

MORBIDITY AND MORTALITY WEEKLY REPORT

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## Clean Air Week - May 1993

The American Lung Association (ALA) sponsors Clean Air Week in May each year to educate the public about the importance of clean air to lung health. The theme for this year's campaign is "Clean Air Is Up to You!", emphasizing the role for each person in achieving clean air. Through local Clean Air Week activities during 1993, the ALA will educate the public about practical methods to promote clean air through actions such as decreasing driving and other forms of energy conservation, improving indoor air quality at home and the workplace, and supporting clean air regulations and enforcement in the community.

Local lung associations designate the week for their respective communities to observe as Clean Air Week and will disseminate messages through environmental and health fairs, school presentations, other community events, and the media. Nearly 50 locations in the United States also will participate in the Clean Air Challenge (a pledge-based bicycling event), to raise funds for local clean air programs and other efforts to prevent lung disease. In addition, local lung associations will observe a Clean Commute Day and request that motorists use alternative forms of transportation (e.g., carpools, mass transit, or bicycles).

Additional information about Clean Air Week and related activities is available from local offices of the ALA, which are listed in the white pages of the telephone directory. The address of the national office of the ALA is 1740 Broadway, New York, NY 10019-4374; telephone (212) 315-8700.

## Health Objectives for the Nation

## Populations at Risk from Air Pollution - United States, 1991

The Clean Air Act of 1970 required the U.S. Environmental Protection Agency (EPA) to establish National Ambient Air Quality Standards (NAAQSs) for six of the most widespread air pollutants in the outdoor environment: particulate matter with a diameter $\leq 10 \mu \mathrm{~m}$, sulfur dioxide, nitrogen dioxide, carbon monoxide, ozone, and lead.

## Air Pollution - Continued

Congress directed EPA to establish these national air quality standards with an adequate margin of safety to account for limitations in scientific information on the health effects of these pollutants, with particular concern for those populations at potentially higher risk for adverse outcomes from exposure to these pollutants. This report provides estimates of the number of persons who may have been at risk for exposure to unhealthy levels of these pollutants during 1991.

For this report, a population at risk was defined as having a "significantly higher probability of developing a condition, illness, or other abnormal status," as described by EPA (1). For example, elderly persons may not be particularly sensitive to the effects of sulfur dioxide pollution but are considered to be at risk because lowered respiratory function may reduce their ability to withstand the additional reduction in respiratory function caused by exposure to sulfur dioxide. When developing the NAAQSs, EPA identified specific at-risk population subgroups for each pollutant (Table 1). Communities that fail to meet the NAAQS for one or more of these six pollutants are considered nonattainment areas.

A projection of the prevalence of populations at risk was derived by the synthetic estimation technique developed by the Bureau of the Census (2). Age-specific national prevalence rates for the medical conditions under study were obtained from CDC's National Health Interview Survey (NHIS) (3). These prevalence figures were multiplied by the 1990 U.S. census population figures, enumerated for each nonattainment community on an age-specific basis (4). Expected estimates of the local

TABLE 1. Estimated populations at risk* residing in communities that have not attained one or more National Ambient Air Quality Standardt — United States, 1991§

| Population subgroup at risk | Pollutant ${ }^{\text {f }}$ | At-risk population living in nonattainment areas |  |
| :---: | :---: | :---: | :---: |
|  |  | No. | (\%)** |
| Preadolescent children (aged $\leq 13 \mathrm{yrs}$ ) | PM-10, $\mathrm{SO}_{2}, \mathrm{O}_{3}, \mathrm{NO}_{2}$ | 31,528,939 | (63) |
| Elderly (aged $\geq 65 \mathrm{yrs}$ ) | $\mathrm{PM}-10, \mathrm{SO}_{2}, \mathrm{O}_{3}$ | 18,846,666 | (60) |
| Persons with pediatric asthmat ${ }^{\dagger}$ | $\mathrm{PM}-10, \mathrm{SO}_{2}, \mathrm{O}_{3}, \mathrm{NO}_{2}$ | 2,285,061 | (61) |
| Adults (aged $\geq 18 \mathrm{yrs}$ ) with asthma | PM-10, $\mathrm{SO}_{2}, \mathrm{O}_{3}, \mathrm{NO}_{2}$ | 4,279,413 | (65) |
| Persons with chronic obstructive pulmonary disease ${ }^{\S} \S$ | $\mathrm{PM}-10, \mathrm{SO}_{2}, \mathrm{O}_{3}, \mathrm{NO}_{2}$ | 8,831,970 | (64) |
| Persons with coronary heart diseasell\| | CO | 3,493,847 | (33) |
| Pregnant women*** | $\mathrm{CO}, \mathrm{Pb}$ | 1,602,045 | (38) |
| Children aged $\leq 5 \mathrm{yrs}$ | Pb | 74,312 | ( 3) |

*Populations-at-risk estimates should be quoted individually and not added to form totals. These categories are not mutually exclusive.
†Only a portion of some communities are designated as nonattainment areas for some pollutants. The totals in this document are based on entire county populations and may, therefore, reflect an overrepresentation of the true populations at risk.
${ }^{\S}$ Estimated total U.S. population living in the 514 counties and 20 cities designated as nonattainment areas $=164$ million ( $66 \%$ of the U.S. population).
${ }^{1} \mathrm{PM}-10=$ particulate matter with a diameter $\leq 10 \mu \mathrm{~m}$; $\mathrm{SO}_{2}=$ sulfur dioxide; $\mathrm{O}_{3}=0$ zone; $\mathrm{NO}_{2}=$ nitrogen dioxide; $\mathrm{CO}=$ carbon monoxide; and $\mathrm{Pb}=$ lead.
**The proportion of each population subgroup at risk of the total population in the category.
${ }^{\text {t† }}$ Asthma in persons aged $<18$ years.
§§ Includes chronic bronchitis and emphysema.
99 Includes ischemic and cerebrovascular heart disease.
***The estimated number of pregnant women in each county is derived from the number of live births. Fetal losses and multiple births may have an impact on the accuracy of these estimates.

## Air Pollution - Continued

prevalence of chronic diseases reported in the NHIS were scaled in direct proportion to the base population of the area and its age distribution and then used to compute the national figures. No adjustments were made for other factors that might affect local prevalence because such data are rarely available on a county level. Estimates of populations at risk should be quoted individually and should not be added together, because the populations at risk are not mutually exclusive (e.g., persons may be aged $\geq 65$ years and have chronic obstructive pulmonary disease).

During 1991, a total of 514 counties and 20 cities were designated as nonattainment areas (5; EPA, unpublished data, 1991), representing an estimated 164 million persons ( $66 \%$ of the resident U.S. population) (6). Persons residing in nonattainment counties included $63 \%$ (approximately 31 million) of preadolescent (aged $\leq 13$ years) children, $60 \%$ (approximately 19 million) of persons aged $\geq 65$ years, and $64 \%$ (approximately 9 million) of persons with chronic obstructive pulmonary disease (Table 1).
Reported by: P Paris, S Rappaport, MPH, K Lieber, MPH, Epidemiology and Statistics Unit, R White, MST, American Lung Association, New York. Air Pollution and Respiratory Health Br, Div of Environmental Hazards and Health Effects, National Center for Environmental Health, CDC.
Editorial Note: The findings in this report assist in quantifying the potential public health impact of air pollution, particularly among persons at increased risk. This risk is greatest for persons residing in nonattainment areas, including more than $60 \%$ of U.S. children and adults with asthma and persons with chronic bronchitis and emphysema. In addition, this risk is higher for more than one third of pregnant women and persons with coronary heart disease.

This report does not include estimates for healthy persons who exercise, an important group at risk for the health effects of ozone. Although numerous clinical studies indicate that persons who exercise vigorously are at increased risk for acute effects from exposure to ozone at levels above the national ambient standard (7), the population in this report determined to be at risk from ozone was limited to groups with inherent physiologic risk factors. Thus, the estimates of at-risk populations in ozone nonattainment areas may substantially underestimate the number of persons potentially exposed to unhealthy ozone levels.

A national health objective for the year 2000 is to increase the proportion of persons who live in counties that have not exceeded any air quality standard during the previous 12 months from $49.7 \%$ in 1988 to $85.0 \%$ (objective 11.5) (8). The description and estimates of high-risk populations presented in this report underscore the importance of improved air quality for disease prevention and health promotion. In addition, because an estimated $61 \%$ of children with asthma and $65 \%$ of adults with asthma reside in communities with potentially unhealthy air quality, efforts to improve air quality should assist in achieving the national health objective for reducing morbidity associated with asthma.

Estimates of populations at risk presented in this report were derived by applying national prevalence estimates to county-specific population figures. These estimates could be refined through the collection and analysis of data for at-risk populations by state and local health agencies. In addition, a recent survey of air pollution information activities at state and local air pollution control agencies (9) indicated the need for additional education methods for air pollution control and improved coordination between health and environmental agencies.

Air Pollution - Continued
On May 4, the ALA will release a new report, Breath in Danger II (6), that estimates the populations at risk from air pollution exposure in the United States, as well as the results of a survey of U.S. attitudes on air pollution. These reports are available from the American Lung Association, 1740 Broadway, New York, NY 10019-4374; telephone (212) 315-8700.

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## International Notes

## Nutrition and Mortality Assessment Southem Sudan, March 1993

During the last 5 years of Sudan's decade-long civil war, increased fighting and food shortages in southern Sudan have led to displacement of large numbers of persons. In late 1992, the United Nations (UN), the government of Sudan, and factions of the Sudanese People's Liberation Army negotiated increased access for delivery of relief aid to civilians in southern Sudan. To assist in the targeting of food and other relief aid, CDC and the U.S. Agency for International Development's Office of Foreign Disaster Assistance conducted rapid assessments of nutritional status (children aged $<5$ years) and mortality (persons of all ages) during March 7-19, 1993, at four sites in three states: Ame (Eastern Equatoria), Ayod and Kongor (Upper Nile), and Akon (Bahr el Ghazal) (Figure 1). This report summarizes findings of the assessments.

Ame, Ayod, and Kongor were selected as assessment sites because of known food shortages. Ame camp, established in early 1992, had an estimated 47,000 displaced persons; however, reliable census data were not available for any of the four assessment sites. Ayod and Kongor are in the current epicenter of famine in southern Sudan. Airlifts of food to airstrips in Ayod and near Kongor began in late December 1992 but

## Sudan - Continued

subsequently were sporadic because of security and logistical constraints. The sizes of the populations around these airstrips have fluctuated in relation to delivery of food. The Akon area suffered a famine in 1988 and heavy flooding with crop destruction in 1991 and 1992, increasing the potential for another famine.

