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Perspectives in Disease Prevention and Health Promotion

## State and Local Influenza Immunization Program Activities

Influenza prevention and control efforts in the United States have relied on cooperation between federal, state, and local public health agencies and private sector providers. Since the 1979-80 influenza season, public sector resources for influenza control have been provided primarily by state and local health agencies.

Between the 1985-86 and 1986-87 influenza seasons, the number of state and local projects offering influenza vaccine increased markedly. During the 1985-86 influenza season, 20 of 63 federal immunization grant-supported localities reported purchasing approximately $1,710,024$ doses of influenza vaccine for use in public clinics. During the 1986-87 influenza season, 36 localities reported purchasing 2,179,485 doses of influenza vaccine. Compared with the previous year, the activities in 1986-87 represented increases of $80 \%$ in project participation and $27 \%$ in the number of doses purchased.

Programs in Allegheny County, Pennsylvania, and in California and Vermont illustrate state and local efforts to improve influenza vaccine coverage.

Allegheny County, Pennsylvania. During the 1986-87 influenza season, the Allegheny County Health Department conducted expanded outreach clinics to immunize high-risk persons against influenza. Of the 10,200 persons residing in nursing home facilities, 8529 ( $84 \%$ ) received vaccine provided by the health department. Previous immunization coverage levels in Allegheny County nursing homes ranged from a low of $36 \%$ in the 1979-80 influenza season to a high of $71 \%$ during the 1985-86 season. An additional 43,926 doses were administered in health department clinics, hospital outpatient departments, community clinics, and senior citizen facilities. An estimated $21 \%$ of the 210,000 persons $\geqslant 65$ years of age who were not in long-term-care facilities received publicly purchased vaccine. Allegheny County coordinated the development of a coalition involving the American Lung Association (ALA) of Western Pennsylvania and other health-care organizations that conducted surveys to measure the impact of and coverage levels for their programs. A telephone survey conducted by the ALA at the conclusion of the 1986-87 influenza season showed overall influenza vaccination rates of $32 \%$ in noninstitutionalized persons aged $\geqslant 65$ years in the general population. The ALA publicized the recommendations and distributed educational material to high-risk groups (1).

Influenza Immunization - Continued
California. The State of California, through the California Department of Health Services (CDHS), distributed over 481,000 doses of influenza vaccine, of which over 350,000 doses were administered to approximately $12 \%$ of California residents $\geqslant 65$ years of age. This program, in operation since 1974, is funded entirely through state general revenue funds. The CDHS distributes vaccine to 59 county and municipal health departments. Fees up to $\$ 2.00$ may be charged by local units to defray administrative costs. Vaccine is offered at clinics to all persons $\geqslant 55$ years of age and to persons of any age with certain chronic illnesses. Staff for outreach clinics and nursing home programs is provided jointly by California chapters of the American Red Cross and state and local health departments.

Vermont. The Vermont Department of Health receives a yearly grant from Blue Cross/Blue Shield of Vermont to support the purchase of influenza vaccine for an immunization program for persons $\geqslant 60$ years of age and persons of all ages with high-risk conditions. Vaccine is distributed to home health agencies and visiting nurse associations that provide staffing and clinic coordination. Area Offices on Aging provide additional coordination and publicity through a newsletter distributed to senior citizens of Vermont. During the 1987-88 influenza season, approximately 11,000 persons received influenza vaccine through this program.

Reported by: Allegheny County Health Dept, Pittsburgh; R David, MD, Acting State Epidemiologist, Pennsylvania Dept of Health. DO Lyman, MD, State Epidemiologist, California Dept of Health Svcs. RL Vogt, MD, State Epidemiologist, Vermont Dept of Health. Div of Immunization, Center for Prevention Svcs, CDC.
Editorial Note: Older persons and those with certain chronic health problems are at increased risk for complications of influenza infection. Target groups for influenza immunization include children and adults with cardiopulmonary or renal disease, metabolic diseases (including diabetes mellitus), severe anemia, or compromised immune function; residents of chronic-care facilities; health-care professionals caring for high-risk patients; and household contacts of high-risk persons (2).

As many as 50,000 excess deaths are caused by influenza in the United States during epidemic years. Although influenza vaccine can substantially reduce influenzaassociated morbidity and mortality, only about $20 \%$ of high-risk persons are immunized annually. To increase coverage, many state and local health departments have collaborated with private sector groups to develop special influenza vaccination programs such as those reported above. In addition, in October 1988, CDC, in collaboration with the Health Care Financing Administration, awarded demonstration grant funds to nine programs to assess the cost effectiveness of furnishing influenza vaccine to Medicare part B beneficiaries.

In the hospital setting, influenza vaccine should be offered to high-risk persons between September and February (2). Although other organized vaccination campaigns for high-risk persons are optimally undertaken in November, health-care providers should make every effort to ensure that high-risk persons are immunized during routine health-care contacts during the fall and early winter. Studies suggest that at least $40 \%-55 \%$ of persons who are at high risk or who died of influenza and pneumonia may have received care in a health-care institution during the previous year; at least 75\% of these persons have attended outpatient clinics but failed to receive influenza vaccine when vaccines should have been routinely available (2-4). Recognizing these missed opportunities is important in improving coverage levels in high-risk groups.

## Influenza Immunization - Continued

Because of its substantial health impact, influenza is one of the most important vaccine-preventable diseases of adults. All providers of health care to adults should take every opportunity to review the immunization status of patients and, when indicated, offer their patients influenza vaccine and other vaccines (pneumococcal, tetanus/diphtheria toxoids, measles-mumps-rubella, and hepatitis B) appropriate for adults.
References

1. CDC. Allegheny County 1986-87 influenza vaccination program-Pittsburgh, Pennsylvania. MMWR 1987;36:617-9.
2. ACIP. Prevention and control of influenza. MMWR 1988;37:361-4,369-73.
3. Barker WH, Mullooly JP. Pneumonia and influenza deaths during epidemics: implications for prevention. Arch Intern Med 1982:142:85-9.
4. Williams WW, Hickson MA, Kane MA, et al. Immunization policies and vaccine coverage among adults: the risk of missed opportunities. Ann Intern Med 1988;108:616-25.

Notice to Readers

## Availability of the CDC/NIH Manual, Biosafety in Microbiological and Biomedical Laboratories

The second edition of Biosafety in the Microbiological and Biomedical Laboratories is now available.

This document was developed jointly by CDC and the National Institutes of Health in 1984 to help define the principles of biosafety and to provide guidelines for implementing them in the research laboratory. It outlines standard and special microbiologic practices, safety equipment, and facilities that constitute four biosafety levels. Recommended safe microbiologic techniques are described in detail for special infectious agents through the use of agent summary statements. The 1988 edition is identical in content but has added the Agent Summary Statement for Human Immunodeficiency Virus and Report on Laboratory-Acquired Infection with Human Immunodeficiency Virus (1) to the information in the first edition.

Requests from academic institutions and private laboratories for single copies should be directed to NIH/DS, 31-1C02, Bethesda, MD, 20892. Copies for other institutions or multiple copies may be obtained for $\$ 3.75$ per copy (stock no. 107-040-000508-3) from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C., 20402.

## Reference

1. CDC. 1988 agent summary statement for human immunodeficiency virus and report on laboratory-acquired infection with human immunodeficiency virus. MMWR 1988;37(suppl S-4).

## Erratum: Vol. 37, No. 45

p. 691 In the article, "State-Specific Estimates of Smoking-Attributable Mortality and Years of Potential Life Lost - United States, 1985," the two numbers in parentheses in item 3 of the last paragraph are reversed. This item should read: "deaths among nonsmokers caused by passive smoking (3825) and deaths from cigarette-caused fires (1570) were included in the previous estimate. . . ." Also, RK Sikes, DVM, State Epidemiologist, Georgia Dept of Human Resources, should be added to the credits.

