CENTERS FOR DISEASE CONTROL


MORBIDITY AND MORTALITY WEEKLY REPORT

August 12, 1988 / Vol. 37 / No. 31

## 465 Shigella dysenteriae Type 1 in Tourists to Cancun, Mexico <br> 466 Influenza - United States, 1986-87 Season <br> 475 Progress Toward the 1990 Objectives for Improved Nutrition

## Epidemiologic Notes and Reports

## Shigella dysenteriae Type 1 in Tourists to Cancun, Mexico

From January 1 to August 1, 1988, 17 cases of diarrheal disease caused by Shigella dysenteriae type 1 (Shiga bacillus) were reported to CDC. Three cases were reported to CDC during the same period in 1987. Fifteen of the patients with shigellosis had visited Cancun, Mexico, and two had visited other areas in Mexico in the weeks before or during onset of their illness. The patients had no common exposures in hotels or restaurants. Thirteen ( $76 \%$ ) of the patients required hospitalization; two patients developed hemolytic-uremic syndrome. Six isolates tested thus far at CDC were resistant to chloramphenicol and tetracycline; two isolates were also resistant to ampicillin and trimethoprim-sulfamethoxazole. An epidemiologic and laboratory investigation is under way in Mexico.
Reported by: J Sepulveda Amor, Director General de Epidemiologia, Secretaria de Salud, Mexico. Enteric Diseases Br, Div of Bacterial Diseases, Center for Infectious Diseases, CDC.
Editorial Note: The antimicrobial agents often taken prophylactically and therapeutically by travelers-trimethoprim-sulfamethoxazole and tetracycline-may be ineffective against the $S$. dysenteriae type 1 strains for which sensitivity data are available. Physicians should consider this diagnosis in persons with severe or bloody diarrheal illness who have recently returned from Mexico, obtain appropriate cultures, and report suspected cases of $S$. dysenteriae to local and state public health authorities. Laboratories are requested to send isolates of $S$. dysenteriae to appropriate public health laboratories for serotyping. Travelers to Cancun and other regions with recognized risk for travelers' diarrhea should follow CDC's recommendations for international travel (1).
Reference

1. CDC. Health information for international travel, 1988. Atlanta: US Department of Health and Human Services, Public Health Service, 1988; HHS publication no. (CDC)88-8280.

## Current Trends

## Influenza - United States, 1986-87 Season

The 1986-87 influenza epidemic was caused by influenza $A(H 1 N 1)$ viruses resembling A/Taiwan/1/86(H1N1), a variant first isolated in China, Malaysia, Japan, and Singapore during January-April 1986 (1). The 1986-87 season was the third season during which influenza A(H1N1) strains predominated in the United States since this subtype reappeared in 1977 (2).

National data on influenza activity were obtained from four major sources:

1. State morbidity reports. Each week, state and territorial epidemiologists estimated the extent of influenza-like activity indicated by surveillance systems in their state or territory by using the following categories: no cases, sporadically occurring cases, regional outbreaks (occurring in counties collectively constituting $<50 \%$ of the state's population), or widespread outbreaks (occurring in counties collectively constituting $\geqslant 50 \%$ of the state's population).
2. Sentinel physician surveillance network. CDC received weekly reports from 138 physician members of the American Academy of Family Physicians who recorded the number of patient visits for influenza-like illnesses. Reports were based on a clinical case definition, but some physicians submitted specimens to a central laboratory for diagnosis by rapid culture confirmation of influenza virus (3).
3. Mortality in 121 cities. Death certificate data listing pneumonia or influenza (P\&I) as a cause of death were reported from 121 cities weekly and analyzed to determine if the percentage of deaths attributed to P\&I was higher than would be expected in the absence of an influenza epidemic. This index has historically reflected seasonal influenza-attributable mortality (4).
4. World Health Organization (WHO) collaborating laboratories. Sixty-four WHO collaborating laboratories provided weekly reports of the number of respiratory specimens submitted for virus isolation and the number and types of influenza isolates identified. The WHO collaborating laboratories included state public health laboratories in 47 states and the District of Columbia as well as several county, city, and university laboratories.
In addition to the methods described above, CDC received reports from military laboratories and Veterans Administration hospitals and reports of outbreaks and unusual influenza cases from a variety of sources.

Most of the outbreaks reported to CDC during the 1986-87 season occurred among children and young adults. Only one nursing home outbreak was reported, suggesting that outbreaks among the elderly were uncommon (5). This observation is consistent with other recent $A(H 1 N 1)$ epidemics. However, this was the first $A(H 1 N 1)$ epidemic since this subtype reappeared that was associated with excess P\&I deaths reported through the 121 cities.

Sporadic cases of influenza A(H1N1) occurred in Hawaii in June and August 1986 but were not identified in the contiguous United States until late September (6). The first reported U.S. outbreak occurred in October at a military facility in Florida (7). Communitywide activity also involved other regions of the United States in late 1986. Sentinel physicians reported a peak in outpatient visits for influenza-like illness (Figure 1) from mid-December 1986 through January 1987. State epidemiologists in 42 states and the District of Columbia reported regional or widespread outbreaks,

## Influenza - Continued

FIGURE 1. Indicators of influenza activity, by week - United States, October 1986-May 1987



*Reported to CDC by 138 physician members of the American Academy of Family Physicians. A patient with a temperature $\geqslant 38.7 \mathrm{C}(100 \mathrm{~F})$ and at least cough or sore throat was considered to have influenza-like illness.
${ }^{\dagger}$ Reported to CDC by state and territorial epidemiologists who used the following categories: no cases, sporadically occurring cases, regional outbreaks (occurring in counties collectively constituting $<50 \%$ of the state's population), or widespread outbreaks (occurring in counties collectively constituting $\geqslant 50 \%$ of the state's population).
${ }^{5}$ Reported to CDC by 64 WHO collaborating laboratories (not including military laboratories).

Influenza - Continued
primarily in the northeast, west north central, mountain, and Pacific regions (Figure 2). Influenza activity reported by state epidemiologists also increased during December and peaked during January (Figure 1).

P\&l deaths slightly exceeded the epidemic threshold for 4 weeks from mid-January to mid-February and again during the first 2 weeks of March 1987 (Figure 3). Approximately $80 \%$ of these deaths occurred in persons 65 years of age or older.

Influenza $\mathbf{A}(\mathrm{H} 1 \mathrm{~N} 1)$ strains were reported from all 50 states and the District of Columbia. WHO collaborating laboratories in the United States reported 2222 influenza virus isolates. Influenza A(H1N1) viruses accounted for 2206 (99.3\%) of the isolates. Sentinel physicians reported an additional 33 A(H1N1) isolates. Ninety-five percent of virus isolates from WHO collaborating laboratories were reported during a 13-week period between November 30, 1986, and February 28, 1987 (Figure 1). Reports of virus isolation were most frequent from mid-December through January. Influenza type $A(H 3 N 2)$ and type B strains were rarely isolated.

Age group of patients was available for 1918 A(H1N1) isolates reported by WHO collaborating laboratories. Of these isolates, 1874 ( $97.7 \%$ ) were obtained from persons under 65 years of age (Table 1). More detailed information regarding ages of patients with laboratory diagnosis is available for 261 of the specimens submitted to the WHO Collaborating Center for Influenza (WHOCCI). Of these, 235 ( $90 \%$ ) were obtained from persons less than 36 years of age.

WHOCCI did antigenic analysis on 315 influenza $\mathrm{A}(\mathrm{H} 1 \mathrm{~N} 1)$ isolates collected in 42 states. Most were closely related to the reference strain A/Taiwan/1/86(H1N1). Of the nine influenza $A(H 3 N 2)$ isolates submitted to WHOCCl for antigenic analysis, four resembled A/Leningrad/360/86(H3N2), a newly recognized minor variant; the remaining five resembled previously identified strains. Four influenza $B$ isolates were submitted for antigenic analysis; one resembled B/Ann Arbor/1/86, and the other was a related variant.

FIGURE 2. Maximum level of influenza outbreak activity reported by state - United States, September 26, 1986-May 2, 1987


## Influenza - Continued

In contrast to most years, two influenza vaccines were manufactured for use during the 1986-87 season. The new A/Taiwan/1/86-like variants were detected relatively early, and viruses were submitted promptly from national influenza centers in Asia to the WHOCCIs in Atlanta and London; thus, July 1986 data supported the need to manufacture a monovalent A/Taiwan/1/86 vaccine ( 8 ). This vaccine was specifically recommended for high-risk persons less than 35 years of age to supplement the standard trivalent influenza vaccine (9). Approximately seven million doses of the monovalent vaccine were manufactured and distributed before the epidemic peaked in early 1987.

