

MORBIDITY AND MORTALITY WEEKIY REPORT

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## Epidemiologic Notes and Reports

## Multi-Drug-Resistant Tuberculosis - North Carolina

A 32-year-old male presented at a hospital emergency room on March 31, 1984, complaining of nausea and vomiting, abdominal pain, headache, and neck stiffness. He was admitted and a tentative diagnosis of viral encephalitis was made. His condition rapidly deteriorated; he became comatose and was transferred to another hospital 4 days later for further evaluation and treatment. A lumbar puncture on April 3 revealed bright yellow cerebrospinal fluid (CSF) with $3.8 \mathrm{~g} / \mathrm{dl}$ protein, $37 \mathrm{mg} / \mathrm{dl}$ glucose, 118 rbc s, and 311 wbc ( $\mathbf{~ ( 1 0 0 \% ~ m o n o n u c l e a r ~}$ cells). A computerized tomography scan of the head showed marked hydrocephalus. The chest radiograph revealed bilateral lower lobe infiltrates and a mass in the left hilar area. The patient's condition worsened, and he died on April 20, 1984.

Autopsy findings revealed basilar meningitis, extensive acute encephalomalacia of the basal ganglia and brain stem, obstructive hydrocephalus, and left hilar lymph node caseation and necrosis. Staining of material from the brain demonstrated acid-fast organisms in isolated necrotic foci. On July 18, 1984, the North Carolina State Laboratory reported identification of Mycobacterium tuberculosis from a brain-tissue-culture specimen taken at autopsy. On August 15, 1984, the laboratory reported identification of $M$. tuberculosis from a culture of the CSF obtained on April 3. Drug-susceptibility studies showed the organism to be resistant to isoniazid (INH), rifampin (RIF), ethambutol (EMB), and streptomycin (SM).

The patient received no anti-tuberculosis drugs while hospitalized. Both the patient and his family gave no history of treatment for tuberculosis. A review of the tuberculosis records systems in North Carolina and South Carolina also revealed no history of prior treatment for tuberculosis.

Subsequent investigation revealed that the patient had resided in North Carolina for approximately 1 year immediately preceding his death. During this time, he was in contact with three other persons with infectious, drug-resistant tuberculosis. Two of these persons had M. tuberculosis isolates with the same pattern of quadruple drug resistance. Table 1 shows the dates of the patients' first TB diagnosis in chronological order. Three of the four patients died from tuberculosis. Patient 4 had the fatal meningitis case reported here.

## Tuberculosis - Continued

The four patients knew one another and had interacted closely. Patients 1 and 2 were living together in May 1978 when Patient 1 was first diagnosed with tuberculosis. Patient 3, until his death, was the proprietor of an entertainment establishment often frequented by the other three. From about June 1983 until April 1984, Patients 1 and 4 lived in adjoining apartments in a small, four-unit converted house. Both had a history of alcohol abuse.

The available information suggests that Patient 1 transmitted quadruple-drug-resistant organisms to Patient 4 between June 1983 and February 1984. Progression from infection to disease was rapid and resulted in fatal tuberculous meningitis in less than 1 year.

After the initial diagnoses, the first three cases were difficult to manage because of the patients' alcohol abuse and the drug-resistant nature of the infections. Cumulatively, Patients 1, 2 , and 3 were admitted 14 times to state tuberculosis hospitals. They continued to have positive smears and cultures and were lost to followup for long periods.

The treatment of Patients 1 and 3 was further complicated by delayed, conflicting, or possibly overlooked laboratory reports. Multiple medical providers and laboratories were involved in their care, and a review of records suggests that information may not have been uniformly shared.

Ten contacts of Patient 1 were evaluated with a Mantoux tuberculin skin test during 1978. Patient 2 was the only person with a significant skin-test reaction ( $>10 \mathrm{~mm}$ ) found among these contacts, and she was not put on tuberculosis preventive therapy. Within the following year, she developed disease, which subsequently was found to be resistant to INH, EMB, and SM, suggesting that she was infected by Patient 1 when he had not yet acquired resistance to RIF. Among her five contacts, one reactor was found and was started on INH preventive therapy.

During October 1980, 13 close contacts of Patient 3 were tested, and six, including his wife and two children, had a significant reaction. Four of the six were started on INH preventive therapy. Fifty-four contacts who worked with Patient 3 were also tuberculin tested, and seven of these had significant reactions.

From October 1984 through December 1985, there was extensive contact investigation around the four cases. Over 415 contaets were evaluated in North Carolina, South Carolina, and the District of Columbia. Fifty-six contacts had significant skin-test reactions. Twenty-nine of these reactors were started on INH preventive therapy. Although no new cases of tuberculosis (disease) were found as a result of contact investigations, a brother of Patient 2, living in Washington, D.C., was diagnosed with pulmonary tuberculosis in June 1984. Susceptibility tests showed the brother's organisms to be resistant to INH and SM.

TABLE 1. Clinical/laboratory data on four tuberculosis patients - North Carolina

| Patient <br> no. | Sex | Date of <br> first TB <br> diagnosis | Age at <br> diagnosis | Date of <br> death | Date of last <br> positive <br> culture | Specimen <br> type | Organism <br> resistant to |
| :--- | :--- | :--- | :---: | :--- | :---: | :--- | :--- |
| 1 | $M$ | $5-78$ | 49 | $5-2-84$ | $4-30-84$ | Sputum | INH,RIF,EMB,SM |
| 2 | F | $7-79$ | 47 | Alive | $8-7-84$ | Sputum | INH,EMB,SMS |
| 3 | $M$ | $9-80$ | 34 | $4-5-85$ | $11-26-83$ | Sputum | INH,RIF,EMB,SM |
| 4 | $M$ | $4-84$ | 32 | $4-20-84$ | $4-3-84$ | CSF | INH,RIF,EMB,SM |

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## Tuberculosis - Continued

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Editorial Note: Transmission of drug-resistant tuberculosis in families and households (1) and in a shelter for the homeless (2) has been previously documented, and community outbreaks of drug-resistant tuberculosis have been reported in Mississippi (3) and in California, Montana, Nevada, and Utah (4). Although phage typing was not done in this investigation, the epidemiologic evidence and similar patterns of drug resistance suggest that Patient 1 (who ultimately died) infected Patients 2 and 4 with multi-drug-resistant tuberculosis and may have infected Patient 3; two additional deaths resulted. Noncompliance with therapy recommendations as well as poor communication among health care providers in various institutional settings contributed to treatment failures in Patients 1, 2, and 3.

This report calls attention to the problems that drug-resistant disease continues to pose to contemporary tuberculosis control programs. To address these problems, tuberculosis control programs should emphasize the following when monitoring all tuberculosis patients:

- continuity and completion of therapy, including direct observation of therapy for patients who are unwilling or unable to take an unsupervised course of therapy;
- effective communication among all health care providers, both within and outside of the health department;
- careful surveillance of mycobacteriology laboratory reports; and
- thorough contact investigations surrounding each case of tuberculosis.

One of the purposes of most tuberculosis contact investigations is to identify persons infected with tuberculosis so that they can be evaluated for preventive therapy. The current standard preventive therapy regimen is INH for 6 to 12 months. In the case of INH-resistant tuberculosis, preventive therapy with 1 year of RIF or INH is considered an acceptable option since INH may be effective in vivo even in the case of laboratory failure (5). However, the contacts in this episode may have been infected with organisms resistant to both INH and RIF, in which case INH and/or RIF preventive therapy would probably not have been effective in preventing disease. These contacts then are at risk of developing drug-resistant disease in the future and of transmitting drug-resistant organisms to others. Health departments should establish special surveillance for such contacts. Certainly, the further spread of these quadruply resistant organisms should be prevented.

This report also points out the need for a readily available, rapid diagnostic test for tuberculosis. There was a 4-month hiatus between culturing the CSF from Patient 4 and the report of drug-resistant $M$. tuberculosis. Faster laboratory techniques for culturing and obtaining drug susceptibility results might have enabled providers to diagnose tuberculosis and institute appropriate therapy early enough to prevent this patient's death.
References

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# Perspectives in Disease Prevention and Health Promotion 

## Drinking and Driving and Binge Drinking in Selected States, 1982 and 1985 - The Behavioral Risk Factor Surveys

During the period 1981-1983, behavioral risk factor surveys were conducted in 28 states and the District of Columbia (1). The surveys were designed to gather data on the prevalence of specific behavioral risk factors in the adult population ( $>18$ years of age) in each state. Since 1984, several states have been collecting risk factor data on a monthly basis as part of the Behavioral Risk Factor Surveillance System. The following analysis was based on the 12 states ("states" includes the District of Columbia) that collected data on drinking and driving and/or binge drinking for 1982 and 1985.

For the purposes of this analysis, the prevalences of drinking and driving and of binge drinking were based on the percentage of persons selecting the answer "One or more times" when asked the following questions:

- For drinking and driving: "During the past month, how many times have you driven when you've had perhaps too much to drink?"
- For binge drinking: "Considering all types of alcoholic beverages, that is beer, wine, liquor, as drinks, how many times during the past month did you have five or more drinks on an occasion?"
Ten of the 12 states that gathered data on binge drinking in 1982 and 1985 also gathered data on drinking and driving. Table 2 shows the prevalence of drinking and driving, by age and sex, in 1982 and 1985 for these 10 states. Table 3 shows the prevalence of binge drinking by age and sex in 1982 and 1985 for all 12 states. The Wilcoxon Signed Rank Test for paired measurements* (2) was used to evaluate observed changes in the prevalence of drinking and driving and binge drinking in this group of states.

All states reporting drinking and driving data showed a decrease in that behavior among males 35 to 54 years of age between 1982 and 1985 (decrease $=10 / 10$ ). However, the decrease was not consistent among either males 18 to 34 years of age ( $5 / 10$ ) or males $\geqslant 55$ years of age ( $5 / 10$ ). For both years, women had lower prevalences than men, but the proportion of states showing a decrease in drinking and driving among women was not statistically significant for any of the three age groups.

Between 1982 and 1985, a significant proportion ( $p=<.05$ ) of the 12 states reporting binge drinking data showed a decrease in the prevalence of binge drinking among men 18 to 34 years of age (10/12) and men 35 to 54 years of age (10/12). A majority of states showed a decrease in binge drinking among men $\geqslant 55$ years of age (8/12), but this change was not statistically significant. A majority of states also showed a decrease in binge drinking for

[^1]
## Drinking and Driving - Continued

women in each age group, but this decrease was statistically significant ( $p=<.01$ ) only among women 18 to 34 years of age.

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TABLE 2. Drinking and driving prevalences (percentages), by sex, age, and state 1982 and 1985 Behavioral Risk Factor Surveys

| Age: State | 18-34 |  |  | 35-54 |  |  | 55+ |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1982 | 1985 | Change | 1982 | 1985 | Change | 1982 | 1985 | Change |
|  | Males |  |  |  |  |  |  |  |  |
| Arizona | 11.3 | 18.6 | 7.3 | 5.1 | 1.4 | -3.7 | 0.6 | 1.7 | 1.1 |
| California | 15.6 | 8.4 | -7.2 | 8.6 | 4.8 | -3.9 | 1.3 | 0.0 | -1.3 |
| District of Columbia | 2.6 | 4.1 | 1.5 | 4.8 | 3.4 | -1.4 | 1.5 | 0.0 | -1.5 |
| Florida | 12.9 | 8.3 | -4.7 | 5.6 | 3.9 | -1.7 | 1.2 | 1.2 | 0.0 |
| Georgia | 8.8 | 12.4 | 3.6 | 9.6 | 4.8 | -4.8 | 1.5 | 0.0 | -1.5 |
| Indiana | 13.1 | 11.9 | -1.2 | 5.9 | 3.6 | -2.3 | 0.0 | 0.8 | 0.8 |
| Kentucky | 5.1 | 5.0 | -0.1 | 2.6 | 0.8 | -1.8 | 1.1 | 0.9 | -0.1 |
| North Carolina | 10.5 | 12.3 | 1.8 | 6.0 | 2.4 | -3.6 | 0.0 | 0.7 | 0.7 |
| Tennessee | 6.4 | 3.7 | -2.7 | 5.8 | 3.0 | -2.8 | 2.2 | 0.0 | -2.2 |
| West Virginia | 7.7 | 12.2 | 4.5 | 1.5 | 1.1 | -0.4 | 0.0 | 0.3 | 0.3 |
|  | $N=10, T^{*}=25, N . S$. |  |  | $\mathrm{N}=10, \mathrm{~T}^{*}=0, \mathrm{p}<0.01$ |  |  | $N=9, T^{*}=14, \mathrm{~N} . \mathrm{S}$. |  |  |
|  | Females |  |  |  |  |  |  |  |  |
| Arizona | 4.9 | 4.6 | -0.3 | 1.1 | 1.9 | 0.8 | 0.3 | 0.0 | -0.3 |
| California | 6.1 | 2.5 | -3.5 | 3.4 | 1.1 | -2.3 | 0.0 | 0.0 | 0.0 |
| District of Columbia | 1.2 | 3.1 | 1.9 | 1.2 | 1.0 | -0.2 | 0.0 | 2.5 | 2.5 |
| Florida | 0.0 | 6.8 | 6.8 | 2.7 | 0.3 | -2.3 | 0.0 | 0.0 | 0.0 |
| Georgia | 7.2 | 0.9 | -6.4 | 1.9 | 2.3 | 0.4 | 0.0 | 0.0 | 0.0 |
| Indiana | 3.5 | 2.9 | -0.6 | 2.6 | 0.9 | -1.7 | 0.0 | 0.0 | 0.0 |
| Kentucky | 4.1 | 1.9 | -2.2 | 0.0 | 0.3 | 0.3 | 0.0 | 0.0 | 0.0 |
| North Carolina | 10.3 | 2.7 | -7.6 | 0.0 | 0.7 | 0.7 | 0.0 | 0.0 | 0.0 |
| Tennessee | 1.5 | 2.4 | 0.9 | 0.0 | 0.3 | 0.3 | 0.0 | 0.0 | 0.0 |
| West Virginia | 2.2 | 0.8 | -1.4 | 1.5 | 0.3 | -1.2 | 0.0 | 0.0 | 0.0 |
|  | $\mathrm{N}=10, \mathrm{~T}^{*}=17$, $\mathrm{N} . \mathrm{S}$. |  |  | $\mathrm{N}=10, \mathrm{~T}^{*}=20, \mathrm{~N} . \mathrm{S}$. |  |  | $\mathrm{N}=2, \mathrm{~T}^{*}=$ undefined, $\mathrm{N} . \mathrm{S}$. |  |  |

