |
| Calif. | 35 | 35 | 109 | 118 | - | 97 | - | 1 | 98 | 48 | 237 | 238 | 136 | 159 |
| Alaska |  | - | 1 | - | - |  | - | - |  | 5 | 6 | 2 | 9 | 2 |
| Hawaii | - | - | 8 | 10 | - | - | - | 1 | 1 | 2 | 2 | 4 | 4 | 10 |
| Guam | - | - | - | - | U | - | U | - | - | 228 | 3 | - | 3 | 4 |
| P.R. | - | - | 1 | 3 | - | 10 | - | - | 10 | 11 | 13 | 5 | - | 2 |
| V.I. | - | - |  |  | U | - | U | - | - | , | - | - | 2 | 3 |
| Amer. Samoa | - | - | - | - | - | - |  | - | - | - | - | - | - | 2 |
| C.N.M.I. | - | - | 1 | 1 | - | - | - | - | - | 29 | - | - | - | 2 |

*For imported measles, cases include only those resulting from importation from other countries.
N : Not notifiable
U: Unavailable
$-:$ no reported cases

TABLE II. (Cont'd.) Cases of selected notifiable diseases, United States, weeks ending July 15, 1995, and July 16, 1994 (28th Week)

| Reporting Area | Pertussis |  |  | Rubella |  |  | Syphilis (Primary \& Secondary) |  | Tuberculosis |  | Rabies, Animal |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1995 | $\begin{aligned} & \hline \text { Cum. } \\ & 1995 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1994 \end{aligned}$ | 1995 | $\begin{aligned} & \text { Cum. } \\ & 1995 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & \hline 1995 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1995 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1994 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1995 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1994 \end{aligned}$ |
| UNITED STATES | 50 | 1,374 | 1,873 | 9 | 83 | 193 | 8,165 | 11,523 | 9,805 | 11,417 | 3,492 | 3,954 |
| NEW ENGLAND | 4 | 202 | 193 | 4 | 19 | 125 | 97 | 122 | 231 | 221 | 862 | 1,003 |
| Maine | - | 20 | 2 | - | 1 | - | 2 | 4 | 12 | - | - | 1,003 |
| N.H. | - | 21 | 39 | - | 1 | - | 1 | 1 | 8 | 10 | 99 | 103 |
| Vt. | 2 | 11 | 28 | - | - | - | - |  | 3 | 3 | 117 | 87 |
| Mass. | 2 | 140 | 102 | - | 3 | 122 | 34 | 48 | 116 | 113 | 300 | 382 |
| R.I. | - | - | 4 | - | - | 2 | 1 | 11 | 23 | 18 | 161 | 5 |
| Conn. | - | 10 | 18 | 4 | 14 | 1 | 59 | 58 | 69 | 77 | 185 | 426 |
| MID. ATLANTIC | 6 | 135 | 318 | - | 6 | 6 | 468 | 750 | 1,974 | 2,220 | 773 | 975 |
| Upstate N.Y. | 5 | 70 | 122 | - | 3 | 5 | 32 | 95 | 224 | 298 | 296 | 712 |
| N.Y. City | - | 23 | 67 | - | 3 | - | 217 | 332 | 1,057 | 1,346 | - | - |
| N.J. | - | 5 | 9 | - | - | 1 | 106 | 115 | 377 | 402 | 213 | 160 |
| Pa . | 1 | 37 | 120 | - | - | - | 113 | 208 | 316 | 174 | 264 | 103 |
| E.N. CENTRAL | 2 | 155 | 299 | - | 2 | 9 | 1,373 | 1,670 | 986 | 1,097 | 26 | 23 |
| Ohio | - | 52 | 78 | - | - | - | 461 | 631 | 160 | 173 | 3 | - |
| Ind. | - | 13 | 39 | - | - | - | 139 | 125 | 38 | 92 | 3 | 6 |
| III. | 2 | 37 | 62 | - | - | 1 | 524 | 571 | 551 | 553 | 3 | 4 |
| Mich. | - | 41 | 23 | - | 2 | 8 | 158 | 163 | 206 | 243 | 16 | 7 |
| Wis. | - | 12 | 97 | - | - | - | 91 | 180 | 31 | 36 | 1 | 6 |
| W.N. CENTRAL | 1 | 78 | 80 | - | - | 2 | 430 | 681 | 309 | 278 | 169 | 121 |
| Minn. | - | 28 | 39 | - | - | - | 28 | 25 | 64 | 60 | 6 | 14 |
| lowa | - | 3 | 6 | - | - | - | 28 | 33 | 40 | 20 | 64 | 48 |
| Mo. | - | 18 | 19 | - | - | 2 | 365 | 581 | 127 | 129 | 19 | 10 |
| N. Dak. | - | 6 | 4 | - | - | - | - | 1 | 1 | 5 | 19 | 6 |
| S. Dak. | - | 7 | - | - | - | - | - | 1 | 13 | 16 | 35 | 19 |
| Nebr. | - | 4 | 5 | - | - | - | - | 10 | 10 | 8 |  | - |
| Kans. | 1 | 12 | 7 | - | - | - | 9 | 30 | 54 | 40 | 26 | 24 |
| S. ATLANTIC | 22 | 158 | 184 | 2 | 23 | 12 | 1,995 | 2,956 | 1,865 | 2,136 | 1,176 | 1,081 |
| Del. | - | 6 | - | - | - | - | 8 | 16 | 12 | 26 | 33 | 21 |
| Md. | 1 | 16 | 56 | - | - | - | 126 | 127 | 222 | 168 | 236 | 320 |
| D.C. | - | 3 | 4 | - | - | - | 65 | 137 | 57 | 61 | 10 | 2 |
| Va. | - | 8 | 17 | - | - | - | 326 | 398 | 136 | 198 | 229 | 209 |
| W. Va. | - | - | 2 | - | - | - | 8 | 8 | 49 | 47 | 57 | 43 |
| N.C. | 13 | 68 | 44 | - | - | - | 626 | 946 | 214 | 248 | 263 | 93 |
| S.C. | 1 | 14 | 10 | - | - | - | 340 | 402 | 181 | 209 | 75 | 99 |
| Ga. | - | 6 | 15 | - | - | - | 287 | 470 | 284 | 406 | 158 | 208 |
| Fla. | 7 | 37 | 36 | 2 | 23 | 12 | 209 | 452 | 710 | 773 | 115 | 86 |
| E.S. CENTRAL | 1 | 35 | 96 | - | - | - | 2,093 | 2,006 | 543 | 801 | 137 | 110 |
| Ky. | - |  | 53 | - | - | - | 108 | 112 | 53 | 173 | 12 | 10 |
| Tenn. | - | 7 | 17 | - | - | - | 440 | 528 | 162 | 265 | 49 | 34 |
| Ala. | 1 | 28 | 15 | - | - | - | 333 | 372 | 202 | 229 | 73 | 64 |
| Miss. | - | - | 11 | - | - | - | 1,212 | 994 | 126 | 134 | 3 | 2 |
| W.S. CENTRAL | 6 | 88 | 55 | 3 | 6 | 12 | 1,268 | 2,621 | 1,294 | 1,409 | 128 | 413 |
| Ark. | - | - | 12 | - | - | - | 160 | 277 | 93 | 124 | 18 | 15 |
| La. | - | 7 | 6 | - | - | - | 584 | 968 | 6 | 7 | 23 | 43 |
| Okla. | - | 20 | 21 | - | - | 4 | 47 | 89 | 117 | 139 | 22 | 21 |
| Tex. | 6 | 61 | 16 | 3 | 6 | 8 | 477 | 1,287 | 1,078 | 1,139 | 65 | 334 |
| MOUNTAIN | 2 | 267 | 232 | - | 5 | 4 | 130 | 162 | 352 | 283 | 72 | 76 |
| Mont. | - | 3 | 3 | - | , | - | 3 | 2 | 10 | 9 | 26 | 10 |
| Idaho | - | 74 | 23 | - | 1 | - | - | 1 | 8 | 9 | - | 2 |
| Wyo. | U | 1 | 127 | U | - | - | 2 | - | 1 | 2 | 18 | 12 |
| Colo. | - | 21 | 127 | - | - | - | 74 | 80 | 22 | 29 | - | 6 |
| N. Mex. | - | 38 | 10 | - | - | - | 8 | 9 | 86 | 37 | 3 | 2 |
| Ariz. | - | 110 | 54 | - | 3 | - | 19 | 36 | 148 | 114 | 19 | 36 |
| Utah | 2 | 15 | 13 | - | 1 | 3 | 3 | 8 | 19 | 23 | 5 | 6 |
| Nev. | U | 5 | 2 | U | - | 1 | 21 | 26 | 58 | 60 | 1 | 2 |
| PACIFIC | 6 | 256 | 416 | - | 22 | 23 | 311 | 555 | 2,251 | 2,972 | 149 | 152 |
| Wash. | 1 | 45 | 55 | - | 1 | - | 9 | 24 | 141 | 146 | 2 | 6 |
| Oreg. | 1 | 10 | 55 | - | 1 | 3 | 6 | 20 | 25 | 86 | - | - |
| Calif. | 4 | 176 | 298 | - | 18 | 18 | 295 | 508 | 1,953 | 2,562 | 143 | 115 |
| Alaska |  |  |  | - |  |  | 1 | 2 | 47 | 35 | 4 | 31 |
| Hawaii | - | 25 | 8 | - | 2 | 2 | - | 1 | 85 | 143 | - | - |
| Guam | U | - | 2 | U | - | 1 | 1 | 3 | 5 | 45 | - | - |
| P.R. | - | 6 | 2 | - | - | - | 150 | 181 | 89 | 102 | 24 | 51 |
| V.I. | U | - |  | U | - | - | 2 | 22 |  |  | - | - |
| Amer. Samoa | - | - | - | - | - | - | - | 1 | 3 | 3 | - | - |
| C.N.M.I. | - | - | - | - | - | - | 3 | 1 | 13 | 16 | - | - |