TABLE I. Summary - cases of specified notifiable diseases, United States

| Disease | 46th Week Ending |  |  | Cumulative, 46th Week Ending |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \hline \text { Nov. 19, } \\ 1988 \end{gathered}$ | $\begin{gathered} \hline \text { Nov. 21, } \\ 1987 \end{gathered}$ | $\begin{gathered} \text { Median } \\ 1983-1987 \\ \hline \end{gathered}$ | $\begin{gathered} \hline \text { Nov. 19, } \\ 1988 \\ \hline \end{gathered}$ | $\begin{gathered} \text { Nov. 21, } \\ 1987 \end{gathered}$ | $\begin{gathered} \text { Median } \\ \text { 1983-1987 } \\ \hline \end{gathered}$ |
| Acquired Immunodeficiency Syndrome (AIDS) | 515 | U* | 117 | 27,144 | 17,979 | 6,963 |
| Aseptic meningitis | 145 | 184 | 231 | 5,960 | 10,222 | 9,627 |
| Encephalitis: Primary (arthropod-borne \& unspec) Post-infectious | 17 | 24 | 24 | 689 110 | 1,169 92 | 1,169 95 |
| Gonorrhea: Pivilian | 12,170 | 12,886 | 16,982 | 614,015 | 683,442 | 786,295 |
| Military | 165 | 573 | 403 | 10,316 | 14,682 | 18,702 |
| Hepatitis: Type A | 629 | 387 | 439 | 22,860 | 21,724 | 20,174 |
| Type B | 466 | 511 | 493 | 19,803 | 22,479 | 22,841 |
| Non A, Non B | 44 | 39 | 64 | 2,216 | 2,623 | 3,143 |
| Unspecified | 69 | 44 | 77 | 2,027 | 2,754 | 4,526 |
| Legionellosis | 37 | 25 | 18 | 859 | 861 | 669 |
| Leprosy | 7 |  | 5 | 150 | 176 | 215 |
| Malaria | 19 | 13 | 19 | 892 | 809 | 894 |
| Measies: Total ${ }^{\dagger}$ | 42 | 17 | 5 | 2,639 | 3,523 | 2,664 |
| Indigenous | 39 | 16 | 5 | 2,374 | 3,105 | 2,235 |
| Imported | 3 | 1 | 1 | 265 | 418 | 303 |
| Meningococcal infections | 52 | 65 | 45 | 2,496 | 2,587 | 2,377 |
| Mumps | 111 | 185 | 49 | 4,081 | 11,521 | 2,928 |
| Pertussis | 65 | 41 | 37 | 2,495 | 2,244 | 2,244 |
| Rubella (German measles) | 2 | 2 | 8 | 187 | 321 | 594 |
| Syphilis (Primary \& Secondary): Civilian | 742 | 619 | 511 | 35,679 | 31,323 | 24,698 |
| Military |  | 3 | 3 | 142 | 144 | 146 |
| Toxic Shock syndrome | 5 | 8 | 7 | 307 | 300 | 333 |
| Tuberculosis | 439 | 423 | 415 | 18,719 | 18,853 | 18,853 |
| Tularemia | 4 | 1 | 6 | 169 | 183 | 183 |
| Typhoid Fever | 18 | 7 | 7 | 345 | 301 | 336 |
| Typhus fever, tick-borne (RMSF) | 5 | 7 | 7 | 591 | 581 | 720 |
| Rabies, animal | 104 | 68 | 83 | 3,837 | 4,194 | 4,847 |

TABLE II. Notifiable diseases of low frequency, United States

|  | Cum. 1988 |  | Cum. 1988 |
| :---: | :---: | :---: | :---: |
| Anthrax | $\stackrel{-}{-}$ | Leptospirosis | 41 |
| Botulism: Foodborne (Colo. 1) | 26 | Plague | 14 |
| Infant | 31 | Poliomyelitis, Paralytic | 1 |
| Other | 3 | Psittacosis (Mo. 1, Calif. 1) | 78 |
| Brucellosis | 58 | Rabies, human | - |
| Cholera | 6 | Tetanus | 48 |
| Congenital rubella syndrome | 4 | Trichinosis (Mich. 1) | 40 |
| Congenital syphilis, ages < 1 year | 426 |  |  |
| Diphtheria | . |  |  |

TABLE III. Cases of specified notifiable diseases, United States, weeks ending
November 19, 1988 and November 21, 1987 (46th Week)