[^2]
## Drinking and Driving - Continued

Editorial Note: No comparison data are available to indicate whether the downward changes in self-reported drinking and driving and binge drinking prevalences for these selected states reflect similar changes at the national level. More of the reporting states showed a decrease in the prevalence of binge drinking than in the prevalence of drinking and driving. For men and women of all ages, the prevalence of binge drinking decreased in a majority of the states. By contrast, only for men 35 to 54 years of age and women 18 to 34 years of age did a significant majority of states show a decrease in the prevalence of drinking and driving.

Caution must be exercised in interpreting changes based on the self-reported behaviors from these states. The apparent decreases in binge drinking and in drinking and driving may reflect real decreases in the prevalence of these behaviors in the populations surveyed. However, these changes could also be artifactual, due either to seasonal bias in the surveys done

TABLE 3. Binge drinking prevalences (percentages), by sex, age, and state - 1982 and 1985 Behavioral Risk Factor Surveys

| Age: | $18-34$ |  |  | $35-54$ |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| State | 1982 | 1985 Change | 1982 | 1985 Change |  | 19821985 Change |

Males
Arizona
California
District of Columbia

Florida
Georgia
Indiana
Kentucky
Montana
North Carolina
Ohio
Tennessre
West Virginia

| 43.7 | 42.5 | -1.2 | 28.3 | 20.4 | -8.0 | 13.3 | 10.7 | -2.6 |
| ---: | ---: | ---: | :--- | ---: | ---: | ---: | ---: | ---: |
| 48.6 | 35.4 | -13.2 | 31.4 | 23.8 | -7.6 | 13.9 | 9.9 | -4.0 |
| 30.0 | 23.4 | -6.6 | 27.7 | 26.8 | -0.9 | 9.1 | 7.4 | -1.7 |
| 51.9 | 38.8 | -13.1 | 27.2 | 29.2 | 1.9 | 21.7 | 12.1 | -9.5 |
| 32.4 | 41.2 | 8.8 | 25.8 | 21.3 | -4.4 | 6.4 | 9.2 | 2.8 |
| 51.9 | 47.9 | -4.0 | 32.4 | 23.5 | -9.0 | 21.3 | 11.6 | -9.7 |
| 36.9 | 14.9 | -22.0 | 18.2 | 14.0 | -4.3 | 3.8 | 7.6 | 3.9 |
| 65.9 | 46.7 | -19.3 | 35.5 | 28.6 | -6.9 | 19.6 | 17.5 | -2.1 |
| 35.8 | 34.3 | -1.5 | 24.9 | 13.2 | -11.7 | 6.1 | 7.6 | 1.4 |
| 49.3 | 48.6 | -0.6 | 27.4 | 24.8 | -2.6 | 8.4 | 12.3 | 3.9 |
| 34.3 | 16.4 | -18.0 | 21.5 | 8.0 | -13.5 | 6.1 | 3.5 | -2.5 |
| 31.1 | 36.9 | 5.8 | 15.4 | 17.5 | 2.2 | 9.9 | 4.4 | -5.5 |
| $\mathrm{~N}=12, \mathrm{~T}^{*}=12, \mathrm{P}<0.05$ | $\mathrm{~N}=12, \mathrm{~T}^{*}=5, \mathrm{p}<0.01$ | $\mathrm{~N}=12, \mathrm{~T}^{*}=22, \mathrm{~N} . \mathrm{S}$. |  |  |  |  |  |  |

Females

|  |  |  |  |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Arizona | 21.1 | 18.0 | -3.1 | 8.3 | 9.1 | 0.8 | 4.1 | 3.7 | -0.4 |
| California | 19.3 | 13.7 | -5.7 | 13.3 | 8.8 | -4.6 | 3.1 | 3.9 | 0.8 |
| District of Coiumbia | 14.3 | 17.0 | 2.7 | 12.1 | 11.2 | -0.9 | 5.1 | 1.9 | -3.2 |
| Florida | 19.7 | 16.0 | -3.7 | 14.1 | 8.3 | -5.8 | 4.2 | 4.0 | -0.2 |
| Georgia | 16.6 | 5.7 | -11.0 | 10.1 | 6.2 | -3.9 | 0.9 | 0.0 | -0.9 |
| Indiana | 13.7 | 14.9 | 1.2 | 8.2 | 8.1 | -0.1 | 2.6 | 1.0 | -1.5 |
| Kentucky | 15.0 | 11.1 | -3.9 | 5.6 | 2.8 | -2.8 | 0.0 | 0.0 | 0.0 |
| Montana | 25.2 | 19.6 | -5.6 | 9.6 | 8.5 | -1.1 | 3.2 | 3.0 | -0.3 |
| North Carolina | 17.9 | 9.0 | -8.9 | 1.5 | 2.8 | 1.3 | 4.0 | 0.9 | -3.2 |
| Ohio | 20.8 | 19.2 | -1.6 | 4.1 | 3.6 | -0.5 | 1.9 | 2.2 | 0.3 |
| Tennessee | 7.1 | 5.0 | -2.1 | 2.0 | 1.6 | -0.4 | 0.3 | 0.4 | 0.1 |
| West Virginia | 14.7 | 11.6 | -3.1 | 3.7 | 4.6 | 0.9 | 1.4 | 1.7 | 0.2 |
|  | $\mathrm{~N}=12, \mathrm{~T}^{*}=5, \mathrm{P}<0.01$ | $\mathrm{~N}=12, \mathrm{~T}^{*}=17.5, \mathrm{~N} . \mathrm{S}$. | $\mathrm{N}=11, \mathrm{~T}^{*}=15, \mathrm{~N} . \mathrm{S}$. |  |  |  |  |  |  |

-Signed-rank $T$ statistic.

## Drinking and Driving - Continued

in 1982 or to differences between the 1982 and 1985 surveys caused by non-response or under-reporting.

The 1982 surveys were conducted during a 1- to 6 -week interviewing period. In contrast, the 1985 data were gathered during a 7-day period each month and then aggregated at year's end to eliminate the potential effect of seasonality on health risk behaviors. However, because the 1982 surveys were conducted across all seasons of the year, seasonality is an unlikely explanation for the changes observed between these two sets of surveys.

Non-response and under-reporting could have affected these results. Analysis reveals lower response rates for the 1985 surveys than for the 1982 surveys in these states. It is possible that non-responders are more likely than responders to engage in these behaviors. In addition, the apparent decrease in self-reported drinking and driving or binge drinking may have resulted from greater under-reporting of these socially undesirable behaviors in the 1985 surveys. If this were the case, however, one might expect to see relatively greater decreases in drinking and driving, which is more socially undesirable than binge drinking and has been the focus of universal public interest.

If an actual decrease in these behaviors has occurred, it could be due, in part, to legislative efforts within the states to raise the drinking age as well as to increased enforcement of laws against driving while under the influence of alcohol. It could also be a result of limiting the number of free drinks establishments can provide to customers during "happy hour" or of changes in the social desirability of these behaviors brought on by the activities of groups such as Mothers Against Drunk Driving. The fact that a greater proportion of states has shown a decrease in the prevalence of binge drinking compared with drinking and driving suggests that persons still reporting the latter behavior may be more resistant to change.

Young males (18 to 34 years of age) continue to show the highest prevalence of both drinking and driving and binge drinking. Between 1982 and 1985, neither binge drinking nor drinking and driving decreased significantly for 18 - to 34 -year-old males. Therefore, to prevent alcohol-related injuries and death, young males should remain a priority target group for public health intervention.

## References

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

| Disease | 51 st Week Ending |  |  | Cumulative, 51 st Week Ending |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \hline \text { Dec. } 20, \\ 1986 \\ \hline \end{gathered}$ | $\begin{gathered} \text { Dec., } 21, \\ 1985 \end{gathered}$ | Median $1981-1985$ | $\begin{gathered} \hline \text { Dec. } 20, \\ 1986 \\ \hline \end{gathered}$ | $\begin{gathered} \text { Dec. } 21, \\ 1985 \\ \hline \end{gathered}$ | $\begin{gathered} \text { Median } \\ 1981.1985 \\ \hline \end{gathered}$ |
| Acquired Immunodeficiency Syndrome (AIDS) | $\begin{aligned} & 373 \\ & 150 \end{aligned}$ | $\begin{aligned} & 175 \\ & 159 \end{aligned}$ | N 132 | $\begin{aligned} & 12,777 \\ & 10,421 \end{aligned}$ | $\begin{array}{r} 7.828 \\ 10.158 \end{array}$ | 9.524 |
| Aseptic meningitis <br> Encephalitis: Primary larthropod-bome \& unspec.) Post-infectious | 150 22 2 | 159 21 1 | 132 22 1 | 10,421 1,192 97 | 10.158 1.285 115 | 9,524 1,500 95 |
| Gonorrhea: Civilian | 16.443 | 16,281 | 16.281 | 870,147 | 870,180 | 883,944 |
| Military | 312 | 339 | 380 | 16,641 | 20,144 | 23,534 |
| Hepatitis: Type A | 523 | 472 | 416 | 22,300 | 22,515 | 22,515 |
| Type B | 483 | 564 | 524 | 25,022 | 25,773 | 23,654 |
| Non A, Non B | 44 | 76 | ${ }_{151}$ | 3,370 | 3,986 | N |
| Unspecified | 71 | 105 | 151 | 4.274 | 5,641 | 7.102 |
| Legionellosis | 14 | 18 | N | 792 | 752 | N |
| Leprosy | 7 15 | 4 | 3 9 | 253 | 350 | 237 |
| Malaria Meastes: Total* | 15 | 20 | 9 | 1.064 | 1,008 | 1,008 |
| Meastes: Total* ${ }^{\text {a }}$ Indigenous | 84 | 9 | 9 | 6.216 | 2,735 | 2,557 |
| Indigenous imported | 83 | 9 | N | 5.913 297 | 2,299 $\mathbf{4 3 6}$ | 2,5 |
| Meningococcal infections: Total | 49 | 49 | 50 | 2,384 | 2,336 2,35 | ${ }_{2,641}$ |
| Civilan Military | 49 | 49 | 50 | 2,382 | 2,350 | 2,625 |
| Mumps Military | 220 | 50 | 58 | 2 5.568 | 7 2.893 | 13 3.295 |
| Pertussis | 228 | 72 | 58 58 | 5.568 4.071 | 2,893 3,478 | 3.295 |
| Rubella (German measles) | 2 | 8 | 12 | 4.485 | 3,478 613 | 2,218 |
| Syphilis (Primary \& Secondary): Civilian | 539 | 725 | 579 | 26,618 | 26,401 | 947 30.435 |
| Toxic Shock syndrome Miltary | - | 3 | 3 | 160 | 156 | 30,435 360 |
| Toxic Shock syndrome Tuberculosis | 6 534 | 5 553 | N | 339 | 358 | N |
| Tularemiáa | 534 | 553 | 494 | 21.610 | 21,147 | 23,095 |
| Typhoid fever | 5 | 12 | 3 | 165 311 | 175 | 278 |
| Typhus fe er, tick-borne (RMSF) | 2 | 12 | 10 2 | 311 746 | 381 687 | 393 |
| Rabies, animal | 47 | 85 | 68 | 746 5.192 | 687 5,279 | 960 5.788 |