M odified cluster-sample surveys were conducted in Ame and Ayod and in the countryside around Akon. Every fifth household (Ame and Ayod) or consecutive households (Akon) were selected within three to six clusters to produce sample sizes of 43-58 households. In Ame and Ayod, the samples were drawn from the presumed total population; the representativeness of the clusters and households selected in the Akon area was unknown. In Kongor, the sample consisted of children who gathered at the UN compound in response to messages from local and relief officials and, therefore, might not have been representative of all children in the area aged $<5$ years.

In each sample, assessment teams measured the height, weight, and mid-upper arm circumference (MUAC) of children 65-110 cm tall (proxy for 6-59 months of age). Two indicators of severe undernutrition were used: low weight-for-height (WFH) or wasting (WFH <2 standard deviations below the National Center for Health Statistics/CDC/World Health Organization reference median [1,2]; Z-score <-2) and low MUAC ( $<12.5 \mathrm{~cm}$ ) (3,4). In Ame, Ayod, and Akon, household interviews were conducted with survivors to assess mortality and apparent causes of death.

A total of 371 children were measured at the four sites; 23 other potentially eligible children were unavailable or too sick. The prevalence of wasting (Z-score $<-2$ ) was high at all sites, particularly in the areas known to have food shortages ( $75 \%-84 \%$ in Ame, Ayod, and Kongor) (Table 1). At these three sites, $40 \%-44 \%$ of the children were critically undernourished (Z-score <-3), the mean Z-score ranged from -2.8 to -3.0,
FIGURE 1. Locations of health assessments - southem Sudan, March 1993


## Sudan - Continued

and the mean MUAC ranged from 11.4 to 11.8 cm . At all four sites, the prevalence of Iow MUAC was lower than that of low WFH (Table 1). Based on stratified analysis, the prevalence of low MUAC (using a fixed cutoff of 12.5 cm , regardless of age) decreased as height (age) increased, whereas the prevalence of low WFH (a height-adjusted and therefore age-adjusted indicator) was relatively stable.

Based on household interviews in Ame, Ayod, and Akon, crude mortality rates (CMRs) for the preceding 12 months were 234,276 , and 164 deaths per 1000 persons, respectively (Table 2). In Ayod, the average daily CMR was higher during the preceding 40 days (at least 20 deaths per 10,000 population in February and March 1993) than during the rest of the year (six deaths per 10,000 population during March 1992J anuary 1993). At all three sites, half ( $48 \%-50 \%$ ) the deaths were attributed to starvation. In Ame and Ayod, diarrheal disease was the second most commonly specified cause of death. In the three sites, one death was attributed to measles and three to homicide.

Priority recommendations for food aid emphasized the provision of basic rations and supplementary feeding for vulnerable groups and the need for stockpiling maximum amounts of food before the spring rains impede food delivery. Other priorities included strengthening surveillance for undernutrition and mortality, providing measles vaccine for children aged 6 months-12 years, and establishing oral rehydration units for appropriate case management of diarrheal disease.
Reported by: Office of Foreign Disaster Assistance, US Agency for International Development, Washington, DC. US Agency for Intemational Development, Sudan. Div of Field Epidemology, Epidemiology Program Office; Div of Nutrition, National Center for Chronic Disease Prevention and Health Promotion; Div of Technical Support, International Health Program Office; Div of Parasitic Diseases, National Center for Infectious Diseases, CDC.
Editorial Note: The prevalence rates of severe undernutrition in Ame, Ayod, and Kongor are among the highest ever documented (3). In comparison, rates in central and southern Somalia during 1991 and 1992 ranged from $50 \%$ to $81 \%$ and $32 \%$ to $75 \%$, respectively (CDC, unpublished data); reported prevalences of low WFH during non-
TABLE 1. Nutritional status of children $\mathbf{6 5 - 1 1 0} \mathbf{c m}$ in height*, by geographic area southem Sudan, March 1993

| Characteristic | Geographic area |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \text { Ame } \\ (\mathrm{n}=69) \end{gathered}$ | $\begin{gathered} \text { Ayod } \\ (\mathrm{n}=77) \end{gathered}$ | Kongor $(\mathrm{n}=164)^{\dagger}$ | $\begin{aligned} & \text { Akon } \\ & (\mathrm{n}=61)^{\S} \end{aligned}$ |
|  | No. (\%) | No. (\%) | No. (\%) | No. (\%) |
| Weight-for-height, Z-score |  |  |  |  |
| $<-2$ through -3 | 26 (38) | 24 (31) | 71 (43) | 16 (27) |
| $<3$ | 30 (44) | 34 (44) | 66 (40) | 3 ( 5) |
| $\begin{aligned} & \text { Total }<-2 \\ & \quad\left(95 \% C^{\prime \prime}\right) \end{aligned}$ | $\begin{gathered} 56 \text { (81) } \\ (71 \%-89 \%) \end{gathered}$ | $\begin{array}{cc} 58(75) \\ (65 \%-84 \%) \end{array}$ | $\begin{aligned} & 137 \text { (84) } \\ & (77 \%-89 \%) \end{aligned}$ | $\begin{array}{cc} 19(32) \\ (21 \%-44 \%) \end{array}$ |
| Mid-upper arm circumference |  |  |  |  |
| $<12.5 \mathrm{~cm}$ (95\% CII) | $\begin{array}{cc} 42 & (61) \\ (49 \%-72 \%) \end{array}$ | $\begin{array}{cc} 51 \quad(66) \\ (55 \%-76 \%) \end{array}$ | $\begin{array}{cc} 130(80) \\ (73 \%-85 \%) \end{array}$ | $\begin{array}{cc} 9 & (15) \\ (7 \%-25 \%) \end{array}$ |

* N = 371.
${ }^{\dagger} n=163$ for mid-upper arm circumference data.
$\S_{n=60}$ for weight-for-height data.
${ }^{\text {a }}$ Confidence interval.


## Sudan - Continued

crisis periods in Africa and elsewhere generally have been $<5 \%(3,5,6)$. In general, prevalences $\geq 5 \%$ have been associated with increased mortality ( 3,7 ). Therefore, the data in this report indicate that nutritional emergencies exist in all four survey sites, including Akon, a famine-prone area in which the next harvest is not expected until August.

In general, the prevalence of undernutrition in a random sample of children aged $<5$ years can be used as an indicator of this condition in the population (3). The primary indicator of nutritional status in these assessments was WFH. Although persons of Nilotic tribes in southern Sudan are among the tallest in the world, this genetic characteristic should not substantially influence WFH (in contrast to height-for-age). In addition, WFH Z-scores $<2$ represent a degree of thinness that typically is associated only with protein energy malnutrition or severe disease. The consistency of low WFH across height strata supports the conclusion that severe undernutrition in Sudan has affected other groups in addition to very young children (i.e., aged $<2$ years); older children and adults were probably similarly affected.

In these assessments, the high prevalences of severe undernutrition were associated with substantial excess mortality. The annual CMRs in Ame, Ayod, and Akon were markedly higher than those reported for the Horn of Africa during nonfamine times (20-24 deaths per 1000 persons) (8). In addition, the average daily CMR in Ayod during February-M arch 1993 was similar to that in Baidoa, Somalia, during Novem-ber-December 1992 (23.4 deaths per 10,000 population) (9). The recent increase in the CM R in Ayod reflects, in part, the suspension of food airlifts during an 18-day period in February. Although no outbreaks of measles had been reported recently at any of the survey sites, the potential for such outbreaks is high because of the high prevalences of severe undernutrition and the low vaccination coverage rates.

The recently negotiated increased access to southern Sudan provided this opportunity to assess problems of long duration. Although the generalizability of the findings in this report can be addressed only by similar assessments elsewhere in Sudan, famine of this magnitude usually is geographically widespread. The high malnutrition and

## TABLE 2. Characteristics of survey populations, by geographic area - southem Sudan, March 1993

| Category | Geographic area |  |  |
| :---: | :---: | :---: | :---: |
|  | Ame | Ayod | Akon |
| Demographic |  |  |  |
| No. households surveyed | 48 | 43 | 58 |
| Total no. persons living at time of survey | 442 | 465 | 497 |
| No. persons aged $<5$ yrs* | 78 | 88 | 88 |
| \% Survey population aged $<5$ yrs* | 18\% | 19\% | 18\% |
| Mortality |  |  |  |
| Total no. deaths during preceding 12 months | 117 | 149 | 89 |
| No. deaths that occurred among children aged $<5$ yrs | 51 | 377 | 22 |
| \% Total deaths among children aged $<5$ yrs | 44\% | 25\% | 25\% |
| Annual crude mortality rate ${ }^{\S}$ (95\% Confidence interval) | $\begin{gathered} 234 \\ (191-276) \end{gathered}$ | $\begin{gathered} 276 \\ (232-320) \end{gathered}$ | $\begin{gathered} 164 \\ (130-198) \end{gathered}$ |

*Not limited to children who were at least 65 cm in height or to children who wereavailable to be measured.
${ }_{\S}^{\dagger}$ An additional three of the 149 deaths may have occurred among children aged $<5$ years.
${ }^{\S}$ Per 1000 persons (all ages).

## Sudan - Continued

mortality rates documented in these assessments underscore the association between civil strife and famine and the need for prompt action to ensure availability of sufficient and appropriate food and medical supplies.

## References

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## Current Trends

## Impact of the Expanded AIDS Surveillance Case Definition on AIDS Case Reporting - United States, First Quarter, 1993

On J anuary 1, 1993, the acquired immunodeficiency syndrome (AIDS) surveillance case definition for adolescents and adults was expanded beyond the surveillance definition published in 1987 (1) to include all human immunodeficiency virus (HIV)-infected persons with severe immunosuppression ( $<200 \mathrm{CD} 4+$ T-lymphocytes $/ \mu \mathrm{L}$ or a CD4+T-lymphocyte percentage of total lymphocytes of $<14$ ), pulmonary tuberculosis (TB), recurrent pneumonia, or invasive cervical cancer. This report reviews AIDS surveillance reports CDC received from local, state, and territorial health departments during the first quarter of 1993 and summarizes the impact of the changes in the AIDS surveillance case definition.