| Reporting Area | AIDS | Aseptic Meningitis | Encephalitis |  | Gonorrhea (Civilian) |  | Hepatitis (Viral), by type |  |  |  | Legionellosis | Leprosy |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Primary | Post-infectious |  |  | A | B | NA,NB | Unspecified |  |  |
|  | Cum. 1988 | $\begin{aligned} & \text { Cum. } \\ & 1988 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1988 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1988 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1988 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1987 \end{aligned}$ | $\begin{aligned} & \text { Cum. } \\ & 1988 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1988 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1988 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1988 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1988 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1988 \end{aligned}$ |
| UNITED STATES | 27,144 | 5,960 | 689 | 110 | 614,015 | 683,442 | 22,860 | 19,803 | 2,216 | 2,027 | 859 | 150 |
| NEW ENGLAND | 1,163 | 375 | 24 | 4 | 19,221 | 21,186 | 754 | 1,037 | 111 | 85 | 49 | 15 |
| Maine | 26 | 19 | 2 | - | 352 | 608 | 18 | 50 | 5 | 1 | 4 | - |
| N.H. | 35 | 40 | 1 | 3 | 230 | 355 | 42 | 66 | 10 | 4 | 4 | - |
| Vt . | 10 | 27 | 7 | - | 107 | 201 | 14 | 39 | 6 | 4 | 5 | - |
| Mass. | 650 | 155 | 8 | 1 | 6,459 | 7,431 | 363 | 647 | 71 | 61 | 33 | 14 |
| R.I. | 78 | 81 | - | - | 1,796 | 1,934 | 80 | 75 | 11 | - | 3 | 1 |
| Conn. | 364 | 53 | 6 | - | 10,277 | 10,657 | 237 | 160 | 8 | 15 | - | - |
| MID. ATLANTIC | 9,124 | 643 | 52 | 4 | 95,817 | 107,456 | 1,731 | 2,840 | 167 | 281 | 200 | 8 |
| Upstate N.Y. | 1,184 | 347 | 33 | 1 | 14,006 | 15,606 | 680 | 681 | 66 | 19 | 75 | . |
| N.Y. City | 5,069 | 123 | 8 | 3 | 39,700 | 57,028 | 320 | 1,193 | 16 | 205 | 45 | 7 |
| N.J. | 2,152 | 61 | 11 | . | 13,817 | 14,703 | 393 | 650 | 57 | 41 | 40 | 1 |
| Pa . | 719 | 112 | - | - | 28,294 | 20,119 | 338 | 316 | 28 | 16 | 40 | - |
| E.N. CENTRAL | 1,940 | 985 | 180 | 13 | 104,279 | 104,686 | 1,499 | 2,095 | 194 | 112 | 200 | 5 |
| Ohio | 441 | 380 | 61 | 3 | 23,629 | 23,411 | 298 | 488 | 32 | 19 | 79 | - |
| Ind. | 80 | 92 | 27 | - | 8,002 | 8,287 | 148 | 304 | 19 | 24 | 28 | - |
| III. | 898 | 92 | 32 | 10 | 31,334 | 30,486 | 481 | 447 | 68 | 29 | - | 4 |
| Mich. | 417 | 374 | 43 | - | 33,267 | 33,392 | 364 | 617 | 51 | 37 | 55 | - |
| Wis. | 104 | 47 | 17 | - | 8,047 | 9,110 | 208 | 239 | 24 | 3 | 38 | 1 |
| W.N. CENTRAL | 668 | 245 | 52 | 11 | 26,339 | 27,758 | 1,250 | 897 | 96 | 31 | 72 | 1 |
| Minn. | 146 | 29 | 11 | 3 | 3,535 | 4,138 | 90 | 119 | 19 | 3 | 4 | - |
| lowa | 39 | 35 | 9 | 3 | 1,946 | 2,715 | 43 | 77 | 13 | 2 | 18 | - |
| Mo. | 350 | 99 | 1 | - | 15,153 | 14,722 | 756 | 537 | 44 | 16 | 21 | - |
| N. Dak. | 4 | 5 | 4 | - | 163 | 261 | 6 | 12 | 3 | 5 | 1 | - |
| S. Dak. | 7 | 18 | 5 | 2 | 444 | 549 | 26 | 4 | 3 | - | 14 | - |
| Nebr. | 33 | 11 | 12 | 2 | 1,383 | 1,802 | 46 | 40 | 2 |  | 5 |  |
| Kans. | 89 | 48 | 10 | 1 | 3,715 | 3,571 | 283 | 108 | 12 | 5 | 9 | 1 |
| S. ATLANTIC | 4,704 | 1,279 | 102 | 40 | 173,430 | 179,455 | 2,130 | 4,134 | 347 | 300 | 133 | 1 |
| Del. | 62 | 42 | 3 | - | 2,701 | 3,061 | 44 | 128 | 7 | 4 | 13 | - |
| Md. | 497 | 187 | 9 | 3 | 18,040 | 20,469 | 266 | 623 | 38 | 25 | 18 | 1 |
| D.C. | 433 | 19 | 1 | 1 | 13,132 | 11,892 | 16 | 42 | 3 | 1 | 1 | - |
| Va. | 328 | 181 | 32 | 4 | 12,677 | 13,121 | 339 | 301 | 72 | 198 | 11 | - |
| W. Va. | 16 | 35 | 22 | - | 1,217 | 1,273 | 14 | 65 | 5 | 4 | - | - |
| N.C. | 249 | 157 | 21 | - | 24,535 | 26,442 | 291 | 745 | 84 | - | 31 | - |
| S.C. | 166 | 21 | - | 1 | 13,799 | 14,087 | 40 | 476 | 12 | 5 | 26 | - |
| Ga. | 669 | 142 | 1 | 2 | 32,741 | 32,055 | 560 | 601 | 13 | 6 | 21 | - |
| Fla. | 2,284 | 495 | 13 | 29 | 54,588 | 57,055 | 560 | 1,153 | 113 | 57 | 12 | - |
| E.S. CENTRAL | 667 | 406 | 60 | 8 | 49,085 | 51,711 | 698 | 1,269 | 169 | 13 | 47 | 2 |
| Ky. | 85 | 141 | 20 | 1 | 4,943 | 5,206 | 461 | 255 | 59 | 2 | 20 | . |
| Tenn. | 293 | 48 | 15 | - | 17,029 | 18,197 | 152 | 570 | 40 | - | 8 | - |
| Ala. | 185 | 164 | 25 | 2 | 14,774 | 16,232 | 52 | 330 | 59 | 10 | 13 | 2 |
| Miss. | 104 | 53 | - | 5 | 12,339 | 12,076 | 33 | 114 | 11 | 1 | 6 | - |
| W.S. CENTRAL | 2,324 | 724 | 82 | 3 | 66,278 | 77,510 | 2,827 | 1,822 | 192 | 495 | 25 | 31 |
| Ark. | 75 | 14 | 5 | - | 6,603 | 8,730 | 307 | 99 | 5 | 17 | 4 | - |
| La. | 318 | 116 | 23 | 1 | 13,188 | 13,054 | 147 | 317 | 25 | 16 | 7 | 1 |
| Okla. | 127 | 68 | 8 | - | 6,278 | 8,349 | 454 | 160 | 42 | 27 | 14 | - |
| Tex. | 1,804 | 526 | 46 | 2 | 40,209 | 47,377 | 1,919 | 1,246 | 120 | 435 | - | 30 |
| MOUNTAIN | 791 | 213 | 26 | 3 | 13,113 | 17,870 | 3,030 | 1,463 | 227 | 162 | 44 | 1 |
| Mont. | 11 | 4 | - | - | 372 | 494 | 39 | 52 | 10 | 4 | 2 | - |
| Idaho | 10 | 1 | - | - | 301 | 621 | 122 | 100 | 7 | 4 | - | - |
| Wyo. | 6 | 2 | - | - | 180 | 389 | 5 | 12 | 3 | - | 3 | - |
| Colo. | 281 | 69 | 3 | - | 2,905 | 4,050 | 207 | 178 | 63 | 73 | 8 | 1 |
| N. Mex. | 49 | 22 | 3 | 1 | 1,307 | 1,961 | 493 | 215 | 18 | 1 | 4 | - |
| Ariz. | 261 | 73 | 11 | 1 | 4,754 | 6,042 | 1,673 | 577 | 68 | 53 | 19 | . |
| Utah | 58 | 25 | 4 | 1 | 480 | 552 | 281 | 126 | 37 | 18 | 3 | - |
| Nev. | 115 | 17 | 5 | - | 2,814 | 3,761 | 210 | 203 | 21 | 9 | 5 | - |
| PACIFIC | 5,763 | 1,090 | 111 | 24 | 66,453 | 95,810 | 8,941 | 4,246 | 713 | 548 | 89 | 86 |
| Wash. | 342 | - | 7 | 4 | 6,184 | 8,025 | 2,042 | 772 | 177 | 69 | 21 | 7 |
| Oreg. | 163 | - | - | - | 2,915 | 3,604 | 1,216 | 520 | 77 | 21 | 4 | 1 |
| Calif. | 5,145 | 963 | 99 | 20 | 55,883 | 81,918 | 5,146 | 2,855 | 446 | 446 | 61 | 66 |
| Alaska | 16 | 25 | 3 | - | 936 | 1,516 | 525 | 49 | 8 | 7 | - | 1 |
| Hawaii | 97 | 102 | 2 | - | 535 | 747 | 12 | 50 | 5 | 5 | 3 | 11 |
| Guam | 1 | $\bigcirc$ | - | - | 122 | 179 | 9 | 13 | - | 2 | 1 | 5 |
| P.R. | 1,230 | 69 | 4 | 1 | 1,145 | 1,743 | 51 | 240 | 41 | 40 | - | 3 |
| V.I. | 32 | - | . | - | 365 | 253 | 1 | 7 | 2 | - | - | - |
| Amer. Samoa | - | - | - | - | 65 | 74 | 3 | 2 | - | 5 | - | 2 |
| C.N.M.I. | - | - | - | - | 39 | , | 1 | 3 | - | 4 | - | 1 |