FIGURE 3. Pneumonia and influenza (P\&l) deaths as a percentage of total deaths* United States, July 1984-June 1987

*Reported to CDC from 121 U.S. cities. P\&I deaths include all deaths for which pneumonia is listed as a primary or underlying cause or for which influenza is listed on the death certificate. The predominant virus strain is shown above the peak of mortality for each epidemic season. The epidemic threshold for the 1986-87 influenza season was estimated at 1.645 standard deviations above the values projected on the basis of a periodic regression model applied to observed P\&I deaths for the previous 5 -year period but excluding the observations during influenza outbreaks.

TABLE 1. Specimens tested and influenza type A(H1N1) viruses isolated by age group as reported to CDC by WHO collaborating laboratories - United States, October 1986-May 1987

| $\begin{gathered} \text { Age group* } \\ \text { (yrs) } \\ \hline \end{gathered}$ | Specimens tested |  | Type A(H1N1) |  | Percent specimens positive |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | No. | (\%) | No. | (\%) |  |
| <20 | 10,495 | (59.4) | 941 | (49.1) | 9.0 |
| 20-64 | 6,178 | (35.0) | 933 | (48.6) | 15.1 |
| >64 | 983 | (5.6) | 44 | (2.3) | 4.5 |
| Total | 17,656 | (100.0) | 1,918 | (100.0) | 10.9 |

[^0]Influenza - Continued
Reported by: Participating State and Territorial Epidemiologists and State Laboratory Directors. Sentinel Physicians of the American Academy of Family Physicians. WHO Collaborating Laboratories. Participating Veterans Administration Hospitals. Letterman Army Medical Center, San Francisco, California. Hackensack Hospital, Hackensack, New Jersey. Strong Memorial Hospital, Rochester, New York. Vanderbilt Univ, Nashville, Tennessee. Influenza Research Center, Baylor College of Medicine, Houston; 5th Army Medical Laboratory, Fort Sam Houston; USAF School of Aerospace Medicine, Epidemiology Div, Brooks AFB, Texas. Statistical Svcs Br, Div of Surveillance and Epidemiologic Studies, Epidemiology Program Office; Div of Immunization, Center for Prevention Svcs; WHO Collaborating Center for Influenza, Influenza Br, Div of Viral Diseases, Center for Infectious Diseases, CDC.
Editorial Note: The 1986-87 influenza season illustrated the ability of a new strain of influenza to rapidly spread after appearing in Asia. In January 1986, influenza A(H1N1) variants related to A/Taiwan/1/86 first appeared in Northern China. During April and May, unusually high levels of epidemic activity were reported from Malaysia and Singapore. At the same time, similar viruses were isolated in Japan and Taiwan, where the 1985-86 winter epidemic was ending. Outbreaks were reported in some Pacific Island nations during June and July. In the United States, activity peaked rapidly during December and January and declined in February.
(Continued on page 475)
TABLE I. Summary - cases of specified notifiable diseases, United States

| Disease | 31st Week Ending |  |  | Cumulative, 31st Week Ending |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \text { Aug. 6, } \\ 1988 \\ \hline \end{gathered}$ | $\begin{gathered} \text { Aug. 8, } \\ 1987 \\ \hline \end{gathered}$ | $\begin{gathered} \text { Median } \\ 1983-1987 \end{gathered}$ | $\begin{gathered} \text { Aug. 6, } \\ 1988 \\ \hline \end{gathered}$ | $\begin{gathered} \text { Aug. 8, } \\ 1987 \\ \hline \end{gathered}$ | $\begin{gathered} \text { Median } \\ 1983-1987 \end{gathered}$ |
| Acquired Immunodeficiency Syndrome (AIDS) | 853 | U* | 187 | 18,824 | $11,326$ | $4,466$ |
| Aseptic meningitis | 108 | 424 | 359 | 2,747 | $4,678$ | $4,006$ |
| Encephalitis: Primary (arthropod-borne \& unspec) Post-infectious | 17 | 29 | 29 | 414 | 598 72 | 590 72 |
| Gonorrhea: Civilian | 13,150 | 14,845 | 17,992 | 401,798 | 464,683 | 512,677 |
| Military | 181 | 230 | 403 | 7,196 | 9,754 | 12,500 |
| Hepatitis: Type A | 470 | 474 | 471 | 14,307 | 14,730 | 12,836 |
| Type B | 391 | 461 | 619 | 12,928 | 15,333 | 14,990 |
| Non A, Non B | 54 | 54 | 75 | 1,512 | 1,903 | 2,162 |
| Unspecified | 32 | 43 | 116 | 1,242 | 1,861 | 2,868 |
| Legionellosis | 14 | 21 | 15 | 492 | , 555 | 2,860 |
| Leprosy | 3 | 7 | 6 | 99 | 119 | 152 |
| Malaria ${ }^{+}$ | 22 | 20 | 22 | 469 | 491 | 514 |
| Measles: Total ${ }^{\dagger}$ | 153 | 92 | 47 | 1,952 | 3,132 | 2,161 |
| Indigenous | 141 | 74 | 44 | 1,750 | 2,764 | 1,904 |
| Imported | 12 | 18 | 9 | 202 | +368 | . 254 |
| Meningococcal infections | 31 | 37 | 37 | 1,926 | 1,949 | 1,858 |
| Mumps | 62 | 63 | 35 | 3,243 | 9,902 | 2,310 |
| Pertussis | 45 | 97 | 94 | 1,277 | 1,195 | 1,257 |
| Rubella (German measles) | 78 | 1 | 7 | 2135 | 265 | + 453 |
| Syphilis (Primary \& Secondary): Civilian | 780 | 597 | 593 | 22,665 | 20,294 | 16,439 |
| Military | 3 | 8 | 6 | 103 | 100 | 113 |
| Toxic Shock syndrome | 7 363 | 7 454 | $\begin{array}{r}7 \\ \hline\end{array}$ | 188 | , 187 | 2334 |
| Tuberculosis Tularemia | 363 | 454 | 445 | 11,894 | 12,427 | 12,513 |
| Tularemia <br> Typhoid Fever | 6 4 | 8 2 | 8 | 107 197 | 117 177 | 117 189 |
| Typhus fever, tick-borne (RMSF) | 4 30 | 20 | 8 28 | 197 366 | 177 365 | 189 |
| Rabies, animal | 86 | 82 | 105 | 2,514 | 2,948 | 3,144 |

TABLE II. Notifiable diseases of low frequency, United States

|  | Cum. 1988 | Leptospirosis (Hawaii 1) <br> Plague (Calif. 1; Colo. 1) <br> Poliomyelitis, Paralytic <br> Psittacosis (Colo. 1) | Cum. 1988 <br> 19 |
| :---: | :---: | :---: | :---: |
| AnthraxBotulism:laodborneInfant (Utah 1)Other |  |  |  |
|  | 15 |  | 6 |
|  | 22 |  |  |
|  | 3 |  | 50 |
| Brucellosis | 37 | Rabies, human |  |
| Cholera |  | Tetanus (Minn. 1) | 27 |
| Congenital rubella syndrome Congenital syphilis, ages $<1$ year | 171 | Trichinosis | 38 |
| Congenital syphilis, ages < 1 year Diphtheria | 171 |  |  |

[^1]TABLE III. Cases of specified notifiable diseases, United States, weeks ending August 6, 1988 and August 8, 1987 (31st Week)