From J anuary 1 through March 31, a total of 35,779 AIDS cases-13\% of the cumulative total of 284,840 AIDS cases reported since 1981 -were reported to CDC, representing a 204\% increase over the number reported for the same period in 1992 (11,770 cases) (Figure 1). Forty-eight states and Puerto Rico reported cases based on the criteria added to the surveillance definition in 1993.

Of the 35,779 AIDS cases, 21,582 ( $60 \%$ ) were reported based on the conditions added in 1993, and 14,197 (40\%) were reported based on pre-1993-defined condi-tions-a $21 \%$ increase in reporting of pre-1993-defined cases over the number reported for the same period in 1992. Of the cases reported with only 1993-added con-

## AIDS Surveillance Case Definition - Continued

ditions, 19,284 persons (89\%) had severe HIV-related immunosuppression only; 2021 (9\%) had pulmonary TB; 245 (1\%), recurrent pneumonia; and 41 ( <1\%), invasive cervical cancer.*

Implementation of the expanded surveillance definition has been associated with an increase in the median interval between date of diagnosis and date of report of AIDS cases; in preceding years, this interval had been 3 months. In contrast, persons with conditions added in 1993 had a median interval between date of diagnosis and date of report of 9 months, and persons with pre-1993 conditions reported in the first quarter of 1993, 5 months.

Reported by: Local, state, and territorial health depts. Div of HIV/AIDS, National Center for Infectious Diseases, CDC.

Editorial Note: The findings in this report indicate that an immediate impact of the revised AIDS surveillance case definition on case reporting has been a substantial increase in the number of reported AIDS cases. The increase in the first quarter of 1993 is not expected to be sustained because the increase in cases reported during this period reflects predominantly the reporting of the accumulated number of persons

[^0]FIGURE 1. Reported AIDS cases among adolescents and adults following expansion of the AIDS surveillance case definition* - United States, first quarter, 1992 and 1993

*All HIV-infected persons with severe immunosuppression ( $200 \mathrm{CD} 4+$ T-lymphocytes $\mu \mathrm{L}$ or a CD4+ T-lymphocyte percentage of total lymphocytes of $<14$ ), pulmonary tuberculosis (TB), recurrent pneumonia, or invasive cervical cancer in addition to the clinicalconditions included in the AIDS surveillance case definition published in 1987.
${ }^{\dagger}$ Pulmonary TB, recurrent pneumonia, and invasive cervical cancer.

AIDS Surveillance Case Definition - Continued
with previously diagnosed conditions added to the surveillance definition in 1993 who could not be reported as AIDS cases until J anuary 1, 1993. The interval between date of diagnosis and date of report for persons with 1993-added conditions indicates that AIDS cases in these persons were diagnosed earlier than in other persons reported with AIDS.

CDC has estimated that the number of AIDS cases reported during 1993 will increase approximately $75 \%$ as a result of the expanded reporting criteria (2). The increase in the number of persons reported with pre-1993 conditions during this quarter probably reflects changes in surveillance procedures associated with implementation of the 1993 surveillance definition. CDC will continue to report on the ongoing evaluation of surveillance findings and the impact of the expanded AIDS surveillance case definition.

## References

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## International Notes

## Update: Dracunculiasis Eradication — Nigeria, 1992

The reported incidence of dracunculiasis (i.e., Guinea worm disease) in Nigeria declined substantially during 1992-the fourth consecutive year in which reports of known cases declined. This report summarizes dracunculiasis surveillance data for Nigeria and describes progress toward eradication of this disease.

During the 1991-1992 epidemiologic year (i.e., J uly 1991-J une 1992), 201,453 cases of dracunculiasis were reported in 4576 villages where the disease is endemic, a $25 \%$ reduction from the number of cases reported during 1990-1991 (Figure 1). Since 19881989, the number of reported cases has decreased $68.5 \%$, and the number of villages where the disease is endemic has decreased $22.9 \%$ (from 640,008 cases in 5932 villages) (1).

Nigeria's Guinea Worm Eradication Program (NIGEP) intensified all major control measures during 1992, including extending health education and community mobilization to all villages with endemic dracunculiasis, promoting education about the disease in schools in areas with endemic dracunculiasis, distributing cloth filters to more than $70 \%$ of the villages, and targeting at least $30 \%$ of the affected villages for provision of safe drinking water. In addition, during 1992, Nigeria completed its transition from annual retrospective surveys to monthly reporting of cases by trained village-based health workers in each of the villages with endemic dracunculiasis. During 1993, NIGEP will introduce use of temephos (Abate ${ }^{\circledR *}$ ) to treat unsafe sources of drinking water in selected villages in which the disease is endemic.

[^1]Dracunculiasis Eradication - Continued
FIGURE 1. Reported cases of dracunculiasis, by epidemiologic year* - Nigeria, 1987-1992

*J uly 1-J une 30.
Reported by: Federal Ministry of Health and Social Svcs, Nigeria. Global 2000, Inc, The Carter Center, Atlanta. WHO Collaborating Center for Research, Training, and Eradication of Dracunculiasis, Div of Parasitic Diseases, National Center for Infectious Diseases, CDC.
Editorial Note: The number of dracunculiasis cases reported in Nigeria (1992 population: approximately 90 million) in 1992 is similar to that reported in Ghana (1992 population: approximately 15 million) in 1989. The annual rate of decline in reported cases has decreased from 31\% from 1989-1990 to 1990-1991, to 25\% from 1990-1991 to 1991-1992. Although Nigeria is expected to complete its eradication of dracunculiasis by the end of 1995, control measures must be intensified during 1993-1995 to reach this goal.

Reference

1. CDC. Update: dracunculiasis eradication-Ghana and Nigeria, 1991. MMWR 1992;41:397-9.

## Linking Multiple Data Sources in Fetal Alcohol Syndrome Surveillance - Alaska

Although fetal alcohol syndrome (FAS) is a major preventable cause of mental retardation in the United States (1), surveillance for this problem is subject to at least five constraints: difficulty in identifying the syndrome at birth (2); the subjective nature of the diagnosis; variability in the severity and type of conditions associated with FAS; age-specific variations in the expression of the phenotype; and the lack of specificity in the International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) code for FAS. Previous studies have documented high rates of FAS among American Indians and Alaskan Natives (ANs) (3,4). To better ascertain cases of FAS in Alaska and to determine the prevalence of this problem among ANs, the Alaska Department of Health and Social Services (ADHSS), the Indian Health Service (IHS), and CDC linked and analyzed data from state sources (i.e., birth and death certificates and Medicaid claims), an IHS case file, and a private pediatric practice case file. This report summarizes the findings from this analysis and presents a preliminary minimum FAS prevalence rate for ANs.

Potential cases were identified in the state data sources using an FAS check box on birth certificates filed from 1989 through 1990, from Medicaid claims filed from 1989 through 1990 using ICD-9-CM code 760.71 (alcohol affecting fetus or newborn via placenta or breast milk), and from death certificates issued during 1977-1990 using ICD-9 code 760.7 (noxious influences affecting fetus or newborn via placenta or breast milk). The IHS case file consisted of patients in whom FAS was diagnosed or who were designated as having fetal alcohol effects (FAE) by a physician during 1985-1992. The pediatric case file consisted of patients examined from 1990 through 1992 by a large pediatric practice, which maintains a computerized case file of children exposed to alcohol in utero or who had been evaluated for FAS or FAE. A case of FAS was defined as a patient meeting five criteria: 1) prenatal alcohol exposure or a maternal history of alcohol abuse, 2) FAS noted by a physician, 3) one or more characteristic FAS facial features, 4) growth deficiency (i.e., prenatal or postnatal height or weight $\leq 10$ th percentile for age), and 5) central nervous system (CNS) impairment (5).

A total of 348 persons were identified; medical records were available for 323, of whom 83 met all five criteria and were considered to have FAS (Table 1). Twelve (14\%) persons were identified by more than one data source. The average age (as of December 1992) of persons with FAS was 8 years (range: 0-19 years); 46 (55\%) were male. The average age at the time of diagnosis was 3 years; 47 ( $57 \%$ ) case-patients had a chart mention of FAS as early as the first year of life. For 49 ( $59 \%$ ) case-patients, FAS was diagnosed by a dysmorphologist. Fifty-four (65\%) were either adopted or in foster care. Seventy-five (90\%) of the case-patients were ANs.

The most prevalent facial features were short pal pebral fissures (80\%), long and flat philtrum (69\%), thin upper lip (51\%), and hypoplastic midface (45\%). Two or more facial features were noted in $92 \%$ of the cases. The most prevalent CNS impairments included developmental delay (69\%), microcephaly (41\%), speech or language delay (35\%), and short attention span (28\%). M ost (68\%) had low birthweights ( $<2500 \mathrm{~g}$ ), but

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because of the high percentage of preterm deliveries (54\%), only $46 \%$ were small for gestational age (i.e., $\leq 10$ th percentile).

Based on these preliminary data, the minimum FAS prevalence rate for ANs was 2.1 per 1000 live births during 1978-1991 (Table 2). Prevalence estimates were calculated only for ANs because ascertainment was considered incomplete for other racial/ethnic groups.

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TABLE 1. Medical chart verification of identified fetal alcohol syndrome (FAS) cases, by source of data - Alaska, 1977-1992

| Source of data | No. potential cases identified | No. charts abstracted | Alcohol exposure* |  | FAS noted ${ }^{\text {d }}$ |  | No. charts verified using five criterias |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | No. | (\%) ${ }^{\text {I }}$ | No. | (\%) ${ }^{\text {¹}}$ | No. | (\%) ${ }^{\text {¹ }}$ |
| State |  |  |  |  |  |  |  |  |
| Birth certificates | 20 | 16 | 13 | ( 81) | 4 | ( 25) | 2 | ( 13) |
| Death certificates | 3 | 1 | 1 | (100) | 1 | (100) | 1 | (100) |
| Medicaid claims | 46 | 37 | 31 | ( 84) | 21 | ( 57) | 12 | ( 32) |
| Total** | 68 | 53 | 44 | ( 83) | 25 | ( 47) | 14 | ( 26) |
| Indian Health Service FAS/Fetal alcohol |  |  |  |  |  |  |  |  |
| file | 189 | 178 | 152 | ( 85) | 96 | ( 54) | 65 | ( 36) |
| Private sector |  |  |  |  |  |  |  |  |
| Pediatric practice | 116 | 116 | 92 | ( 79) | 25 | ( 22) | 16 | ( 14) |
| Total case-patients** | 348 | 323 | 265 |  | 129 |  | 83 |  |

*Any notation in chart of prenatal alcohol exposure or of a mother with a history of alcohol abuse.
$\dagger$ Suspected or diagnosed.
§Prenatal alcohol exposure or a maternal history of alcohol abuse; suspected or diagnosed FAS by a physician; mention of dysmorphic facial features; growth deficiency (i.e., prenatal or postnatal height or weight $\leq 10$ th percentile for age); and central nervous system impairment.
IPercentage of abstracted charts.
**Unduplicated count.