TABLE III. (Cont'd.) Cases of specified notifiable diseases, United States, weeks ending November 19, 1988 and November 21, 1987 (46th Week)

| Reporting Area | Malaria | Measles (Rubeola) |  |  |  |  | Menin- <br> gococcal <br> Infections <br> Cum. <br> 1988 | Mumps |  | Pertussis |  |  | Rubella |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Indigenous |  | Imported* |  | $\begin{array}{l\|} \hline \text { Total } \\ \hline \text { Cum. } \\ \hline 1987 \\ \hline \end{array}$ |  |  |  |  |  |  |  |  |  |
|  | $\begin{aligned} & \text { Cum. } \\ & 1988 \end{aligned}$ | 1988 | $\begin{aligned} & \text { Cum. } \\ & 1988 \end{aligned}$ | 1988 | $\begin{aligned} & \hline \text { Cum. } \\ & 1988 \end{aligned}$ |  |  | 1988 | $\begin{aligned} & \hline \text { Cum. } \\ & 1988 \end{aligned}$ | 1988 | $\begin{aligned} & \hline \text { Cum. } \\ & 1988 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & \hline 1987 \\ & \hline \end{aligned}$ | 1988 | $\begin{aligned} & \text { Cum. } \\ & 1988 \end{aligned}$ | $\begin{aligned} & \text { Cum. } \\ & 1987 \\ & \hline \end{aligned}$ |
| UNITED STATES | 892 | 39 | 2,374 | 3 | 265 | 3,523 | 2,496 | 111 | 4,081 | 65 | 2,495 | 2,244 | 2 | 187 | 321 |
| NEW ENGLAND | 67 | - | 83 | 2 | 54 | 280 | 215 | - | 117 | 1 | 175 | 150 | - | 9 | 1 |
| Maine | 3 | - | 7 | - | - | 3 | 10 | - | - | - | 24 | 28 | - | - | 1 |
| N.H. | 3 | - | 67 | - | 44 | 162 | 23 | - | 105 | - | 47 | 39 | - | 5 | - |
| Vt . | 4 | - | - | . | - | 26 | 16 | - | 5 | - | 4 | 4 | - | - | - |
| Mass. | 33 | - | 2 | - | 2 | 65 | 94 | - | 7 | - | 60 | 50 | - | 3 | - |
| R.I. | 6 | - | - | - | 2 | 2 | 21 | - | . | - | 17 | 3 | - | 1 | - |
| Conn. | 18 | - | 7 | $2 §$ | 8 | 22 | 51 | - | - | 1 | 23 | 26 | - | - | - |
| MID. ATLANTIC | 158 | 30 | 893 | - | 49 | 582 | 263 | 16 | 340 | 17 | 194 | 268 | - | 14 | 12 |
| Upstate N.Y. | 38 |  | 19 | - | 18 | 40 | 124 | . | 96 | 9 | 112 | 154 | - | 2 | 10 |
| N.Y. City | 86 | - | 46 | - | 6 | 463 | 64 | - | 101 | 1 | 6 | 13 | - | 7 | 1 |
| N.J. | 11 | 30 | 299 | - | 11 | 39 | 63 | 9 | 53 | 7 | 15 | 17 | - | 3 | 1 |
| Pa . | 23 | - | 529 | - | 14 | 40 | 12 | 7 | 90 | - | 61 | 84 | - | 2 | - |
| E.N. CENTRAL | 47 | - | 141 | - | 57 | 374 | 346 | 7 | 806 | 1 | 234 | 252 | - | 31 | 38 |
| Ohio | 11 | - | 2 | - | 32 | 5 | 126 | - | 113 | - | 49 | 74 | - | 1 | - |
| Ind. | 4 | - | 57 | - | - | - | 26 | 1 | 73 | 1 | 74 | 17 | - |  | 7 |
| III. | 2 | - | 56 | - | 16 | 194 | 74 | 2 | 295 | - | 44 | 16 | - | 26 | 27 |
| Mich. | 23 | - | 26 | - | 5 | 29 | 80 | 4 | 210 | - | 34 | 46 | - | 4 | 9 |
| Wis. | 7 | - | - | - | 4 | 146 | 40 | - | 115 | - | 33 | 99 | - | - | 2 |
| W.N. CENTRAL | 18 | - | 11 | 1 | 3 | 230 | 91 | 37 | 192 | 1 | 124 | 134 | - | 2 | 2 |
| Minn. | 6 | - | 10 | - | 1 | 39 | 19 | . | - | - | 49 | 13 | - | . | - |
| lowa | 2 | - | - | 15 | 1 | - | - | - | 34 | 1 | 30 | 57 | - | - | 1 |
| Mo. | 6 | - | 1 | - | 1 | 189 | 34 | 2 | 40 | - | 22 | 33 | - | - | - |
| N. Dak. | - | - | - | - | - | 1 | 1 | - | - | - | 11 | 12 | - | - | - |
| S. Dak. | - | - | - | - | - | - | 4 | - | 1 | - | 5 | 3 | - | - | - |
| Nebr. | 1 | - | - | - | - | - | 12 | 35 | 11 | - | 7 | 1 | - | - | - |
| Kans. | 3 | - | - | - | - | 1 | 21 | 35 | 106 | - | 7 | 15 | - | 2 | 1 |
| S. ATLANTIC | 115 | 4 | 384 | - | 22 | 166 | 431 | 9 | 665 | 3 | 239 | 301 | 1 | 18 | 19 |
| Del. | 1 | - | - | - | - | 32 | 2 | 1 | 1 | - | 7 | 5 | - | - | 2 |
| Md. | 20 | - | 11 | - | 5 | 7 | 52 | - | 129 | 1 | 46 | 18 | - | 1 | 3 |
| D.C. | 12 | - | - | - | - | 1 | 8 | 5 | 264 | - | 1 | 5 | - | 11 | 1 |
| Va. | 20 | 3 | 207 | - | 2 | 1 | 51 | 2 | 136 | 2 | 23 | 50 | - | 11 | 1 |
| W. Va. | 3 | - | 6 | - | 5 | - | 7 | 1 | 17 | - | 8 | 39 | - | - | i |
| N.C. | 13 | - | - | - | 5 | 6 | 66 | - | 51 | - | 65 | 119 | 1 | 1 | 1 |
| S.C. | 10 | - | - | - | - | 2 | 36 | - | 6 | - | 1 | - | - | - | - |
| Ga. | 5 | - | - | - | $0^{-}$ | 9 | 68 | - | 29 | - | 36 | 23 | - | 2 | 2 |
| Fla. | 31 | 1 | 160 | - | 10 | 108 | 141 | - | 32 | - | 52 | 47 | - | 3 | 9 |
| E.S. CENTRAL | 19 | - | 70 | - | - | 6 | 238 | 2 | 439 | 1 | 100 | 48 | - | 2 | 3 |
| Ky. | - | - | 35 | - | - | - | 53 | 2 | 210 | - | 12 | 2 | - | - | 2 |
| Tenn. | - | - | 1 | - | - | - | 130 | - | 211 | - | 29 | 15 | - | 2 | 1 |
| Ala. | 10 | - | - | - | - | 4 | 40 | - | 15 | 1 | 55 | 24 | - | - | - |
| Miss. | 9 | - | 34 | - | - | 2 | 15 | N | N | - | 4 | 7 | - | - | - |
| W.S. CENTRAL | 78 | - | 14 | - | 3 | 448 | 167 | 19 | 789 | 3 | 203 | 274 | - | 11 | 11 |
| Ark. | 4 | - | - | - | 1 | - | 20 | 11 | 116 | 2 | 25 | 12 | - | 4 | 2 |
| La. | 12 | - |  | - | - | - | 47 | 2 | 288 | 1 | 18 | 49 | - | - | 5 |
| Okla. . | 10 | - | 8 | - | - | 4 | 19 | - | 197 | - | 62 | 162 | - | 1 | 5 |
| Tex. | 52 | - | 6 | - | 2 | 444 | 81 | 6 | 188 | - | 98 | 51 | - | 6 | 4 |
| MOUNTAIN | 42 | - | 117 | - | 30 | 496 | 74 | 11 | 203 | 30 | 740 | 193 | - | 6 | 25 |
| Mont. | 5 | - | 5 | - | 28 | 128 | 2 | - | 2 | 3 | 2 | 6 | - | - | 8 |
| Idaho | 2 | - |  | - | 1 | - | 8 | - | 4 | 3 | 323 | 62 | - | - | 1 |
| Wyo. | - | - | $1{ }^{-}$ | - | - | 2 |  | - | 3 | - | 2 | 5 | - | - | 1 |
| Colo. | 14 | - | 112 | - | 1 | 9 | 18 | 2 | 33 | - | 29 | 65 | - | 2 | - |
| N. Mex. | 2 | - | - | - | - | 317 | 11 | N | N | 7 | 51 | 12 | - | - | 5 |
| Ariz. | 13 | - | - | - | - | 36 | 18 | 8 | 137 | 27 | 306 | 33 | - | - | 5 |
| Utah | 4 | - | - | - | - | 1 | - 15 | - | 7 | - | 26 | 10 | - | 3 | 10 |
| Nev. | 2 | - | - | - | - | 3 | 2 | 1 | 17 | - | 1 | - | - | 1 |  |
| PACIFIC | 348 | 5 | 661 | - | 47 | 941 | 671 | 10 | 530 | 8 | 486 | 624 | 1 | 94 | 210 |
| Wash. | 22 |  | 7 | - | , | 44 | 62 | 2 | 52 | 3 | 110 | 93 | - | - | 2 |
| Oreg. | 16 | 5 | 6 | - | 2 | 100 | 41 | N | N | 5 | 46 | 70 | 1 | 66 | 2 |
| Calif. | 297 | 5 | 644 | - | 37 | 792 | 545 | 8 | 438 | 5 | 265 | 220 | 1 | 66 | 134 |
| Alaska | 3 | - | 1 | - | - | 1 | 6 | - | 13 | - | 7 | 6 | - | - | 2 |
| Hawaii | 10 | - | 3 | - | 8 | 4 | 17 | - | 16 | - | 58 | 235 | - | 28 | 70 |
| Guam | - | - | - | - | 1 | 2 | $\stackrel{-}{-}$ | - | 2 | - | - | - | - | 1 | 1 |
| P.R. | 2 | - | 226 | - | - | 771 | 11 | - | 10 | - | 15 | 20 | - | 3 | 3 |
| V.I. | - | - | - | - | - | - | - | - | 31 | - | - | - | - | - |  |
| Amer. Samoa | - | - | - | - | - | 1 | 2 | - | 3 | - | - | - | - | - |  |
| C.N.M.I. | 1 | - | - | - | - | - | 1 | - | 2 | - | - | - | - | - |  |