U: Unavailable -: no reported cases

TABLE III. Deaths in 121 U.S. cities,* week ending July 15, 1995 (28th Week)

| Reporting Area | All Causes, By Age (Years) |  |  |  |  |  | P\&I ${ }^{\dagger}$ <br> Total | Reporting Area | All Causes, By Age (Years) |  |  |  |  |  | P\&I ${ }^{\dagger}$ Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \text { All } \\ \text { Ages } \end{gathered}$ | $\geq 65$ | 45-64 | 25-44 | 1-24 | <1 |  |  | All Ages | $\geq 65$ | 45-64 | 25-44 | 1-24 | <1 |  |
| NEW ENGLAND | 536 | 371 | 83 | 55 | 6 | 16 | 42 | S. ATLANTIC | 1,521 | 960 | 294 | 185 | 54 | 25 | 96 |
| Boston, Mass. | 154 | 97 | 26 | 21 | 2 | 8 | 10 | Atlanta, Ga. | 156 | 99 | 33 | 16 | 7 | 1 | 8 |
| Bridgeport, Conn. | 26 | 21 | 3 | 2 | - |  | 1 | Baltimore, Md. | 296 | 162 | 65 | 56 | 4 | 9 | 29 |
| Cambridge, Mass. | 28 | 20 | 4 | 4 |  |  | 2 | Charlotte, N.C. | 93 | 65 | 16 | 5 | 7 |  | 3 |
| Fall River, Mass. | 21 | 17 | 1 | 3 |  |  | 2 | Jacksonville, Fla. | 147 | 103 | 24 | 13 | 2 | 5 | 11 |
| Hartford, Conn. | 53 | 38 | 9 | 3 | 1 | 2 | 2 | Miami, Fla. | 136 | 79 | 27 | 22 | 8 | - | 1 |
| Lowell, Mass. | 13 | 9 | 2 | 2 | - | - | 1 | Norfolk, Va. | 63 | 40 | 16 | 5 | 1 | 1 | 9 |
| Lynn, Mass. | 13 | 7 | 1 |  |  |  | 1 | Richmond, Va. | 98 | 62 | 17 | 12 | 6 | 1 | 4 |
| New Bedford, Mass. | 23 | 18 | 3 | 2 |  |  | 3 | Savannah, Ga. | 51 | 37 | 7 | 5 | 1 | 1 | 5 |
| New Haven, Conn. | 37 | 17 | 8 | 7 | 1 | 4 | 3 | St. Petersburg, Fla. | 22 | 18 | 4 | - | - | - | 2 |
| Providence, R.I. | 55 | 38 | 12 | 3 |  | 2 | 5 | Tampa, Fla. | 222 | 160 | 37 | 14 | 8 | 1 | 21 |
| Somerville, Mass. | 2 | 2 | - |  |  |  |  | Washington, D.C. | 217 | 121 | 46 | 34 | 10 | 6 | 2 |
| Springfield, Mass. | 33 | 23 | 5 | 4 | 1 |  | , | Wilmington, Del. | 20 | 14 | 2 | 3 |  | - | 1 |
| Waterbury, Conn. | 25 | 21 | 8 | 2 | 1 |  | 3 |  | 681 | 447 | 135 | 59 | 17 | 21 |  |
| Worcester, Mass. | 53 | 43 | 8 | 2 |  | - | 8 | E.S. CENTRAL <br> Birmingham, Ala. | 159 | 44 | 135 | 13 | 17 9 | 7 | 38 |
| MID. ATLANTIC | 2,408 | 1,530 | 500 | 288 | 48 | 36 | 84 | Chattanooga, Tenn. | 67 | 49 | 13 | 4 |  | 1 | 8 |
| Albany, N.Y. | 49 | 32 | 13 | 2 | 1 | 1 | 3 | Knoxville, Tenn. | 56 | 43 | 8 | 3 | 1 | 1 | 4 |
| Allentown, Pa. | 27 | 22 | 5 |  |  |  |  | Lexington, Ky. | 19 | 16 | 2 | 1 |  |  | 1 |
| Buffalo, N.Y. | 107 | 83 | 17 | 5 | 1 | 1 | 4 | Memphis, Tenn. | 138 | 87 | 23 | 14 | 3 | 11 | 15 |
| Camden, N.J. | 29 | 18 | 5 | 4 | 2 |  | - | Mobile, Ala. | 63 | 37 | 18 | 8 |  |  | 1 |
| Elizabeth, N.J. | 22 | 14 | 6 | 1 | 1 |  |  | Montgomery, Ala. | 63 | 49 | 12 | 2 |  | - | 3 |
| Erie, Pa.s | 40 | 31 | 8 | 1 | - |  | 1 | Nashville, Tenn. | 116 | 73 | 24 | 14 | 4 | 1 | 4 |
| Jersey City, N.J. | 38 | 23 | ${ }^{6}$ | 8 | 1 | 21 | 38 |  |  |  |  |  |  |  |  |
| New York City, N.Y. | 1,373 73 | 848 | 285 | 189 | 30 | 21 | 38 | W.S. CENTRAL Austin, Tex. | 1,516 75 | 926 41 | 303 | 174 9 | 66 | 47 | 78 |
| Newark, N.J. Paterson, N.J. | 73 34 | 22 | 16 | 25 5 | 5 | 5 1 | 3 | Austin, Tex. Baton Rouge, La. | 75 56 | 31 | 21 4 | 4 | 5 | 4 | 1 |
| Paterson, N.J. Philadelphia, Pa. | 34 | 9 121 | 11 43 | 5 24 | 2 | 1 | 12 | Corpus Christi, Tex. | 68 | 41 | 17 | 6 | 5 | 1 | 3 |
| Pittsburgh, Pa.s | 55 | 39 | 11 | 5 | 2 | - | 2 | Dallas, Tex. | 207 | 110 | 43 | 37 | 8 | 9 | 5 |
| Reading, Pa. | 12 | 9 | 2 | 1 | - | - | 1 | El Paso, Tex. | 95 | 59 | 16 | 11 | 7 | 2 | 4 |
| Rochester, N.Y. | 137 | 102 | 27 | 5 | 2 | 1 | 12 | Ft. Worth, Tex. | 37 | 59 | 20 | 7 | 5 | 4 | 5 |
| Schenectady, N.Y. | 27 | 21 | 5 | 1 | - | - | - | Houston, Tex. | 375 | 203 | 97 | 47 | 16 | 12 | 25 |
| Scranton, Pa.§ | 29 | 25 | 4 | - |  |  |  | Little Rock, Ark. | 68 | 41 | 13 | 7 | 5 7 | 2 | 6 |
| Syracuse, N.Y. | 108 | 75 | 23 | 5 |  | 5 | 3 | New Orleans, La. | -84 | 160 | 13 | 9 2 | 7 | 8 | 16 |
| Trenton, N.J. | 18 | 10 | 6 | 1 |  | 1 | - | San Antonio, Tex. | 217 | 160 37 | 27 | 22 | 5 | 3 | 16 |
| Utica, N.Y. | 13 | 8 | 3 | 2 | - |  |  | Shreveport, La. | $\begin{array}{r}45 \\ \hline\end{array}$ | 89 | 26 | 13 | 3 | - | 2 9 |
| Yonkers, N.Y. | 27 | 18 | 4 | 4 | 1 | - | 3 | Tulsa, Okla. | 131 | 89 | 26 | 13 | 3 | - | 9 |
| E.N. CENTRAL | 2,238 | 1,455 | 422 | 213 | 75 | 45 | 106 | MOUNTAIN | 881 | 568 | 166 | 88 | 38 | 21 | 59 |
| Akron, Ohio | 89 | 53 | 20 | 6 | 8 | 2 | - | Albuquerque, N.M. | 81 | 47 | 15 | 11 | 5 | 3 | 3 |
| Canton, Ohio | 29 | 21 | 7 | $-$ | 1 | - | 1 | Colo. Springs, Colo. | 110 | 74 | 18 | 12 | 4 | 2 | 9 |
| Chicago, III. | 409 | 239 | 70 | 67 | 17 | 15 | 25 | Denver, Colo. | 79 | 55 | 11 | 7 | 4 | 2 | 2 |
| Cincinnati, Ohio | 119 | 56 | 25 | 9 | 1 | 2 | 7 | Las Vegas, Nev. | 159 | 100 | 36 | 17 | 3 | 3 | 9 |
| Cleveland, Ohio | 169 | 113 | 29 | 20 | 3 | 4 | 5 | Ogden, Utah | 29 | 23 | 3 |  | 2 | 1 | 3 |
| Columbus, Ohio | 205 | 131 | 47 | 15 | 9 | 3 | 10 | Phoenix, Ariz. | 166 | 97 | 37 | 24 | 7 | 1 | 12 |
| Dayton, Ohio | 131 | 91 | 26 | 8 | 5 | 1 | 6 | Pueblo, Colo. | 28 | 19 | 5 | 4 | - | - | 2 |
| Detroit, Mich. | 234 | 144 | 53 | 29 | 5 | 3 | 4 | Salt Lake City, Utah | 94 | 62 | 10 | 8 | 8 | 6 | 7 |
| Evansville, Ind. | 48 | 34 | 7 | 6 | - |  | 1 | Tucson, Ariz. | 135 | 91 | 31 | 5 | 5 | 3 | 12 |
| Fort Wayne, Ind. | 67 | 51 | 9 | 6 | 1 | - | 4 | PACIFIC | 2,003 | 1,368 | 340 | 204 | 51 | 35 | 151 |
| Gary, Ind. | 15 | 9 | 1 | 3 | - | 1 | - | Berkeley, Calif. | 2,13 | 10 | 3 | 204 | 5 | - | 1 |
| Grand Rapids, Mich. | 39 | 26 | 6 | 3 | 1 | 3 | 1 | Fresno, Calif. | 74 | 38 | 18 | 10 | 2 | 6 | 7 |
| Indianapolis, Ind. | 170 | 110 | 32 | 14 | 11 | 3 | 10 | Glendale, Calif. | 28 | 24 | 3 | 10 | 1 | 6 | 1 |
| Madison, Wis. | 58 | 35 | 15 | 8 | 1 | - | 3 | Honolulu, Hawaii | 81 | 58 | 12 | 5 | 5 | 1 | 5 |
| Milwaukee, Wis. | 153 | 118 | 24 | 8 | 3 | 2 | 11 | Long Beach, Calif. | 67 | 40 | 13 | 7 | 3 | 4 | 6 |
| Peoria, III. | 32 | 24 | 3 | 1 | 2 | 2 | 6 | Los Angeles, Calif. | 537 | 360 | 91 | 64 | 15 | 3 | 27 |
| Rockford, III. | 50 | 40 | 7 | 3 | - |  | 5 | Pasadena, Calif. | 20 | 17 | 3 | - | - | - | 5 |
| South Bend, Ind. | 53 | 41 | 11 |  | 1 |  | 3 | Portland, Oreg. | 169 | 115 | 30 | 16 | 4 | 4 | 9 |
| Toledo, Ohio | 93 | 68 | 15 | 4 | 3 | 3 | 3 | Sacramento, Calif. | 194 | 133 | 37 | 17 | 4 | 3 | 20 |
| Youngstown, Ohio | 75 | 51 | 15 | 4 | 3 | 2 | 1 | San Diego, Calif. | 155 | 102 | 27 | 23 |  | 1 | 14 |
| W.N. CENTRAL | 665 | 484 | 113 | 34 | 19 | 6 | 44 | San Francisco, Calif. | 157 | 98 | 20 | 32 | 5 | 2 | 17 |
| Des Moines, Iowa | 88 | 63 | 23 |  | 2 |  | 11 | San Jose, Calif. | 180 | 128 | 30 | 11 | 4 | 7 | 21 |
| Duluth, Minn. | 21 | 15 | 2 | 3 | 1 |  | 1 | Santa Cruz, Calif. | 31 | 25 | 5 | 1 | - | - | 1 |
| Kansas City, Kans. | U | U | U | U | U | U | U | Seattle, Wash. | 152 | 107 | 27 | 11 | 3 | 4 | 6 |
| Kansas City, Mo. | 90 | 59 | 14 | 5 | 3 | U | 5 | Spokane, Wash. | 51 | 42 | 5 | 2 | 2 | - | 5 |
| Lincoln, Nebr. | 31 | 26 | 3 | 1 | - | 1 | 3 | Tacoma, Wash. | 94 | 71 | 16 | 5 | 2 | - |  |
| Minneapolis, Minn. | 175 | 130 | 26 | 14 | 5 | - | 12 | TOTAL | 12,449 ${ }^{\text {I }}$ | 8,109 | 2,356 | 1,300 | 374 | 252 | 698 |
| Omaha, Nebr. | 92 | 66 | 19 | 2 | 3 | 2 | 6 | TOTAL | 12,449 | 8,109 | 2,356 | 1,300 | 374 |  | 698 |
| St. Louis, Mo. | 107 | 77 | 17 | 6 | 5 | 2 | 2 |  |  |  |  |  |  |  |  |
| St. Paul, Minn. | 61 | 48 | 9 | 3 | - | 1 | 4 |  |  |  |  |  |  |  |  |
| Wichita, Kans. | U | U | U | U | U | U | U |  |  |  |  |  |  |  |  |