TABLE 2. Observed rates of chart-verified cases of fetal alcohol syndrome identified by all sources* for Alaskan Natives, by birth year of case-patient - Alaska, 1978-1991

| Birth years | Total live births | Observed cases | Rate $^{\dagger}$ |
| :--- | :---: | :---: | :---: |
| $1978-1982$ | 9,642 | 19 | 2.0 |
| $1983-1987$ | 12,311 | 36 | 2.9 |
| $1988-1991$ | 10,979 | 15 | 1.4 |
| Total $\$$ | $\mathbf{3 2 , 9 3 2}$ | $\mathbf{7 0}$ | $\mathbf{2 . 1}$ |

[^2]Fetal Alcohol Syndrome Surveillance - Continued
Office, and Div of Birth Defects and Developmental Disabilities, National Center for Environmental Health, CDC.
Editorial Note: The findings in this report indicate that multiple data sources are required to ascertain cases of FAS. For example, in Alaska, the state data sources contained only three (19\%) of the 16 cases identified within the pediatric practice and birth certificates identified only two (15\%) of the 13 case-patients born with FAS in 1989 and 1990. Although the FAS Study Group of the Research Society on Alcoholism does not require evidence of alcohol exposure in the diagnosis of FAS (5), a history of maternal alcohol abuse or prenatal alcohol exposure was used in the case definition of this report to further ensure that the persons identified had FAS.

The lower rate of FAS for the most recent birth years may reflect incomplete case ascertainment in those birth cohorts rather than an actual temporal decline in the rate of FAS among ANs. In addition, although the true number of prevalent FAS cases in Alaska is unknown, the count presented in this report probably underestimates the total number. Cases were underascertained for at least three reasons. First, the presence of conditions associated with FAS (i.e., facial features and maternal alcohol use) are generally underreported in medical charts (2). Second, medical charts were not always available directly from the source of the Medicaid billing. Third, because of limited resources, data from only one pediatric practice were included.

The large proportions of FAS cases in the IHS case-file and diagnosed by a dysmorphologist reflect the efforts of IHS to ascertain and treat children who have been affected by prenatal alcohol exposure.

Approaches to improve surveillance and increase ascertainment of FAS cases in Alaska include identifying FAS cases from additional private physician practices and patient-care information systems in additional hospitals throughout the state. These efforts should produce a more accurate estimate of the prevalence of FAS, which is essential for evaluating activities to prevent FAS in Alaska.

## References

1. Abel E, Sokol RJ . Incidence of fetal alcohol syndrome and economic impact of FAS-related anomalies. Drug Alcohol Depend 1987;19:51-70.
2. Little BB, Snell LM, Rosenfeld CR, Gilstrap LC, Gant NF. Failure to recognize fetal alcohol syndrome in newborn infants. Am J Dis Child 1990;144:1142-6.
3. May AM, Hymbaugh DJ, AaseJ M, Samet J M. Epidemiology of fetal alcohol syndrome among American Indians of the Southwest. Soc Biol 1983;30:374-87.
4. Chávez GF, Cordero J F, Becerra J E. Leading major congenital malformations among minority groups in the United States, 1981-1986. In: CDC surveillance summaries (J uly). MMWR 1988; 37(no. SS-3):17-24.
5. Sokol RJ, Clarren SK. Guidelines for use of terminology describing the impact of prenatal alcohol on the offspring. Alcoholism: Clinical and Experimental Research 1989;13:597-8.

# Publication of NIOSH Alerts: Requests for Assistance in Preventing Silicosis and Deaths from Silicosis 

CDC's National Institute for Occupational Safety and Health (NIOSH) periodically issues alerts on workplace hazards that have caused death, serious injury, or illness to workers. Two such alerts were recently released and are available to the public*: Request for Assistance in Preventing Silicosis and Deaths from Sandblasting (1) and Request for Assistance in Preventing Silicosis and Deaths in Rock Drillers (2).

## Request for Assistance in Preventing Silicosis and Deaths from Sandblasting

This alert describes 99 cases of silicosis-a serious and potentially fatal respiratory disease characterized by fibrotic nodules and scarring in the lungs-from exposure to crystalline silica during sandblasting. Of these 99 workers, 14 have died from the disease. This alert provides recommendations to reduce crystalline silica exposures in the workplace and to prevent silicosis and silicosis-related deaths.

This publication also informs sandblasters and their coworkers and employers about the respiratory hazards associated with sandblasting. M ore than 1 million U.S. workers are estimated to be at risk for developing silicosis. More than 100,000 workers at risk are employed as sandblasters. Approximately 59,000 of the 1 million workers exposed to crystalline silica will eventually develop silicosis.

## Request for Assistance in Preventing Silicosis and Deaths in Rock Drillers

This alert describes 23 workers who developed silicosis from exposure to crystalline silica during rock drilling. Two of these workers have died from the disease. This report reviews exposure limits for crystalline silica at surface and underground mines and provides recommendations to reduce crystalline silica exposures in the workplace and to prevent silicosis and silicosis-related deaths.

Exposure to crystalline silica during rock drilling can cause silicosis. Silicosis has been recognized in rock drillers employed in caisson construction, metal mining, slate quarries, tunnel construction, highway and dam construction, rock quarries, and underground coal mines (e.g., roof bolters). In addition, surface coal mine drilling presents a serious respiratory hazard to drillers and driller helpers; most of the recent case reports on silicosis in rock drillers involve surface coal mine drillers.

## References

1. NIOSH. NIOSH alert: request for assistance in preventing silicosis and deaths from sandblasting. Cincinnati: US Department of Health and Human Services, Public Health Service, CDC, NIOSH, 1992; DHHS publication no. (NIOSH)92-102.
2. NIOSH. NIOSH alert: request for assistance in preventing silicosis and deaths in rock drillers. Cincinnati: US Department of Health and Human Services, Public Health Service, CDC, NIOSH, 1992; DHHS publication no. (NIOSH)92-107.
[^3]FIGURE I. Notifiable disease reports, comparison of 4-week totals ending April 24, 1993, with historical data - United States

*The large apparent decrease in reported cases of measles(total) reflects dramatic fluctuations in the historical baseline. (Ratio [log scale] for week sixteen is 0.01829).
${ }^{\dagger}$ Ratio of current 4-week total to mean of 154 -week totals (from previous, comparable, and subsequent 4-week periods for the past 5 years). The point where thehatched area begins is based on the mean and two standard deviations of these 4-week totals.

## TABLE I. Summary - cases of specified notifiable diseases, United States, cumulative, week ending April 24, 1993 (16th Week)

|  | Cum. 1993 |  | Cum. 1993 |
| :---: | :---: | :---: | :---: |
| AIDS* | 37,227 | Measles: imported | 13 |
| Anthrax |  | indigenous | 73 |
| Botulism: Foodborne | 5 | Plague | 1 |
| Infant | 12 | Poliomyelitis, Paralytic§ |  |
| Other | 1 | Psittacosis | 16 |
| Brucellosis | 21 | Rabies, human | - |
| Cholera | 8 | Syphilis, primary \& secondary | 7,900 |
| Congenital rubella syndrome | 4 | Syphilis, congenital, age <1 year | - |
| Diphtheria |  | Tetanus | 6 |
| Encephalitis, post-infectious | 53 | Toxic shock syndrome | 79 |
| Gonorrhea | 110,234 | Trichinosis | 7 |
| Haemophilus influenzae (invasive disease) ${ }^{\dagger}$ | 400 | Tuberculosis | 5,119 |
| Hansen Disease | 45 | Tularemia | 16 |
| Leptospirosis | 12 | Typhoid fever | 86 |
| Lyme Disease | 827 | Typhus fever, tickborne (RMSF) | 24 |

[^4]${ }^{\dagger}$ Of 367 cases of known age, 130 ( $35 \%$ ) were reported among children less than 5 years of age.
${ }^{\S}$ No cases of suspected poliomyelitis have been reported in 1993; 4 cases of suspected poliomyelitis were reported in 1992; 6 of the 9 suspected cases with onset in 1991 were confirmed; all were vaccine associated.

TABLE II. Cases of selected notifiable diseases, United States, weeks ending April 24, 1993, and April 18, 1992 (16th Week)