| Reporting Area | AIDS | Aseptic Meningitis | Encephalitis |  | Gonorrhea (Civilian) |  | Hepatitis (Viral), by type |  |  |  | Legionellosis | Leprosy |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Primary | Post-infectious |  |  | A | B | NA,NB | Unspecified |  |  |
|  | Cum. <br> 1988 | $\begin{aligned} & \hline \text { Cum. } \\ & 1988 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1988 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1988 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1988 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1987 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1988 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1988 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1988 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1988 \\ & \hline \end{aligned}$ | $\begin{aligned} & \text { Cum. } \\ & 1988 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & \hline 1988 \end{aligned}$ |
| UNITED STATES | 18,824 | 2,747 | 414 | 69 | 401,798 | 464,683 | 14,307 | 12,928 | 1,512 | 1,242 | 492 | 99 |
| NEW ENGLAND | 765 | 131 | 17 | 2 | 12,283 | 14,307 | 530 | 754 | 93 | 67 | 21 | 13 |
| Maine | 23 | 8 | 1 | - | 238 | 418 | 14 | 32 | 3 | 1 | 2 | - |
| N.H. | 19 | 18 | 1 | 1 | 158 | 238 | 33 | 43 | 7 | 3 | 2 | - |
| Vt . | 9 | 8 | 5 | - | 85 | 125 | 8 | 21 | 5 | 2 | 1 | - |
| Mass. | 397 | 51 | 7 | 1 | 4,320 | 5,174 | 254 | 466 | 62 | 48 | 13 | 12 |
| R.I. | 48 | 30 | - | - | 1,052 | 1,199 | 58 | 63 | 9 | - | 3 | 1 |
| Conn. | 269 | 16 | 3 | - | 6,430 | 7,153 | 163 | 129 | 7 | 13 | - | - |
| MID. ATLANTIC | 6,319 | 245 | 38 | 4 | 60,238 | 76,108 | 897 | 1,716 | 93 | 140 | 120 | 8 |
| Upstate N.Y. | 811 | 141 | 26 | 1 | 8,398 | 10,315 | 467 | 450 | 41 | 14 | 52 | - |
| N.Y. City | 3,428 | 57 | 7 | 3 | 25,403 | 40,165 | 175 | 768 | 10 | 98 | 19 | 7 |
| N.J. | 1,550 | 47 | 5 | - | 8,886 | 9,636 | 145 | 375 | 32 | 26 | 20 | 1 |
| Pa. | 530 | - | - | - | 17,551 | 15,992 | 110 | 123 | 10 | 2 | 29 | - |
| E.N. CENTRAL | 1,404 | 369 | 101 | 9 | 64,793 | 68,420 | 928 | 1,381 | 127 | 68 | 105 | 1 |
| Ohio | 305 | 122 | 28 | 2 | 15,065 | 15,239 | 208 | 336 | 22 | 10 | 44 | . |
| Ind. | 80 | 39 | 12 | 7 | 5,134 | 5,524 | 78 | 185 | 11 | 19 | 8 | - |
| III. | 672 | 62 | 24 | 7 | 19,036 | 20,886 | 270 | 271 | 46 | 16 | - | - |
| Mich. | 280 | 125 | 26 | - | 20,729 | 20,560 | 226 | 431 | 29 | 20 | 42 | - |
| Wis. | 67 | 21 | 11 | - | 4,829 | 6,211 | 146 | 158 | 19 | 3 | 11 | 1 |
| W.N. CENTRAL | 428 | 120 | 25 | 5 | 16,430 | 18,628 | 840 | 617 | 70 | 23 | 53 | 1 |
| Minn. | 88 | 23 | 2 | 2 | 2,282 | 2,908 | 68 | 84 | 14 | 3 | 2 | - |
| lowa | 23 | 19 | 8 | - | 1,255 | 1,839 | 34 | 60 | 11 | 1 | 13 | - |
| Mo. | 223 | 42 | 1 | - | 9,335 | 9,823 | 481 | 364 | 31 | 12 | 11 | - |
| N. Dak. | 3 |  | 4 | - | 95 | 179 | 4 | 6 | 2 | 4 | 1 | - |
| S. Dak. | 5 | 10 | 1 | 1 | 321 | 346 | 6 | 3 | 2 | - | 14 | - |
| Nebr. | 25 | 5 | 4 | 2 | 956 | 1,159 | 42 | 33 | 1 | - | 5 | - |
| Kans. | 61 | 21 | 5 | . | 2,186 | 2,374 | 205 | 67 | 9 | 3 | 7 | 1 |
| S. ATLANTIC | 3,190 | 654 | 61 | 26 | 117,935 | 121,737 | 1,265 | 2,681 | 226 | 177 | 89 | 1 |
| Del. | 3, 36 | 13 | 2 | 3 | 1,730 | 1,937 | 24 | 79 | 6 | 1 | 7 |  |
| Md. | 358 | 72 | 5 | 3 | 11,583 | 13,531 | 176 | 409 | 21 | 12 | 13 | 1 |
| D.C. | 314 | 13 | 1 | 1 | 8,352 | 8,113 | 11 | 28 | 3 | 1 | - | - |
| Va. | 225 | 69 | 22 | 3 | 8,075 | 8,819 | 260 | 202 | 51 | 112 | 6 | - |
| W. Va. | 10 | 11 | 6 | . | 836 | 921 | 9 | 35 | 2 | 3 | - | - |
| N.C. | 173 | 84 | 16 | - | 18,414 | 18,479 | 199 | 480 | 54 | - | 26 | - |
| S.C. | 105 | 11 |  | 1 | 10,027 | 10,047 | 30 | 327 | 8 | 5 | 13 | - |
| Ga. | 455 | 76 | 1 | - | 22,170 | 21,226 | 248 | 390 | 8 | 3 | 12 | - |
| Fla. | 1,514 | 305 | 8 | 18 | 36,748 | 38,664 | 308 | 731 | 73 | 40 | 12 | - |
| E.S. CENTRAL | 458 | 196 | 31 | 6 | 31,555 | 35,017 | 418 | 781 | 109 | 7 | 22 | 1 |
| $K y .$ | 57 | 57 | 10 | 1 | 3,059 | 3,517 | 347 | 139 | 38 | 2 | 9 | - |
| Tenn. | 210 | 16 | 6 | - | 10,680 | 12,117 | 45 | 389 | 27 | 2 | 6. | - |
| Ala. | 121 | 98 | 15 | 2 | 9,964 | 11,395 | 10 | 201 | 36 | 5 | 4 | 1 |
| Miss. | 70 | 25 | - | 3 | 7,852 | 7,988 | 16 | 52 | 8 | - | 3 | - |
| W.S. CENTRAL | 1,591 | 342 | 47 | 2 | 44,847 | 52,231 | 1,634 | 1,072 | 114 | 309 | 14 | 19 |
| Ark. | 1,54 | 5 | 2 | - | 4,398 | 5,797 | 188 | 62 | 17 | 10 | 3 |  |
| La. | 204 | 52 | 14 | - | 9,053 | 9,399 | 82 | 199 | 17 | 10 | 4 | 1 |
| Okla. | 83 | 31 | 4 | 2 | 4,103 | 5,752 | 304 | 112 | 28 | 20 | 7 | 8 |
| Tex. | 1,250 | 254 | 27 | 2 | 27,293 | 31,283 | 1,060 | 699 | 68 | 269 | - | 18 |
| MOUNTAIN | 546 | 107 | 21 | 2 | 8,867 | 12,225 | 2,014 | 1,007 | 162 | 110 | 28 | 1 |
| Mont. | 9 | 2 | - | - | 282 | 333 | 25 | 34 | 9 | 3 | . | - |
| Idaho | 7 | 1 | - | - | 226 | 433 | 101 | 70 | 5 | 3 |  | - |
| Wyo. | 3 | 1 | 3 | - | 130 | 276 2 | 4 139 | 10 | 3 | $\stackrel{-}{-}$ | 2 | - |
| Colo. | 202 | 41 | 3 | - | 2,012 | 2,682 | 139 | 124 | 45 | 55 | 7 | 1 |
| N. Mex. | 26 | 6 | 2 | - | 822 | 1,329 | +376 | 148 | 12 | 1 | 1 | - |
| Ariz. | 169 | 34 | 7 | 1 | 3,187 | 4,232 | 1,015 | 390 | 48 | 30 | 12 | - |
| Utah | 45 | 13 | 4 | 1 | , 344 | $\begin{array}{r}383 \\ \hline\end{array}$ | 217 | 88 | 28 | 14 | 3 | - |
| Nev. | 85 | 9 | 5 | - | 1,864 | 2,557 | 137 | 143 | 12 | 4 | 3 | - |
| PACIFIC | 4,123 | 583 | 73 | 13 | 44,850 | 66,010 | 5,781 | 2,919 | 518 | 341 | 40 | 54 |
| Wash. | 246 | . | 5 | 4 | 3,779 | 5,094 | 1,294 | 474 | 111 | 37 | 13 | 3 |
| Oreg. | 129 | $51{ }^{\circ}$ | 65 | 9 | 1,898 | 2,474 | 867 | 359 | 50 | 14 | 24 | 1 |
| Calif. | 3,666 | 516 | 65 | 9 | 38,183 | 56,921 | 3,369 | 2,019 | 348 | 281 | 24 | 42 |
| Alaska | 14 | 13 | 2 | - | 615 375 | 987 | 244 | 36 | 5 | 5 | 3 | 1 |
| Hawaii | 68 | 54 | 1 | - | 375 | 534 | 7 | 31 | 4 | 4 | 3 | 7 |
| Guam | 1 | $\bigcirc$ | 2 | 1 | 86 | $\begin{array}{r}135 \\ \hline 1260\end{array}$ | 5 | $\begin{array}{r}7 \\ \hline\end{array}$ | 26 | 2 | 1 | 3 |
| P.R. | 769 | 23 | 2 | 1 | 789 | 1,260 | 27 | 153 | 26 | 27 | - | 3 |
| V.I. | 25 | - | - | - | 218 | 153 | 1 | 5 | 2 | 4 | - |  |
| Amer. Samoa | - | - | - | - | 45 27 | 45 | 1 | 2 | - | 4 | - | 2 |
| C.N.M.I. | - | - | - | - | 27 | - | 1 | 2 | - | 4 | - | - |