[^5]
## Pneumonia and Influenza Death Rates United States, 1979-1994

The combined cause-of-death category pneumonia and influenza (P\&I) (International Classification of Diseases, Ninth Revision, codes 480-487) ranks as the sixth leading cause of death in the United States following heart disease, cancer, stroke, unintentional injuries, and chronic obstructive pulmonary disease (1). Changes in the epidemiology of Streptococcus pneumoniae and other recognized respiratory pathogens, the increasing occurrence of drug-resistant microorganisms, and the detection of new respiratory pathogens have heightened awareness of the public health importance of severe respiratory infections (2-5). To characterize the epidemiology of P\&l deaths in the United States, CDC further analyzed underlying and multiple cause-ofdeath mortality files for 1979-1994. This report summarizes the results of this analysis.

From 1979 to 1994, the overall crude death rates for P\&l (based on underlying cause of death) increased $59 \%$, from 20.0 to 31.8 deaths per 100,000 population (Figure 1). From 1979 to 1992 (the most recent year for which age-adjusted data are available), the P\&I death rate, age-adjusted to a 1980 standard population, increased $22 \%$, from 20.4 to 24.8 .

In 1992, persons aged $\geq 65$ years accounted for $89 \%$ of all P\&I deaths. From 1979 to 1992 , P\&l death rates for persons aged $\geq 65$ years increased $44 \%$, from 145.6 deaths per 100,000 population to 209.1. During this period, rates also increased for persons aged 20-44 years; however, the small number of deaths among persons in this age group (2148 in 1992) limited the contribution to the overall trend.

FIGURE 1. Crude and age-adjusted rates* of pneumonia and influenza deaths by underlying cause of death, by year - United States, 1979-1994 ${ }^{\dagger}$


[^6]Pneumonia and Influenza - Continued
To control for the highly variable seasonal contribution of influenza-associated deaths, the trend for mean weekly number of $P \& l$ deaths for noninfluenza months (May-October) was analyzed. From 1979 through 1992, age-adjusted P\&l death rates during these months increased steadily from 3.1 to 5.0 per 1 million population. Analysis of P\&I deaths listed in any position on the death certificate (multiple cause-of-death data) indicated a similar increase.

During 1979-1992, the diagnostic code for pneumonia of unspecified etiology (ICD9 code 486) accounted for most of the overall increase: age-adjusted death rates in this diagnostic category increased $74 \%$. In addition, in 1992, $84 \%$ of all P\&I deaths were assigned this code, compared with $59 \%$ in 1979.
Reported by: Childhood and Respiratory Diseases Br, Div of Bacterial and Mycotic Diseases, and Div of Viral and Rickettsial Diseases, National Center for Infectious Diseases; Mortality Statistics Br, Div of Vital Statistics, National Center for Health Statistics, CDC.
Editorial Note: The findings in this report document the recent increase in mortality attributed to P\&I in the United States. This increase reflects both growth in the proportion of persons in older age groups (from 1970 to 1990, the proportion of persons in the United States population aged $\geq 65$ years increased from $9.8 \%$ to $12.5 \%$ ) and higher P\&I death rates in these age groups. A high proportion of these deaths was attributed to pneumonia of unspecified etiology, which probably includes both pneumonias caused by known pathogens not specified on the death certificate and pneumonias caused by new or unrecognized agents.

Changes in the epidemiology of recognized respiratory pathogens (e.g., S. pneumoniae), for which precise diagnoses are difficult to make in clinical settings, may have contributed to the increasing death rate in older persons. Although the proportion of the increase in P\&l death rates accounted for by all vaccine-preventable respiratory diseases is unknown, the increased rates also underscore the need for more complete use of pneumococcal and influenza vaccines as recommended by the Immunization Practices Advisory Committee (ACIP) (6,7). One of the national health objectives for the year 2000 is to vaccinate $60 \%$ of persons at risk for pneumococcal disease and influenza (objective 20.11) (8). Although coverage levels for influenza vaccinations among persons aged $\geq 65$ years have increased (in $1993,52 \%$ reported having received influenza vaccine in the previous year), only $28 \%$ reported ever having received the pneumococcal vaccine in 1993 (9).