| Reporting Area | AIDS* | Aseptic Meningitis | Encephalitis |  | Gonorhea |  | Hepatitis (Viral), by type |  |  |  | Legionel-losis | Lyme Disease |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Primary | Post-infectious |  |  | A | B | NA,NB | Unspecified |  |  |
|  | $\begin{aligned} & \hline \text { Cum. } \\ & 1993 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1993 \end{aligned}$ | $\begin{aligned} & \text { Cum. } \\ & 1993 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1993 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1993 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1992 \end{aligned}$ | $\begin{aligned} & \text { Cum. } \\ & 1993 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & \hline 1993 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1993 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1993 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1993 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1993 \end{aligned}$ |
| UNITED STATES | 37,227 | 1,888 | 152 | 53 | 110,234 | 150,106 | 6,278 | 3,221 | 1,306 | 168 | 330 | 827 |
| NEW ENGLAND | 1,651 | 46 | 4 | 3 | 2,346 | 3,187 | 179 | 131 | 6 | 4 | 12 | 80 |
| Maine | 51 | 6 | 1 | - | 31 | 33 | 8 | 5 | - | - | 2 |  |
| N.H. | 50 | 4 | - | - | 15 | 41 | 4 | 13 | - | - | - | 7 |
| Vt. | 8 | 5 | - |  | 9 | 7 | 3 | 2 | 1 |  |  |  |
| Mass. | 819 | 25 | 3 | 3 | 908 | 1,206 | 103 | 100 | 2 | 4 | 8 | 30 |
| R.I. | 80 | 6 | - | - | 113 | 250 | 40 | 11 | 3 | - | 2 | 19 |
| Conn. | 643 | - | - | - | 1,270 | 1,650 | 21 | 1 | - | - | - | 24 |
| MID. ATLANTIC | 6,434 | 155 | 5 | 4 | 11,967 | 15,798 | 300 | 374 | 92 | 3 | 70 | 595 |
| Upstate N.Y. | 1,414 | 83 | - | 1 | 2,483 | 2,409 | 118 | 122 | 46 | 1 | 17 | 419 |
| N.Y. City | 2,774 | 10 | - | - | 3,355 | 6,327 | 17 | 11 |  | - | 1 |  |
| N.J. | 1,570 |  | - |  | 2,290 | 2,462 | 105 | 114 | 31 |  | 10 | 51 |
| Pa. | 676 | 62 | 5 | 3 | 3,839 | 4,600 | 60 | 127 | 15 | 2 | 42 | 125 |
| E.N. CENTRAL | 2,709 | 290 | 50 | 12 | 22,433 | 27,512 | 695 | 353 | 246 | 3 | 87 | 8 |
| Ohio | 497 | 91 | 16 | 2 | 6,645 | 8,445 | 113 | 80 | 24 | - | 49 | 8 |
| Ind. | 433 | 44 | 4 | 5 | 2,370 | 2,689 | 347 | 58 | 4 | 1 | 12 |  |
| III. | 858 | 58 | 9 | - | 7,241 | 8,632 | 159 | 56 | 6 | 1 | 1 | - |
| Mich. | 839 | 89 | 18 | 5 | 4,708 | 6,557 | 73 | 156 | 203 | 1 | 19 | - |
| Wis. | 82 | 8 | 3 | - | 1,469 | 1,189 | 3 | 3 | 9 | - | 6 | - |
| W.N. CENTRAL | 1,941 | 106 | 6 | - | 5,453 | 8,239 | 917 | 242 | 57 | 3 | 14 | 20 |
| Minn. | 322 | 24 | 3 | - | 320 | 1,028 | 132 | 18 | 1 | 2 | - | 2 |
| lowa | 120 | 29 |  | - | 602 | , 522 | 12 | 9 | 2 | 1 | 1 | 1 |
| Mo. | 1,188 | 23 | - | - | 3,096 | 4,533 | 610 | 195 | 42 | - | 4 | 3 |
| N. Dak. | - | 2 | 2 | - | 10 | 30 | 21 | - | - | - | - | - |
| S. Dak. | 18 | 4 | 1 | - | 62 | 65 | 9 |  |  | - | 7 | - |
| Nebr. | 88 | 1 | - | - | 141 | 511 | 97 | 5 | 6 | - | 7 |  |
| Kans. | 205 | 23 | - | - | 1,222 | 1,550 | 36 | 15 | 6 | - | 2 | 14 |
| S. ATLANTIC | 7,778 | 483 | 28 | 22 | 32,677 | 48,820 | 369 | 511 | 180 | 24 | 61 | 79 |
| Del. | 158 | 2 | 1 | - | 415 | 519 | 2 | 44 | 57 | - | 6 | 51 |
| Md. | 591 | 43 | 7 | - | 5,390 | 4,844 | 59 | 91 | 5 | 3 | 16 | 7 |
| D.C. | 354 | 14 | - | - | 1,864 | 2,589 | 2 | 11 | - |  | 8 | 1 |
| Va. | 566 | 57 | 8 | 3 | 3,213 | 6,225 | 52 | 49 | 13 | 10 | 2 | 5 |
| W. Va. | 19 | 5 | 6 | - | 192 | 279 | - | 10 | 9 |  | - | 2 |
| N.C. | 254 | 40 | 5 | - | 7,358 | 6,378 | 14 | 51 | 18 |  | 5 | 6 |
| S.C. | 590 | 2 | - | - | 2,815 | 3,179 | 5 | 10 |  | 1 | 1 |  |
| Ga. | 1,345 | 29 | 1 | - | 4,128 | 16,486 | 35 | 26 | 20 |  | 12 | - |
| Fla. | 3,901 | 291 | - | 19 | 7,302 | 8,321 | 200 | 219 | 58 | 10 | 11 | 7 |
| E.S. CENTRAL | 989 | 101 | 7 | 3 | 13,302 | 14,191 | 91 | 352 | 339 | - | 19 | 4 |
| Ky. | 79 | 45 | 2 | 3 | 1,426 | 1,499 | 51 | 31 | 4 | - | 7 | - |
| Tenn. | 393 | 23 | 4 | - | 4,012 | 4,733 | 18 | 284 | 331 | - | 10 | 2 |
| Ala. | 350 | 26 | 1 | - | 4,833 | 4,551 | 18 | 34 | 2 |  |  | 2 |
| Miss. | 167 | 7 | - | - | 3,031 | 3,408 | 4 | 3 | 2 | - | 2 | - |
| W.S. CENTRAL | 4,497 | 106 | 10 | - | 13,666 | 14,047 | 444 | 369 | 54 | 36 | 8 | 9 |
| Ark. | 181 | 9 | - | - | 1,889 | 2,690 | 16 | 16 | 2 | - | - | 1 |
| La. | 595 | 4 |  | - | 3,385 | 1,874 | 24 | 36 | 18 |  | 2 | - |
| Okla. | 421 | - | 3 | - | 1,048 | 1,444 | 30 | 73 | 17 | 5 | 6 | 5 |
| Tex. | 3,300 | 93 | 7 | - | 7,344 | 8,039 | 374 | 244 | 17 | 31 | - | 3 |
| MOUNTAIN | 2,252 | 112 | 8 | 3 | 3,276 | 3,511 | 1,339 | 202 | 93 | 35 | 31 | 3 |
| Mont. | 10 | , | 8 | 1 | 3, 13 | 33 | 1,35 | 4 | - | 3 | 4 | 3 |
| Idaho | 33 | 3 | - | - | 38 | 41 | 75 | 15 | - | 1 | 1 | - |
| Wyo. | 28 | - | - | - | 24 | 16 | 7 | 7 | 23 | - | 3 | 2 |
| Colo. | 729 | 27 | 3 | - | 1,013 | 1,436 | 319 | 21 | 12 | 17 | 1 |  |
| N. Mex. | 186 | 13 | 2 | 2 | , 304 | , 276 | 100 | 95 | 31 | 1 | 1 | - |
| Ariz. | 799 | 49 | 2 | - | 1,231 | 1,061 | 477 | 30 | 9 | 7 | 7 | - |
| Utah | 161 | 4 | 1 | - | 84 | 68 | 296 | 8 | 14 | 9 | 3 | 1 |
| Nev . | 306 | 16 | - | - | 569 | 590 | 20 | 22 | 4 | - | 11 | - |
| PACIFIC | 8,976 | 489 | 34 | 6 | 5,114 | 14,801 | 1,944 | 687 | 239 | 60 | 28 | 29 |
| Wash. | 139 |  | - | - | 1,102 | 1,265 | 206 | 58 | 53 | 6 | 2 | - |
| Oreg. | 459 | - | ${ }^{-}$ | - | 471 | 426 | 39 | 17 | 4 |  |  | $\stackrel{-}{-}$ |
| Calif. | 8,360 | 461 | 31 | 6 | 3,243 | 12,736 | 1,432 | 600 | 179 | 53 | 23 | 28 |
| Alaska | 7 | 4 | 2 |  | 142 | 225 | 239 | 4 | 1 |  |  |  |
| Hawaii | 11 | 24 | 1 | - | 156 | 149 | 28 | 8 | 2 | 1 | 3 | 1 |
| Guam | - |  | - | - | 14 | 30 | 1 | 1 | - | 1 | - | - |
| P.R. | 953 | 16 | - | - | 152 | 15 | 16 | 64 | 13 | - | - | - |
| V.I. | 33 | - | - | - | 25 | 36 | - | 2 | - | - | - | - |
| Amer. Samoa | - | - | - | - | 7 | 10 | 6 | - | - | - | - | - |
| C.N.M.I. | 1 | 2 | - | - | 22 | 13 | - | - | - | 1 | - | - |

N : Not notifiable

# TABLE II. (Cont'd.) Cases of selected notifiable diseases, United States, weeks ending April 24, 1993, and April 18, 1992 (16th Week) 