TABLE II. Notifiable diseases of low frequency, United States

|  | Cum. 1986 |  | Cum. 1986 |
| :---: | :---: | :---: | :---: |
| Anthrax | 18- | Leptospirosis (Hawaii 1) |  |
| Botulism Foodborne | 18 | Plague (N.Mex 1) | 40 10 |
| Infant (Calif. 2) Other | 69 1 | Poliomyelitis, Paralytic (Fla. 1) Psittacosis | 10 |
| Brucellosis (Mo. 2, Fla. 1. N.Mex. 1, Utah 1, Calif. 1) | 84 | Psittacosis (La. 1, Wash. 1) Rabies, human | 93 |
| Cholera | 17 | Tetanus | - |
| Congerital rubella syndrome | 11 | Trichinosis (N.J. 1) | 61 |
| Congenital syphilis, ages < 1 year Diphtheria | 107 | Typhus fever, flea-borne (endemic, murine) | 32 |

[^3]TABLE III. Cases of specified notifiable diseases, United States, weeks ending
December 20, 1986 and December 21, 1985 (51st Week)

| Reporting Area | AIDS | Aseptic Meningitis | Encephalitis |  | Gonorrhea (Civilian) |  | Hepatitis (Viral), by type |  |  |  | Legionellosis | Leprosy |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Primary | Post-infectious |  |  | A | B | NA.NB | Unspectfied |  |  |
|  | $\begin{aligned} & \text { Cum } \\ & 1986 \end{aligned}$ | 1986 | $\begin{aligned} & \text { Cum } \\ & 1986 \end{aligned}$ | $\begin{aligned} & \text { Cum } \\ & 1986 \end{aligned}$ | $\begin{aligned} & \text { Cum } \\ & 1986 \end{aligned}$ | $\begin{aligned} & \text { Cum } \\ & 1985 \end{aligned}$ | 1986 | 1986 | 1986 | 1986 | 1986 | $\begin{aligned} & \text { Cum } \\ & 1986 \end{aligned}$ |
| UNITED STATES | 12,777 | 150 | 1,192 ${ }^{-}$ | 97 | 870.147 | 870,180 | 523 | 483 | 44 | 71 | 14 | 253 |
| NEW ENGLAND | 492 | 5 | 32 | 3 | 23.502 | 22,150 | 9 | 35 | 2 | 6 | 1 | 8 |
| Maine | 20 | - | 4 | - | 825 | 1,127 | - | 6 | - | - | - | - |
| NH | 13 | - | 2 | - | 573 | 568 | - | 5 | - | - | - | - |
| V t | 5 | 2 | 4 | 2 | 263 | 333 | - | 1 | - | - | - | - |
| Mass | 272 | 2 | 6 | - | 8.447 | 9,284 | 9 | 17 | 2 | 5 | 1 | 8 |
| RI | 34 | - | - | - | 1.800 | 1,834 | - | 1 | - | - | - | - |
| Conn | 148 | 1 | 16 | 1 | 11,594 | 9,004 | - | 5 | - | 1 | - | - |
| MID ATLANTIC | 4,722 | 1 | 107 | 10 | 154,213 | 126,988 | 24 | 10 | - | 13 | - | 20 |
| Upstate NY | 492 | - | 36 | 6 | 18,440 | 17,769 | 24 | 9 | - | 2 | - | 1 |
| NY City | 3,182 | 1 | 20 | 1 | 89,440 | 61,945 |  | 1 | . | 11 | - | 18 |
| NJ | 745 | - | 10 | - | 19,915 | 19,362 | - | - | . | , | - |  |
| Pa | 303 | - | 41 | 3 | 26,418 | 27.912 | - | - | - | - | - | 1 |
| EN CENTRAL | 765 | 35 | 365 | 11 | 112,609 | 113,211 | 31 | 52 | 2 | 2 | 5 | 5 |
| Ohio | 154 | 11 | 138 | 3 | 29,827 | 30,979 | 13 | 27 | 2 | - | 4 | - |
| Ind | 67 | U | 82 | 3 | 12,131 | 12,504 | U | U | U | U | U | - |
| III | 363 |  | 50 | 4 | 25,858 | 25,910 | 4 | 5 |  | - | - | 4 |
| Mich | 139 | 24 | 61 | 1 | 37,138 | 32,917 | 14 | 20 | - | 2 | 1 | 1 |
| Wis | 42 | - | 34 | - | 7,403 | 10,901 | - | - | - | . | - | 1 |
| W N CENTRAL | 233 | 1 | 90 | 9 | 37,358 | 40,671 | 9 | 11 | 3 | 2 | - | 4 |
| Minn | 88 | - | 40 | - | 5,359 | 5,936 | 6 | 7 | 1 | - | - | 2 |
| lowa | 20 | 1 | 27 | - | 3.813 | 4.260 | - | 2 | 1 | - | - | - |
| Mo | 73 | - | 3 | - | 18,421 | 19,797 | - | 2 | 1 | - | - | - |
| N Dak | 3 | - | 4 | - | 304 | , 274 | - | 2 | 1 | - | - | - |
| S Dak | 2 | - | 11 | - | 767 | 779 | 1 | - | - | - | - | - |
| Nebr | 11 | - | 2 | 1 | 2,793 | 3,486 | 1 | - | - | - | - | - |
| Kans | 36 | - | 3 | 8 | 5,901 | 6,139 | 1 | - | - | 2 | - | 2 |
| S ATLANTIC | 1.847 | 41 | 153 | 39 | 226,059 | 227,786 | 36 | 123 | 4 | 6 | 6 | 4 |
| Del | 23 | 1 | 6 | - | 3,688 | 4,381 | - | - | - |  |  |  |
| Md | 180 | 2 | 35 | 1 | 26,497 | 29,033 | 5 | 16 | - | 1 | 2 | - |
| DC | 239 | - | 1 | 1 | 16,785 | 15,522 | - | 2 | - | - | . | - |
| Va | 152 | 7 | 43 | 1 | 18,618 | 18,901 | 3 | 10 | 2 | 1 | - | 1 |
| W Va | 8 | 1 | 46 | - | 2,159 | 2,541 | 3 | 4 | . | - | - | 1 |
| NC | 79 | 3 | 18 | 2 | 35,464 | 36,145 | 1 | 19 | $\bullet$ | 2 | 2 | - |
| SC | 50 | 1 | - |  | 19,016 | 21,208 | 3 | 16 | - | 1 | 1 | - |
| Ga | 285 | 4 | - | 1 | 37.467 | 43,944 | 3 | 15 | - | - | , | - |
| Fla | 831 | 22 | 4 | 33 | 66,365 | 56,111 | 18 | 41 | 2 | 1 | 1 | 3 |
| ES CENTRAL | 157 | 11 | 68 | 4 | 69,072 | 75,312 | 3 | 30 | 1 | - | 1 | 1 |
| $K_{y}$ | 28 | 1 | 32 | 1 | 7,668 | 8,654 | 3 | 5 | - | - | 1 | 1 |
| Tenn Ala | 73 | 2 | 8 | 1 | 26,033 | 29,050 | - | 14 | 1 | - | - | - |
| Ala | 29 | 7 | 27 | 2 | 20,283 | 22,506 | 1 | 9 |  | - | - | 1 |
| Miss | 27 | 1 | 1 | 2 | 15,088 | 15,102 | 2 | 2 | - | - | 1 | 1 |
| W S CENTRAL | 1.173 | 40 | 187 |  | 99,895 | 109,637 | 39 | 48 | 4 | 14 | - | 25 |
| Ark | . 29 | 3 | 18 | 4 | 9,487 | 10,218 | 1 | 1 | 1 | 1 | . | 1 |
| La | 153 | 1 | 19 |  | 17,401 | 20,507 | 3 | 5 | - | - | - | 1 |
| Okla | 41 | 2 | 22 |  | 11,503 | 12,214 | 2 | 5 | - | $\stackrel{\square}{-}$ | - | - |
| Tex | 950 | 34 | 146 | 4 | 61.504 | 66,698 | 33 | 37 | 3 | 14 | - | 23 |
| MOUNTAIN | 341 | 7 | 40 | 1 | 25,483 | 27.552 | 68 | 47 | 3 | 5 | 1 | 13 |
| Mont | 5 | - | 1 | 1 | 660 | 785 | 1 | 5 | 3 | 5 | - | 1 |
| Idaho Wyo | 3 4 | - | - | , | 858 | 970 | 2 | 5 | - | - | 1 | - |
| Colo | 4 166 | 5 | 2 | - | 518 6550 | 621 7972 | 9 | 5 | - | - | 1 | - |
| N Mex | 166 | 5 | 5 | - | 6.550 2,728 | 7.972 3.074 | 9 | 5 | - | 4 | - | 3 |
| Aflz | 25 81 | 2 | 3 19 | - | 2,728 | 3,074 | 13 | 61 | 2 | - | - | 7 |
| Utah | 81 20 | 2 | 19 8 | - | 8,171 1093 | 8,473 1,323 | 41 | 21 | 2 | 1 | * | 7 |
| Nev | 20 37 | - | 8 | - | 1,093 4,905 | 1,323 4,334 | 1 1 | 4 6 | 1 | 1. | - | 1 |
| PACIFIC Wash | 3,047 153 | 9 | 150 | 12 | 121,956 | 126,873 | 304 | 127 | 25 | 23 | - | 173 |
| Wash Oreg | $153$ | 1 | 15 | - | 8,694 | 9,861 | 108 | 41 | 3 | 8 | - | 17 |
| Oreg <br> Calif | 62 2.766 | - | 127 | 12 | 5,316 104,333 | 6,305 105,992 | 32 147 | 16 | ${ }_{6}$ | 15 | - | 17 |
| Calif | 2,766 13 | 6 | 127 | 12 | 104,333 | 105,992 | 147 | 66 | 16 | 15 | - | 117 |
| Alaska Hawanı | 13 53 | \% | 7 | - | 2,593 1272 | 3,072 1,643 | 17 | 4 | - | - | - | - |
| Hawall | 53 | 2 | 1 | - | 1,272 | 1.643 | - | - | - | - | - | 38 |
| Guam | 115 | - | $-$ | - | 218 | 192 | - | $\stackrel{\square}{\square}$ | - | - | - | 1 |
| PR | 115 | 1 | 5 | 1 | 2,343 | 3,045 | , | 4 | - | 1 | - | 7 |
| VI | 4 | U | 5 | 1 | 259 | +391 | U | U | U | U | U | 7 |
| Pac Trust Terr | . | U | - | - | 480 | 766 | U | U | U | 2 | U | 63 |
| Amer Samoa | - | - | - | - | 59 |  | - | - | - | 2 | - | 63 3 |

TABLE III. (Cont'd.) Cases of specified notifiable diseases, United States, weeks ending
December 20, 1986 and December 21, 1985 (51st Week)