TABLE III. (Cont'd.) Cases of specified notifiable diseases, United States, weeks ending August 6, 1988 and August 8, 1987 (31st Week)

| Reporting Area | Malaria | Measles (Rubeola) |  |  |  |  | Meningococcal Infections | Mumps |  | Pertussis |  |  | Rubella |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Indigenous |  | Imported* |  | Total <br> Cum. <br> 1987 |  |  |  |  |  |  |  |  |  |
|  | $\begin{aligned} & \hline \text { Cum. } \\ & 1988 \end{aligned}$ | 1988 | $\begin{aligned} & \hline \text { Cum. } \\ & 1988 \\ & \hline \end{aligned}$ | 1988 | $\begin{aligned} & \hline \text { Cum. } \\ & 1988 \end{aligned}$ |  | $\begin{aligned} & \hline \text { Cum. } \\ & 1988 \end{aligned}$ | 1988 | $\begin{aligned} & \hline \text { Cum. } \\ & 1988 \\ & \hline \end{aligned}$ | 1988 | $\begin{aligned} & \hline \text { Cum. } \\ & 1988 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1987 \end{aligned}$ | 1988 | $\begin{aligned} & \text { Cum. } \\ & 1988 \end{aligned}$ | $\begin{aligned} & \text { Cum. } \\ & 1987 \end{aligned}$ |
| UNITED STATES | 469 | 141 | 1,750 | 12 | 202 | 3,132 | 1,926 | 62 | 3,243 | 45 | 1,277 | 1,195 | 2 | 135 | 265 |
| NEW ENGLAND | 38 | - | 80 | - | 50 | 250 | 163 | - | 102 | 2 | 107 | 58 | - | 2 | 1 |
| Maine | 2 | - | 7 | - | - | 3 | 7 | - | - | . | 11 | 6 | - | . | 1 |
| N.H. | 1 | - | 66 | - | 44 | 151 | 17 | - | 94 | - | 33 | 12 | - | - | - |
| Vt . | 2 | - | - | - | - | 26 | 10 | - | 2 | - | 2 | 4 | - | - | - |
| Mass. | 20 | . | 1 | - | 2 | 48 | 75 | - | 6 | 2 | 45 | 23 | - | 1 | - |
| R.I. | 5 | - | - | - | - | 2 | 21 | - | - | - | 4 | 1 | - | 1 | - |
| Conn. | 8 | - | 6 | - | 4 | 20 | 33 | - | - | - | 12 | 12 | - | - | - |
| MID. ATLANTIC | 66 | 101 | 721 | 11 | 39 | 545 | 184 | - | 267 | 6 | 71 | 141 | - | 12 | 11 |
| Upstate N.Y. | 22 | - | 15 | 115 | 16 | 38 | 90 | - | 72 | 2 | 41 | 104 | - | 2 | 9 |
| N.Y. City | 33 | - | 39 | - | 2 | 434 | 48 | - | 92 | 2 | 1 | 104 | . | 7 | 1 |
| N.J. | 5 | 100 | 177 | - | 11 | 35 | 45 | - | 31 | - | 4 | 7 | - | 1 | 1 |
| Pa. | 6 | 1 | 490 | - | 10 | 38 | 1 | - | 72 | 4 | 25 | 30 | - | 2 | - |
| E.N. CENTRAL | 28 | 2 | 131 | - | 44 | 295 | 260 | 1 | 658 | 1 | 118 | 145 | - | 23 | 31 |
| Ohio | 4 | - | 2 | - | 21 | 5 | 87 | - | 97 | - | 25 | 39 | - | . | 1 |
| Ind. | 2 | - | 56 | - | , | - | 21 | 1 | 64 | - | 55 | 6 | - | $\stackrel{-}{-}$ | - |
| III. | 1 | 2 | 55 | - | 15 | 124 | 55 | - | 239 | - | 2 | 13 | - | 19 | 22 |
| Mich. | 19 | - | 18 | - | 5 | 29 | 60 | - | 173 | 1 | 24 | 30 | - | 4 | 9 |
| Wis. | 2 | - | - | - | 3 | 137 | 37 | $\bullet$ | 85 | - | 12 | 57 | - |  |  |
| W.N. CENTRAL | 13 | - | 11 | 1 | 1 | 223 | 73 | - | 116 | 10 | 82 | 70 | - | - | 1 |
| Minn. | 5 | - | 10 | $1 \dagger$ | 1 | 38 | 16 | - | - | 8 | 37 | 10 | - | . | - |
| lows | 1 | - | - | - | - | - | - | - | 31 | - | 19 | 16 | - | - | 1 |
| Mo. | 3 | $\bullet$ | 1 | - | - | 183 | 25 | - | 30 | 1 | 11 | 23 | - | - | . |
| N. Dak. | - | - | - | - | - | 1 | - | - | - | - | 7 | 5 | - | - | - |
| S. Dak. | - | - | - | - | - | - | 3 | - | 1 | 1 | 4 | 3 | - | . | - |
| Nebr. | 1 | - | - | - | - | - | 10 | - | 11 | . | - | 1 | - | - | . |
| Kans. | 3 | - | - | - | - | 1 | 19 | - | 43 | - | 4 | 12 | - . | - | - |
| S. ATLANTIC | 66 | 19 | 263 | - | 12 | 126 | 339 | 34 | 524 | 2 | 146 | 208 | - | 16 | 13 |
| Del. | - | - | - | - | - | 32 | 2 | - | - | . | 4 | 5 | - | 16 | 2 |
| Md. | 9 | - | 9 | - | 2 | 5 | 37 | 9 | 95 | - | 26 | 6 | - | 1 | 2 |
| D.C. | 9 | - | - | - | - | 1 | 7 | 25 | 200 | - |  | - | - | , | 2 |
| Va . | 10 | - | 141 | - | 2 | 1 | 38 |  | 132 | - | 27 | 42 | - | 11 | 1 |
| W. Va. | - | - | 6 | - | - | - | 4 | - | 8 | - | 4 | 33 | - | - | . |
| N.C. | 11 | - | . | - | 1 | 4 | 59 | - | 38 | - | 37 | 83 | - | - | 1 |
| S.C. | 7 | - | - | - | - | 2 | 33 | - | 4 | - | 1 |  | - | - | . |
| Ga. | 4 | - | $\cdots$ | - | - | 1 | 47 | - | 25 | 1 | 21 | 21 | . | 1 | 1 |
| Fla. | 16 | 19 | 107 | - | 7 | 80 | 112 | - | 22 | 1 | 26 | 18 | - | 3 | 6 |
| E.S. CENTRAL | 7 | 3 | 51 | - | - | 2 | 179 | 5 | 381 | 2 | 34 | 24 | - | - | 3 |
| Ky. | - | - | 35 | - | - | - | 39 |  | 174 | 2 | 6 | 1 | - | . | 2 |
| Tenn. | - | - | - | - | - | - | 104 | 5 | 194 | 2 | 15 | 6 | - | - | 1 |
| Ala. | 4 | - | - | - | - | - | 25 |  | 10 | 2 | 12 | 12 | - | - | 1 |
| Miss. | 3 | 3 | 16 | - | - | 2 | 11 | N | N | - | 1 | 5 | - | - | - |
| W.S. CENTRAL | 48 | - | 11 | - | 3 | 398 | 126 | 13 | 633 | 2 | 74 | 107 | - | 7 | 10 |
| Ark. | 1 | - | 1 | - | 1 | 898 | 17 |  | 79 | 1 | 8 | 8 | - | 3 | 2 |
| La. | 8 | - | $\stackrel{\circ}{\circ}$ | - | - | - | 37 | 8 | 242 | - | 11 | 26 | - |  | 2 |
| Okla. | 7 | - | 8 | - | - | 3 | 13 | 5 | 173 | 1 | 28 | 73 | - | 1 | 5 |
| Tex. | 32 | - | 3 | - | 2 | 395 | 59 | - | 139 | - | 27 |  | - | 3 | 3 |
| MOUNTAIN | 22 | - | 116 | - | 18 | 491 | 57 | - | 149 | 13 | 393 | 113 | - | 5 | 22 |
| Mont. | 4 | - | 116 | - | 16 | 128 | 2 | - | 2 | - | 1 | $\begin{array}{r}113 \\ \hline\end{array}$ | - | 5 | 6 |
| Idaho | - | - | - | - | 1 | 12 | 7 | - | 2 | 2 | 251 | 33 | - | . | 1 |
| Wyo. | - | - | - | - | , | 2 | - | - | 2 | 2 | 1 | 5 | - | - | 1 |
| Colo. | 9 | - | 116 | - | 1 | 9 | 14 | - | 28 | - | 14 | 37 | - | 1 |  |
| N. Mex. | 1 | - | . | - | - | 317 | 10 | N | N | 1 | 12 | 8 | - | 1 | - |
| Ariz. | 5 | - | - | - | - | 31 | 14 | N | 101 | 10 | 93 | 23 | , | - | 4 |
| Utah | 2 | - | - | - | - | 1 | 9 | - | 3 | 10 | 20 | 1 | - | 3 | 10 |
| Nev. | 1 | - | - | - | - | 3 | 1 | - | 11 | - | 1 | 1 | - | 1 | 10 |
| PACIFIC | 181 | 16 | 366 | - | 35 | 802 | 545 | 9 | 413 | 7 | 252 | 329 | 2 | 70 | 173 |
| Wash. | 12 | - | 2 | - | . | 38 | 48 | - | 38 | 3 | 54 | 52 | . | 70 | 1 |
| Oreg. | 11 | 6 | 3 | - | - | 74 | 30 | N | N | 3 | 15 | 42 | - | - | 2 |
| Calif. | 152 | 16 | 359 | - | 29 | 686 | 446 | 8 | 345 | 4 | 133 | 118 | 2 | 52 | 109 |
| Alaska Hawaii | 2 | - | 2 | - | 6 | 4 | - 6 | 1 | 8 | 4 | 5 | 5 | 2 | 52 | 109 2 |
| Hawaii | 4 | - | 2 | - | 6 | 4 | 15 |  | 11 | $\bullet$ | 45 | 112 | - | 18 | 59 |
| Guam | 1 | - | 1 | - | 1 | 2 | - | - | 2 | - | - |  | - |  |  |
| P.R. | 1 | - | 191 | - | 1 | 705 | 8 | - | 6 | $\stackrel{-}{-}$ | 9 | 14 | $\bullet$ | 1 |  |
| V.l. | - | - | , | - | . |  | 8 | - | 14 | - | 9 | 14 | - | 1 | 2 |
| Amer. Samoa | - | - | - | - | - | - | 2 | - | 14 3 | - | - | - | $\cdot$ | - | - |
| C.N.M.I. | 1 | - | - | - | - | - | 1 | - | 1 | - | - | - | - | - | $\stackrel{-}{-}$ |