| Reporting Area | Malaria | Measles (Rubeola) |  |  |  |  | Menin- <br> gococcal <br> Infections Mumps |  |  | Pertussis |  |  | Rubella |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Indigenous |  | Imported* |  | Total |  |  |  |  |  |  |  |  |  |
|  | $\begin{aligned} & \hline \text { Cum. } \\ & 1993 \end{aligned}$ | 1993 | $\begin{aligned} & \hline \text { Cum. } \\ & 1993 \\ & \hline \end{aligned}$ | 1993 | $\begin{aligned} & \hline \text { Cum. } \\ & \hline 1993 \\ & \hline \end{aligned}$ | $\begin{aligned} & \text { Cum. } \\ & 1992 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1993 \end{aligned}$ | 1993 | $\begin{aligned} & \text { Cum. } \\ & 1993 \\ & \hline \end{aligned}$ | 1993 | $\begin{aligned} & \hline \text { Cum. } \\ & 1993 \end{aligned}$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1992 \\ & \hline \end{aligned}$ | 1993 | $\begin{aligned} & \text { Cum. } \\ & 1993 \end{aligned}$ | $\begin{aligned} & \text { Cum. } \\ & 1992 \\ & \hline \end{aligned}$ |
| UNITED STATES | 282 | 1 | 73 | - | 13 | 563 | 865 | 32 | 508 | 64 | 772 | 356 | 3 | 49 | 45 |
| NEW ENGLAND | 23 | 1 | 42 | - | 4 | 8 | 53 | - | 4 | 2 | 195 | 35 | - | 1 | 4 |
| Maine |  |  |  | - | - |  | 3 |  |  |  | 5 | 2 | - | 1 |  |
| N.H. | 2 | - |  | - | - | 1 | 7 | - |  | 1 | 120 | 14 | - | - | - |
| Vt. | 1 | 1 | 27 | - | 1 |  | 4 | - |  | - | 33 |  | - | - |  |
| Mass. | 10 | - | 7 | - | 2 | 5 | 30 | - | 1 | - | 27 | 16 | - | - | - |
| R.I. | 1 | - | - | - | 1 | 5 | 1 | - | 2 | - | 2 | , | - | - | 4 |
| Conn. | 9 | - | 8 | - | - | 2 | 8 | - | 1 | 1 | 8 | 3 | - | - | - |
| MID. ATLANTIC | 41 | - | 5 | - | 1 | 98 | 108 | - | 47 | 9 | 137 | 60 | - | 7 | 6 |
| Upstate N.Y. | 20 | - | 1 | - | - | 29 | 49 | - | 13 | 4 | 52 | 20 | - | 1 | 4 |
| N.Y. City | 7 | - | - | - | - | 27 | 7 | - | - | - | 5 | 5 | - | - |  |
| N.J. | 8 | - | 4 | - | 1 | 39 | 13 | - | 6 | - | 20 | 16 | - | 5 | 2 |
| Pa. | 6 | - | - | - | - | 3 | 39 | - | 28 | 5 | 65 | 19 | - | 1 | - |
| E.N. CENTRAL | 18 | - | - | - | - | 18 | 125 | 8 | 91 | 9 | 115 | 33 | 1 | 1 | 6 |
| Ohio | 5 | - | - | - | - | 3 | 39 | 6 | 44 | 7 | 80 | 6 | 1 | 1 | - |
| Ind. | 3 | - | - | - | - | 9 | 21 | - | - | 1 | 12 | 9 | - | - | - |
| III. | 8 | - | - | - | - | 5 | 39 | - | 22 | 1 | 9 | 5 | - | - | 6 |
| Mich. | 2 | - | - | - | - | 5 | 25 | 2 | 25 | - | 12 | 1 | - | - | - |
| Wis. | - | - | - | - | - | 1 | 1 | - | - | - | 2 | 12 | - | - | - |
| W.N. CENTRAL | 6 | - | - | - | 1 | 3 | 52 | - | 15 | 22 | 50 | 26 | - | 1 | 2 |
| Minn. | 2 | - | - | - | - | 3 | 2 | - | - | 20 | 20 | 9 | - | - | - |
| lowa | 1 | - | - | - | - |  | 8 | - | 4 |  | 1 | 1 | - | - | - |
| Mo. | 2 | - | - | - | - | - | 21 | - | 6 | 2 | 14 | 9 | - | 1 | - |
| N. Dak. | - | - | - | - | - | - | 1 | - | 4 | - | 1 | 4 | - | - | - |
| S. Dak. | 1 | - | - | - | - | - | 2 | - | - | - | 1 | 1 | - | - | - |
| Nebr. | $\underline{-}$ | - | - | - | - | - | 3 | - | 1 | - | 4 | 2 | - | - |  |
| Kans. | - | - | - | - | 1 | - | 15 | - | - | - | 9 | - | - | - | 2 |
| S. ATLANTIC | 95 | - | 12 | - | 2 | 64 | 173 | 11 | 133 | 12 | 65 | 39 | - | 5 | 2 |
| Del. | 1 | - | - | - | - | 2 | 9 |  | 3 | - |  |  | - | 1 | - |
| Md. | 6 | - | - | - | 1 | 5 | 17 | 3 | 26 | 5 | 28 | 11 | - | 1 | - |
| D.C. | 5 | - | - | - | - | 5 | 4 | - | - |  | - |  | - | - | - |
| Va. | 6 | - | - | - | 1 | 6 | 15 | - | 13 | 1 | 6 | 4 | - | - | - |
| W. Va. | 2 | - | - | - | - |  | 5 | 1 | 4 | 1 | 2 | 2 | - | - | - |
| N.C. | 57 | - | - | - | - | 19 | 31 | 3 | 60 | 2 | 10 | 6 | - | - | - |
| S.C. |  | - | - | - | - | - | 14 | 1 | 13 |  | 5 | 7 |  | - | - |
| Ga. | 2 | U | - | - | - | 32 | 42 | U | - | U | 3 | 2 | U | - | - |
| Fla. | 16 | U | 12 | - | - | 32 | 36 | 3 | 14 | 3 | 11 | 7 | - | 3 | 2 |
| E.S. CENTRAL | 5 | - | - | - | - | 252 | 57 | 4 | 22 | 3 | 30 | 4 | - | - | - |
| Ky . | - | - | - | - | - | 235 | 10 | - | $\bar{\square}$ | 2 | 3 | 2 | - | - | - |
| Tenn. | 1 | - | - | - | - | - | 14 | 1 | 9 | 2 | 18 | 2 | - | - | - |
| Ala. | 2 | - | - | - | - | 17 | 18 | 3 | 9 | 1 | 9 | 2 | - | - | - |
| Miss. | 2 | - | - | - | - | 17 | 15 | - | 4 |  | - | - | - | - | - |
| W.S. CENTRAL | 7 | - | 1 | - | - | 62 | 68 | 4 | 79 | - | 15 | 10 | - | 8 | - |
| Ark. | 1 | - | - | - | - | - | 6 | - | 3 | - | 1 | 4 | - | - | - |
| La. | - | - | 1 | - | - | - | 17 | 1 | 6 | - | 4 | - | - | - | - |
| Okla. | 3 | - | - | - | - | ${ }^{-}$ | 6 | - | 2 | - | 10 | 6 | - | 1 | - |
| Tex. | 3 | - | - | - | - | 62 | 39 | 3 | 68 | - | - | - | - | 7 | - |
| MOUNTAIN | 7 | - | 2 | - | - | 4 | 78 | - | 24 | 2 | 56 | 49 | - | 2 | 1 |
| Mont. | 1 | - | - | - | - | - | 5 | - | - | - | - |  | - | - | - |
| Idaho | - | - | - | - | - | - | 3 | - | 3 | - | 10 | 13 | - | 1 | 1 |
| Wyo. | - | - | - | - | - | 1 | 2 | - | 2 | - | 1 | - | - | - | - |
| Colo. | 4 | - | 2 | - | - | 3 | 9 | - | 4 | I | 20 | 19 | - | - | - |
| N. Mex. | 2 | - | - | - | - |  | 3 | N | N | 1 | 14 | 11 | - | - | - |
| Ariz. | - | - | - | - | - | 3 | 47 | - | 6 | 1 | 7 | - | - | - | - |
| Utah | - | - | - | - | - | 3 | - | 3 | - | 4 | 5 | - | 1 | - | - |
| Nev. | - | - | - | - | - |  | 6 | - | 6 | - | - | 1 | - | - | - |
| PACIFIC | 80 | - | 11 | - | 5 | 54 | 151 | 5 | 93 | 5 | 109 | 100 | 2 | 24 | 24 |
| Wash. | 5 | - | - | - |  | 7 | 20 | 1 | 7 |  | 7 | 29 | - |  |  |
| Oreg. | 2 | - | 5 | - | - | 1 | 16 | N | N | 3 | - | 8 | - | 1 | ${ }^{-}$ |
| Calif. | 71 | - | 5 | - | - | 37 | 105 | 4 | 76 | 3 | 95 | 61 | 1 | 15 | 24 |
| Alaska |  | - | - | - | $\overline{-}$ | 9 | 5 |  | 4 | 2 | 1 | - | - | 1 |  |
| Hawaii | 2 | - | 6 | - | 5 | - | 5 | - | 6 | 2 | 6 | 2 | 1 | 7 | - |
| Guam | 1 | U | 107 | U | - | 4 | 1 | U | 4 | U | - | - | U | - | - |
| P.R. | - | 20 | 107 | - | - | 35 | 5 | - | - | - | - | 8 | - | - | - |
| V.I. | - |  | - | - | - | - | - | - | 2 | - | - | - | - | - | - |
| Amer. Samoa | - | U | 1 | U | - | - | - | U | - | U | 2 | 6 | U | - | - |
| C.N.M.I. | - | - | - | - | - | - | - | - | 9 | - | - | 1 | - | - | - |

*For measles only, imported cases include both out-of-state and internationd importations.

## TABLE II. (Cont'd.) Cases of selected notifiable diseases, United States, weeks ending April 24, 1993, and April 18, 1992 (16th Week)