| Reporting Area | Malaria | Measies (Rubeola) |  |  |  |  | Meningococcal Infections | Mumps |  | Pertussis |  |  | Rubelia |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Indigenous |  | Imported * |  | $\begin{aligned} & \text { Total } \\ & \hline \text { Cum } \\ & 1985 \end{aligned}$ |  |  |  |  |  |  |  |  |  |
|  | $\begin{aligned} & \text { Cum } \\ & 1986 \end{aligned}$ | 1986 | Cum 1986 | 1986 | $\begin{aligned} & \text { Cum } \\ & 1986 \end{aligned}$ |  | $\begin{aligned} & \text { Cum } \\ & 1986 \end{aligned}$ | 1986 | $\begin{aligned} & \text { Cum } \\ & 1986 \end{aligned}$ | 1986 | $\begin{aligned} & \text { Cum } \\ & 1986 \end{aligned}$ | $\begin{aligned} & \text { Cum } \\ & 1985 \end{aligned}$ | 1986 | $\begin{aligned} & \text { Cum } \\ & 1986 \end{aligned}$ | $\begin{aligned} & \text { Cum } \\ & 1985 \end{aligned}$ |
| UNITED STATES | 1.064 | 83 | 5.913 | 1 | 297 | 2.735 | 2,384 | 220 | 5,568 | 28 | 4.071 | 3.478 | 2 | 485 | 613 |
| NEW ENGLAND | 65 | - | 88 | - | 16 | 126 | 168 | 2 | 70 | 4 | 179 | 214 | - | 9 | 14 |
| Maine | 2 | - | 12 | - | 1 | 1 | 29 | . |  | - | 2 | 9 | - | - | - |
| N.H. | 4 | - | 43 | - | - | - | 6 | - | 14 | 2 | 84 | 113 |  | 1 | 3 |
| Vt | 2 | - | $\stackrel{\circ}{ }$ | - | - | - | 19 | 1 | 5 | - | 3 | 4 | - | 1 | - |
| Mass | 33 | - | 24 | - | 13 | 118 | 50 | 1 | 15 | 1 | 57 | 54 | . | 4 | 7 |
| RI | 8 | - | 2 | - | - | - | 23 | . | 13 | 1 | 7 | 22 |  | 2 | - |
| Conn | 16 | - | 7 | - | 2 | 7 | 41 | - | 23 | - | 26 | 12 | - | 1 | 4 |
| MID ATLANTIC | 145 | 70 | 1,940 | - | 37 | 232 | 372 | 2 | 215 | 7 | 221 | 267 | - | 37 | 234 |
| Upstate $N$ Y | 51 | - | 77 | - | 24 | 85 | 135 | - | 73 | 6 | 140 | 130 | - | 27 | 21 |
| NY City | 31 | 70 | 931 | - | 6 | 79 | 71 | $i$ | 29 | - | 10 | 29 | - | 5 | 188 |
| N.J | 37 26 | - | 906 | - | 5 | 28 | 30 136 | 1 | 53 | 1 | 20 | 12 | - | 5 | 11 |
| $\mathrm{Pa}$ | 26 | - | 26 | - | 2 | 40 | 136 | 1 | 60 | 1 | 51 | 96 | - | . | 14 |
| EN CENTRAL | 61 | - | 1.123 | - | 28 | 582 | 366 | 58 | 3.555 | 1 | 386 | 834 | - | 50 | 38 |
| Ohio | 19 | U- | 47 | - | 10 | 60 | 143 | 7 | 143 | - | 167 | 120 | - | 1 | 3 |
| Ind | 2 | U | 27 | U | 11 | 57 | 39 | U | 90 | U | 36 | 201 | U | 1 | 1 |
| 111 | 16 | U | 705 | U | 4 | 346 | 81 | 37 | 2,597 | 1 | 38 | 86 | U | 39 | 20 |
| Mich | 20 | - | 107 | - | - | 60 | 78 | 12 | 442 | , | 36 | 51 | . | 8 | 16 |
| W is | 4 | - | 284 | - | 3 | 59 | 24 | - 2 | 283 | - | 106 | 376 | . | 2 | 1 |
| W N CENTRAL | 32 | - | 324 |  | 18 | 13 | 113 | 38 | 220 | - | 1,408 | 267 | - | 14 | 19 |
| Minn | 10 | - | 45 | $1{ }^{\dagger}$ | 5 | 6 | 24 | 24 | 44 | - | , 48 | 135 | - | 1 | 2 |
| lowa | 1 | - | 133 | - | 1 | - | 11 | 11 | 84 | - | 19 | 34 | - | 1 | 1 |
| Mo | 12 | - | 26 | - | 6 | 4 | 41 | 1 | 26 | - | 24 | 35 | - | 1 | 7 |
| N Dak | - | - | 25 | - | 1 | 2 | 1 | . | 4 | - | 5 | 10 | - | 1 | 2 |
| S Dak | 2 | - | - | - | - | - | 5 | - | 1 | - | 14 | 11 | - | . | $\underline{ }$ |
| Nebr | 4 | - | 1 | - | - | - | 12 | - | 2 | - | 10 | 11 | . | - | - |
| Kans | 3 | - | 94 | - | 5 | 1 | 19 | 2 | 59 | . | 1,288 | 31 | . | 10 | 7 |
| S ATLANTIC | 128 | - | 790 | - | 57 | 342 | 430 | 8 | 258 | 8 | 781 | 566 | - | 12 | 56 |
| Del | 1 | - | 1 | - | - | 342 | 8 |  | 1 |  | 227 | 2 | - | 12 | 2 |
| Md | 14 | - | 26 | - | 9 | 115 | 49 | 1 | 31 | 2 | 167 | 324 | - | 1 | 6 |
| DC | 5 | - | - | - | 2 | 31 | 6 | - | 1 | - | - | - | - |  |  |
| Va | 34 | - | 36 | - | 24 | 28 | 76 | 1 | 46 | 1 | 56 | 21 | . | - | 2 |
| W Va | 4 | - | 2 | - | 2 | 33 | 4 | , | 49 | , | 26 | 5 | - | - | 9 |
| NC | 7 | - | 3 | - | 1 | 9 | 67 | 1 | 29 | 1 | 86 | 39 | - |  | 1 |
| S C | 7 | - | 274 | - | - | 3 | 46 | 3 | 19 | , | 18 | 2 | - | - | 3 |
| Ga | 14 | - | 79 | - | 14 | 8 | 61 | - | 28 | 2 | 135 | 102 | - | - | 3 |
| Fla | 42 | - | 369 | - | 7 | 115 | 113 | 2 | 54 | 2 | 66 | 71 | - | 11 | 30 |
| FS CENTRAL | 21 | - | 61 | - | 9 | 7 | 123 | 83 | 317 | - | 47 | 74 | - | 4 | 3 |
| Śy | 6 | - | 55 | - | 6 | 5 | 30 | 83 | 6 | - | 5 | 9 | - | 4 | 3 |
| Te.nn | 1 | - | 55 | - | 1 | 1 | 37 | 83 | 306 | - | 16 | 28 | - | 4 | 3 |
| Ala | 10 | - | 1 | - | 1 | - | 41 | - | 4 | - | 25 | 30 | - |  |  |
| Miss | 4 | - | 5 | - | 1 | 1 | 15 | - | 1 | - | 1 | 7 | - | - | - |
| W S CENTRAL | 106 | - | 680 | - | 38 | 452 | 222 | 11 | 290 | 1 | 254 | 558 | - | 73 | 42 |
| Ark | 18 | - | 276 | - | 2 | 42 | 30 | 2 | 61 | 1 | 20 | 17 | . | 1 | 1 |
| La | 18 | - | 4 | - | - | 42 | 27 | 2 | 5 | 1 | 16 | 18 | - | 1 | 1 |
| Okla | 12 | - | 37 | - | 2 | 1 | 33 | N | N | - | 129 | 172 | - | - | 2 |
| Tex | 75 | - | 363 | - | 34 | 409 | 132 | 9 | 224 | - | 89 | 351 | . | 72 | 39 |
|  |  |  |  |  |  |  | -12 |  |  |  |  |  |  |  |  |
| MOUNTAIN | 41 | - | 303 | - | 29 | 541 | 112 | 5 | 263 | 1 | 282 | 241 | - | 24 | 6 |
| Mont | 1 | - | 1 | - | 8 | 137 | 11 | - | 6 | - | 20 | 10 | - | 2 | - |
| Wyo | 1. | - | 1 | - | - | 137 5 | 4 2 | - | 9 | - | 51 | 28 | - | - | 2 |
| Colo | 12 | - | 2 | - | 8 | 15 | 21 | - | 17 | - | 66 | 1 94 | - | 1 | - |
| N Mex | 5 | - | 33 | - | 7 | 6 | 13 | N | N | 1 | 66 29 | 94 | - | 1 | 2 |
| Ariz | 15 | - | 252 | - | 6 | 241 | 24 | 5 | 205 | 1 | 65 | 44 | - | 2 | 1 |
| Utah | 4 | - | 13 | - | - | 2 | 10 | 5 | 15 | - | 43 | 53 | - | 15 | 1 |
| Nev | 3 | - | 2 | - | - | - | 27 | - | 11 | - | 4 | 5 | - | 3 | 1 |
| PACIFIC | 465 | 13 | 604 | - | 65 | 440 | 478 |  | 380 | 6 | 513 |  |  |  |  |
| Wash | 32 | - | 148 | - | 28 | 142 | 65 | 13 | 24 | 6 | 513 154 | 457 90 | 2 | 262 | 201 |
| Oreg <br> Calif | 19 413 | 1 | 7 | - | 4 | 5 | 38 | N | N | - | 16 | 50 | - | 4 | 2 |
| Calif Alaska | 413 | 12 | 422 | - | 31 | 269 | 349 | 10 | 324 | 5 | 307 | 270 | 2 | 235 | 136 |
| Alaska Hawaii | 1 | - | 27 | - | 2 | 24 | 14 13 | - | 8 24 | 1 | 5 34 | 30 17 | 2 | - | 1 48 |
| Hawair | 1 | - | 27 | - | 2 | 24 | 13 | - | 24 | 1 | 34 | 17 | - | 6 | 48 |
| Guam | 2 | - | 4 | - | 1 | 11 | 1 | - | 4 | - | - | - | - | 4 | 3 |
| PR | 4 | U | 44 | U | - | 67 | 4 | - | 34 | - | 19 | 16 | - | 62 | 27 |
| VI <br> Pac Trust Terr |  | U |  | U | - | 10 | - | $\mathbf{U}$ | 17 | U | 19 | 16 | U | 62 | 27 |
| Pac Trust Terr Amer Samoa | - | - | 2 |  | - |  | 1 | U | 11 | U | - | - | U | 4 | - |
|  |  |  | 2 |  | - | - |  | - | 5 | - | - | - | - | 1 |  |

-For measies only, imported cases includes both out-of-state and international importations.
N Not notifiable

TABLE III. (Cont'd.) Cases of specified notifiable diseases, United States, weeks ending
December 20, 1986 and December 21, 1985 (51st Week)

| Reporting Area | Syphilis (Civilian) (Primary \& Secondary) |  | Toxic-shockSyndrome | Tuberculosis |  | Tularemia <br> Cum <br> 1986 | Typhord <br> Fever <br> Cum <br> 1986 | Typhus Fever <br> (Tick-borne) <br> (RMSF) <br> Cum <br> 1986 | Rabies. <br> Anımal <br> Cum <br> 1986 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \text { Cum } \\ & 1986 \end{aligned}$ | $\begin{aligned} & \text { Cum } \\ & 1985 \end{aligned}$ |  | $\begin{aligned} & \text { Cum } \\ & 1986 \end{aligned}$ | $\begin{aligned} & \text { Cum } \\ & 1985 \end{aligned}$ |  |  |  |  |
| UNITED STATES | 26,618 | 26,401 | 6 | 21,610 | 21.147 | 165 | 311 | $746+$ | 5,192 |
| NEW ENGLAND | 481 | 572 | 1 | 673 | 697 | 1 | 16 | 13 | 8 |
| Mane | 19 | 17 | - | 34 | 47 | - | - | - | - |
| NH | 13 | 40 | - | 23 | 23 | - | - | 2 | 1 |
| Vt | 9 | 7 | - | 17 | 8 | - | - | - | 2 |
| Mass | 263 | 281 | - | 378 | 405 | 1 | 13 | 4 |  |
| RI | 19 | 17 | 1 | 49 | 52 | - | . | 3 | 3 |
| Conn | 158 | 210 | - | 172 | 162 | - | 3 | 4 | 2 |
| MID ATLANTIC | 3,812 | 3.588 | - | 4,210 | 3,688 | 2 | 24 | $41+$ | 662 |
| Upstate $N \mathbf{Y}$ | 177 | 265 | - | 612 | 644 | - | 4 | 20 | 83 |
| NY City | 2,184 | 2,159 | - | 2,191 | 1,811 | - | 11 | 61 | - |
| N J | 658 | 704 | - | 715 | 479 | 2 | 8 | 2 | 17 |
| Pa | 793 | 460 | - | 692 | 754 | - | 1 | 13 | 562 |
| EN CENTRAL | 823 | 948 | - | 2,531 | 2,592 | 1 | 23 | 46 | 142 |
| Ohio | 125 | 146 | - | 455 | 449 | - | 9 | 40 | 16 |
| Ind | 108 | 83 | U | 269 | 336 | - | 2 | - | 17 |
| III | 370 | 414 | . | 1,100 | 1.136 | - | 3 | 2 | 44 |
| Mich | 179 | 241 | - | 599 | 531 | 1 | 6 | 4 | 25 |
| Wis | 41 | 64 | - | 108 | 140 | - | 3 | - | 40 |
| WN CENTRAL | 204 | 231 | - | 630 | 612 | 48 | 9 | $52+$ | 808 |
| Minn | 33 | 45 | - | 150 | 123 | - | 2 | 1 | 132 |
| lowa | 8 | 19 | - | 46 | 58 | 1 | - | 1 | 185 |
| Mo | 107 | 129 | - | 310 | 298 | 37 | 6 | 281 | 70 |
| N Dak | 5 | 2 | - | 10 | 10 | - | - | 1 | 152 |
| S Dak | 9 | 6 | - | 29 | 31 | 3 | - | 6 | 178 |
| Nebr | 11 | 8 | - | 17 | 18 | 1 | - | 5 | 37 |
| Kans | 31 | 22 | - | 68 | 74 | 6 | 1 | 10 | 54 |
| S ATLANTIC | 8.135 | 7.568 | - | 4.401 | 4,481 | 13 | 47 | 333 | 1.313 |
| Del | 8, 60 | 39 | - | 47 | 51 | - | 1 | 1 | 1 |
| Md | 462 | 487 | - | 306 | 401 | 2 | 16 | 29 | 574 |
| D C | 293 | 333 | - | 160 | 157 | 1 | 4 |  | 36 |
| Va | 324 | 296 | - | 377 | 461 | 3 | 10 | 51 | 199 |
| W Va | 20 | 26 | - | 123 | 107 | - | 3 | 10 | 58 |
| NC | 525 | 676 | - | 674 | 622 | 3 | 4 | 129 | 10 |
| SC | 695 | 793 | - | 569 | 525 | - | 1 | 71 | 65 |
| Ga | 1,478 | 1,371 | - | 741 | 774 | 4 | - | 40 | 198 |
| Fla | 4,278 | 3,547 | - | 1,404 | 1,383 | - | 8 | 2 | 172 |
| ES CENTRAL | 1,737 | 2,023 | 2 | 1,914 | 1.838 | 16 | 4 | 111 | 360 |
| $K_{v}$ | , 68 | 2,023 | 2 | + 439 | + 455 | 7 | - | 22 | 105 |
| Tenn | 613 | 642 | 2 | 569 | 567 | 7 | 1 | 46 | 138 |
| Ala | 514 | 651 | - | 586 | 531 | 1 | 1 | 25 | 114 |
|  | 542 | 665 | - | 320 | 285 | 1 | 2 | 18 | 3 |
| WS CENTRAL | 5.062 | 6.184 | 2 | 2,775 | 2,682 | 68 | 34 | 139 | 708 |
| Ark | 253 | 315 | - | 385 | 333 | 49 | - | 16 | 162 |
| La | 896 | 1,065 | - | 392 | 388 | 1 | 3 | 1 | 22 |
| Okla | 150 | 194 | 2 | 251 | 248 | 13 | 2 | 103 | 61 |
| Tex | 3,763 | 4,610 | - | 1.747 | 1.713 | 5 | 29 | 19 | 463 |
|  | 614 | 750 | 1 | 533 | 571 | 12 | 16 | 10 |  |
| Mont | $\begin{array}{r}7 \\ \hline\end{array}$ | 6 | 1 | 28 | 49 | 1 | 1 | 4 | $\begin{aligned} & 653 \\ & 212 \end{aligned}$ |
| Idaho | 16 | 7 | - | 25 | 25 | . |  | 2 | 9 |
| Wyo <br> Colo | 4 136 | 14 213 | 1 | 64 | 7 91 | 1 | 1 | 1 | 9 278 |
| Colo N Mex | 136 68 | 213 126 | 1 | 64 | 91 | 3 | 1 | 3 | $\begin{array}{r}29 \\ \hline\end{array}$ |
| N Mex <br> Arız | 68 251 | 126 312 | - | 102 242 | 89 250 | 2 | 1 9 | - | 6 101 |
| Utah | 2519 | 12 12 | - | 242 31 | 250 21 | 4 | 9 3 | - | 101 |
| Nev | 113 | 60 | - | 41 | 39 | 1 | 1 | - | 11 |
| PACIFIC | 5.750 | 4,537 | - | 3,943 | 3.986 | 4 | 138 | 1 | 538 |
| Wash | 168 | 111 | - | 213 | 211 | 1 | 3 | 1 | 5 |
| Oreg | 121 | 110 | . | 122 | 131 | 1 | 3 | - | 1 |
| Calif | 5.415 | 4,242 | - | 3,372 | 3,364 | 2 | 128 | 1 | 524 |
| Alaska | 12 | 4 70 | - | 3, 56 | $\begin{array}{r}95 \\ \hline 185\end{array}$ | 1 | 1 | 1 | 8 |
| Hawaı | 34 | 70 | - | 180 | 185 | 1 | 6 | - | 8 |
| Guam PR | 1 849 | 2 869 | - | 35 340 | 38 342 | - | 1 | - | 47 |
| PR | 849 | 869 3 | U | 340 | 342 1 | - | 5 | - | 47 |
| Pac Trust Terr | 314 | 128 | U | 97 | 75 | - | 49 | - | - |
| Amer Samoa | 1 | 128 | - | 5 | 75 | - | 49 | - | - |