TABLE III. (Cont'd.) Cases of specified notifiable diseases, United States, weeks ending November 19, 1988 and November 21, 1987 (46th Week)

| Reporting Area | Syphilis (Civilian) (Primary \& Secondary) |  | Toxicshock | Tuberculosis |  | Tularemia <br> Cum. <br> 1988 | Typhoid <br> Fever <br> Cum. <br> 1988 | Typhus Fever <br> (Tick-borne) <br> (RMSF) <br> Cum. <br> 1988 | Rabies, Animal <br> Cum. <br> 1988 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \text { Cum. } \\ & \hline \end{aligned}$ | $\begin{aligned} & \text { Cum. } \\ & \hline 1987 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1988 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1988 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1987 \end{aligned}$ |  |  |  |  |
| UNITED STATES | 35,679 | 31,323 | 307 | 18,719 | 18,853 | 169 | 345 | 591 | 3,837 |
| NEW ENGLAND | 1,055 | 570 | 24 | 490 | 567 | 4 | 35 | 12 | 15 |
| Maine | 12 | 1 | 4 | 22 | 22 | - | 35 | 12 | 1 |
| N.H. | 6 | 3 | 5 | 9 | 18 | - | - |  | 5 |
| Vt . | 3 | 4 | 2 | 4 | 14 | . | 1 | . | 5 |
| Mass. | 391 | 269 | 10 | 287 | 312 | 3 | 21 | 7 |  |
| R.I. | 30 | 11 | - | 39 | 58 | - | 6 | 2 | - |
| Conn. | 613 | 282 | 3 | 129 | 143 | 1 | 7 | 3 | 9 |
| MID. ATLANTIC | 8,634 | 5,806 | 46 | 3,828 | 3,423 | - | 67 | 18 | 449 |
| Upstate N.Y. | 525 | 223 | 22 | 489 | 452 | - | 13 | 11 | 43 |
| N.Y. City | 6,012 | 4,334 | 6 | 2,128 | 1,686 | - | 41 | 6 | 4 |
| N.J. | 893 | 619 | 3 | 604 | 598 | - | 11 | - | 14 |
| Pa. | 1,204 | 630 | 15 | 607 | 687 | - | 2 | 1 | 392 |
| E.N. CENTRAL | 1,037 | 778 | 45 | 2,090 | 2,101 | 1 | 33 | 36 | 138 |
| Ohio | 96 | 93 | 31 | 400 | 378 |  | 8 | 24 | 5 |
| Ind. | 49 | 54 | 1 | 215 | 211 | - | 2 | 2 | 29 |
| III. | 475 | 403 | 1 | 910 | 942 | - | 17 | 7 | 29 |
| Mich. | 388 | 174 | 12 | 472 | 483 | 1 | 4 | 2 | 34 |
| Wis. | 29 | 54 | - | 93 | 87 | . | 2 | 1 | 41 |
| W.N. CENTRAL | 213 | 163 | 43 | 466 | 550 | 76 | 4 | 91 | 417 |
| Minn. | 17 | 18 | 5 | 77 | 109 | 3 | 2 | 2 | 123 |
| lowa | 23 | 26 | 7 | 51 | 37 | - | - | - | 13 |
| Mo. | 138 | 76 | 12 | 228 | 296 | 46 | 2 | 55 | 20 |
| N. Dak. | 1 | 1 | 3 | 15 | 13 | 1 | 2 | 5 | 96 |
| S. Dak. | - | 11 | 4 | 32 | 24 | 16 | - | 7 | 112 |
| Nebr. | 28 | 11 | 4 | 14 | 25 | 3 | - | 1 | 18 |
| Kans. | 6 | 20 | 8 | 49 | 46 | 7 | - | 26 | 35 |
| S. ATLANTIC | 12,650 | 10,792 | 19 | 3,986 | 4,019 | 5 | 39 | 197 | 1,317 |
| Del. | 91 | 64 | 1 | 37 | 38 | 2 | - | 1 | 56 |
| Md. | 613 | 556 | 3 | 379 | 347 | . | 2 | 22 | 289 |
| D.C. | 621 | 353 | - | 173 | 142 | - | 2 | - | 11 |
| Va . | 386 | 295 | - | 366 | 390 | 2 | 12 | 17 | 331 |
| W. Va. | 36 | 12 | - | 66 | 93 | - | 1 | 2 | 91 |
| N.C. | 726 | 650 | 9 | 448 | 473 | - | 2 | 107 | 8 |
| S.C. | 668 | 662 | 3 | 428 | 418 | - | - | 22 | 115 |
| Ga. | 2,268 | 1,506 | - | 640 | 711 | 1 | 7 | 23 | 270 |
| Fla. | 7,241 | 6,694 | 3 | 1,449 | 1,407 | - | 13 | 3 | 146 |
| E.S. CENTRAL | 1,750 | 1,708 | 23 | 1,517 | 1,697 | 11 | 3 | 87 | 274 |
| Ky. | 58 | 22 | 9 | 332 | 393 | 5 | 1 | 29 | 111 |
| Tenn. | 735 | 672 | 10 | 452 | 511 | 5 | - | 37 | 69 |
| Ala. | 516 | 450 | 3 | 465 | 495 | - | 1 | 10 | 87 |
| Miss. | 441 | 564 | 1 | 268 | 298 | 1 | 1 | 11 | 7 |
| W.S. CENTRAL | 3,897 | 3,933 | 28 | 2,376 | 2,226 | 53 | 8 | 135 | 491 |
| Ark. | 225 | 231 | 2 | 270 | 266 | 34 |  | 30 | 81 |
| La. | 774 | 730 | - | 306 | 272 | - | 4 | 2 | 10 |
| Okla. | 136 | 155 | 9 | 218 | 214 | 16 | - | 88 | 31 |
| Tex. | 2,762 | 2,817 | 17 | 1,582 | 1,474 | 3 | 4 | 15 | 369 |
| MOUNTAIN | 742 | 610 | 35 | 510 | 551 | 11 | 9 | 11 | 345 |
| Mont. | 3 | 9 | 5 | 31 | 13 | - | 1 | 6 | 191 |
| Idaho | 3 | 5 | 5 | 19 | 28 | - | - | 1 | 11 |
| Wyo. | 1 | 3 |  | 5 | 2 | 2 | - | 3 | 38 |
| Colo. | 97 | 111 | 3 | 57 | 140 | 5 | 3 | 1 | 28 |
| N. Mex. | 46 | 50 | 2 | 88 | 85 | 2 | 1 | 1 | 11 |
| Ariz. | 146 | 268 | 16 | 225 | 230 | 1 | 4 | - | 41 |
| Utah | 15 | 22 | 9 | 29 | 24 | 1 | 4 | - | + 9 |
| Nev. | 431 | 142 | - | 56 | 29 | . | - | - | 16 |
| PACIFIC | 5,701 | 6,963 | 44 | 3,456 | 3,719 | 8 | 147 | 4 | 391 |
| Wash. | 196 | 143 | 7 | 204 | 216 | 1 | 13 | 1 | 391 |
| Oreg. | 273 | 269 | 1 | 132 | 113 | 1 | 7 | 1 | - |
| Calif. | 5,191 | 6,533 | 35 | 2,939 | 3,159 | 4 | 124 | 2 | 374 |
| Alaska | 14 | 4 | - | 41 | 56 | 2 | 12 | 2 | 17 |
| Hawaii | 27 | 14 | 1 | 140 | 175 | - | 3 | - | 1 |
| Guam | 3 | 2 | - | 21 | 26 | - | - | - | - |
| P.R. | 605 | 820 | - | 216 | 270 | - | 5 | - | 64 |
| V.I. | 1 | 9 | - | 6 | 2 | - |  | - | 64 |
| Amer. Samoa | - | - | - | 3 | 8 | - | 1 | - | - |
| C.N.M.I. | 1 | - | - | 17 | - | - | , | - | - |