| Reporting Area | Syphilis <br> (Primary \& Secondary) |  | ToxicShock Syndrome | Tuberculosis |  | Tularemia | Typhoid Fever | Typhus Fever (Tick-bome) (RMSF) | Rabies, Anima |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Cum. $1993$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1992 \\ & \hline \end{aligned}$ | Cum. $1993$ | Cum. $1993$ | Cum. $1992$ | $\begin{aligned} & \text { Cum. } \\ & 1993 \end{aligned}$ | Cum. $1993$ | Cum. $1993$ | $\begin{aligned} & \hline \text { Cum. } \\ & 1993 \\ & \hline \end{aligned}$ |
| UNITED STATES | 7,900 | 10,593 | 79 | 5,119 | 5,781 | 16 | 86 | 24 | 2,160 |
| NEW ENGLAND | 136 | 215 | 8 | 89 | 79 | - | 8 | 2 | 396 |
| Maine | 2 |  | 1 | 7 | 3 | - | - | - |  |
| N.H. | 4 | 16 | 2 | 1 |  | - | - |  | 17 |
| vt. |  | 1 |  | 1 |  | - | - |  | 9 |
| Mass. | 67 | 95 | 4 | 32 | 52 | - | 6 | 2 | 129 |
| R.I. | 3 | 12 | 1 | 16 |  | - | - |  |  |
| Conn. | 60 | 91 | - | 32 | 24 | - | 2 | - | 241 |
| MID. ATLANTIC | 690 | 1,474 | 17 | 1,182 | 1,365 | - | 14 | 2 | 697 |
| Upstate N.Y. | 68 | 106 | 9 | 82 | 181 | - | 5 | - | 514 |
| N.Y. City | 448 | 796 | - | 735 | 768 | - | 4 |  |  |
| N.J. | 113 | 219 |  | 167 | 211 | - | 3 | 2 | 105 |
| Pa . | 61 | 353 | 8 | 198 | 205 | - | 2 | - | 78 |
| E.N. CENTRAL | 1,239 | 1,432 | 26 | 603 | 590 | 2 | 10 | - | 13 |
| Ohio | 349 | 213 | 13 | 86 | 92 | - | 4 | - | 2 |
| Ind. | 124 | 63 | 1 | 60 | 55 | 1 | 1 | - | - |
| III. | 446 | 609 | 1 | 310 | 301 | - | 3 | - | - |
| Mich. | 198 | 297 | 11 | 124 | 121 | 1 | 2 | - |  |
| Wis. | 122 | 250 | - | 23 | 21 | - | - | - | 11 |
| W.N. CENTRAL | 529 | 413 | 6 | 119 | 123 | 2 | 1 | 1 | 104 |
| Minn. | 14 | 32 | 2 | 26 | 33 | - | - | - | 19 |
| lowa | 32 | 10 | 3 | 7 | 8 | - | - | - | 16 |
| Mo. | 411 | 290 | - | 60 | 48 | 1 | 1 | 1 | 1 |
| N. Dak. |  | 1 | - | 1 | 3 | - | - | - | 23 |
| S. Dak. |  |  | - | 6 | 8 | - |  |  | 10 |
| Nebr. | 7 | 15 | - | 5 | 5 | - | - | - | 1 |
| Kans. | 65 | 65 | 1 | 14 | 18 | 1 | - | - | 34 |
| S. ATLANTIC | 2,260 | 2,987 | 8 | 807 | 1,146 | - | 12 | 5 | 562 |
| Del. | 41 | 69 | - | 9 | 16 | - | - | - | 48 |
| Md. | 114 | 237 | - | 127 | 84 | - | 3 | - | 162 |
| D.C. | 147 | 153 | - | 50 | 47 | - | - | - | 4 |
| Va . | 190 | 249 | 1 | 141 | 100 | - | 1 | - | 103 |
| W. Va. | 1 | 3 |  | 24 | 20 | - | - | - | 29 |
| N.C. | 610 | 707 | 3 | 124 | 165 | - | - | 4 | 16 |
| S.C. | 363 | 350 | - | 116 | 114 | - | - | - | 46 |
| Ga. | 376 | 664 | - | 216 | 236 | - | 1 | 1 | 134 |
| Fla. | 418 | 555 | 4 | - | 364 | - | 7 | - | 20 |
| E.S. CENTRAL | 1,032 | 1,480 | 4 | 376 | 327 | 3 | 1 | 3 | 32 |
| Ky. | 79 | 44 | 1 | 96 | 107 |  | - | 2 | 4 |
| Tenn. | 251 | 345 | 2 | 83 | - | 2 | - | - | - |
| Ala. | 262 | 693 | 1 | 133 | 126 | 1 | 1 | - | 28 |
| Miss. | 440 | 398 | - | 64 | 94 | - | - | 1 | - |
| W.S. CENTRAL | 1,855 | 1,735 | 1 | 458 | 484 | 6 | 1 | 11 | 162 |
| Ark. | 283 | 250 | - | 46 | 39 | 3 | - | - | 8 |
| La. | 754 | 787 | - |  | 26 | - | 1 | - |  |
| Okla. | 117 | 73 | 1 | 34 | 36 | 2 | - | 11 | 33 |
| Tex. | 701 | 625 | - | 378 | 383 | 1 | - | - | 121 |
| MOUNTAIN | 70 | 139 | 2 | 149 | 151 | - | 3 | - | 27 |
| Mont. | - | 2 | - | 5 | - | - | - | - | 3 |
| Idaho |  | 1 | - | 3 | 8 | - | - | - |  |
| Wyo. | 2 | 1 | - | 1 |  | - | $\overline{-}$ | - | 5 |
| Colo. | 22 | 22 | 1 | 8 | 17 | - | 2 | - | - |
| N. Mex. | 12 | 16 | - | 18 | 20 | - | - | - | 2 |
| Ariz. | 33 | 60 | - | 70 | 65 | - | 1 | - | 17 |
| Utah | 1 | - | 1 | 9 | 19 | - | - | - | - |
| Nev . | - | 37 | - | 35 | 22 | - | - | - | - |
| PACIFIC | 89 | 718 | 7 | 1,336 | 1,516 | 3 | 36 | - | 167 |
| Wash. | 18 | 38 | - | 79 | 80 | 1 | 2 | - | - |
| Oreg. | 44 | 17 | $\overline{7}$ | 27 | 28 | - | - | - | ${ }^{-}$ |
| Calif. | 20 | 657 | 7 | 1,135 | 1,312 | 2 | 32 | - | 153 |
| Alaska | 2 | 2 | - | 9 | 24 | - | - | - | 14 |
| Hawaii | 5 | 4 | - | 86 | 72 | - | 2 | - | - |
| Guam | - | 1 | - | 18 | 34 | - | - | - | - |
| P.R. | 173 | 63 | - | 44 | 40 | - | - | - | 17 |
| V.I. | 16 | 19 | - | 2 | 2 | - | - | - | - |
| Amer. Samoa |  |  | - | 1 | 2 | - | - | - | - |
| C.N.M.I. | - | 3 | - | 7 | 10 | - | - | - | - |