U Unavailable

TABLE IV. Deaths in 121 U.S. cities. ${ }^{\circ}$ week ending
December 20, 1986 (51st Week)

| Reporting Area | All Causes, By Age (Yeers) |  |  |  |  |  | $\begin{aligned} & \text { Pa } 1^{\circ-} \\ & \text { Total } \end{aligned}$ | Reporting Area | All Causes, By Age (Yeers) |  |  |  |  |  | $\begin{aligned} & \text { P\&1 } 1^{\bullet} \\ & \text { Total } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\underset{\text { Ages }}{\text { All }}$ | $\geqslant 65$ | 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 | 727 | 488 | 153 | 51 | 12 | 23 | 43 | S ATLANTIC | 1,226 | 785 | 254 | 94 | 27 | 66 | 67 |
| Boston, Mass. | 178 | 111 | 37 | 15 | 3 | 12 | 17 | Atlanta, Ga | 158 | 100 | 30 | 14 | 2 | 12 | 4 |
| Bridgeport, Conn | 61 | 41 | 16 | 3 | 1 | - | 1 | Baltimore, Md | 172 | 96 | 48 | 13 | 5 | 10 | 10 |
| Cambridge, Mass | 32 | 27 | 3 | 2 | - | - | 3 | Charlotte, N. | 80 | 51 | 17 | 4 | 1 | 7 | 5 |
| Fall River. Mass | 28 | 19 | 8 |  | 1 |  | - | Jacksonville. Fla | 119 | 79 | 24 | 7 | 1 | 8 | 11 |
| Hartford. Conn | 87 | 55 | 20 | 6 | 3 | 3 | 1 | Miami, Fla | 108 | 68 | 25 | 9 | 3 | 3 | 3 |
| Lowell. Mass | 27 | 17 | 8 | 1 | 1 | . | 2 | Norfolk, Va | 71 | 40 | 12 | 7 | 3 | 9 | 5 |
| Lynn, Mass | 20 | 15 | 4 | 1 | - | - | 2 | Richmond, Va | 76 | 46 | 21 | 4 | 2 | 3 | 6 |
|  | s 29 | 25 | 3 | 1 | - | - | - | Savannah, Ga | 46 | 28 | 7 | 7 | 3 | 1 | 7 |
| New Bedford, Mass New Haven, Conn. | 61 | 37 | 13 | 7 | 2 | 2 | 2 | St Petersburg. Fla | 138 | 115 | 15 | 5 | 1 | 2 | 8 |
| Providence, R.I | 59 | 43 | 10 | 3 | - | 3 | 8 | Tampa, Fla | 69 | 44 | 14 | 3 | 3 | 5 | 3 |
| Somerville, Mass | 6 | 4 |  | 2 | - | - | - | Washington. D C | 165 | 98 | 39 | 19 | 3 | 6 | 5 |
| Springfield, Mass | 50 | 30 | 12 | 5 | 1 | 2 | 4 | Wilmington, Del | 24 | 20 | 2 | 2 | - | - |  |
| Waterbury. Conn. | 34 | 25 | 5 | 3 | - | 1 | 3 |  |  |  |  |  |  |  |  |
| Worcester, Mass | 55 | 39 | 14 | 2 | - | - | - | ES CENTRAL | 832 | 550 | 183 | 51 | 16 | 32 | 44 |
|  |  |  |  |  |  |  |  | Birmingham. Ala | 137 | 87 | 29 | 11 | 5 | 5 | 4 |
| MID ATLANTICAlbany. N Y | 2,961 | 1.980 | 581 | 262 | 71 | 66 | 153 | Chattanooga. Tenn | 91 | 61 | 15 | 5 | - | 10 | 3 |
|  | 53 | 40 | 9 | 1 | 3 | . | . | Knoxville. Tenn | 75 | 51 | 17 | 5 | 2 | - | 4 |
| Albany, N Y <br> Allentown, Pa | 20 | 20 | - | - | . | - | - | Louisville, $\mathrm{K}_{\mathbf{y}}$ | 120 | 82 | 28 | 5 | 1 | 4 | 9 |
| Buffalo. NY | 90 | 61 | 20 | 4 | - | 5 | 6 | Memphis. Tenn | 156 | 106 | 31 | 10 | 2 | 7 | 14 |
| Camden, NJ | 40 | 30 | 8 | 2 | - |  | 4 | Mobile, Ala | 74 | 48 | 21 | 1 | 1 | 3 | 4 |
| Elizabeth, N.J | 24 | 16 | 3 | 4 | 1 | - | 2 | Montgomery. Ala | 34 | 20 | 9 | 4 | 1 | - |  |
| Erie. Pa. $\dagger$ Jersey City. NJ | 53 | 38 | 7 | 5 | 2 | 1 | 1 | Nashville. Tenn | 145 | 95 | 33 | 10 | 4 | 3 | 6 |
|  | 42 | 29 | 6 | 6 | - | 1 | 1 |  |  |  |  |  |  |  |  |
| NY City, NYNewark, NJ | 1.597 | 1,044 | 311 | 171 | 40 | 31 | 79 | WS CENTRAL | 1,317 | 822 | 285 | 120 | 40 | 50 | 60 |
|  | 126 | 51 | 36 | 20 | 8 | 10 | 2 | Austin. Tex | 77 | 52 | 9 | 7 | 5 | 4 | 7 |
|  | 39 | 30 | 5 | 4 | - | - | 4 | Baton Rouge, La | 28 | 18 | 6 | 2 | 2 | - | 1 |
| Paterson, N J Philadelphia, Pa | 399 | 265 | 93 | 28 | 9 | 4 | 19 | Corpus Christi, Tex | 59 | 40 | 11 | 5 | 1 | 2 |  |
| Pittsburgh, Pa $\dagger$ | 85 39 | 59 37 | 21 | 1 | - | 4 | 7 | Dallas. Tex | 205 | 116 | 49 | 26 | 4 | 10 | 8 |
| Reading. Pa | 39 131 | 37 98 | 2 | 8 | 2 | 5 | 5 | El Paso. Tex | 72 | 51 | 9 | 5 | 2 | 5 | 3 |
| Rochester, NY | 131 27 | 98 15 | 18 | 8 | 2 | 5 | 9 | Fort Worth. Tex | 95 | 61 | 18 | 6 | 4 | 6 | 5 |
| Schenectady, N Y | 27 39 | 15 33 | 5 5 | 5 | 1 | 1 | 1 | Houston. Tex | 288 | 156 | 80 | 37 | 8 | 7 | 9 |
| Syracuse, NY | 72 | 55 | 12 | - | 2 | 3 | 3 7 | New Orleans. La | 54 73 | 39 | 10 | 2 | - | 3 | 5 |
| Trenton, NJ | 32 | 19 | 11 | 1 | 1 | . | 1 | San Antonio. Tex | 176 | 109 | 41 | 14 | 7 | 5 |  |
| Utica, NY | 27 | 23 | 3 | 1 | - |  | - | Shreveport. La | 74 | 56 | 14 | 14 2 | 1 | 1 | 6 |
| Yonkers. NY | 26 | 17 | 6 | 1 | 1 | 1 | 2 | Tulsa, Okla | 116 | 74 | 23 | 9 | 4 | 6 | 8 |
| E.N CENTRAL Akron. Ohio | 2.357 | 1.569 | 498 | 146 | 59 | 85 | 74 | MOUNTAIN | 695 | 456 | 140 |  |  |  |  |
|  | 61 | 42 | 12 | 2 | 1 | 4 | - | Albuquerque. N Mex | + 98 | 456 | 140 | 57 13 | 23 | 19 | 28 |
| Canton, Ohio | 34 | 30 | 2 | 2 | - | - | 6 | Colo Springs. Colo | 38 | 18 | 23 | 13 | 2 | 2 | 4 |
| Chicago. III § | 564 | 362 | 125 | 45 | 10 | 22 | 16 | Denver, Colo | 34 117 | 18 | 9 | 1 | 4 | 2 | 7 |
| Cincinnati, Ohio | 156 | 103 | 33 | 8 | 1 | 11 | 8 | Las Vegas. Nev | 117 | 89 73 | 17 | 8 | - | 3 | 3 |
| Cleveland. Ohio | 171 | 106 | 43 | 9 | 4 | 9 | 6 | Ogden, Utah | 110 | 12 | 19 | 12 | 4 | 2 | 7 |
|  | 179 | 115 | 43 | 8 | 9 | 4 | 5 | Phoenix, Ariz | 112 | 72 | 17 | 9 | 1 | 3 | 1 |
| Dayton, Ohio | 108 | 67 | 28 | 5 | 4 | 4 | 5 | Pueblo. Colo | 112 | 73 | 17 | 9 | 6 | 7 | 4 |
| Detroit. MichEvansville. Ind | 241 | 153 | 50 | 22 | 8 | 8 | 3 | Salt Lake City. Utah | 32 57 | 23 | 8 | 6 | 1 | 2 |  |
|  | 46 | 36 | 7 | 2 | 1 |  | 1 | Tucson, Ariz | 57 | 26 | 21 | 6 | 2 | 2 | 1 |
| Fort Wayne. Ind | 58 | 43 | 9 | 4 | 1 | 1 |  | Tucson, Ariz | 112 | 82 | 19 | 8 | 3 |  | 1 |
| Gary. Ind Grand Rapids. Mich | 16 | 8 | 3 | 3 | 1 | 1 | - | PACIFIC | 1,988 | 1.337 | 385 |  | 39 |  |  |
|  | h 52 | 40 | 7 | 1 | 3 | 1 | 5 | Berkeley, Calif | 1,988 | $\begin{array}{r}1.337 \\ \hline 22\end{array}$ | 28 | 173 2 | 39 | 45 | 3 |
| Indianapolis. Ind | 194 | 125 | 45 | 14 | 8 | 2 | 4 | Fresno. Calif | 102 | 67 | 24 | 3 | 2 | 6 | 5 |
| Madison. Wis Milwaukee. Wis | 32 | 26 | 5 | 1 |  | 2 | 4 | Glendale, Calif | 25 | 20 | 24 3 | 3 2 | 2 | 6 | 2 |
|  | 145 | 92 | 33 | 8 | 3 | 9 | 3 | Honolulu. Hawaii | 87 | 52 | 24 | 5 | 1 | 5 | 5 |
| Peoria. III. | 46 | 31 35 | 7 | 4 | 2 | 2 | 4 | Long Beach. Calif | 105 | 80 | 17 | 5 | 2 | 1 | 20 |
| Rockford, III. | 47 | 35 | 6 | 2 | 1 | 3 | 2 | Los Angeles. Calif | 483 | 305 | 104 | 52 | 11 | 5 | 14 |
| South Bend. Ind Toledo. Ohio | 56 97 | 44 | 10 | 1 | 1 |  | 2 | Oakland. Calif | 80 | 55 | 19 | 2 | 2 | 2 | 2 |
| Youngstown. Ohio | 97 54 | 72 39 | 18 | 3 | 1 | 3 | 5 | Pasadena. Calif | 30 | 20 | 5 | 1 | - | 4 | 3 |
|  | 54 | 39 | 12 | 2 | - | 1 | - | Portland. Oreg. <br> Sacramento Calif | 113 | 83 128 | 17 | 9 | 2 | 2 | 10 |
| W N CENTRAL | 848 | 559 | 177 | 64 | 21 | 26 | 48 | San Diego, Calif | 168 | 126 | 27 | 10 | 2 | 3 | 22 |
| Des Moines, lowa | 58 | 42 | 8 | 3 | 2 | 2 | 4 | San Francisco. Calif | 167 | 100 89 | 27 34 | 17 | 3 | 2 | 15 |
| Duluth, Minn | 15 | 11 | 2 | 1 | - | 1 | - | San Jose, Calif | 167 | 89 132 | 34 34 | 32 | 5 | 6 | + 5 |
| Kansas City. Kans | 38 | 27 | 7 | 2 | 1 | 1 | 2 | Seattle, Wash | 193 | 132 114 | 34 | 17 | 4 | 6 | 15 |
| Kansas City. Mo | 115 | 73 | 29 | 7 |  | 6 | 8 | Spokane, Wash | 160 | 114 | 28 | 14 | 2 | 2 |  |
| Lincoln. Nebr | 38 | 27 | 7 | 4 |  |  | - | Tacoma. Wash | 45 | 36 | 12 | 2 | 3 | , | 11 |
| Minneapolis. Minn | 181 | 120 | 33 | 17 | 9 | 2 | 12 | Tacoma. Wash | 45 | 36 | 8 |  | - | 1 |  |
| Omaha, Nebr | 82 | 48 | 18 | 9 | 1 | 6 | 3 | TOTAL | 12,951 ${ }^{\text {t }}$ | 8.546 | 2,656 | 1.018 | 308 | 412 | 655 |
| St Louis. Mo | 182 | 113 | 46 | 14 | 3 | 6 | 10 |  |  |  | 2,656 | 1,018 |  | 412 | 65 |
| St Paul, Minn Wichita, Kans | 75 | 50 | 18 | 4 | 1 | 2 | 1 |  |  |  |  |  |  |  |  |
|  | 64 | 48 | 9 | 3 | 4 |  | 8 |  |  |  |  |  |  |  |  |