In addition to known but undiagnosed causes of respiratory infection, new or previously uncharacterized agents probably account for some of the increase in ageadjusted death rates attributed to pneumonia of unspecified etiology. For example, since the 1970s, several bacterial and viral agents have been identified as causes of lower respiratory infections, including Legionella pneumophila, Chlamydia pneumoniae, and Sin Nombre virus (the etiologic agent of hantavirus pulmonary syndrome). Recent prospective studies of community-acquired pneumonia have suggested that an etiology cannot be identified in $40 \%-50 \%$ of cases (10), probably reflecting both the lack of sensitive diagnostic tests for some known respiratory pathogens and the occurrence of respiratory infections for which the etiologies have not yet been identified.

Based on shifts in the age distribution of the total U.S. population, respiratory infectious diseases among the elderly probably will increase the need for health-care services and require the development of more effective prevention strategies.

## Pneumonia and Influenza - Continued

Improvements in understanding the epidemiology of morbidity and mortality associated with unspecified pneumonias will require further examination of diagnostic and reporting practices for certification of causes of death and analyses of additional data sources (e.g., hospital discharge records). In addition, improved characterization of bacterial and viral causes of pneumonia may result from prospective epidemiologic and laboratory studies, development of more sensitive diagnostic tests, and wider use of available tests.

## References

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9. CDC. Influenza and pneumococcal vaccination coverage levels among persons aged $\geq 65$ years -United States, 1973-1993. MMWR 1995;44:506-15.
10. Marrie TJ. Community-acquired pneumonia. Clin Infect Dis 1994;18:501-15.

## Notice to Readers

## Final 1994 Reports of Notifiable Diseases

The notifiable diseases table on pages 538-543 summarizes final data for 1994. These data, final as of July 7, 1995, will be published in more detail in the Summary of Notifiable Diseases, 1994 (1).

Population estimates for the states are from the July 1, 1994, estimates by the U.S. Bureau of the Census, Population Division, Population Estimates Branch, press release CB94-204. Population estimates for territories are from the 1990 census, U.S. Bureau of the Census, press releases CB91-142, 242, 243, 263, and 276.

Reference

1. CDC. Summary of notifiable diseases, United States, 1994. MMWR 1995;44(no. 53) (in press).

NOTIFIABLE DISEASES - Reported cases, by geographic division and area, United States, 1994

| Area (in | Total resident population (in thousands) | AIDS | Amebiasis | Anthrax | Aseptic meningitis | Botulism |  | Brucellosis | Chancroid |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  | Foodborne | Infant |  |  |
| United States | 260,341 | 78,279* | 2,983 | - | 8,932 | 50 | 85 | 119 | $773{ }^{\dagger}$ |
| New England | 13,230 | 2,836 | 80 | - | 340 | - | 1 | - | 1 |
| Maine | 1,240 | 117 | 10 | - | 33 | - | - | - | - |
| N.H. | 1,137 | 92 | 2 | - | 47 | - | - | - | - |
| Vt. | 580 | 38 | 3 | - | 36 | - | - | - | - |
| Mass. | 6,041 | 1,401 | 61 | - | 103 | - | - | - | 1 |
| R.I. | 997 | 276 | 4 | - | 121 | - | - | - | - |
| Conn. | 3,275 | 912 | NN | - | NN | - | 1 | - | - |
| Mid. Atlantic | 38,125 | 22,465 | 876 | - | 957 | 2 | 16 | 2 | 365 |
| N.Y. (excl. NYC) | 10,905 | 2,220 | 120 | - | 466 | 1 | - | - | 8 |
| N.Y.C. | 7,264 | 12,724 | 701 | - | 150 | - | 1 | - | 357 |
| N.J. | 7,904 | 4,993 | 25 | - | NN | - | 2 | - | - |
| Pa . | 12,052 | 2,528 | 30 | - | 341 | 1 | 13 | 2 | - |
| E.N. Central | 43,017 | 6,324 | 187 | - | 1,652 | 2 | 9 | 8 | 48 |
| Ohio | 11,102 | 1,184 | 22 | - | 399 | 1 | 4 | 2 | 8 |
| Ind. | 5,752 | 622 | 21 | - | 222 | - | 2 | - | - |
| III. | 11,752 | 3,104 | 45 | - | 472 | 1 | 2 | 5 | 38 |
| Mich. | 9,496 | 1,035 | 42 | - | 538 | - | 1 | 1 | - |
| Wis. | 5,082 | 379 | 57 | - | 21 | - | - | - | 2 |
| W.N. Central | 18,054 | 1,638 | 131 | - | 476 | - | 2 | 1 | 8 |
| Minn. | 4,567 | 422 | 39 | - | 43 | - | - | - | - |
| lowa | 2,829 | 130 | 21 | - | 121 | - | - | 1 | 1 |
| Mo. | 5,278 | 713 | 38 | - | 175 | - | - | - | 2 |
| N. Dak. | 638 | 20 | 8 | - | 14 | - | - | - | - |
| S. Dak. | 721 | 19 | 4 | - | 3 | - | - | - | - |
| Nebr. | 1,623 | 89 | 6 | - | 41 | - | - | - | - |
| Kans. | 2,554 | 245 | 15 | - | 79 | - | 2 | - | 5 |
| S. Atlantic | 45,738 | 18,857 | 203 | - | 2,000 | - | 4 | 17 | 30 |
| Del. | 706 | 271 | 3 | - | 41 | - | 1 | - | - |
| Md. | 5,006 | 2,722 | 14 | - | 246 | - | 1 | 1 | - |
| D.C. | 570 | 1,399 | 2 | - | 53 | - | - | - | - |
| Va. | 6,552 | 1,162 | 39 | - | 337 | - | 2 | 2 | - |
| W. Va. | 1,822 | 96 | 6 | - | 39 | - |  |  | - |
| N.C. | 7,070 | 1,187 | 19 | - | 240 | - | - | 3 | 10 |
| S.C. | 3,664 | 1,158 | NN | - | 31 | - | - | - | - |
| Ga . | 7,055 | 2,245 | 58 | - | 80 | - | - | 3 | - |
| Fla. | 13,953 | 8,617 | 62 | - | 933 | - | - | 8 | 20 |
| E.S. Central | 15,717 | 2,099 | 10 | - | 582 | 3 | 3 | 2 | 27 |
| Ky. | 3,827 | 320 | 6 | - | 181 | - | 1 | - | - |
| Tenn. | 5,175 | 764 | NN | - | 164 | 2 | 1 | 1 | 3 |
| Ala. | 4,219 | 582 | 3 | - | 174 | - | - | - | 24 |
| Miss. | 2,669 | 433 | 1 | - | 63 | 1 | 1 | 1 | - |
| W.S. Central | 27,983 | 7,671 | 124 | - | 1,072 | 25 | 4 | 32 | 260 |
| Ark. | 2,453 | 284 | 4 | - | 62 | - | 1 | 1 | - |
| La. | 4,315 | 1,239 | 2 | - | 40 | - | - | 2 | 209 |
| Okla. | 3,258 | 269 | 8 | - | - | 1 | - | - | - |
| Tex. | 18,378 | 5,879 | 110 | - | 970 | 24 | 3 | 29 | 51 |
| Mountain | 14,776 | 2,287 | 150 | - | 353 | - | 8 | 20 | 3 |
| Mont. | 856 | 30 | - | - | 8 | - | 1 | - | - |
| Idaho | 1,133 | 61 | 6 | - | 6 | - | 2 | - | - |
| Wyo. | 476 | 18 |  | - | 4 | - | 1 | - | - |
| Colo. | 3,656 | 816 | 39 | - | 135 | - | 1 | 1 | - |
| N. Mex. | 1,654 | 211 | 27 | - | 20 | - | - | 1 | - |
| Ariz. | 4,075 | 612 | 61 | - | 79 | - |  | 17 | 3 |
| Utah | 1,908 | 152 | 6 | - | 55 | - | 3 | 1 | - |
| Nev. | 1,457 | 387 | 11 | - | 46 | - | - | - | - |
| Pacific | 41,269 | 13,949 | 1,222 | - | 1,500 | 18 | 38 | 37 | 31 |
| Wash. | 5,343 | 932 | 78 | - | NN | 3 | 2 | - | 1 |
| Oreg. | 3,086 | 606 | 109 | - | NN | - | 3 | 1 | 5 |
| Calif. | 31,431 | 12,136 | 991 | - | 1,350 | 4 | 30 | 36 | 25 |
| Alaska | 606 | 59 | 5 | - | 19 | 11 | - | - | - |
| Hawaii | 1,179 | 216 | 39 | - | 131 | - | 3 | - | - |
| Guam | 133 | 1 | 1 | - | 13 | - | - | - | - |
| P.R. | 3,522 | 2,359 | 1 | - | 72 | - | - | - | 32 |
| V.I. | 102 | 52 | - | - | - | - | - | - | 1 |
| C.N.M.I. | 43 | - | - | - | - | - | - | - | - |
| American Samoa | a 47 | - | - | - | - | - | - | - | - |
| *Total reported to through Decembe ${ }^{\dagger}$ Cases updated thr as of February 28, | Division of HIV er 31, 1994. Tota rough Division 1995. | S Preven cludes 153 exually Tr | tion, Nation 3 cases with ansmitted | Center for nknown ases and | evention Ser e of residenc Prevention, | ces, ational Cen | er for P | N: Not | ifiable |