TABLE IV. Deaths in 121 U.S. cities,* week ending November 19, 1988 (46th Week)

| Reporting Area | All Causes, By Age (Years) |  |  |  |  |  | $\begin{array}{\|l\|l\|} \hline \text { P\& }\left.\right\|^{*} \\ \text { Total } \end{array}$ | Reporting Area | All Causes, By Age (Years) |  |  |  |  |  | $\left\lvert\, \begin{aligned} & \text { P\& }\left.\right\|^{* *} \\ & \text { Total } \end{aligned}\right.$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | All Ages | $\geqslant 65$ | 45-64 | 25-44 | 1-24 | $<1$ |  |  | All Ages | $\geqslant 65$ | 45-64 | 25-44 | 1-24 | $<1$ |  |
| NEW ENGLAND | 745 | 525 | 139 | 42 | 14 | 25 | 70 | S. ATLANTIC | 1,179 | 695 | 269 | 117 | 55 | 42 | 59 |
| Boston, Mass. | 191 35 | 118 | 40 | 15 | 5 | 13 | 28 | Atlanta, Ga. | 121 | 65 | 31 | 17 | 6 | 2 | 3 |
| Bridgeport, Conn. Cambridge Mass. | 35 40 | 26 | 6 | 2 3 |  | 1 | 6 | Baltimore, Md. | 135 | 88 | 27 | 9 | 5 | 6 | 2 |
| Fall River, Mass. | 28 | 29 | 8 | 3 1 | - | - | 3 | Charlotte, N.C. | 85 | 54 | 16 | 5 | 4 | 6 | 13 |
| Hartford, Conn. | 46 | 28 | 9 | 4 | 5 |  | 2 | Jacksonville, Fla. | 123 | 66 | 33 | 14 | 7 | 3 | 5 |
| Lowell, Mass. | 27 | 18 | 8 | 1 | - | - | 2 | Miami, Fla. | 95 | 50 | 23 | 13 | 5 | 4 | 1 |
| Lynn, Mass. | 24 | 19 | 5 | - | - |  |  | Norfolk, Va. | 82 | 51 | 17 | 5 | 3 | 6 | 7 |
| New Bedford, Mass. | 30 | 24 | 5 | 1 | - |  | 2 | Richmond, Va. | 95 | 59 | 20 | 7 | 3 | 6 | 8 |
| New Haven, Conn. | 54 | 41 | 8 | 3 | - | 2 | 4 | Savannah, Ga. | 54 | 37 | 10 | 6 | 1 |  | 4 |
| Providence, R.I. | 55 | 44 | 7 | 2 |  | 2 | 3 | St. Petersburg, Fla. | 122 | 87 | 19 | 9 | 3 | 4 | 8 |
| Somerville, Mass. | 16 | 12 | 2 | 1 | 1 | 2 | 2 | Tampa, Fla. | 56 | 37 | 13 | 4 | 1 | 1 | 4 |
| Springfield, Mass. | 69 | 49 | 15 | 2 | 1 | 3 | 6 | Washington, D.C. | 168 | 68 | 52 | 26 | 17 | 4 | 4 |
| Waterbury, Conn. | 41 | 24 | 10 | 4 | 3 | 3 | 1 | Wilmington, Del. | 43 | 33 | 8 | 2 | - | - | - |
| Worcester, Mass. | 89 | 69 | 13 | 3 | 3 | 4 | 10 | E.S. CENTRAL | 816 | 527 | 176 | 62 | 25 | 26 | 43 |
| MID. ATLANTIC | 2,720 | 1,796 | 535 | 257 | 68 | 62 | 12 | Birmingham, Ala. | 112 | 57 | 31 | 10 | 5 | 9 | . |
| Albany, N.Y. | 2, 58 | + 45 | 7 | 3 | 68 | 6 | 124 | Chattanooga, Tenn. | 73 | 48 | 15 | 5 | 3 | 2 | 5 |
| Allentown, Pa. | 27 | 20 | 5 | 1 | 1 | 3 | 1 | Knoxville, Tenn. | 68 | 42 | 18 | 4 | 4 | - | 3 |
| Buffalo, N.Y. | 100 | 71 | 20 | 4 | 2 | 3 | 7 | Louisville, Ky. | 143 | 107 | 22 | 8 | 3 | 3 | 8 |
| Camden, N.J. | 34 | 22 | 9 | 2 | 2 | 1 | 7 | Memphis, Tenn. | 200 | 137 | 35 | 16 | 7 | 5 | 17 |
| Elizabeth, N.J.§ | 24 | 19 | 4 | 1 | - | 1 | 1 | Mobile, Ala. | 48 | 29 | 12 | 6 | - | 1 | 3 |
| Erie, Pa.t | 48 | 35 | 10 | 1 | 2 |  | 5 | Montgomery, Ala. | 51 | 35 | 9 | 2 | 1 | 4 | 3 |
| Jersey City, N.J. | 63 | 37 | 14 | 7 | 2 | 3 | 2 | Nashville, Tenn. | 121 | 72 | 34 | 11 | 2 | 2 | 4 |
| N.Y. City, N.Y. | 1,445 | 947 | 286 | 158 | 37 | 17 | 63 | W.S. CENTRAL | 1,690 | 1,075 | 353 | 151 | 62 | 49 | 64 |
| Newark, N.J. | 105 | 42 | 26 | 26 | 4 | 7 | 6 | Austin, Tex. $\$$ | 57 | 36 | 13 | 7 | 1 | . | 2 |
| Paterson, N.J. | 36 | 19 | 10 | 3 | 1 | 3 | 3 | Baton Rouge, La. | 39 | 29 | 6 | 2 | 2 | - | 4 |
| Philadelphia, Pa. | 297 | 172 | 74 | 22 | 13 | 14 | 7 | Corpus Christi, Tex. $¢$ | 48 | 37 | 10 | 1 | . | - | 1 |
| Pittsburgh, Pa.t | 94 | 71 | 14 | 6 | 1 | 2 | 5 | Dallas, Tex. | 189 | 123 | 36 | 15 | 9 | 6 | 6 |
| Reading, Pa. | 36 | 24 | 8 | 3 | 1 | . | 3 | El Paso, Tex. | 57 | 32 | 14 | 7 | 2 | 2 | 5 |
| Rochester, N.Y. | 137 | 103 | 26 | 5 | . | 3 | 8 | Fort Worth, Tex | 97 | 64 | 17 | 7 | 7 | 2 | 10 |
| Schenectady, N.Y. | 27 | 24 | 3 | - | - | . | - | Houston, Tex. 5 | 734 | 436 | 169 | 89 | 24 | 16 | 18 |
| Scranton, Pa. $\dagger$ | 33 | 28 | 3 | 1 | 1 | - | 2 | Little Rock, Ark. | 79 | 55 | 14 | 6 | 1 | 3 | 7 |