[^4]
## Epidemiologic Notes and Reports

## Regional Workshop on Dracunculiasis in Africa

The First Regional Workshop on Dracunculiasis (guinea-worm disease) in Africa was convened at the Palais des Congrés in Niamey, Niger, from July 1-3, 1986. Over 50 participants attended, including representatives of 14 of the 19 African countries affected (Benin, Burkina Faso, Cameroon, Chad, Côte d'lvoire, Ethiopia, Guinea, Mali, Niger, Nigeria, Senegal, Sudan, Togo, and Uganda). The objectives of the workshop were to assist the affected member states in:

- reviewing the progress made to date in establishing a reasonable baseline for the necessary surveillance;
- clarifying the extent of the disease and its adverse socioeconomic impact;
- reviewing the various intervention measures and strategies available for guinea-worm control and their relative cost-effectiveness; and
- identifying areas in which specific research is required.

Significant new surveillance information was presented at the workshop. With the exception of Côte d'lvoire, all the data on nationally reported incidence in Africa are based on passive surveillance. The following eight countries in the African Region reported surveillance information covering 1985: Burkina Faso, Cameroon, Côte d'lvoire, Ethiopia, Mali, Mauritania, Togo, and Uganda. Although this represents an improvement over recent years, several countries are still not providing official reports.

Numerous qualitative, anecdotal examples of the negative socioeconomic effects of dracunculiasis were cited during the meeting. These included temporary disability lasting for months or even up to a year in some victims; permanent disability (unusual although not rare); sterility; frequent absenteeism from school; and substantial agricultural losses.

The disease is sporadically distributed over a wide band north of the equator from Mauritania to Ethiopia. Over 100 million people are now estimated to be at risk of contracting dracunculiasis in Africa alone, if one considers as being at risk any person living in a rural district or subprefecture where at least one case of the disease occurs.

Although dracunculiasis is officially reportable in at least eight of the countries affected (Benin, Burkina Faso, Cameroon, Côte d'Ivoire, Ethiopia, Ghana, Togo, and Uganda), it is still vastly under-reported even in those countries.
Adapted from WHO Weekly Epidemiological Record 1986;61:321-4.
Editorial Note: At the time of this conference, eight of the 19 affected African countries (Benin, Burkina Faso, Cameroon, Côte d'lvoire, Niger, Nigeria, Togo, and Uganda) had dracunculiasis programs underway or planned. This meeting took place 6 weeks after the 39 th World Health Assembly adopted a resolution calling for elimination of dracunculiasis. A second African regional meeting on this subject is to be held in Accra, Ghana, in 1988.

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

| Disease | 52nd Week Ending |  |  | Cumulative, 52nd Week Ending |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \hline \text { Dec. } 27, \\ 1986 \\ \hline \end{gathered}$ | $\begin{gathered} \text { Dec. } 28, \\ 1985 \end{gathered}$ | Median 1981.1985 | $\begin{gathered} \text { Dec. } 27 \\ 1986 \end{gathered}$ | $\begin{gathered} \text { Dec. } 28 \\ 1985 \end{gathered}$ | Median 19811985 |
| Acquired Immunodeficiency Syndrome (AIDS) | $90$ | 183 | N | 12,874 | 8,011 | N |
| Aseptic meningitis | $165$ | 221 | 209 | 10,613 | 10,379 | 9.733 |
| Encephalitis: Primary (arthropod-borne \& unspec) | 18 | 35 | 40 | 1.213 | 1.320 | 1.540 |
| Gonorrhea: $\begin{aligned} & \text { Post-infectious } \\ & \text { Civilian }\end{aligned}$ | 13, $\begin{array}{r}1 \\ 134\end{array}$ | 13.646 | $14.10^{3}$ | + 98 | 118 | 101 |
| Gonorrhea: Civilian | 13,134 | 13,646 | 14,160 | 884,235 | 883,826 | 898,104 |
| Military | 209 | 344 | 344 | 16,887 | 20,488 | 23,791 |
| Hepatitis: Type A | 378 | 654 | 727 | 22,703 | 23.169 | 23,169 |
| Type E | 386 | 755 | 755 | 25,452 | 26,528 | 24,482 |
| Non A, Non B | 58 | 95 | N | 3,435 | 4.081 | N |
| Legionellosis Unspecified | 73 | 114 | 156 | 4.339 | 5.755 | 7.251 |
| Legionellosis Leprosy | 18 | 28 | N | 810 | 780 | N |
| Malaria | 1 14 | 2 | 12 | 254 | 352 | 251 |
| Measles: Total ${ }^{\text {a }}$ | 14 | 26 | 30 | 1.080 | 1.034 | 1,034 |
| Measles. Indigenous | 20 20 | 77 74 | 48 | 6,236 5,933 | 2,812 2,373 | 2.579 N |
| Imported | 20 | 74 3 | N | 5.933 297 | 2,373 439 | N N |
| Meningococcal infections: Total | 49 | 68 | 86 | 2,443 | 2,425 | 2.729 |
| Civilian Military | 49 | 68 | 85 | 2,441 | 2,418 | 2,713 |
| Mumps Military | 275 | 62 | 84 | 5 2 | 7 295 | 14 3.348 |
| Pertussis | 275 23 | 62 101 | 84 | 5,845 | 2,955 | 3,348 |
| Rubella (German measles) | 23 15 | 101 | 101 | 4,100 | 3.579 618 | 2,288 959 |
| Syphilis (Primary \& Secondary): Civilian | 15 456 | 5 467 | 12 459 | 500 27.098 | 618 26.868 | 959 30.876 |
| Toxic Shock syndrome Military | 1 | 7 | 7 | 27,098 161 | 26,868 163 | 361 |
| Toxic Shock syndrome Tuberculosis | 5 | 9 | N | 345 | 367 | N |
| Tularemia | 532 | 997 | 864 | 22,149 | 22,144 | 23,840 |
| Typhoid fever | 11 | 3 | 11 | 166 | 22, 178 | - 288 |
| Typhus fever, tick-borne (RMSF) | 11 | 22 | 22 | 322 | 403 | 420 |
| Rabies, anımal | 1 48 | 11 115 | 11 100 | 745 5,242 | 698 5.394 | 971 5.824 |

## TABLE II. Notifiable diseases of low frequency, United States

|  | Cum. 1986 |  | Cum. 1986 |
| :---: | :---: | :---: | :---: |
| Anthrax | - | Leptospirosis | 40 |
| Botulism. Foodborne | 18 | Plague | 10 |
| Infant (Calif. 1) | 70 | Poliomyelitis, Paralytic | 2 |
| Other | 1 | Psittacosis (Oreg. 1, Calif. 1) | 95 |
| Brucellosis (Mass. 2, Ark. 1) | 87 | Rabies, human | - |
| Cholera | 17 | Tetanus | 61 |
| Congenital rubella syndrome | 11 | Trichinosis | 32 |
| Congenital syphilis, ages < 1 year Diphtheria | 107 | Typhus fever, flea-borne (endemic, murine) | 48 |

[^5]TABLE III. Cases of specified notifiable diseases, United States, weeks ending
December 27, 1986 and December 28, 1985 (52nd Week)