NOTIFIABLE DISEASES - Reported cases, by geographic division and area, United States, 1994 (continued)

| Area | Cholera | Diphtheria | Encephalitis |  | $\begin{gathered} \text { Escherichia } \\ \text { coli } \\ \text { 0157:H7 } \\ \hline \end{gathered}$ | Gonorrhea | Granuloma inguinale | Haemophilus influenzae | Hansen disease (leprosy) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Primary infections | Postinfectious |  |  |  |  |  |
| United States | 39 | 2 | 717 | 143 | 1,470 | 418,068* | 3* | 1,174 | 136 |
| New England | 2 | 1 | 18 | 6 | 223 | 8,640 | - | 45 | 4 |
| Maine | - | - | 5 | - | NN | 93 | - | 5 | - |
| N.H. | - | - | - | 2 | NN | 103 | - | 4 | - |
| Vt. | - | - | 3 | 1 | 12 | 40 | - | - | - |
| Mass. | 1 | 1 | 8 | 1 | 134 | 3,159 | - | 21 | 4 |
| R.I. | - | - | 2 | 2 | 9 | 478 | - | 4 | - |
| Conn. | 1 | - | - | - | 68 | 4,767 | - | 11 | - |
| Mid. Atlantic | 6 | - | 63 | 20 | 160 | 49,450 | - | 149 | 16 |
| N.Y. (excl. NYC) | 3 | - | 38 | 3 | 149 | 11,506 | - | 70 | 2 |
| N.Y.C. | 1 | - | 6 | 5 | 11 | 19,491 | - | 34 | 13 |
| N.J. | 2 | - | - | - | - | 5,269 | - | 16 | 1 |
| Pa. | - | - | 19 | 12 | NN | 13,184 | - | 29 | - |
| E.N. Central | 5 | - | 169 | 22 | 269 | 87,065 | - | 199 | 9 |
| Ohio | - | - | 55 | 4 | 109 | 24,746 | - | 109 | - |
| Ind. | - | - | 11 | 1 | 57 | 9,757 | - | 26 | - |
| III. | 2 | - | 65 | 5 | 103 | 26,571 | - | 43 | 6 |
| Mich. | 3 | - | 38 | 12 | - | 18,215 | - | 19 | - |
| Wis. | - | - | - | - | NN | 7,776 | - | 2 | 3 |
| W.N. Central | 1 | - | 52 | 12 | 366 | 22,834 | - | 103 | - |
| Minn. | - | - | 22 | - | 147 | 3,346 | - | 34 | - |
| lowa | 1 | - | 1 | 1 | 56 | 1,645 | - | 9 | - |
| Mo. | - | - | 8 | 6 | 40 | 12,557 | - | 51 | - |
| N. Dak. | - | - | 4 | - | 31 | 35 | - | - | - |
| S. Dak. | - | - | 4 | - | 18 | 243 | - | 2 | - |
| Nebr. | - | - | 6 | 5 | 74 | 1,335 | - | 4 | - |
| Kans. | - | - | 7 | - | NN | 3,673 | - | 3 | - |
| S. Atlantic | 3 | - | 161 | 65 | 49 | 104,591 | 2 | 234 | 2 |
| Del. | - | - | 1 | - | NN | 2,038 | - | 1 | - |
| Md. | 1 | - | 28 | 5 | NN | 15,137 | - | 87 | - |
| D.C. | - | - | - | 1 | - | 6,827 | - | - | - |
| Va . | 1 | - | 34 | 6 | NN | 13,414 | - | 22 | 1 |
| W. Va. | - | - | 51 | - | NN | 805 | - | 7 | - |
| N.C. | - | - | 44 | 1 | 6 | 28,936 | 2 | 32 | - |
| S.C. | - | - | - | - | 17 | 13,067 | - | 3 | - |
| Ga. | 1 | - | 2 | - | 26 | NA | - | 67 | - |
| Fla. | 1 | - | 1 | 52 | - | 24,367 | - | 15 | 1 |
| E.S. Central | - | - | 41 | 4 | 6 | 48,208 | - | 34 | 1 |
| Ky. | - | - | 16 | 2 | 6 | 5,127 | - | 4 | 1 |
| Tenn. | - | - | 12 | - | NN | 15,745 | - | 10 | - |
| Ala. | - | - | 9 | 1 | , | 15,881 | - | 15 | - |
| Miss. | - | - | 4 | 1 | - | 11,455 | - | 5 | - |
| W.S. Central | 4 | - | 63 | 2 | 98 | 53,529 | - | 74 | 33 |
| Ark. | - | - | 1 | - | 10 | 6,892 | - | 5 | 2 |
| La. | - | - | 10 | - | - | 11,992 | - | 4 | 2 |
| Okla. | - | - | - | - | 16 | 4,888 | - | 45 | - |
| Tex. | 4 | - | 52 | 2 | 72 | 29,757 | - | 20 | 31 |
| Mountain | - | - | 14 | 3 | 100 | 10,669 | - | 128 | - |
| Mont. | - | - | - | - | - | 85 | - | 1 | - |
| Idaho | - | - | - | - | - | 98 | - | 5 | - |
| Wyo. | - | - | 3 | 1 | NN | 82 | - | 5 | - |
| Colo. | - | - | 4 |  | 76 | 3,632 | - | 17 | - |
| N. Mex. | - | - |  | - | - | 1,130 | - | 12 | - |
| Ariz. | - | - | - | 1 | NN | 3,603 | - | 26 | - |
| Utah | - | - | 3 | 1 | NN | 303 | - | 10 | - |
| Nev. | - | - | 4 | - | 24 | 1,736 | - | 52 | - |
| Pacific | 18 | 1 | 136 | 9 | 199 | 33,082 | 1 | 208 | 71 |
| Wash. |  |  | 1 |  | 174 | 2,893 | - | 10 | 7 |
| Oreg. | - | - | - | - | 1 | 978 | 1 | 26 | - |
| Calif. | 17 | 1 | 131 | 8 | NN | 27,593 | - | 165 | 43 |
| Alaska | - | - | 4 | - | - | 918 | - | 3 | - |
| Hawaii | 1 | - |  | 1 | 24 | 700 | - | 4 | 21 |
| Guam | 1 | - | - | 1 | NN | 110 | - | - | 11 |
| P.R. | - | - | 1 | 3 | NN | 500 | - | 3 | 1 |
| V.I. | - | - | - | - | - | 60 | - |  | - |
| C.N.M.I. | - | - | - | - | - | - | - | 26 | - |
| American Samoa | a - | - | - | - | - | - | - | - | 4 |
| $\begin{array}{ll}\text { *Cases updated through Division of Sexually Transmitted Diseases and HIV Prevention, } & \text { NA: Not available } \\ \text { National Center for Prevention Services, as of February 28, 1995. } & \text { NN: Not notifiable }\end{array}$ |  |  |  |  |  |  |  |  |  |

NOTIFIABLE DISEASES - Reported cases, by geographic division and area, United States, 1994 (continued)