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

TABLE III. (Cont'd.) Cases of specified notifiable diseases, United States, weeks ending August 6, 1988 and August 8, 1987 (31st Week)

| Reporting Area | Syphilis (Civilian) (Primary \& Secondary) |  | Toxicshock Syndrome | Tuberculosis |  | $\begin{gathered} \text { Tula- } \\ \text { remia } \end{gathered}$ | Typhoid <br> Fever <br> Cum. <br> 1988 | Typhus Fever <br> (Tick-borne) <br> (RMSF) <br> Cum. <br> 1988 | Rabies, Animal |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Cum. <br> 1988 | $\begin{aligned} & \hline \text { Cum. } \\ & 1987 \end{aligned}$ | $\begin{aligned} & \text { Cum. } \\ & 1988 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1988 \end{aligned}$ | $\begin{aligned} & \text { Cum. } \\ & 1987 \end{aligned}$ |  |  |  |  |
| UNITED STATES | 22,665 | 20,294 | 188 | 11,894 | 12,427 | 107 | 197 | 366 | 2,514 |
| NEW ENGLAND | 640 | 328 | 16 | 301 | 394 | 2 | 16 | 8 | 10 |
| Maine | 9 | 1 | 3 | 17 | 17 | - | - | - | 1 |
| N.H. | 6 | 3 | 3 | 6 | 12 | - | - | - | 3 |
| Vt. | 2 | 1 | 2 | 2 | 9 | - | 1 | - | - |
| Mass. | 255 | 158 | 8 | 177 | 219 | 1 | 11 | 4 | - |
| R.I. | 19 | 8 | - | 26 | 30 | - | - | 2 | - |
| Conn. | 349 | 157 | - | 73 | 107 | 1 | 4 | 2 | 6 |
| MID. ATLANTIC | 4,555 | 3,874 | 28 | 2,164 | 2,109 | - | 37 | 15 | 320 |
| Upstate N.Y. | 304 | 140 | 13 | 317 | 314 | - | 5 | 8 | 17 |
| N.Y. City | 2,911 | 2,800 | 5 | 1,067 | 997 | - | 21 | 5 | - |
| N.J. | 538 | 414 | 3 | 375 | 376 | - | 11 | - | 8 |
| Pa. | 802 | 520 | 7 | 405 | 422 | - | - | 2 | 295 |
| E.N. CENTRAL | 670 | 545 | 30 | 1,333 | 1,445 | 1 | 23 | 27 | 85 |
| Ohio | 65 | 67 | 21 | 258 | 272 | - | 5 | 22 | 3 |
| Ind. | 36 | 36 | 1 | 140 | 143 | - | 2 | - | 17 |
| III. | 321 | 294 | 1 | 547 | 625 | - | 11 | 2 | 16 |
| Mich. | 230 | 107 | 8 | 326 | 341 | 1 | 4 | 2 | 22 |
| Wis. | 18 | 41 | - | 62 | 64 | - | 1 | 1 | 27 |
| W.N. CENTRAL | 140 | 91 | 21 | 309 | 379 | 53 | 4 | 54 | 309 |
| Minn. | 14 | 12 | 3 | 50 | 78 | 3 | 2 | 2 | 92 |
| lows | 16 | 14 | 4 | 28 | 24 | 33 | - | - | 13 |
| Mo. | 82 | 46 | 7 | 159 | 206 | 33 | 2 | 31 | 12 |
| N. Dak. | 1 |  | 2 | 5 | 6 | - | . | 7 | 63 |
| S. Dak. | - | 8 | 1 | 22 | 21 | 13 | - | 7 | 95 |
| Nebr. | 21 | 7 | 2 | 9 | 15 | 2 | - | 1 | 10 |
| Kans. | 6 | 4 | 2 | 36 | 29 | 2 | $\bullet$ | 13 | 24 |
| S. ATLANTIC | 8,347 | 6,997 | 15 | 2,592 | 2,700 | 4 | 22 | 120 | 816 |
| Del. | 68 | 47 | 1 | 22 | 30 | 1 | i |  | 35 |
| Md. | 463 | 357 | 2 | 266 | 242 | - | 1 | 19 | 205 |
| D.C. | 404 | 209 | - | 116 | 84 | $\bar{\square}$ | 1 | 12 | 4 |
| Va . | 251 | 178 | - | 239 | 270 | 2 | 8 | 12 | 228 |
| W. Va. | 7 | 6 | 7 | 50 | 71 | . | - | 2 | 64 |
| N.C. | 476 | 390 | 7 | 233 | 286 | - | 1 | 59 | 4 |
| S.C. | 463 | 468 | 2 | 287 | 265 | $i$ | - | 14 | 53 |
| Ga. | 1,359 | 956 | 3 | 416 | 467 | 1 | 2 | 9 | 164 |
| Fla. | 4,856 | 4,386 | 3 | 963 | 985 | - | 9 | 5 | 59 |
| E.S. CENTRAL | 1,159 | 1,103 | 14 | 979 | 1,090 |  |  | 47 | 184 |
| Ky. | 40 | 10 | 7 | 238 | 260 | 4 | 1 | 15 | 71 |
| Tenn. | 501 | 448 | 4 | 267 | 317 | 2 | 1 | 23 | 55 |
| Ala. | 340 | 281 | 3 | 301 | 325 | - | 1 | 5 | 56 |
| Miss. | 278 | 364 | - | 173 | 188 | 1 | 1 | 4 | 2 |
| W.S. CENTRAL | 2,548 | 2,517 | 17 | 1,540 | 1,427 | 28 | 7 | 83 | 340 |
| Ark. | 140 | 163 | 1 | 163 | 168 | 18 | 3 | 14 | 57 |
| La. | 496 | 425 | - | 190 | 144 | 0 | 3 | 1 | 3 |
| Okla. | 90 | 92 | 6 | 150 | 145 | 10 | - | 59 | 24 |
| Tex. | 1,822 | 1,837 | 10 | 1,037 | 970 | - | 4 | 9 | 256 |
| MOUNTAIN | 453 | 420 | 23 | 303 | 365 | 8 | 6 | 10 | 218 |
| Mont. | 3 | 8 | - | 5 | 9 | - | 1 | 6 | 140 |
| Idaho | 2 | 4 | 3 | 11 | 21 | 1 | - | 1 | 3 |
| Wyo. | 1 | 1 | 3 | 2 | 2 | 1 | - | 3 | 28 |
| Colo. | 72 | 73 | 3 | 27 | 91 | 5 | 3 | - | 11 |
| N. Mex. | 35 | 35 | - | 62 | 64 | 1 | 1 | - | 6 |
| Ariz. | 108 | 202 | 8 | 149 | 145 | - | 1 | - | 26 |
| Utah | 11 | 16 | 9 | 18 | 16 17 | 1 | - | - | 4 |
| Nev. | 221 | 81 | - | 29 | 17 | - | - | - | - |
| PACIFIC | 4,153 | 4,419 | 24 | 2,373 | 2,518 | 4 | 79 | 2 | 232 |
| Wash. | 98 | 77 | 3 | 124 | 153 | - | 5 | 1 | - |
| Oreg. | 178 | 161 | 1 | 87 | 62 | 2 | 6 | 1 | - |
| Calif. | 3,848 | 4,169 | 20 | 2,042 | 2,150 | 2 | 65 | 1 | 224 |
| Alaska | 8 | 3 | - | 25 | 32 | 2 | - | - | 8 |
| Hawaii | 21 | 9 | - | 95 | 121 | - | 3 | - | - |
| Guam | 3 | 2 | - | 8 | 25 | - | 4 | - | 40 |
| P.R. | 359 | 577 | - | 113 | 183 | - | 4 | - | 40 |
| V.I. | 1 | 4 | - | 4 | 2 | - | 1 | - | - |
| Amer. Samoa | , | - | - | 3 | 3 | - | 1 | - | - |
| C.N.M.I. | 1 | - | - | 12 | - | - | - | - | $\bullet$ |