| Reporting Area | AIDS | Aseptic Meningitis | Encephalitis |  | Gonorrhea (Civilian) |  | Hepatitis (Viral), by type |  |  |  | Legionellosis | Leprosy |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Primary | $\begin{aligned} & \text { Post-in- } \\ & \text { fectious } \end{aligned}$ |  |  | A | B | NA,NB | Unspecified |  |  |
|  | $\begin{aligned} & \text { Cum } \\ & 1986 \end{aligned}$ | 1986 | $\begin{aligned} & \text { Cum } \\ & 1986 \end{aligned}$ | $\begin{aligned} & \text { Cum } \\ & 1986 \end{aligned}$ | $\begin{aligned} & \text { Cum } \\ & 1986 \end{aligned}$ | $\begin{aligned} & \text { Cum } \\ & 1985 \end{aligned}$ | 1986 | 1986 | 1986 | 1986 | 1986 | $\begin{aligned} & \text { Cum } \\ & 1986 \end{aligned}$ |
| UNITED STATES | 12,874 | 165 | 1,213 | 98 | 884.235 | 883,826 | 378 | 386 | 58 | 73 | 18 | 254 |
| NEW ENGLAND | 492 | - | 32 | 3 | 24,121 | 22,540 | 12 | 30 | 2 | 8 | - | 8 |
| Maine | 20 | - | 4 | - | 847 | 1.147 | - | 1 | - | . | - | - |
| NH | 13 | - | 2 | - | 584 | 573 | 2 | 9 | - | - | - | - |
| Vt | 5 | - | 4 | 2 | 264 | 335 | - | 2 | - | - | - | - |
| Mass | 272 | - | 6 | - | 8,656 | 9,528 | 4 | 14 | 2 | 8 | - | 8 |
| RI | 34 | - | - | - | 1,866 | 1.843 | - | - | . | . |  | - |
| Conn | 148 | - | 16 | 1 | 11,904 | 9.114 | 6 | 4 | . | - | - | . |
| MID ATLANTIC | 4,728 | 16 | 114 | 10 | 156,937 | 129,038 | - | 12 | 1 | 16 | 1 | 20 |
| Upstate NY | 494 | 3 | 39 | 6 | 18,978 | 18,178 | - | 10 | 1 | 1 | - | 1 |
| N Y City | 3,185 | - | 20 | 1 | 90,902 | 62,803 | - | 2 | - | 15 | - | 18 |
| NJ | 745 | 10 | 11 | - | 20,277 | 19,592 | - | - | - | . | 1 | - |
| Pa | 304 | 3 | 44 | 3 | 26,780 | 28,465 | - | - | - | - | - | 1 |
| EN CENTRAL | 799 | 15 | 371 | 11 | 113,942 | 114,850 | 17 | 24 | 4 | 1 | 5 | 5 |
| Ohio | 188 | 9 | 140 | 3 | 29,992 | 31,737 | 5 | 8 | 2 | - | 3 | - |
| Ind | 67 | U | 82 | 3 | 12,131 | 12,504 | U | U | U | U | U | - |
| III | 363 | - | 50 | 4 | 26,236 | 26.172 | 6 | 2 | - | - | - | 4 |
| Mich | 139 | 6 | 65 | 1 | 37,928 | 33,516 | 6 | 14 | 2 | 1 | 2 | 1 |
| Wis | 42 | U | 34 | - | 7,403 | 10,921 | U | U | U | U | U | 1 |
| W N CENTRAL | 243 | 14 | 92 | 9 | 37,791 | 41,074 | 3 | 20 | 2 | - | 3 | 4 |
| Minn <br> lowa | 98 | 3 | 40 |  | 5,431 | 5,997 | - | 2 | - | - | - | 2 |
| lowa | 20 | - | 29 | - | 3,865 | 4,302 | 2 | 3 | - | - | - | - |
| Mo | 73 | 11 | 3 | - | 18,665 | 19,993 | . | 14 | 2 | - | - | - |
| S Dak | 3 | - | 4 | - | 304 | 288 | - | - | - | - |  | - |
| Nebr | 2 | - | 11 | $i$ | 774 2799 | 790 3565 | - | 1 | - | - | 3 | - |
| Kans | 11 36 | - | 2 3 | 1 | 2,799 $\mathbf{5 , 9 5 3}$ | 3,565 6,139 | 1 | - | - | - | - | 2 |
| S ATLANTIC | 1,857 | 10 | 154 | 40 | 229,384 | 231,555 | 21 | 83 | 7 | 4 | 4 | 4 |
| Del | + 23 | 10 | 6 | 40 | 3,738 | 4,443 | - | - | - | - | . | - |
| Md | 180 | - | 36 | 1 | 27,095 | 29,589 | 3 | 23 | 4 | - | - | - |
| DC | 240 | - | 1 | 1 | 16,958 | 15,695 | - | 1 | - | - | - | - |
| Va | 157 | 2 | 43 | 1 | 18,787 | 19,234 | 2 | 11 | - | 2 | i | 1 |
| W Va | 8 | . | 46 | - | 2,232 | 2.598 | 2 | 1 | - | 1 | 1 | - |
| N C | 81 | 3 | 18 | 2 | 35,968 | 36,320 | 3 | 10 | 2 | - | 2 | - |
| S C | 50 |  |  | - | 19,054 | 21,326 | - | 6 | i | $i$ | - | - |
| Ga | 285 | 1 | - | 1 | 38,212 | 44,723 | 1 | 11 | 1 | 1 | 1 | - |
| Fla | 833 | 4 | 4 | 34 | 67,340 | 57,627 | 10 | 20 | - | - | - | 3 |
| ES CENTRAL $K_{r}$ | 161 | 62 | 70 | 4 | 70,342 | 76,081 | 2 | 42 | 4 | 2 | 4 | 1 |
| $\begin{aligned} & K_{v} \\ & \text { Tenn } \end{aligned}$ | 31 | 7 | 32 | 1 | 7,743 | 8,732 | - | 5 | 2 | - | - | - |
| Ala | 73 | 3 | 8 | 1 | 26,504 | 29,534 | 2 | 15 | - | - | 5 | i |
| Miss | 29 28 | 42 | 29 | 2 | 20,786 15,309 | 22,506 15,309 | 2 | + 8 | 2 | 1 | 1 | 1 |
| W S CENTRAL |  |  |  |  |  |  |  |  |  | 11 |  | 25 |
| Ark | $\begin{array}{r}1.179 \\ \hline 29\end{array}$ | 9 | 187 | 8 | 100,393 9.590 | 110,285 10,350 | $\begin{array}{r}30 \\ \hline\end{array}$ | 2 | 1 | 1 | - | 1 |
| La | 29 159 | 1 | 19 | 4 | 9,590 17,618 | 10,767 | 2 | 2 | 1 | - | . | 1 |
| Tex | 41 | 2 | 22 | - | 11.681 | 12,470 | 3 | 7 | 1 | 3 | - | 3 |
| Tex | 950 | 6 | 146 | 4 | 61,504 | 66,698 | 18 | 8 | 1 | 8 | - | 23 |
| MOUNTAIN | 342 | 4 | 40 | 1 | 25,716 | 28,022 | 57 | 31 | 2 | 6 | 1 | 13 |
| Mont | 5 | 4 | 1 | 1 | 2569 | 795 | 1 | 1 | - | - | - | - |
| Wyo | 3 | - | , | . | 872 | 991 | - | - | 1 | - | - | - |
| Wro | 4 | - | 2 | - | 535 | 848 | 9 | 5 | 1 | 5 | - | 3 |
| N Mex | 166 | 1 | 5 | - | 6,599 | 8.110 | 9 | 5 | - | 5 | - | 3 |
| N Mex | 25 | 1 | 3 | . | 2.755 | 3.112 8.576 | 12 | 6 13 | - | 1 | 1 | 7 |
| Utah | 81 | 3 | 19 | - | 8,219 | 8,576 1,349 | 31 | 13 | - | 1 | 1 | 7 |
| Nev | 21 37 | - | 8 | - | 1,115 4,952 | 1,349 4,441 | 1 3 | 5 | - | - | - | 2 |
| PACIFIC | 3.073 |  |  | 12 | 125,609 | 130,381 | 236 | 125 | 33 | 25 | - | 174 |
| Wash | 3.073 174 | 35 2 | 153 15 | 12 | 125,609 9,064 | 10,073 | 29 | 18 | 4 | 7 | - | 17 |
| Oreg Calif | 63 | 2 | 15 | - | 5,387 | 6,367 | $\begin{array}{r}43 \\ \hline 159\end{array}$ | 21 | 12 | 18 | - | 118 |
| Alaska | 2.768 | 30 | 130 | 12 | 107,474 | 109,081 | 159 | 83 | 17 | 18 | - | 118 |
| Hawaı | 14 | 1 | 7 | - | 2.643 | 3.178 | 5 | 2 | - | - | - | 38 |
| Hawan | 54 | 2 | 1 | - | 1,293 | 1.682 | - | 1 | - | - | - | 38 |
| Guam PR | 115 | U |  | 1 | 225 2.343 | 199 3.076 | u | i |  |  |  | 1 |
| vi | 115 | U | 5 | 1 | 2,343 | 3.076 395 | U | U | U | U | U | 7 |
| Pac Trust Terr | 4 | - | - | - | 268 483 | 395 766 | 1 | - | - | - | - | 63 |
| Amer Samoa | - | - | - | - | 483 59 | 766 | 1 | - | - | - | . | 63 3 |

N Not notifiable

TABLE III. (Cont'd.) Cases of specified notifiable diseases, United States, weeks ending December 27, 1986 and December 28, 1985 (52nd Weok)

| Reporting Area | Malaria | Measles (Rubeola) |  |  |  |  | Meningococcal Infections | Mumps |  | Pertussis |  |  | Rubella |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Indigenous |  | Imported * |  | Total <br> Cum. <br> 1985 |  |  |  |  |  |  |  |  |  |
|  | $\begin{aligned} & \text { Cum. } \\ & 1986 \end{aligned}$ | 1986 | $\begin{aligned} & \text { Cum. } \\ & 1986 \end{aligned}$ | 1986 | $\begin{aligned} & \text { Cum } \\ & 1986 \end{aligned}$ |  | $\begin{aligned} & \text { Cum. } \\ & 1986 \end{aligned}$ | 1986 | $\begin{aligned} & \text { Cum } \\ & 1986 \end{aligned}$ | 1986 | $\begin{aligned} & \text { Cum } \\ & 1986 \end{aligned}$ | $\begin{aligned} & \text { Cum } \\ & 1985 \end{aligned}$ | 1986 | $\begin{aligned} & \text { Cum } \\ & 1986 \end{aligned}$ | $\begin{aligned} & \text { Cum } \\ & 1985 \end{aligned}$ |
| UNITED STATES | 1.080 | 20 | 5,933 | - | 297 | 2,812 | 2,443 | 275 | 5.845 | 23 | 4,100 | 3,579 | 15 | 500 | 618 |
| NEW ENGLAND | 65 | - | 88 | - | 16 | 126 | 170 | 2 | 72 | 4 | 183 |  |  |  |  |
| Maine <br> NH | 2 | - | 12 | - | 1 | 1 | 29 | 2 | 72 | 4 | 183 2 | 216 9 | - | 9 | 14 |
| $\begin{aligned} & \mathrm{NH} \\ & \mathbf{V t} \end{aligned}$ | 4 2 | $\cdot$ | 43 | - | - | . | 6 19 | 1 | 15 | 1 | 85 | 113 | - | 1 | 3 |
| Mass | 33 | - | 24 | - | 13 | 118 | 19 | 1 | 5 16 | 3 | 3 | 4 54 | - | 1 | ; |
| R.I. | 8 | . | 2 | - | 13 | 118 | 52 23 | 1 | 16 | 3 | 60 | 54 | - | 4 | 7 |
| Conn | 16 | - | 7 | - | 2 | 7 | 23 41 | - | 13 23 | - | 7 26 | 23 13 | - | 2 | 4 |
| MID ATLANTIC | 148 | - | 1,940 | - | 37 | 236 | 388 | 1 | 218 | 2 | 224 | 271 | - | 37 | 234 |
| Upstate NY | 54 | - | 77 | - | 24 | 86 | 137 | 1 | 76 | 2 | 143 | 134 | - | 27 | 21 |
| N Y City | 31 | - | 931 | - | 6 | 80 | 71 | . | 29 | 2 | 10 | 29 | - | 5 | 188 |
| NJ J | 37 | - | 906 | - | 5 | 30 | 30 | . | 53 | - | 20 | 12 | - | 5 | 11 |
| Pa | 26 | - | 26 | - | 2 | 40 | 150 | - | 60 | - | 51 | 96 | - | 5 | 14 |
| EN CENTRAL | 61 19 | - | 1.123 | - | 28 | 582 | 378 | 106 | 3.661 | 3 | 390 | 856 | 7 | 57 | 39 |
| Ohio | 19 | U | 27 | U | 10 | 60 57 | 149 | 7 | 150 | 3 | 170 | 120 | - | 1 | i |
| Ind | 2 | U | 27 | U | 11 | 57 | 39 | U | 90 | U | 36 | 216 | U | - | 1 |
| III | 16 | - | 705 | . | 4 | 346 | 86 | 73 | 2,670 | U | 39 | 86 | U | 39 | 20 |
| Mich | 20 | - | 107 | i | - | 60 | 79 | 26 | 468 | - | 36 | 54 | 7 | 15 | 17 |
| Wis | 4 | U | 284 | U | 3 | 59 | 24 | U | 283 | U | 106 | 380 | U | 2 | 1 |
| W N CENTRAL Minn | 32 | - | 324 | - | 18 | 14 | 113 | 9 | 229 | 1 | 1.409 | 271 | - | 14 | 19 |
| lowa | 10 | - | 45 133 | - | 5 | 6 | 24 | 4 | 48 | 1 | . 49 | 139 | - | 1 | 2 |
| Mo | 12 | - | 133 26 | - | 1 | 5 | 11 | 3 | 87 | - | 19 | 34 | - | 1 | 1 |
| N Dak | 12 | - | 25 | - | 6 | 5 | 41 | 1 | 27 | - | 24 | 35 | - | 1 | 7 |
| S Dak | 2 | - | 25 | - | 1 | 2 | 1 | - | 4 | - | 5 | 10 | - | 1 | 2 |
| Nebr | 4 | - | 1 | - |  | - | 5 | - | 1 | - | 14 | 11 | - | - | - |
| Kans | 4 3 | - | 94 | $\stackrel{-}{-}$ | 5 | 1 | 12 19 | 1 | 60 | - | 10 1.288 | 11 31 | - | 10 | 7 |
| S ATLANTIC | 132 | 18 | 808 | - | 57 | 344 | 437 | 3 | 261 | 3 | 784 | 571 | - | 12 | 56 |
| Del Md | 1 14 | - | 1 26 | - | 9 | 115 | 8 | 3 | 1 | 3 | 227 | 2 | . | 12 | 2 |
| D. | 14 5 | - | 26 | - | 9 2 | 115 31 | 50 | - | 31 | - | 167 | 328 | - | 1 | 6 |
| Va | 37 | - | 36 | - | 24 | 31 28 | 7888 | - | 1 46 | - | 56 | 21 | - | - | 2 |
| W Va | 4 | - | 2 | - | 24 | 33 | 78 4 | - | 46 | 1 | 56 | 21 | - | - | 2 |
| NC | 7 | - | 3 | - | 1 | 33 9 | $\begin{array}{r}4 \\ \hline\end{array}$ | - | 49 29 | 2 | 27 | 5 39 | - | - | 9 |
| SC | 7 | - | 274 | - | 1 | 3 | 67 46 | - | 29 19 | 2 | 88 18 | 39 3 | - | - | 1 3 |
| Ga | 14 | 18 | 79 | - | 14 | 8 | 46 63 | - | 19 | - | 18 135 | 102 | - | - | 3 3 |
| Fla | 43 | 18 | 387 | - | 7 | 117 | 115 | 3 | 57 | - | 66 | 71 | - | 11 | 30 |
| ES CENTRムL | 22 | - | 61 | - | 9 | 7 | 124 | 13 | 330 | - | 47 | 74 | - | 4 |  |
| Kr | 6 | - | 55 | - | 6 | 5 | 31 | 13 | 6 | - | 5 | 9 | - | 4 | 3 |
| Tenn Ala Mis | 10 | - | 55 | - | 1 | 1 | 37 | 13 | 319 | - | 16 | 28 | - | - | - |
| Ala Miss | 10 5 | - | 1 | - | 1 | - | 41 | - | 4 | - | 25 | 30 | - | - | - |
|  | 5 | - | 5 | - | 1 | 1 | 15 | - | 1 | - | 1 | 7 | - | - | - |
| WS CENTRAL Ark | 107 | - | 680 | - | 38 | 493 | 228 | 126 | 416 | - | 254 | 575 | - | 73 | 42 |
| Ara | 1 19 | - | 276 4 | - | 2 | 42 | 31 | 123 | 184 | - | 20 | 17 | - | 1 | 1 |
| Okla | 19 | - | 4 37 | - | 2 | 42 | 28 | 2 | 7 | - | 16 | 18 | - | - | - |
| Tex | 75 | - | 363 | - | 2 | 1 | 33 | N | N | - | 129 | 182 | - | - | 2 |
|  |  |  |  |  | 34 | 450 | 136 | 1 | 225 | - | 89 | 358 | - | 72 | 39 |
| MOUNTAIN | 42 | - | 303 | - | 29 | 541 | 113 | 3 | 266 | - | 282 | 272 |  |  | 6 |
| Mont | 1 | - | 1 | - | 8 | 137 | 11 | 3 | 266 | - | 282 | 272 10 | - | - 24 | 6 |
| Wyo | 1 | - | 1 | - | - | 137 | 4 | - | 9 | - | 51 | 30 | - | 2 | 2 |
| Colo | 13 | - | 2 | - | 8 | 5 15 | 22 | 1 | 18 | - | 4 | 1 | - | 1 | 2 |
| N Mex | 5 | - | 33 | - | 8 | 15 | 22 13 | 1 $N$ | 18 | - | 66 | 107 | - | 1 | - |
| Ariz | 15 | - | 252 | - | 7 | 2418 | 13 | N | ${ }_{206}$ | - | 29 | 15 | - | - | 2 |
| Utah | 4 | - | 13 | - | 6 | 241 | 24 | 1 | 206 | - | 65 | 49 | - | 2 | 1 |
| Nev | 3 | . | 2 | - | - | - | 10 27 | 1 | 16 11 | - | 43 | 60 | - | 15 | - |
| PACIFIC | 471 | 2 | 606 | - | 65 | 469 | 492 | 12 | 392 |  |  | 473 | 8 |  |  |
| Wash | 33 | - | 148 | - | 28 | 171 | 67 | 2 | 26 | 3 | 161 | + 92 | 8 | 270 |  |
| Oreg | 19 418 | , | 7 | - | 4 | 5 | 38 | N | + | 3 | 161 16 | 92 54 | - | 17 4 | 16 2 |
| Calif | 418 | 2 | 424 | - | 31 | 269 | 359 | 10 | 334 | 5 | 312 | 278 | 7 | 4 242 | 138 |
| Alaska | - | - | - | - | 31 | - | 14 | 10 | 8 | 5 | 5 | 278 30 | 7 | 242 | 138 |
| Hawan | 1 | - | 27 | - | 2 | 24 | 15 | - | 24 | 2 | 36 | 19 | 1 | 7 | 48 |
| Guam | 2 | - | 4 | - | 1 | 11 | 1 | - | 4 | - | - | - |  |  |  |
| PR | 4 | U | 44 | U | , | 67 | 4 | U | 34 | U | 19 | 16 | U | 62 | 27 |
| vi | , | - |  |  | - | 10 | 4 | 1 | 18 | U | 19 | 16 | U |  | 27 |
| Pac Trust Terr | - | . | - | - | - | 10 | 1 |  | 11 | - | - | - | - | 4 | - |
| Amer Samoa | - | - | 2 | - | - | - | 1 | - | 5 | - | - | - | - | 4 | - |