| Area Hepa | Hepatitis A | Hepatitis B | Hepatitis <br> C/non-A, non-B | Hepatitis unsp. | Legionellosis | Leptospirosis | Lyme disease | Lymphogranuloma venereum |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| United States | 26,796 | 12,517 | 4,470 | 444 | 1,615 | 38 | 13,043 | 235* |
| New England | 296 | 354 | 168 | 15 | 79 | 3 | 2,827 | 6 |
| Maine | 25 | 11 | - | - | 5 | 2 | 33 | - |
| N.H. | 17 | 28 | 11 | - | - | - | 30 | - |
| Vt. | 14 | 12 | 16 | - | 1 | - | 16 | - |
| Mass. | 112 | 200 | 121 | 13 | 55 | - | 247 | 6 |
| R.I. | 30 | 8 | 20 | 2 | 18 | - | 471 | - |
| Conn. | 98 | 95 | - | - | NN | 1 | 2,030 | - |
| Mid. Atlantic | 2,007 | 1,761 | 489 | 10 | 264 | 2 | 8,171 | 108 |
| N.Y. (excl. NYC) | ) 543 | 402 | 230 | 6 | 62 | 1 | 5,105 | 2 |
| N.Y.C. | 941 | 543 | 4 | - | 11 | - | 95 | 106 |
| N.J. | 306 | 410 | 211 | - | 49 | 1 | 1,533 | - |
| Pa. | 217 | 406 | 44 | 4 | 142 | - | 1,438 | - |
| E.N. Central | 2,777 | 1,221 | 320 | 16 | 433 | 1 | 530 | 9 |
| Ohio | 1,203 | 164 | 24 | - | 194 | - | 45 | 9 |
| Ind. | 361 | 215 | 9 | - | 48 | - | 19 | - |
| III. | 615 | 315 | 81 | 9 | 44 | 1 | 24 | - |
| Mich. | 352 | 432 | 206 | 7 | 82 | - | 33 | - |
| Wis. | 246 | 95 | - | - | 65 | - | 409 | - |
| W.N. Central | 1,222 | 714 | 100 | 12 | 106 | 2 | 347 | 2 |
| Minn. | 261 | 82 | 20 | - | 4 | - | 208 | - |
| lowa | 64 | 27 | 14 | 11 | 34 | - | 17 | - |
| Mo. | 619 | 538 | 32 | 1 | 41 | 1 | 102 | 2 |
| N. Dak. | 6 | 1 | 1 | - | 4 | - | - | - |
| S. Dak. | 39 | 4 | - | - | 2 | - | - | - |
| Nebr. | 122 | 31 | 15 | - | 15 | 1 | 3 | - |
| Kans. | 111 | 31 | 18 | - | 6 | - | 17 | - |
| S. Atlantic | 1,466 | 2,240 | 485 | 32 | 413 | 3 | 855 | 65 |
| Del. | 22 | 14 | 2 | - | 31 | - | 106 | - |
| Md. | 198 | 354 | 21 | 8 | 82 | 1 | 341 | - |
| D.C. | 27 | 53 | 2 | - | 9 | - | 9 | 15 |
| Va . | 193 | 142 | 26 | 10 | 17 | - | 131 | - |
| W. Va. | 23 | 48 | 47 | - | 4 | - | 29 | - |
| N.C. | 145 | 291 | 59 | - | 28 | 1 | 77 | 44 |
| S.C. | 40 | 33 | 10 | - | 29 | - | 7 | - |
| Ga. | 43 | 555 | 220 | - | 118 | - | 127 | 3 |
| Fla. | 775 | 750 | 98 | 14 | 95 | 1 | 28 | 3 |
| E.S. Central | 784 | 1,211 | 945 | 2 | 83 | 3 | 43 | 2 |
| Ky. | 221 | 78 | 32 | - | 9 | 1 | 24 | - |
| Tenn. | 347 | 1,042 | 893 | 1 | 45 | 2 | 13 | 1 |
| Ala. | 139 | 91 | 20 | 1 | 13 | - | 6 | 1 |
| Miss. | 77 | - | - | - | 16 | - | - | - |
| W.S. Central | 3,719 | 1,830 | 599 | 94 | 63 | 1 | 174 | 12 |
| Ark. | 253 | 60 | 8 | 3 | 16 | 1 | 15 | - |
| La. | 170 | 203 | 215 | 2 | 20 | - | 4 | 12 |
| Okla. | 419 | 141 | 62 | 3 | 12 | - | 99 | - |
| Tex. | 2,877 | 1,426 | 314 | 86 | 15 | - | 56 | - |
| Mountain | 5,296 | 694 | 454 | 73 | 97 | - | 18 | 7 |
| Mont. | 25 | 21 | 13 | - | 16 | - | - | - |
| Idaho | 380 | 77 | 71 | 1 | 2 | - | 3 | - |
| Wyo. | 41 | 24 | 177 | - | 5 | - | 5 | - |
| Colo. | 584 | 97 | 79 | 14 | 19 | - | 1 | 1 |
| N. Mex. | 1,100 | 218 | 45 | 11 | 4 | - | 5 | - |
| Ariz. | 2,159 | 102 | 31 | 27 | 17 | - | - | 5 |
| Utah | 754 | 96 | 18 | 6 | 8 | - | 3 | - |
| Nev. | 253 | 59 | 20 | 14 | 26 | - | 1 | 1 |
| Pacific | 9,229 | 2,492 | 910 | 190 | 77 | 23 | 78 | 24 |
| Wash. | 1,119 | 255 | 294 | 9 | 13 | - | 4 | 3 |
| Oreg. | 1,241 | 158 | 46 | 2 | - | 1 | 6 | 2 |
| Calif. | 6,602 | 2,038 | 565 | 176 | 59 | - | 68 | 19 |
| Alaska | 209 | 13 | 5 |  | - | - | - | - |
| Hawaii | 58 | 28 | 5 | 3 | 5 | 22 | - | - |
| Guam | 23 | 5 | - | 9 | 1 | - | - | - |
| P.R. | 86 | 415 | 215 | 3 | - | 2 | - | - |
| V.I. | 3 | 9 | 1 | - | - | - | - | - |
| C.N.M.I. | 12 | 1 | - | - | - | - | - | - |
| American Samoa | oa 11 | - | - | - | - | - | - | - |
| *Cases updated through Division of Sexually Transmitted Diseases and HIV Prevention, National Center for Prevention Services, as of February 28, 1995. |  |  |  |  |  |  | N | Not notifiable |

NOTIFIABLE DISEASES - Reported cases, by geographic division and area, United States, 1994 (continued)

| Area | Malaria | Measles |  | Meningococcal infections | Mumps | Pertussis | Plague | Poliomyelitis, paralytic |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Indigenous | Imported |  |  |  |  |  |
| United States | 1,229 | 746 | 217* | 2,886 | 1,537 | 4,617 | 17 | - ${ }^{+}$ |
| New England | 78 | 15 | 12 | 141 | 26 | 760 | - | - |
| Maine | 6 | 2 | 3 | 23 | 3 | 21 | - | - |
| N.H. | 3 | 1 | - | 8 | 4 | 107 | - | - |
| V . | 3 | 2 | 1 | 5 | - | 46 | - | - |
| Mass. | 38 | 1 | 6 | 68 | 3 | 534 | - | - |
| R.I. | 10 | 5 | 2 | - | 4 | 8 | - | - |
| Conn. | 18 | 4 | - | 37 | 12 | 44 | - | - |
| Mid. Atlantic | 261 | 200 | 27 | 312 | 116 | 695 | - | - |
| N.Y. (excl. NYC) | 60 | 12 | 16 | 105 | 33 | 254 | - | - |
| N.Y.C. | 106 | 11 | 4 | 40 | 12 | 224 | - | - |
| N.J. | 57 | 172 | 3 | 65 | 13 | 15 | - | - |
| Pa. | 38 | 5 | 4 | 102 | 58 | 202 | - | - |
| E.N. Central | 117 | 60 | 46 | 397 | 267 | 615 | - | - |
| Ohio | 20 | 15 | 2 | 121 | 77 | 162 | - | - |
| Ind. | 15 | - | 1 | 55 | 7 | 97 | - | - |
| III. | 48 | 18 | 41 | 125 | 110 | 111 | - | - |
| Mich. | 31 | 24 | 2 | 59 | 59 | 96 | - | - |
| Wis. | 3 | 3 | - | 37 | 14 | 149 | - | - |
| W.N. Central | 48 | 127 | 44 | 174 | 71 | 273 | - | - |
| Minn. | 16 | - | - | 23 | 5 | 142 | - | - |
| lowa | 5 | 6 | 1 | 21 | 16 | 23 | - | - |
| Mo. | 14 | 119 | 42 | 78 | 44 | 45 | - | - |
| N. Dak. | 1 | - | - | 1 | 4 | 5 | - | - |
| S. Dak. | - | - | - | 9 | - | 26 | - | - |
| Nebr. | 5 | 1 | 1 | 14 | 1 | 14 | - | - |
| Kans. | 7 | 1 | - | 28 | 1 | 18 | - | - |
| S. Atlantic | 247 | 65 | 9 | 455 | 257 | 431 | - | - |
| Del. | 3 | - | - | 5 | - | 3 | - | - |
| Md. | 83 | 2 | 2 | 35 | 65 | 74 | - | - |
| D.C. | 15 | - | - | 7 | - | 11 | - | - |
| Va . | 37 | 1 | 2 | 69 | 48 | 37 | - | - |
| W. Va. | - | 37 | - | 14 | 5 | 6 | - | - |
| N.C. | 12 | 2 | 1 | 57 | 73 | 140 | - | - |
| S.C. | 5 | - | - | 40 | 8 | 14 | - | - |
| Ga. | 43 | 5 | - | 82 | 18 | 37 | - | - |
| Fla. | 49 | 18 | 4 | 146 | 40 | 109 | - | - |
| E.S. Central | 32 | 28 | - | 195 | 32 | 129 | - | - |
| Ky. | 12 | - | - | 42 | - | 60 | - | - |
| Tenn. | 10 | 28 | - | 40 | 9 | 22 | - | - |
| Ala. | 9 | - | - | 77 | 12 | 35 | - | - |
| Miss. | 1 | - | - | 36 | 11 | 12 | - | - |
| W.S. Central | 119 | 16 | 7 | 392 | 302 | 246 | - | - |
| Ark. | 5 | 5 | - | 55 | 7 | 33 | - | - |
| La. | 12 | - | 1 | 47 | 38 | 15 | - | - |
| Okla. | 9 | - | - | 53 | 23 | 38 | - | - |
| Tex. | 93 | 11 | 6 | 237 | 234 | 160 | - | - |
| Mountain | 41 | 163 | 55 | 178 | 162 | 609 | 15 | - |
| Mont. | - | - | - | 6 | - | 12 | - | - |
| Idaho | 2 | 1 | - | 17 | 10 | 172 | - | - |
| Wyo. | 1 | - | - | 9 | 3 | - | - | - |
| Colo. | 19 | 24 | 37 | 41 | 4 | 228 | 2 | - |
| N. Mex. | 3 | 2 | - | 17 | NN | 35 | 7 | - |
| Ariz. | 10 | 5 | 4 | 58 | 99 | 122 | 5 | - |
| Utah | 4 | 131 | 5 | 19 | 28 | 37 | 1 | - |
| Nev. | 2 | - | 9 | 11 | 18 | 3 | - | - |
| Pacific | 286 | 72 | 17 | 642 | 304 | 859 | 2 | - |
| Wash. | 45 | 3 | 1 | 111 | 23 | 140 | - | - |
| Oreg. | 17 | - | 2 | 143 | NN | 106 | - | - |
| Calif. | 207 | 51 | 10 | 374 | 258 | 594 | 2 | - |
| Alaska | 2 | 10 | - | 5 | 4 | - | - | - |
| Hawaii | 15 | 8 | 4 | 9 | 19 | 19 | - | - |
| Guam | - | 228 | - | 2 | 7 | 2 | - | - |
| P.R. | 5 | 46 | - | 7 | 2 | 3 | - | - |
| V.I. | 1 | - | - | - | 4 | - | - | - |
| C.N.M.I. | 1 | 29 | - | - | 2 | - | - | - |
| American Samoa | - | - | - | - | 3 | 1 | - | - |
| *For 1994, includes and 75 cases of int <br> ${ }^{\dagger}$ Two suspected cas Confirmation of th | th 142 national of para e cases | s of out-of-st portations. poliomyeliti ponding review | importa <br> were repo by externa | in 1994. el. |  |  | NN: | t notifiabl |