[^2]TABLE IV. Deaths in 121 U.S. cities,* week ending August 6, 1988 (31st Week)

| Reporting Area | All Causes, By Age (Years) |  |  |  |  |  | $\left\|\begin{array}{l} \text { P\&l }{ }^{*} \\ \text { Total } \end{array}\right\|$ | Reporting Area | All Causes, By Age (Years) |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \text { All } \\ \text { Ages } \end{gathered}$ | $\geq 65$ | 45-64 | 25-44 | 1-24 | <1 |  |  | All Ages | $\geqslant 65$ | 45-64 | 25-44 | 1-24 | <1 |  |
| NEW ENGLAND | 613 165 | 408 | 115 33 | 51 16 | 22 | 17 | 31 | S. ATLANTIC | 1,391 | 832 | 317 | 148 | 45 | 48 | 49 |
| Boston, Mass. | 165 40 | 100 30 | 33 | 16 | 10 | 6 | 12 | Atlanta, Ga. | 151 | 85 85 | 40 | 23 | 3 | 48 | 49 |
| Cambridge, Mass. 5 | 19 | 15 | 5 3 | 1 | 1 | 2 | 2 | Baltimore, Md. | 366 | 220 | 85 | 40 | 8 | 13 | 20 |
| Fall River, Mass. | 35 | 26 | 8 | 1 |  | - | 2 | Charlotte, N.C. | 74 116 | 46 | 16 | 7 | 2 | 3 | 3 |
| Hartford, Conn. | 54 | 32 | 9 | 11 | 1 | 1 | 2 | Jacksonville, Fla. | 116 | 79 | 24 | 7 | 5 | 1 | 6 |
| Lowell, Mass. | 38 | 20 | 10 | 3 | 4 | 1 | 3 | Miami, Fla. | 108 | 55 | 29 | 16 | 5 | 3 | - |
| Lynn, Mass. | 14 | 10 | 4 |  | 4 | 1 | 1 | Norfolk, Va. | 64 | 36 | 14 | 6 | 1 | 7 | 3 |
| New Bedford, Mass. | 31 | 21 | 4 | 6 | - | - | 1 | Richmond, Va. | 72 | 39 | 17 | 8 | 3 | 5 | 5 |
| New Haven, Conn. | 38 | 23 | 5 | 4 | 1 | 5 | 1 | Savannah, Ga. | 52 | 29 | 17 | 3 | 3 |  |  |
| Providence, R.I. | 35 | 25 | 8 | 1 | 1 | 5 | 1 | St. Petersburg, Fla. | 81 | 62 | 8 | 3 | 4 | 4 | 1 |
| Somerville, Mass. | 6 | 3 | 1 | 1 | 1 | 1 |  | Tampa, Fla. | 62 | 40 | 11 | 4 | 2 | 4 | 5 |
| Springfield, Mass. | 50 | 36 | 10 | 3 | 1 | 1 | 4 | Washington, D.C. | 224 | 129 | 50 | 29 | 9 | 7 | 6 |
| Waterbury, Conn. | 32 | 25 | 6 | 3 | 1 |  | 2 | Wilmington, Del. | 21 | 12 | 6 | 2 |  | 1 |  |
| Worcester, Mass. | 56 | 42 | 9 | 2 | 2 | 1 | 2 | E.S. CENTRAL | 773 | 488 | 163 | 68 | 32 | 21 | 31 |
| MID. ATLANTIC | 2,481 | 1,584 | 497 | 266 | 85 | 47 | 111 | Birmingham, Ala. | 125 | 79 | 21 | 12 | 9 | 4 | 3 |
| Albany, N.Y. | 2,48 | 1,58 | 10 | 4 |  | 2 | 111 | Chattanooga, Tenn. | 73 | 51 | 12 | 6 | 4 | - | 1 |
| Allentown, Pa. | 12 | 9 | 3 | 4 |  | 2 | 1 | Knoxville, Tenn. | 66 | 43 | 14 | 4 | 2 | 3 | 3 |
| Buffalo, N.Y. | 94 | 55 | 23 | 10 | 3 | 3 | 9 | Louisville, Ky. | 75 | 43 | 19 | 4 | 3 | 6 | 5 |
| Camden, N.J. | 40 | 24 | - 9 | 4 | 3 | 3 | 9 | Memphis, Tenn. | 206 | 135 | 40 | 22 | 6 | 2 | 8 |
| Elizabeth, N.J. | 13 | 8 | 1 | 3 | 3 | - | 3 | Mobile, Ala. | 77 | 45 | 24 | 2 | 4 | 2 | 6 |
| Erie, Pa.t | 22 | 16 | 5 | 1 | - |  | 3 | Montgomery, Ala. | 39 | 24 | 8 | 3 | 2 | 2 | 2 |
| Jersey City, N.J. | 57 | 34 | 15 | 6 | - | 2 | 2 | Nashville, Tenn. | 112 | 68 | 25 | 15 | 2 | 2 | 3 |
| N.Y. City, N.Y. | 1,358 | 860 | 258 | 160 | 52 | 28 | 48 | W.S. CENTRAL | 1,494 | 895 | 330 | 171 | 52 | 46 | 62 |
| Newark, N.J. | 45 | 19 | 10 | 11 | 4 | 1 | 4 | Austin, Tex. | 37 | 27 | 6 | 4 | . | . | 1 |
| Paterson, N.J. | 26 | 21 | 2 | 1 | 1 | 1 | - | Baton Rouge, La. | 43 | 27 | 8 | 6 | 2 | - | 3 |
| Philadelphia, Pa. | 397 | 241 | 94 | 39 | 18 | 4 | 13 | Corpus Christi, Tex. | 38 | 27 | 9 | 2 | . | $\bullet$ | 3 |
| Pittsburgh, Pa. $\dagger$ | 20 | 13 | 6 | . | . | 1 |  | Dallas, Tex. | 188 | 94 | 43 | 29 | 13 | 9 | 6 |
| Reading, Pa. | 33 | 26 | 5 | - | - | 2 | 6 | El Paso, Tex. | 59 | 37 | 13 | 4 | 2 | 3 | 4 |
| Rochester, N.Y. | 118 | 82 | 20 | 12 | 2 | 2 | 14 | Fort Worth, Tex | 83 | 54 | 18 | 6 | 1 | 4 | 4 |
| Schenectady, N.Y. | 19 | 14 | 5 |  | . | . | 14 | Houston, Tex. 5 | 576 | 335 | 135 | 70 | 21 | 15 | 15 |
| Scranton, Pa. $\dagger$ | 34 | 27 | 6 | 1 | - | - | 1 | Little Rock, Ark. | 44 | 33 | 8 | - | 2 | 3 | 5 |
| Syracuse, N.Y. | 63 | 43 | 10 | 8 | 1 | 1 | 3 | New Orleans, La. | 85 | 50 | 18 | 17 | - | - | - |
| Trenton, N.J. | 36 | 26 | 8 | 2 | 1 | . | 2 | San Antonio, Tex. | 162 | 100 | 33 | 17 | 8 | 4 | 9 |
| Utica, N.Y. | 19 | 16 | 2 | - | 1 | - |  | Shreveport, La. | 78 | 50 | 15 | 6 | 3 | 4 | 7 |
| Yonkers, N.Y. | 23 | 14 | 5 | 4 | . | - | 5 | Tulsa, Okla. | 101 | 61 | 24 | 10 | 2 | 4 | 5 |
| E.N. CENTRAL | 2,197 | 1,391 | 465 | 173 | 89 | 79 | 72 | MOUNTAIN | 617 | 406 | 117 | 43 | 33 | 18 | 20 |
| Akron, Ohio | 55 | 35 | 9 | 5 | 3 | 3 | 72 | Albuquerque, N. Mex | 86 | 53 | 15 | 11 | 4 | 3 | 2 |
| Canton, Ohio | 40 | 31 | 6 | 2 | - | 1 | 4 | Colo. Springs, Colo. | 33 | 25 | 6 | 1 | 1 | 1 | 7 |
| Chicago, III. 5 | 564 | 362 | 125 | 45 | 10 | 22 | 16 | Denver, Colo. | 108 | 73 | 18 | 6 | 7 | 4 | 2 |
| Cincinnati, Ohio | 143 | 105 | 25 | 8 | 4 | 1 | 10 | Las Vegas, Nev. | 85 | 54 | 21 | 4 | 3 | 3 | 1 |
| Cleveland, Ohio | 144 | 89 | 25 | 15 | 9 | 6 | 1 | Ogden, Utah | 26 | 16 | 5 |  | 4 | 1 |  |
| Columbus, Ohio | 125 | 70 | 35 | 13 | 3 | 4 | 1 | Phoenix, Ariz. | 127 | 81 | 29 | 8 | 6 | 3 | - |
| Dayton, Ohio | 103 | 66 | 25 | 9 | 3 | 4 | 4 | Pueblo, Colo. | 21 | 16 | 2 | 2 | 6 | 1 |  |
| Detroit, Mich. | 235 | 125 | 53 | 29 | 12 | 16 | 3 | Salt Lake City, Utah | 44 | 26 | 6 | 6 | 4 | 2 | 4 |
| Evansville, Ind. | 35 | 17 | 11 | 2 | 3 | 2 | . | Tucson, Ariz. | 87 | 62 | 15 | 6 | 4 | 2 | 4 |
| Fort Wayne, Ind. Gary, Ind. | 61 13 | 38 3 | 15 | 6 | 2 |  |  | PACIFIC | 1,874 | 1,173 | 368 | 189 | 70 | 68 | 103 |
| Gary, Ind. | 13 53 | 3 40 | 7 9 | 1 | 2 |  | 1 | Berkeley, Calif. | $\begin{array}{r}1,874 \\ \hline 16\end{array}$ | 1,173 9 | 368 3 | 189 1 | r 2 | 1 | 103 1 |
| Indianapolis, Ind. | 162 | 100 | - 33 | 12 | 12 | 5 | 4 | Fresno, Calif. | 78 | 56 | 13 | 5 | 4 | , | 5 |
| Madison, Wis. | 37 | 20 | 33 6 | 12 5 | 12 | 5 2 | 2 | Glendale, Calif. | 30 | 22 | 4 | 2 | 2 | 5 | 1 |
| Milwaukee, Wis. | 133 | 96 | 23 | 4 | 6 | 4 | 6 | Honolulu, Hawaii | 70 | 43 | 15 | 5 | 2 | 5 | 9 |
| Peoria, III. | 49 | 30 | 12 | 1 | 2 | 4 | 3 | Long Beach, Calif. | 87 | 57 308 | 17 | 7 5 | 22 | 6 | 7 |
| Rockford, III. | 45 | 27 | 9 | 4 | 4 | 1 | 4 | Los Angeles Calif. | 494 | 308 | 95 | 55 | 22 | 10 | 16 |
| South Bend, Ind. | 29 | 19 | 7 | 4 | 4 | 1 | 4 | Oakland, Calif. | 55 | 28 | 11 | 11 | 4 | - | 3 |
| Toledo, Ohio | 107 | 76 | 17 | 6 | 4 | 4 | 6 | Pasadena, Calif. | 27 | 18 | 4 | 2 | 1 | 2 | - |
| Youngstown, Ohio | 64 | 42 | 13 | 4 | 4 3 | 2 | 3 | Portland, Oreg. | 121 | 89 | 22 | 5 | 1 | 4 | 7 |
| W.N. CENTRAL |  |  |  |  |  |  |  | Sacramento, Calif. | 147 | 89 | 25 | 19 | 7 | 6 | 20 |
| Des Moines, lowa | 50 | 565 | 136 | 49 | 22 | 20 | 38 | San Diego, Calif. | 190 | 114 | 35 | 21 | 11 | 9 | 10 |
| Duluth, Minn. | 20 | 32 | 10 | 4 | 4 | - | 2 | San Francisco, Calif. | 153 | 88 | 34 | 23 | 2 | 6 | 3 |
| Kansas City, Kans. | 39 | 26 | 8 | 4 | 1 | 1 | 1 | Seattle, Wash. | 178 | 101 | 35 40 | 15 | 7 | 6 | 7 |
| Kansas City, Mo. | 111 | 67 | 25 | 9 | 5 | 5 | 1 | Spokane, Wash. | 44 | 31 | 8 | 3 | 2 | 12 | 7 |
| Lincoln, Nebr. | 35 | 28 | 3 | 3 | 5 | 1 | 1 | Tacoma, Wash. | 39 | 27 | 7 | 4 | - | 1 | 6 |
| Minneapolis, Minn. Omaha, Nebr. | 235 | 180 | 34 | 13 | 3 | 5 | 16 | TOTAL 12 | 12,232 ${ }^{\dagger \dagger}$ | 7,742 | 2,508 | 1,158 | 450 | 364 | 517 |
| St. Louis, Mo. | 61 119 | 47 | 6 29 | 4 | 3 | 1 | 2 |  |  |  |  |  |  |  |  |
| St. Paul, Minn. | 50 | 74 | 29 | 7 | 4 | 5 | 7 |  |  |  |  |  |  |  |  |
| Wichita, Kans. 5 | 72 | 41 55 | 14 | 1 | 1 | 1 | 1 |  |  |  |  |  |  |  |  |