| Syracuse, N.Y. | 53 | 37 | 7 | 6 | 1 | 2 | 5 | New Orleans, La. | 114 | 64 | 21 | 10 | 8 | 11 | - |
| Trenton, N.J. | 53 | 40 | 6 | 3 |  | 4 | 1 | San Antonio, Tex. | 151 | 105 | 30 | 4 | 6 | 6 | 4 |
| Utica, N.Y. | 18 | 12 | 1 | 3 | 2 | - | 1 | Shreveport, La. | 39 | 33 | 4 | - | 1 | 1 | 2 |
| Yonkers, N.Y. | 32 | 28 | 2 | 2 | - | - | 3 | Tulsa, Okla. | 86 | 61 | 19 | 3 | 1 | 2 | 5 |
| E.N. CENTRAL | 2,496 | 1,646 | 507 | 169 | 73 | 99 | 112 | MOUNTAIN | 767 | 502 | 134 | 73 | 28 | 29 | 40 |
| Akron, Ohio | 89 | 63 | 14 | 5 | 2 | 5 | - | Albuquerque, N. Mex. | . 80 | 43 | 14 | 13 | 6 | 4 | 4 |
| Canton, Ohio | 28 | 20 | 6 | 2 | - | - | 4 | Colo. Springs, Colo. | 62 | 43 | 8 | 8 | 1 | 2 | 4 |
| Chicago, III. 5 | 564 | 362 | 125 | 45 | 10 | 22 | 16 | Denver, Colo. | 131 | 99 | 18 | 12 | 1 | 1 | 5 |
| Cincinnati, Ohio | 110 | 75 | 21 | 5 | 6 | 3 | 17 | Las Vegas, Nev. | 123 | 79 | 23 | 14 | 5 | 2 | 10 |
| Cleveland, Ohio | 180 | 104 | 47 | 13 | 4 | 12 | 1 | Ogden, Utah | 22 | 16 | 4 | - | 1 | 1 | 1 |
| Columbus, Ohio | 154 | 93 | 27 | 17 | 8 | 9 | 4 | Phoenix, Ariz. | 191 | 108 | 41 | 17 | 10 | 14 | 10 |
| Dayton, Ohio | 144 | 97 | 30 | 10 | 3 | 4 | 7 | Pueblo, Colo. | 19 | 16 | 3 | - | - | - | - |
| Detroit, Mich. | 320 | 176 | 75 | 28 | 24 | 15 | 6 | Salt Lake City, Utah | 40 | 24 | 7 | 6 | 1 | 2 | 2 |
| Evansville, Ind. | 49 | 31 | 14 | 3 | - | 1 | 2 | Tucson, Ariz. | 99 | 74 | 16 | 3 | 3 | 3 | 4 |
| Fort Wayne, Ind. | 70 | 54 | 7 | 4 | 3 | 2 | 3 | PACIFIC | 1,905 | 1,264 | 332 | 187 | 58 | 60 | 117 |
| Gary, Ind. | 20 | 12 | 5 | 1 | 2 | - | 2 | Berkeley, Calif. | 1,909 | 1,26 | 5 | 187 | 1 | 3 | 1 |
| Grand Rapids, Mich. | 66 | 53 | 7 | 3 | 1 | 2 | 3 | Fresno, Calif. | 75 | 41 | 15 | 10 | 6 | 3 3 | 9 |
| Indianapolis, Ind. | 172 | 101 | 53 | 8 | 1 | 9 | 5 | Glendale, Calif. $\S$ | 19 | 16 | 3 | 10 | 6 | 3 | 9 |
| Madison, Wis. | 37 | 29 | 3 | 3 | - | 2 | 5 | Honolulu, Hawaii | 85 | 53 | 17 | 5 | 2 | 8 | 8 |
| Milwaukee, Wis. | 148 | 112 | 25 | 7 | 1 | 3 | 13 | Long Beach, Calif. | 80 | 56 | 15 | 6 | 2 | 3 | 11 |
| Peoria, III. | 62 | 48 | 7 | 2 | 3 | 2 | 5 | Los Angeles Calif. 5 | 459 | 302 | 76 | 50 | 22 | 5 | 16 |
| Rockford, III. | 47 | 35 | 3 | 5 | 1 | 3 | 6 | Oakland, Calif.§ | 71 | 46 | 13 | 8 | 2 | 2 | 3 |
| South Bend, Ind. | 42 | 35 | 7 |  | - | - | 1 | Pasadena, Calif. | 31 | 22 | 6 | 1 | 1 | 1 | 2 |
| Toledo, Ohio | 121 | 86 | 21 | 8 | 3 | 3 | 11 | Portland, Oreg. | 99 | 74 | 11 | 7 | 3 | 4 | 6 |
| Youngstown, Ohio | 73 | 60 | 10 | - | 1 | 2 | 1 | Sacramento, Calif. | 182 | 123 | 32 | 15 | 3 5 | 7 | 20 |
| W.N. CENTRAL | 831 | 571 | 166 | 50 | 21 | 23 | 42 | San Diego, Calif. | 121 | 78 | 23 | 12 | 4 | 4 | 9 |
| Des Moines, lowa | 73 | 54 | 10 | 6 | 1 | 2 | 3 | San Francisco, Calif. | 190 | 117 | 33 | 35 | - | 5 | 4 |
| Duluth, Minn. | 24 | 16 | 7 | - | 1 | - | 2 | San Jose, Calif. | 172 | 108 | 33 | 16 | 9 | 6 | 16 |
| Kansas City, Kans. | 44 | 33 | 8 | 2 |  | 1 | 3 | Seattle, Wash. | 194 | 132 | 40 | 13 | 2 | 7 | 7 |
| Kansas City, Mo. | 125 | 70 | 30 | 14 | 4 | 7 | 12 | Spokane, Wash. | 46 | 40 | 4 | 2 | - | - | 7 |
| Lincoln, Nebr. | 35 | 26 | 5 | 2 | 1 | 1 | 1 | Tacoma, Wash. | 52 | 36 | 6 | 7 | 1 | 2 | 4 |
| Minneapolis, Minn. | 175 | 111 | 43 | 9 | 6 | 6 | 9 | TOTAL 1 | $13,149^{\dagger \dagger}$ | 8,601 | 2,611 | 1,108 | 404 | 415 | 671 |
| Omaha, Nebr. | 85 | 56 | 24 | 4 | 1 | - | 7 |  | 13,149 | 8,601 | 2,611 | 1,108 | 404 | 415 | 671 |
| St. Louis, Mo.§ | 142 | 103 | 20 | 10 | 4 | 5 | 1 |  |  |  |  |  |  |  |  |
| St. Paul, Minn. | 57 | 48 | 5 | 2 | 2 | - | 1 |  |  |  |  |  |  |  |  |
| Wichita, Kans.§ | 71 | 54 | 14 | 1 | 1 | 1 | 3 |  |  |  |  |  |  |  |  |

[^0]\$Data not available. Figures are estimates based on average of past available 4 weeks.