NOTIFIABLE DISEASES - Reported cases, by geographic division and area, United States, 1994 (continued)

| Area | Psittacosis | Rabies |  | Rheumatic fever, acute | RMSF* | Rubella |  | Salmonellosis | Shigellosis |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  | Cong. |  |  |
|  |  | Animal | Human |  |  | Rubella | syndrome |  |  |
| United States | 38 | 8,147 | 6 |  | 112 | 465 | 227 | 7 | 43,323 | 29,769 |
| New England | 2 | 2,009 | - | 2 | 12 | 132 | 2 | 3,439 | 508 |
| Maine | - | 10 | - | 1 | - | - | - | 191 | 10 |
| N.H. | 1 | 221 | - | NN | - | - | - | 213 | 20 |
| Vt . | 1 | 143 | - | - | - | - | - | 119 | 4 |
| Mass. | - | 734 | - | 1 | 4 | 126 | 2 | 2,009 | 243 |
| R.I. | - | 153 | - | - | - | 3 | - | 248 | 55 |
| Conn. | - | 748 | - | - | 8 | 3 | - | 659 | 176 |
| Mid. Atlantic | 6 | 2,249 | - | 5 | 24 | 8 | - | 7,066 | 3,163 |
| N.Y. (excl. NYC) | 1 | 1,569 | - | NN | 8 | 6 | - | 1,977 | 1,120 |
| N.Y.C. | - | 16 | - | NN | 3 | 1 | - | 1,889 | 1,007 |
| N.J. | 1 | 278 | - | 5 | 5 | 1 | - | 1,160 | 522 |
| Pa. | 4 | 386 | - | NN | 8 | - | - | 2,040 | 514 |
| E.N. Central | 7 | 69 | - | 30 | 40 | 10 | - | 5,678 | 3,648 |
| Ohio | - | 4 | - | 8 | 19 | - | - | 1,337 | 740 |
| Ind. | 1 | 14 | - | 2 | 8 | - | - | 581 | 544 |
| III. | - | 21 | - | 8 | 11 | 1 | - | 1,821 | 1,494 |
| Mich. | 3 | 14 | - | 8 | 2 | 9 | - | 869 | 432 |
| Wis. | 3 | 16 | - | 4 | - | - | - | 1,070 | 438 |
| W.N. Central | 4 | 232 | - | 12 | 42 | 2 | - | 2,624 | 2,361 |
| Minn. | - | 22 | - | 3 | 1 | - | - | 759 | 554 |
| lowa | - | 90 | - | 3 | 1 | - | - | 404 | 338 |
| Mo. | 4 | 27 | - | 3 | 22 | 2 | - | 642 | 654 |
| N. Dak. | - | 14 | - | NN |  | - | - | 68 | 59 |
| S. Dak. | - | 44 | - | 2 | 13 | - | - | 143 | 207 |
| Nebr. | - | - | - | NN | 1 | - | - | 209 | 426 |
| Kans. | - | 35 | - | 1 | 4 | - | - | 399 | 123 |
| S. Atlantic | 4 | 2,083 | 2 |  | 224 | 22 | - | 9,165 | 8,352 |
| Del. | - | 74 | - | NN | 1 | - | - | 168 | 38 |
| Md. | 2 | 520 | - | NN | 21 | - | - | 1,178 | 323 |
| D.C. |  | 4 | - | NN | - | - | - | 118 | 70 |
| Va. | 2 | 428 | - | NN | 22 | - | - | 1,135 | 656 |
| W. Va. | - | 84 | 1 | - | 2 | - | - | 152 | 15 |
| N.C. | - | 175 | - | NN | 88 | - | - | 1,137 | 1,970 |
| S.C. | - | 179 | - | NN | 20 | - | - | 599 | 505 |
| Ga . | - | 367 | - | NN | 62 | 7 | - | 1,583 | 1,886 |
| Fla. | - | 252 | 1 | NN | 8 | 15 | - | 3,095 | 2,889 |
| E.S. Central | 1 | 242 | 2 | - | 47 | - | - | 1,777 | 1,706 |
| Ky. | - | 28 | - | NN | 10 | - | - | 380 | 208 |
| Tenn. | - | 82 | 1 | NN | 29 | - | - | 441 | 418 |
| Ala. | 1 | 128 | 1 | NN | 2 | - | - | 507 | 617 |
| Miss. | , | 4 | . | - | 6 | NN | - | 449 | 463 |
| W.S. Central | - | 741 | 1 | 1 | 63 | 13 | 1 | 3,578 | 3,259 |
| Ark. | - | 38 | - | 1 | 18 | - | - | 534 | 193 |
| La. | - | 73 | - | NN | 1 | - | - | 591 | 416 |
| Okla. | - | 39 | - | NN | 37 | 4 | - | 470 | 240 |
| Tex. | - | 591 | 1 | NN | 7 | 9 | 1 | 1,983 | 2,410 |
| Mountain | 3 | 154 | - | 39 | 13 | 5 | 2 | 2,226 | 1,953 |
| Mont. | - | 22 | - | NN | 4 | - | - | 145 | 4 |
| Idaho | - | 4 | - | 1 |  | - | - | 130 | 59 |
| Wyo. | - | 24 | - | 1 | 2 | - | - | 60 | 8 |
| Colo. | 3 | 18 | - | 8 | 4 | - | - | 709 | 530 |
| N. Mex. |  | 8 | - | 1 | 1 | - | 1 | 353 | 347 |
| Ariz. | - | 56 | - | NN | 1 | - | 1 | 427 | 680 |
| Utah | - | 13 | - | 28 | - | 4 | - | 202 | 240 |
| Nev. | - | 9 | - | NN | 1 | 1 | - | 200 | 85 |
| Pacific | 11 | 368 | 1 | 23 | - | 35 | 2 | 7,770 | 4,819 |
| Wash. | 4 | 15 | - | - | - | - | - | 863 | 478 |
| Oreg. | 2 | 13 | - | NN | - | 4 | - | 313 | 165 |
| Calif. | 4 | 294 | 1 | 18 | - | 27 | 2 | 6,235 | 3,953 |
| Alaska | 1 | 46 | - | 5 | - | - | - | 55 | 21 |
| Hawaii |  | . | - | NN | - | 4 | - | 304 | 202 |
| Guam | - | - | - | 3 | - | 1 | - | 76 | 33 |
| P.R. | - | 77 | - | - | - | - | - | 737 | 48 |
| V.I. | - | 崖 | - | - | - | - | - | 2 | 4 |
| C.N.M.I. |  | - | - | 4 | - | - | - | 78 | 60 |
| American Samoa | - | - | - | - | - | - | - | 14 | 9 |
| *Rocky Mountain sp | ed fever |  |  |  |  |  |  | NN: No | notifiable |