[^3] 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
*Pneumonia and influenza.
${ }^{\dagger}$ Because of changes in reporting methods in these 3 Pennsylvania cities, these numbers are partial counts for the current week. $\dagger$ Total includes unknown agailable in 4 to 6 weeks.
§Data not available. Figures are estimates based on average of past available 4 weeks.

## Influenza - Continued

Despite the high transmissibility of the new variant, countries such as Australia and New Zealand were virtually unaffected by the virus. Some of these countries had experienced severe epidemics of the previous $A(H 1 N 1)$ variant (related to A/Chile/1/83). This observation suggests that cross-protection from prior natural infection with the A/Chile-like viruses may have attenuated the spread of A/Taiwanlike viruses in some regions or countries. However, laboratory data suggest that inactivated A/Chile influenza vaccine showed poor cross-protection to A/Taiwan in one U.S. outbreak $(7,8)$.

Preliminary analysis of death certificates suggests that the A/Taiwan-like viruses may have been responsible for mortality during the winter. However, this finding contradicts the limited number of outbreaks reported in the elderly, the population generally at greatest risk in influenza epidemics. Analysis of hospital discharge diagnosis records and mortality data from the National Center for Health Statistics may clarify the impact of type $A(H 1 N 1)$ influenza in all age groups.
References

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## Perspectives in Disease Prevention and Health Promotion

## Progress Toward the 1990 Objectives for Improved Nutrition

In 1985, the Public Health Service (PHS) reviewed progress on the 1990 objectives for the nation (1,2). Although none of the 17 nutrition objectives had been achieved, six appeared to be possibly attainable by 1990; achievement of the others appeared either unlikely or uncertain because of a lack of baseline data and inadequate survey information.

The Food and Drug Administration (FDA) and collaborating federal agencies* recently reported to the Assistant Secretary for Health on progress toward achieving 15 nutrition objectives identified by PHS as having special priority (Table 1). The Association of State and Territorial Public Health Nutrition Directors (ASTPHND) reported at the same time on state activities related to the nutrition objectives. A summary of the reports of these agencies and ASTPHND follows.

[^4]
## 1990 Objectives - Continued <br> Improved Health Status

Since the review in 1985, substantial progress has been made toward achieving nutrition goals, although some objectives are difficult to assess. For example, national trends in iron deficiency anemia in pregnant women and growth retardation in children cannot be assessed because of insufficient data. The 1986 CDC Pediatric Nutrition Surveillance System, which monitors the status of young children from high-risk, low-income families participating in certain publicly supported health programs, found that the prevalence of short stature in this group was $10.4 \%$ and that the rate of short stature varied substantially by ethnic groups (3). Surveillance and

TABLE 1. Federal priority nutrition objectives for 1990*

## Improved health status

1. The proportion of pregnant women with iron deficiency anemia (as estimated by hemoglobin concentrations early in pregnancy) should be reduced to $3.5 \%$.
2. Growth retardation of infants and children caused by inadequate diets should have been eliminated in the United States as a public health problem.

## Reduced risk factors

3. The prevalence of significant overweight ( $>120 \%$ of "desired" weight) among the U.S. adult population should be decreased to $10 \%$ of men and $17 \%$ of women, without nutritional impairment.
4. Fifty percent of the overweight population should have adopted weight loss regimens, combining an appropriate balance of diet and physical activity.
5. The mean serum cholesterol level in the adult population aged $\mathbf{1 8} \mathbf{~ t o ~} \mathbf{7 4}$ should be at or below $200 \mathrm{mg} / \mathrm{dL}$.
6. The average daily sodium ingestion (as measured by excretion) for adults should be reduced at least to the 3 - to 6 -gram range.
7. The proportion of women who breastfeed their babies at hospital discharge should be increased to $75 \%$ and $35 \%$ at 6 months of age.