## Abortion Surveillance: Preliminary Analysis United States, 1984, 1985

The total number of legal abortions reported to CDC from the 50 states and the District of Columbia was $1,333,521$ in 1984 and $1,328,570$ in 1985 (Table 1). The number of abortions reported for 1984 was approximately $5 \%$ higher than the number reported for 1983, whereas virtually no change occurred in the number reported between 1984 and 1985 ( <1\% decrease between 1984 and 1985).

In 1984, the national abortion ratio was 364.1 legal abortions per 1000 live births (Table 1). The ratio was 353.8 in 1985. The national abortion rate (number of legal abortions per 1000 women 15-44 years of age) was 24 for both 1984 and 1985, a figure essentially unchanged since 1980.

As in previous years, women obtaining abortions in 1984 and 1985 tended to be young, white, and unmarried and to have had no live births (Table 1). In 1985, 61.0\% of women obtaining legal abortions were <25 years of age, $66.6 \%$ were white, $80.7 \%$ were unmarried, and $56.6 \%$ had had no live births. Comparable figures were also reported for 1984.

Curettage (suction curettage and sharp curettage) continued to be the primary method of abortion and accounted for $96.6 \%$ and $97.8 \%$ of all abortion procedures in 1984 and 1985, respectively. The remaining abortions were performed by intrauterine instillation, hysterotomy/hysterectomy, and other procedures. In both 1984 and 1985, as in previous years, approximately half of the legal abortions were performed in the first 8 weeks of gestation, and nearly $90 \%$ in the first 12 weeks of gestation.
Reported by: Pregnancy Epidemiology Br and Research and Statistics Br, Div of Reproductive Health, Center for Chronic Disease Prevention and Health Promotion, CDC.
Editorial Note: CDC initiated national abortion surveillance in 1969. Between 1969 and 1982, the reported number of women obtaining abortions increased yearly. However, the annual percentage increase in numbers of abortions declined continuously between 1976 and 1982, from $9.2 \%$ for 1976-1977 to $0.2 \%$ for 1981-1982. Since 1980, the abortion numbers, ratios, and rates appear to be relatively stable, with minor year-to-year fluctuations.

Twenty-eight of the 52 reporting areas reported more abortions for 1984 than for 1983 (average increase of $8.9 \%$ ); the remaining areas reported fewer (average decrease of 10.9\%). Twenty-two of the areas reported more abortions in 1985 than in 1984 (average increase of $4.6 \%$ ); the remaining 30 areas reported fewer (average decrease 5.2\%).

Because of annual variation in the number of states reporting data to CDC on specific characteristics of women obtaining abortions, temporal trends based on these summary data should be viewed with caution.

Abortion Surveillance - Continued
TABLE 1. Characteristics of women obtaining abortions, by selected years - United States, 1972-1985

| Characteristics | 1972 | 1976 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Reported no. of |  |  |  |  |  |  |  |  |
| legal abortions | 586,760 | 988,267 | $1,297,606$ | $1,300,760$ | $1,303,980$ | $1,268,987$ | $1,333,521$ | $1,328,570$ |
| Ratio* $^{\text {Rate }^{\dagger}}$ | 180.1 | 312.0 | 359.2 | 358.4 | 354.3 | 348.7 | 364.1 | 353.8 |
|  | 13 | 21 | 25 | 24 | 24 | 23 | 24 | 24 |

Percentage distribution ${ }^{5}$
Age (yrs)
$\leqslant 19$
20-24
$\geqslant 25$
Race
White
Black and other
$\begin{array}{lll}77.0 & 66.6 & 69.9\end{array}$
69.9
$30.1 \quad 31.5$
$\begin{array}{llll}22.1 & 22.0 & 21.4 & 20.8\end{array}$
79.2
19.3

Married
Unmarried
No. live births"
0
1
2
3
$\geq 4$
58.4
58.3
57.8
$57.1 \quad 56.9$
56.6
$\begin{array}{lll}18.2 & 20.7 & 19.5\end{array}$
$\begin{array}{lllll}19.7 & 20.3 & 20.7 & 20.9 & 21.3\end{array}$
$13.3 \quad 15.4 \quad 13.7$
$13.7 \quad 13.9$
14.2
14.4
14.5

## 8.7 <br> 8.3 <br> 5.3

5.3
5.1
5.2
5.1
5.1
10.4
7.9
3.2
3.0
2.9
2.8
2.7
2.5

Type procedure
Curettage
Suction
Sharp
Intrauterine instillation
Hysterotomy/ hysterectomy
Other
Weeks gestation
$\leqslant 8$
$9-10$
$11-12$
$13-15$
$16-20$
$\geqslant 21$
$34.0 \quad 47.0$
51.7
$51.2 \quad 50.6$
49.7
49.7
50.8
$30.7 \quad 28.0$
26.2
26.8
26.7
26.8
26.8
26.2
$17.5 \quad 14.4 \quad 12.2$
5.2
3.9
0.9
$1.3 \quad 0.9$
12.1
12.4
$12.8 \quad 12.9$
12.3
5.2
5.3
5.8
5.9
5.9
$\begin{array}{llll}3.7 & 3.9 & 3.9 & 3.9\end{array}$
0.8

[^1]
$\because \because \because \because \quad \because \quad \because$

FIGURE I. Reported measles cases - United States, Weeks 42-45, 1988


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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. The editor welcomes accounts of interesting cases, outbreaks, environmental hazards, or other public health problems of current interest to health officials. Such reports and any other matters pertaining to editorial or other textual considerations should be addressed to: Editor, Morbidity and Mortality Weekly Report, Centers for Disease Control, Atlanta, Georgia 30333.

Director, Centers for Disease Control James O. Mason, M.D., Dr.P.H.
Acting Director, Epidemiology Program Office Michael B. Gregg, M.D.

Editor
Richard A. Goodman, M.D., M.P.H.
Managing Editor
Karen L. Foster, M.A.
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## DEPARTMENT OF

HEALTH \& HUMAN SERVICES
Public Health Service
Centers for Disease Control
Atlanta, GA 30333

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> 24 HCRU9FISD22 8721 DANIEL B FISHBEIN; MD CID VRL I-B 44 G13


[^0]:    *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.

[^1]:    *Abortions per 1000 live births.
    ${ }^{\dagger}$ Abortions per 1000 women 15-44 years of age.
    ${ }^{5}$ Excludes unknowns. Because the number of states reporting each characteristic varies from year to year, temporal comparisons should be made with caution.
    ${ }^{\top}$ For 1972 and 1976, data indicate number of living children.
    ${ }^{* *}<0.05 \%$.