NOTIFIABLE DISEASES - Reported cases, by geographic division and area, United States, 1994 (continued)

| Area | Syphilis |  |  | Tetanus | Toxicshock syndrome | Trichinosis | Tuberculosis | Tularemia | Typhoid fever | Varicella (chickenpox) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Primary \& secondary | Cong. (<1 yr.) | All stages |  |  |  |  |  |  |  |
| United States | 20,627* | 2,204* | 81,696* | 51 | 192 | 32 | 24,361 | 96 | 441 | 151,219 |
| New England | 219 | 14 | 1,128 | 2 | 5 | 1 | 595 | 1 | 25 | 11,676 |
| Maine | 4 | - | 9 | - | 1 | 1 | 35 | - | - | 711 |
| N.H. | 4 | - | 18 | 1 | - | - | 17 | - | - | 3,408 |
| Vt. | - | - | 1 | - | 2 | - | 10 | - | - | NN |
| Mass. | 90 | 6 | 622 | - | 2 | - | 329 | 1 | 20 | 5,903 |
| R.I. | 16 | 2 | 141 | - | - | - | 56 | - | 1 | 1,654 |
| Conn. | 105 | 6 | 337 | 1 | - | - | 148 | - | 4 | NN |
| Mid. Atlantic | 1,446 | 681 | 14,302 | 7 | 30 | 5 | 5,112 | 2 | 121 | 5,978 |
| N.Y. (excl. NYC) | ) 173 | 59 | 1,375 | 3 | 16 | 2 | 641 | 1 | 12 | NA |
| N.Y.C. | 629 | 329 | 8,001 | - | - | - | 2,995 | 1 | 78 | 5,978 |
| N.J. | 240 | 178 | 2,188 | 2 | - | 2 | 855 | - | 25 | NN |
| Pa. | 404 | 115 | 2,738 | 2 | 14 | 1 | 621 | - | 6 | NN |
| E.N. Central | 3,162 | 386 | 9,492 | 8 | 43 | 3 | 2,236 | 6 | 68 | 77,332 |
| Ohio | 1,187 | 71 | 2,740 | 1 | 10 | - | 337 | 1 | 7 | 5,495 |
| Ind. | 286 | 11 | 844 | 2 | 3 | - | 211 | - | 4 | NN |
| III. | 1,099 | 258 | 3,877 | 1 | 15 | - | 1,117 | 3 | 42 | 33,889 |
| Mich. | 292 | 28 | 1,234 | 4 | 15 | 1 | 462 | 1 | 6 | 37,948 |
| Wis. | 298 | 18 | 797 | - | - | 2 | 109 | 1 | 9 | NA |
| W.N. Central | 1,203 | 82 | 2,663 | 4 | 28 | 2 | 610 | 38 | 2 | 18,210 |
| Minn. | 56 | 2 | 201 | 1 | 2 | - | 140 | 1 | 1 | NN |
| lowa | 75 | 6 | 235 | 1 | 8 | 1 | 66 | - | - | 4,197 |
| Mo. | 987 | 72 | 1,985 | 1 | 7 | 1 | 260 | 24 | 1 | 10,147 |
| N. Dak. | - | - | 1 | - | 1 | - | 10 | 1 | - | 48 |
| S. Dak. | 2 | - | 8 | - | - | - | 28 | 2 | - | 619 |
| Nebr. | 10 | - | 46 | - | 5 | - | 22 | 3 | - | 2 |
| Kans. | 73 | 2 | 187 | 1 | 5 | - | 84 | 7 | - | 3,197 |
| S. Atlantic | 5,362 | 322 | 18,942 | 7 | 12 | 1 | 4,448 | 2 | 56 | 8,653 |
| Del. | 27 | 5 | 138 | - | - | - | 57 | - | 1 | 2 |
| Md. | 325 | 9 | 1,538 | 1 | - | - | 363 | 1 | 14 | NN |
| D.C. | 170 | 28 | 967 | - | - | - | 121 | - | 1 | 16 |
| Va . | 796 | 18 | 1,919 | 2 | 1 | - | 372 | - | 9 | 2,844 |
| W. Va. | 8 | 2 | 179 | - | - | - | 80 | - | - | 5,656 |
| N.C. | 1,672 | 44 | 4,023 | 1 | 1 | - | 566 | - | 1 | NN |
| S.C. | 799 | 100 | 1,945 | 1 | - | - | 387 | NN |  | 135 |
| Ga . | 820 | 42 | 3,185 | - | 1 | 1 | 740 | 1 | 2 | NN |
| Fla. | 745 | 74 | 5,048 | 2 | 9 | - | 1,762 | - | 28 | NN |
| E.S. Central | 3,997 | 144 | 9,992 | - | 6 | - | 1,578 | 3 | 6 | 4,701 |
| Kу. | 208 | 13 | 534 | - | 2 | - | 347 | 2 | 1 | 984 |
| Tenn. | 1,044 | 57 | 2,978 | - | 2 | - | 520 | - | 3 | 3,717 |
| Ala. | 661 | 18 | 1,933 | - | 1 | - | 433 | - | 2 | NN |
| Miss. | 2,084 | 56 | 4,547 | - | 1 | - | 278 | 1 | - | NN |
| W.S. Central | 4,124 | 355 | 16,275 | 15 | 2 | - | 3,500 | 27 | 17 | 16,159 |
| Ark. | 446 | 29 | 1,328 | - | - | - | 264 | 23 | - | NN |
| La. | 1,608 | 87 | 5,422 | 2 | - | - | 433 | 1 | 4 | NN |
| Okla. | 157 | 15 | 497 | 1 | 2 | - | 261 | 3 | 3 | NN |
| Tex. | 1,913 | 224 | 9,028 | 12 | - | - | 2,542 | - | 10 | 16,159 |
| Mountain | 242 | 23 | 1,137 | 2 | 12 | 4 | 654 | 9 | 13 | 7,286 |
| Mont. | 3 | - | 9 | - | - | - | 24 | 3 | - | 53 |
| Idaho | 2 | - | 10 | - | 3 | - | 13 | - | - | NN |
| Wyo. | - | - | 3 | - | - | 2 | 12 | - | - | NN |
| Colo. | 126 | 4 | 296 | 1 | 6 | 1 | 94 | 1 | 3 | NN |
| N. Mex. | 18 | - | 178 | - | - | - | 81 | 1 | 1 | NN |
| Ariz. | 50 | 16 | 419 | - | 1 | - | 249 | - | 4 | 6,783 |
| Utah | 12 | - | 51 | 1 | 2 | - | 55 | 2 | 2 | 450 |
| Nev. | 31 | 3 | 171 | - | - | 1 | 126 | 2 | 3 | NN |
| Pacific | 872 | 197 | 7,765 | 6 | 54 | 16 | 5,628 | 8 | 133 | 1,224 |
| Wash. | 36 | 3 | 281 | 1 | 7 | - | 264 | 1 | 12 | NN |
| Oreg. | 22 | - | 100 | - | - | - | 165 | 4 | 5 | NN |
| Calif. | 807 | 194 | 7,321 | 5 | 43 | 12 | 4,859 | 2 | 111 | NN |
| Alaska | 3 | - | 22 |  | - | 4 | 93 | 1 | - | NN |
| Hawaii | 4 | - | 41 | - | 4 | - | 247 | - | 5 | 1,224 |
| Guam | 2 | - | 7 | - | - | - | 21 | - | 1 | 952 |
| P.R. | 311 | 20 | 2,018 | 2 | - | - | 274 | - | - | 9,193 |
| V.I. | 7 | - | 30 | - | - | - | 10 | - | - | 551 |
| C.N.M.I. | - | - | - | - | - | - | 14 | - | 1 | 121 |
| American Samo | oa | - | - | - | - | - | 5 | - | 1 | 74 |
| $\begin{array}{ll}\text { *Cases updated through Division of Sexually Transmitted Diseases and HIV Prevention, } & \text { NA: Not available } \\ \text { National Center for Prevention Services, as of February 28, 1995. } & \text { NN: Not notifiable }\end{array}$ |  |  |  |  |  |  |  |  |  |  |

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[^0]:    *Based on the assumption that the initiation rate during 1985-1989 remained stable at the 1984 rate, and by multiplying the Bureau of the Census population estimates for persons aged 14-17 years for each year from 1985 through 1989 by the difference between the adolescent smoking initiation rate in 1984 and the rate for each year.

[^1]:    ${ }^{\dagger}$ Based on data from the Federal Trade Commission (7), advertising expenditures include costs to advertise outdoors (e.g., billboards), in newspapers or magazines, and on transportation (e.g., buses); promotional expenditures include costs of promotional allowances, distribution of samples or specialty items (e.g., key chains, lighters, T-shirts, caps, and calendars), public entertainment, direct mail, coupons, retail value-added promotions (e.g., specialty items distributed at the point of sale), and point-of-sale promotions (e.g., store displays).

[^2]:    *Real prices and incomes were obtained by dividing the actual prices and incomes by the National Consumer Price Index, using the average of 1982-1984 as the reference.
    ${ }^{\dagger}$ Source: The Tobacco Institute.
    ${ }^{\S}$ Source: CDC.
    $\uparrow$ Not available.

[^3]:    *Radiographically confirmed.
    ${ }^{\dagger}$ Excludes 19 ( $0.1 \%$ ) persons of unknown age with pertussis.
    ${ }^{\S}$ Excludes six hospitalized patients of unknown age.
    TExcludes one hospitalized patient of unknown age.

[^4]:    *The case previously reported in 1995 had onset of illness in October 1994. It will now be included in 1994 data.

[^5]:    *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.
    ${ }^{\dagger}$ Preumonia and influenza.
    ${ }^{\S}$ 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.
    TTotal includes unknown ages.
    U: Unavailable -: no reported cases

[^6]:    *Per 100,000 population.
    ${ }^{\dagger}$ Data for 1993 and 1994 are provisional and are for a 12-month period ending with November.

[^7]:    Director, Centers for Disease Control and Prevention David Satcher, M.D., Ph.D.
    Deputy Director, Centers for Disease Control and Prevention Claire V. Broome, M.D.
    Director, Epidemiology Program Office Stephen B. Thacker, M.D., M.Sc.