## Increased public-professional awareness

8. The proportion of the population that is able to correctly associate the principal dietary factors known or strongly suspected to be related to disease should exceed $75 \%$ for each of the following diseases: heart disease, high blood pressure, dental caries, and cancer.
9. Seventy percent of adults should be able to identify the major foods that are low in fat content, low in sodium content, high in calories, high in sugars, good sources of fiber.
10. Ninety percent of adults should understand that to lose weight people must either consume foods that contain fewer calories or increase physical activity-or both.
Improved services protection
11. The labels of all packaged foods should contain useful calorie and nutrient information to enable consumers to select diets that promote and protect good health. Similar information should be displayed where nonpackaged foods are obtained or purchased.
12. By 1985, the proportion of employee and school cafeteria managers who are aware of, and actively promoting, USDA/DHHS dietary guidelines should be greater than $50 \%$.
13. All states should include nutrition education as part of required comprehensive school health education at elementary and secondary levels.
14. Virtually all routine health contacts with health professionals should include some element of nutrition education and nutrition counseling.

## Surveillance-evaluation system

15. Before 1990, a comprehensive national nutrition status monitoring system should have the capability to detect nutritional problems in special population groups as well as to obtain baseline data for decisions on national nutrition policies.
*Public Health Service. Promoting health/preventing disease: Public Health Service implementation plans for attaining the objectives for the nation. Public Health Rep 1983; Sep-Oct(suppl):132-55.

1990 Objectives - Continued
survey data from the 1970s and the early 1980s indicate that the prevalence of iron deficiency anemia among young children declined during this time span (4). Data from the third National Health and Nutrition Examination Survey (NHANES-III), to be conducted from 1988 to 1994 by the National Center for Health Statistics, CDC, will indicate whether that trend has continued.

## Reduced Risk Factors

Progress toward reducing certain risk factors has varied greatly. The 1985 National Health Interview Survey (NHIS) reported that approximately 50\% of overweight respondents indicated they were trying to lose weight, with almost half of this group both increasing physical activity and decreasing caloric intake (5). Data from NHANES-III will be useful to further assess trends in the prevalence of overweight during the 1980s. In 1985, the National Heart, Lung, and Blood Institute of the National Institutes of Health launched the National Cholesterol Education Program, a cooperative nationwide education effort to reduce the prevalence of high blood cholesterol. Detailed guidelines for detecting, evaluating, and treating high blood cholesterol in adults have been developed to aid physicians and other health professionals in diagnosing and managing high blood cholesterol.

Accurate estimates of the sodium intake by the U.S. population have been limited by the availability of reliable data on the amount of sodium consumed from processed foods and table salt. The 1982-1984 FDA Total Diet Studies indicate that, excluding salt added at the table, adult sodium intakes are within the Estimated Safe and Adequate Daily Dietary Intakes of the National Academy of Sciences (1100-3300 mg ) (6), but that children consume more sodium than the standard recommends for their ages. Further information on sodium consumption will be provided by NHANESIII and the U.S. Department of Agriculture (USDA) Nationwide Food Consumption Survey, which are in progress.

Since 1982, progress in the objective of increasing the proportion of women who breastfeed their babies at time of hospital discharge has slowed (7) and has varied according to geographic regions, education, income levels, and other factors. In 1984, approximately $61 \%$ of infants were breastfed at 1 week of age and $28 \%$ at 6 months of age. The Health Resources Services Administration has undertaken a special initiative to encourage breastfeeding that includes elements of research, training, and demonstration of effective methods of promoting and supporting breastfeeding.

## Improved Services Protection

Public awareness objectives primarily address diet and health relationships. In the 1986 FDA Diet and Health Survey, $83 \%$ and $76 \%$ of adults were aware that diet plays a role in hypertension and coronary artery disease, respectively, and $65 \%$ and $57 \%$ of surveyed adults associated sodium and fat with these respective diseases (FDA, unpublished data). In addition, more than half of those surveyed believed that diet may play a role in cancer risk and that changing intakes of certain dietary components may help prevent cancer (2). About $90 \%$ of adults were aware that avoiding between-meal sweets can help reduce tooth decay (2). In 1985, more than $70 \%$ of adults identified calorie reduction and increased physical activity as the two best ways to reduce body weight (5).

Nutrition labeling, initiated in 1973, is used on $55 \%$ of the packaged foods regulated by FDA. Fifty-nine percent have sodium labeling. The publication, Nutrition and Your Health: Dietary Guidelines for Americans (8) offers guidance about healthy

1990 Objectives - Continued
eating and has been widely promoted in both the public and private sectors. USDA has revised recipe files for school lunch programs to lower fat, salt, and sugar in school meals (2).

Because data are limited regarding nutrition education and counseling in patient contacts with health professionals, the 1985 NHIS included a question about nutrition education received during routine health consultations. Twenty-nine percent of women and $22 \%$ of men reported that eating proper foods was discussed sometimes or often in routine contacts (5).

Progress toward requiring nutrition education in school health curricula has lagged. In 1978, 10 states mandated nutrition as a core content area in school health education; by 1985, only two additional states required nutrition education.

## Surveillance-Evaluation System

A comprehensive nutrition surveillance system targeted for 1985-the National Nutrition Monitoring System (NNMS) - is now in place. The U.S. Department of Health and Human Services and USDA have made several reports to Congress on the NNMS, including a recently updated Operational Plan (9). Survey information about special populations is improving; for example, NHANES-III will oversample blacks and Hispanics to improve data on these populations (2).

## ASTPHND Model Objectives

The ASTPHND has developed Model State Nutrition Objectives that relate directly to the 1990 objectives. The model customizes objectives to fit a state's needs and priorities; for example, each state may set specific objectives to reduce blood cholesterol levels in at-risk persons. Recently, ASTPHND ranked a comprehensive national nutrition monitoring system as the highest national priority among the 1990 objectives, and nutrition education in school health education as the highest priority on a state basis.
Reported by: Office of Disease Prevention and Health Promotion, Office of the Assistant Secretary for Health, Public Health Service.
Editorial Note: The experiences of the 1990 objectives suggested additional guidelines for the development of nutrition objectives for the year 2000. For example, the PHS Midcourse Review (2) found that some nutrition objectives were not measurable. For other objectives, a lack of baseline or other data has limited the tracking of progress. Accordingly, future objectives should be both measurable and addressed through surveys or appropriate surveillance systems.

Feasibility is also important in establishing objectives. National objectives predicated solely on improved nutrition may not be feasible for diseases and conditions of complex etiology. One current objective calls for the elimination of growth retardation caused by diet. However, because nutrition is only one factor in growth retardation, it is unlikely that the portion attributable solely to nutritional factors can be separately identified. Technical feasibility is another consideration. One 1990 objective calls for reduction of sodium intake levels as measured by urinary excretion, but national data are not available-and are not likely to be-because sodium excretion measures require specimens of total urinary excretion for a 24 -hour period.

Scientifically sound and effective intervention strategies are essential for setting nutrition goals. For example, one objective targets decreases in adult obesity by 1990. However, there are no effective intervention strategies for the attainment of this objective. For obesity and other conditions of complex etiology, nutrition-related behavioral and educational objectives may be necessary.

1990 Objectives - Continued
The development of 1990 objectives has provided useful insights into the advantages of establishing goals that address national nutrition problems and the challenges of measuring progress toward their achievement. The recently released Surgeon General's Report on Nutrition and Health (10) emphasizes the importance of diet in preventing widely prevalent chronic diseases. It also emphasizes the need for realistic dietary strategies to reduce health risks and for data to monitor improvements in the nutritional health of the nation. The development of objectives for the year 2000 presents an opportunity to address these important needs.

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## Errata: Vol. 36, No. S-6

In the supplement dated December 18, 1987, "Human Immunodeficiency Virus Infection in the United States: A Review of Current Knowledge," the following corrections should be noted:
p. 23 In Table 1, the 0 prevalence rate reported for Pittsburgh, PA, was for HTLV-1, not HIV-1.
p. 38 In Table 12, the seventh entry should read Pittsburgh, PA, not Philadelphia, PA. Pittsburgh, not Philadelphia, is participating in the Multicenter AIDS Cohort Study (MACS).

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p. 406 The third sentence of the third paragraph should read: "In 1980, $76.3 \%$ of pregnant women received first-trimester prenatal care, and in 1985, 76.2\% received such care."

FIGURE I. Reported measles cases - United States, Weeks 27-30, 1988


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[^0]:    *Age group was not specified for 4,408 (20.0\%) specimens tested. Influenza isolates were recovered from 291 (6.6\%) of these specimens; 288 ( $99.0 \%$ ) of the isolates were influenza A (H1N1).

[^1]:    *Because AIDS cases are not received weekly from all reporting areas, comparison of weekly figures may be misleading. ${ }^{\dagger}$ 'One of the 153 reported cases for this week was imported from a foreign country or can be directly traceable to a known internationally imported case within two generations.

[^2]:    U: Unavailable

[^3]:    "Mortality data in this table are voluntarily reported from 121 cities in the United states, most of which have populations of 100,000 or

[^4]:    *National Center for Health Statistics, Center for Health Promotion and Education, CDC; Health Resources and Services Administration; and National Institutes of Health.