U: Unavailable

# TABLE III. Deaths in 121 U.S. cities,* week ending April 24, 1993 (16th Week) 

| Reporting Area | All Causes, By Age (Years) |  |  |  |  |  | P\&It ${ }^{\dagger}$ <br> Total | Reporting Area | All Causes, By Age (Years) |  |  |  |  |  | P\&I ${ }^{\dagger}$ <br> Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | All Ages | $\geq 65$ | 45-64 | 25-44 | 1-24 | $<1$ |  |  | $\begin{gathered} \text { All } \\ \text { Ages } \end{gathered}$ | $\geq 65$ | 45-64 | 25-44 | 1-24 | $<1$ |  |
| NEW ENGLAND | 644 | 462 | 111 | 52 | 12 | 6 | 57 | S. ATLANTIC | 1,589 | 1,022 | 305 | 182 | 37 | 41 | 108 |
| Boston, Mass. | 161 | 106 | 25 | 17 | 8 | 4 | 25 | Atlanta, Ga. | 231 | 155 | 42 | 20 | 4 | 10 | 11 |
| Bridgeport, Conn. | 48 | 38 | 8 | 2 |  |  | 4 | Baltimore, Md. | 274 | 166 | 52 | 43 | 7 | 6 | 28 |
| Cambridge, Mass. | 33 | 21 | 6 | 6 | - |  | 3 | Charlotte, N.C. | 111 | 79 | 21 | 9 | 1 | 1 | 7 |
| Fall River, Mass. | 35 | 27 | 4 | 3 | - | 1 | - | J acksonville, Fla. | 135 | 100 | 22 | 9 | 1 | 2 | 6 |
| Hartford, Conn. | 52 | 42 | 5 | 5 | - |  | 2 | Miami, Fla. | 103 | 59 | 24 | 17 | 2 | 1 | 1 |
| Lowell, Mass. | 26 | 21 | 4 |  | - | - | 2 | Norfolk, Va. | 52 | 29 | 8 | 6 | 2 | 7 | 3 |
| Lynn, Mass. | 17 | 12 | 5 | - | - | - | - | Richmond, Va. | 85 | 53 | 23 | 5 | - | 4 | 9 |
| New Bedford, Mass. | 24 | 20 | 4 | - | - |  | 1 | Savannah, Ga. | 55 | 39 | 10 | 3 | 1 | 2 | 4 |
| New Haven, Conn. | 46 | 28 | 10 | 4 | 4 |  | 2 | St. Petersburg, Fla. | 65 | 50 | 7 | 7 | 1 |  | 4 |
| Providence, R.I. | 45 | 32 | 9 | 4 | - |  | 2 | Tampa, Fla. | 185 | 131 | 34 | 14 | 3 | 2 | 20 |
| Somerville, Mass. | 7 | 4 | 1 | 2 | - |  | 1 | Washington, D.C. | 272 | 147 | 59 | 45 | 15 | 6 | 15 |
| Springfield, Mass. | 48 | 33 | 11 | 3 | - | 1 | 2 | Wilmington, Del. | 21 | 14 | 3 | 4 | - | - | - |
| Waterbury, Conn. | 38 | 25 | 11 | 2 |  |  | 2 |  |  |  |  |  |  |  |  |
| Worcester, Mass. | 64 | 53 | 8 | 3 | - | - | 11 | E.S. CENTRAL Birmingham, Ala. | 891 138 | 587 90 | 169 23 | $\begin{aligned} & 74 \\ & 11 \end{aligned}$ | 37 | 24 | 74 5 |
| MID. ATLANTIC | 2,806 | 1,873 | 523 | 297 | 58 | 54 | 169 | Chattanooga, Tenn. | 47 | 33 | 11 | 3 | - | - | 9 |
| Albany, N.Y. | 51 | 38 | 5 | 6 | - | 2 | 2 | Knoxville, Tenn. | 111 | 75 | 27 | 5 | 3 | 1 | 14 |
| Allentown, Pa. | 18 | 10 | 6 | 2 | - |  | 1 | Lexington, Ky. | 68 | 49 | 11 | 5 | 2 | 1 | 6 |
| Buffalo, N.Y. | 110 | 81 | 20 | 7 | - | 2 | 1 | Memphis, Tenn. | 229 | 143 | 45 | 21 | 12 | 8 | 20 |
| Camden, N.J. | 38 | 27 | 6 | 3 | 2 | - | 3 | Mobile, Ala. | 97 | 64 | 14 | 13 | 4 | 2 | 6 |
| Elizabeth, N.J | 25 | 15 | 3 | 5 | 2 |  | 3 | Montgomery, Ala. | 50 | 35 | 10 | 1 | 4 | - | 1 |
| Erie, Pa.§ | 41 | 29 | 8 | 2 | 2 | - | 4 | Nashville, Tenn. | 151 | 98 | 28 | 15 | 5 | 5 | 13 |
| J ersey City, N.J . | 73 | 48 | 17 | 198 | 28 | 29 | 2 |  | 1,398 | 895 | 262 | 162 | 47 | 32 | 73 |
| New York City, N.Y. | 1,482 64 | 947 29 | 280 15 | 198 | 28 | 29 | 70 | W.S. CENTRAL Austin, Tex. | 1,398 74 | 895 48 | 262 | 16 | 2 | 1 | 6 |
| Newark, N.J. | 64 21 | 29 11 | 15 5 | 16 | 2 | 2 | 4 1 | Baton Rouge, La. | 76 | 52 | 11 | 11 | 2 | - | 1 |
| Philadelphia, Pa. | 417 | 294 | 80 | 25 | 10 | 7 | 45 | Corpus Christi, Tex. | 49 | 30 | 13 | 5 | 1 | 5 | 1 |
| Pittsburgh, Pa.§ | 86 | 63 | 13 | 3 | 3 | 4 | 3 | Dallas, Tex. | 218 | 121 | 52 | 28 | 12 | 5 | 3 |
| Reading, Pa. | 16 | 11 | 3 | - | 2 | - | 2 | El Paso, Tex. | 77 | 52 | 12 | 7 | 2 | 4 | 10 |
| Rochester, N.Y. | 126 | 98 | 19 | 7 |  | 2 | 10 | Ft. Worth, Tex. | 116 | 81 | 14 | 10 | 3 | 8 | 6 |
| Schenectady, N.Y. | 32 | 21 | 8 | 2 | 1 | - | 3 | Houston, Tex. | 363 | 217 | 71 | 53 | 16 | 6 | 23 |
| Scranton, Pa.§ | 29 | 22 | 5 | 1 | 1 | - | 1 | Little Rock, Ark. | 52 | 37 | 8 | 6 | 1 | - | 4 |
| Syracuse, N.Y. | 114 | 90 | 15 | 4 | 1 | 4 | 8 | New Orleans, La. | 140 | 91 80 | 27 | 14 | 4 | 4 | 3 |
| Trenton, N.J. | 39 | 19 | 12 | 6 | 1 | 1 | 4 | San Antonio, Tex. | 118 | 80 | 26 | 7 | 3 | 2 | 3 |
| Utica, N.Y. | 24 | 20 | 3 |  | 1 | - | 2 | Shreveport, La. | 12 | 10 | 18 | 7 | 1 | 2 | 2 |
| Yonkers, N.Y. | U | U | U | U | U | U | U | Tulsa, Okla. | 103 | 76 | 18 | 7 | - | 2 | 14 |
| E.N. CENTRAL | 2,472 | 1,589 | 449 | 225 | 124 | 85 | 174 | MOUNTAIN | 813 | 554 | 134 | 77 | 23 | 25 | 56 |
| Akron, Ohio | 52 | 42 | 4 | 5 | 1 |  |  | Albuquerque, N.M. | 115 | 81 | 18 | 8 | 5 | 3 | 3 |
| Canton, Ohio | 41 | 33 | 7 | 1 |  | - | 5 | Colo. Springs, Colo. | . 45 | 24 | 7 | 9 | 2 | 3 | 5 |
| Chicago, III. | 564 | 258 | 107 | 96 | 77 | 26 | 36 | Denver, Colo. | 120 | 80 124 | 19 | 13 | 3 | 5 | 12 |
| Cincinnati, Ohio | 152 | 110 | 27 | 7 | 3 | 5 | 14 | Las Vegas, Nev. | 174 | 124 | 31 | 16 | 2 | 1 | 12 |
| Cleveland, Ohio | 196 | 125 | 43 | 17 | 4 | 7 | 4 | Ogden, Utah | 33 | 22 | 3 | 5 | 2 | 1 | 2 |
| Columbus, Ohio | 202 | 139 | 38 | 14 | 4 | 7 | 16 | Phoenix, Ariz. | 196 | 132 | 33 | 18 | 5 | 8 | 18 |
| Dayton, Ohio | 136 | 99 | 19 | 9 | 6 | 3 | 14 | Pueblo, Colo. | 26 | 21 | 5 | 8 | 4 | 4 | 2 |
| Detroit, Mich. | 233 | 131 | 55 | 26 | 10 | 11 | 12 | Salt Lake City, Utah | 104 | 70 | 18 | 8 | 4 | 4 | 8 |
| Evansville, Ind. | 33 | 23 | 10 | - | - | - |  | Tucson, Ariz. | U | U | U | U | U | U | U |
| Fort Wayne, Ind. | 69 | 49 | 12 | 5 | 2 | 1 | 1 | PACIFIC | 1,854 | 1,210 | 334 | 202 | 64 | 41 | 137 |
| Gary, Ind. | 23 | 19 | 2 | 1 | 1 | 1 | 1 | Berkeley, Calif. | 1,8 | 1,21 | U | U | U | U | U |
| Grand Rapids, Mich. | +49 | 35 131 | 87 | 3 | 2 | 1 | 8 | Fresno, Calif. | 133 | 90 | 24 | 11 | 4 | 4 | 10 |
| Indianapolis, Ind. | 203 | 131 | 37 | 15 | 9 | 11 | 17 | Glendale, Calif. | 22 | 16 | 3 | 2 | 1 | - | 1 |
| Madison, Wis. | 47 | 32 | 9 | 4 | - | 2 | 2 | Honolulu, Hawaii | 91 | 61 | 19 | 5 | 1 | 5 | 4 |
| Milwaukee, Wis. | 163 | 127 | 25 | 5 | 2 | 4 | 22 | Long Beach, Calif. | 65 | 46 | 6 | 9 | 2 | 2 | 6 |
| Peoria, III. | 41 | 30 | 7 | 4 | - |  | 5 | Los Angeles, Calif. | 438 | 256 | 85 | 65 | 26 | 4 | 15 |
| Rockford, III. | 47 | 33 | 6 | 6 | - | 2 | 7 | Pasadena, Calif. | 22 | 20 | 1 |  |  | 1 | 1 |
| South Bend, Ind. | 43 | 32 | 8 | 2 | - | 1 | 3 | Portland, Oreg. | 139 | 100 | 24 | 9 | 5 | 1 | 12 |
| Toledo, Ohio | 101 | 76 | 19 | 4 | 1 | 1 | 6 | Sacramento, Calif. | 164 | 106 | 29 | 19 | 6 | 4 | 15 |
| Youngstown, Ohio | 77 | 65 | 6 | 1 | 2 | 3 | 1 | San Diego, Calif. | 160 | 105 | 23 | 20 | 6 | 5 | 20 |
| W.N. CENTRAL | 801 | 578 | 126 | 50 | 28 | 19 | 82 | San Francisco, Calif. | . 153 | 83 | 34 | 29 | 4 | 3 | 1 |
| Des Moines, lowa | 74 | 49 | 15 | 4 | 2 | 4 | 5 | San J ose, Calif. | 170 | 121 | 30 | 12 | 3 | 4 | 28 |
| Duluth, Minn. | 20 | 18 | 1 | - | 1 | - | 3 | Santa Cruz, Calif. Seattle, Wash. | 33 132 | 23 84 | 7 29 |  | 1 | 5 | 4 |
| Kansas City, Kans. | 48 | 39 | 4 | 2 | 3 | 2 | 2 | Seattle, Wash. Spokane, Wash. | 132 47 | 84 29 | 29 13 | 12 | 2 | 5 2 | 8 |
| Kansas City, Mo. | 112 | 69 | 26 | 9 | 6 | 2 | 9 | Spokane, Wash. | 47 85 | 29 70 | 13 | 2 | 1 | 2 | 5 7 |
| Lincoln, Nebr. | 30 | 20 | 5 | 3 | 2 | - | 1 | Tacoma, Wash. | 85 | 70 |  | 5 | 2 | 1 | 7 |
| Minneapolis, Minn. | 199 | 149 | 30 | 9 | 5 | 6 | 18 | TOTAL 13, | 13,268 ${ }^{\text {¢ }}$ | 8,770 | 2,413 | 1,321 | 430 | 327 | 930 |
| Omaha, Nebr. | 80 | 59 | 13 | 5 | 2 | 1 | 4 |  |  |  |  |  |  |  |  |
| St. Louis, Mo. | 113 | 82 | 15 | 8 | 4 | 4 | 28 |  |  |  |  |  |  |  |  |
| St. Paul, Minn. | 69 | 56 | 9 | 2 | 1 | 1 | 11 |  |  |  |  |  |  |  |  |
| Wichita, Kans. | 56 | 37 | 8 | 8 | 2 | 1 | 1 |  |  |  |  |  |  |  |  |

*Mortality data in this table are voluntarily reported from 121 cities in the United States, most of which have populations of 100,000 or more. A death is reported by the place of its occurrence and by the week that the death certificate was filed. Fetal deaths are not included.
${ }^{\dagger}$ Pneumonia and influenza.
§Because of changes in reporting methods in these 3 Pennsylvania cities, these numbers are partial counts for the current week. Complete counts will be available in 4 to 6 weeks.
ITotal includes unknown ages.
U: Unavailable.

FIGURE II. Acquired immunodeficiency syndrome cases, by 4-week period of report - United States, 1984-1993

*Change to reflect Notice to Readers, Vol. 41, No. 18, p. 325.
FIGURE III. Tuberculosis cases, by 4-week period of report— United States, 1984-1993 4000-

3000 -

| $n$ |
| :--- |
| 0 |
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| 0 |
| 0 |
| $\frac{0}{1}$ |
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| 0 |
| 0 |




FIGURE IV. Gononhea cases, by 4-week period of report — United States, 1984-1993


FIGURE V. Syphillis cases, by 4-week period of report - United States, 1984-1993


## Quarterly AIDS Map

The following map provides information on the reported number of acquired immunodeficiency syndrome (AIDS) cases per 100,000 population by state of residence for April 1992 through March 1993. The map appears quarterly in MMWR. More detailed information on AIDS cases is provided in the quarterly HIV/AIDS Surveillance Report, single copies of which are available free from the CDC National AIDS Clearinghouse, P.O. Box 6003, Rockville, MD 20849-6003; tel ephone (800) 458-5231.

AIDS cases per 100,000 population - United States, April 1992-March 1993


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The data in the weekly MMWR 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. Inquiries about the MMWR Series, including material to be considered for publication, should be directed to: Editor, MMWR Series, Mailstop C-08, Centers for Disease Control and Prevention, Atlanta, GA 30333; telephone (404) 332-4555.

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[^0]:    *The total number of diagnosed 1993-added conditions (i.e., pulmonary TB, recurrent pneumonia, and invasive cervical cancer) is greater than the total number of persons with these conditions because nine persons were reported with more than onecondition.

[^1]:    *Use of trade names and commercial sources is for identification only and does not imply endorsement by the Public Health Service or the U.S. Department of Health and Human Services.

[^2]:    *State, Indian Health Service, and private pediatric practice.
    ${ }^{\dagger}$ Per 1000 live births.

[^3]:    *Single copies of these documents are available without charge from the Information Dissemination Section, Division of Standards Development and Technology Transfer, NIOSH, 4676 Columbia Parkway, Cincinnati, OH 45226; telephone (513) 533-8287 (1:00-4:30 p.m., Eastern time); fax (513) 533-8573.

[^4]:    *Updated monthly; last update April 17, 1993.