-For measies only, imported cases includes both out-of-state and international importations

TABLE III. (Cont'd.) Cases of specified notifiable diseases, United States, weeks ending
December 27, 1986 and December 28, 1985 (52nd Week)

| Reporting Area | Syphilis (Civilian) (Primary \& Secondary) |  | Toxic shock Syndrome$1986$ | Tuberculosis |  | Tularemia <br> Cum <br> 1986 | Typhoid <br> Fever <br> Cum <br> 1986 | Typhus Fever <br> (Tick-borne) <br> (RMSF) <br> Cum <br> 1986 | Rabies. Animal <br> Cum <br> 1986 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \text { Cum } \\ & 1986 \end{aligned}$ | $\begin{aligned} & \text { Cum } \\ & 1985 \end{aligned}$ |  | $\begin{aligned} & \text { Cum } \\ & 1986 \end{aligned}$ | $\begin{aligned} & \text { Cum } \\ & 1985 \end{aligned}$ |  |  |  |  |
| UNITED STATES | 27,098 | 26,868 | 5 | 22,149 | 22,144 | 166 | 322 | 745-1 | 5,242 |
| NEW ENGLAND | 487 | 588 | - | 678 | 744 | 1 | 16 | 13 | 8 |
| Maıne | 19 | 17 | - | 34 | 47 | - | - | - | - |
| NH | 13 | 41 | - | 23 | 23 | - |  | 2 | 1 |
| $\mathrm{V}_{1}$ | 9 | 8 | - | 17 | 8 | - | - | - | 2 |
| Mass | 264 | 286 | - | 379 | 449 | 1 | 13 | 4 | - |
| RI | 19 | 20 | - | 49 | 53 | - |  | 3 | 3 |
| Conn | 163 | 216 | - | 176 | 164 | - | 3 | 4 | 2 |
| MID ATLANTIC | 3,891 | 3,636 | - | 4.310 | 3.890 | 2 | 26 | 41 | 666 |
| Upstate NY | 201 | 271 | - | 613 | 661 | - | 5 | 20 | 84 |
| NY City | 2,205 | 2,190 | - | 2,271 | 1,909 | - | 11 | 6 | - |
| NJ | 2,280 | - 706 | - | 2,200 | 549 | 2 | 9 | 2 | 17 |
| Pa | 805 | 469 | - | 706 | 771 | - | 1 | 13 | 565 |
| EN CENTRAL | 838 | 978 | - | 2,600 | 2,667 | 1 | 23 | 44-2 | 142 |
| Ohio | 125 | 146 | - | 463 | 459 | - | 9 | $38$ | 16 |
| Ind | 108 | 83 | U | 269 | 336 | - | 2 | - | 17 |
| III | 384 | 429 | - | 1,138 | 1.193 | - | 3 | 2 | 44 |
| Mich | 180 | 254 | - | 622 | 537 | 1 | 6 | 4 | 25 |
| Wis | 41 | 66 | U | 108 | 142 | - | 3 | - | 40 |
| WN CENTRAL | 206 | 236 | 2 | 640 | 650 | 48 | 9 | $53+1$ | 827 |
| Minn | 33 | 45 | 2 | 151 | 132 | - | 2 | 1 | 145 |
| lowa | 8 | 20 | . | 46 | 60 | 1 | - | 1 | 187 |
| Mo | 109 | 133 | - | 318 | 311 | 37 | 6 | 291 | 71 |
| N Dak | 5 | 2 | - | 10 | 12 | - | . | 1 | 153 |
| S Dak | 9 | 6 | - | 29 | 31 | 3 | - | 6 | 178 |
| Nebr | 11 | 8 | - | 18 | 22 | 1 | - | 5 | 37 |
| Kans | 31 | 22 | - | 68 | 82 | 6 | 1 | 10 | 56 |
| S ATLANTIC | 8.281 | 7.723 | - | 4.542 | 4,700 | 13 | 47 | 333 | 1.320 |
| Del | 8, 62 | .71 | - | + 47 | 53 | - | 1 | 1 | 1 574 |
| Md | 471 | 501 | - | 306 | 418 | 2 | 16 | 29 | 574 |
| D C Va | 294 | 336 | - | 162 | 157 | 1 | 4 | 5 | 38 |
| Va | 324 | 296 | - | 388 | 488 | 3 | 10 | 51 | 199 |
| W Va | 20 | 26 | - | 123 | 109 | ; | 3 | 10 | 60 |
| N C S C | 533 | 682 | - | 731 | 654 | 3 | 4 | 129 | 10 |
| Ga | 696 | 794 | - | 590 | 568 | - | 1 | 71 | 65 |
| Fla | 1.507 4.374 | 1,399 | - | 741 1.454 | 828 | 4 | 8 | 40 | 201 |
| Fla | 4,374 | 3.648 | - | 1.454 | 1,425 | - | 8 | 2 | 172 |
|  | 1,801 | 2,069 | 1 | 1.941 | 1.925 | 16 | 4 | 111 | 361 |
| $\mathrm{K}_{y}$ | +89 | . 65 | - | 439 | 463 | 7 | - | 22 | 106 |
| Tenn | 634 | 645 | - | 581 | 576 | 7 | 1 | 46 | 138 |
| Ala | 516 | 651 | 1 | 601 | 531 | 1 | 1 | 25 | 114 |
| Miss | 582 | 708 | - | 320 | 355 | 1 | 2 | 18 | 3 |
| W S CENTRAL | 5.088 | 6.206 | 1 | 2,848 | 2.759 | 69 | 34 | 139 | 720 |
| Ark | 255 | 319 | - | 393 | 362 | 50 | - | 16 | 163 |
| Ok | 917 | 1.076 | - | 433 | 388 | 1 | 3 | 1 | 22 |
| Okla | 153 | 201 | - | 252 | 259 | 13 | 2 | 103 | 62 |
| Tex | 3.763 | 4.610 | 1 | 1.770 | 1.750 | 5 | 29 | 19 | 473 |
| MOUNTAIN | 644 | 772 | - | 546 | 625 | 12 | 16 | 10 | 658 |
| Mont | 7 | 6 | - | 29 | 50 | 1 | 1 | 4 | 216 |
| Idaho | 16 | 8 | - | 25 | 26 | - | - | 2 | 9 |
| Wro | 4 | 14 | - | - | 8 | 1 | - | 1 | 279 |
| Colo | 141 | 215 | - | 68 | 106 | 3 | 1 | 3 | 29 |
| N Mex | 74 | 126 | - | 103 | 94 | 2 | 1 | - | 6 |
| Ariz | 268 | 325 | - | 249 | 271 | - | 9 | - | 101 |
| Utah | 21 | 13 | - | 31 | 31 | 4 | 3 | - | 7 |
| Nev | 113 | 65 | - | 41 | 39 | 1 | 1 | - | 11 |
| PACIFIC | 5,862 | 4,660 | 1 | 4,044 | 4.184 | 4 | 147 | 1 | 540 |
| Wash | 168 | 115 | - | 215 | 220 | 1 | 3 | 1 | 5 |
| Oreg | 127 5.531 | $\begin{array}{r}111 \\ \hline\end{array}$ | - | . 134 | 139 | - | 7 | - | 1 |
| Calif Alaska | 5.531 | 4,360 | 1 | 3.446 | 3.526 | 2 | 137 | 1 | 526 |
| Alaska | 2 | 4 7 | - | 65 | 110 | 1 | 1 |  | 8 |
| Hawalı | 34 | 70 | - | 184 | 189 | - | 6 | - |  |
| Guam | 1 | 2 | - | 35 | 38 | - | 1 | - | - |
| PR | 849 | 875 | U | 340 | 342 | - | 5 | . | 47 |
| vi | 1 | 3 | - | 1 | 6 | - | - | - | . |
| Pac Trust Terr | 314 | 128 | - | 97 | 75 | - | 49 | - | - |
| Amer Samoa | 1 |  | - | 5 | 7 | - | . | - | - |

## TABLE IV. Deaths in 121 U.S. cities." week ending

December 27, 1986 (52nd Week)


[^6]- Pneumonia and influenza
$\dagger$ Because of changes in reporting methods in these 3 Pennsylvania cities. these numbers are partial counts for the current week Complete counts will be available in 4 to 6 weeks
$t+$ Total includes unknown ages
§ Data not available Figures are estimates based on average of past 4 week

FIGURE IV. Reported measles cases - United States, weeks 47-50, 1986


FIGURE IV. Reported measles cases - United States, weeks 48-51, 1986


## MMWR

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The data in this report are provisional, based on weekly reports to CDC by state health departments. The reporting week concludes at close of business on Friday; compiled data on a national basis are officially released to the public on the succeeding Friday.

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

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Michael B. Gregg, M.D.
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[^0]:    -Date last specimen was obtained on which drug susceptibility tests were done.
    ${ }^{\dagger}$ Organisms from three patients were $100 \%$ resistant to the drugs listed. Those from Patient 2 were $100^{\circ}$ resistant only to INH.
    $\S_{\text {Isolate was susceptible to RIF }}$

[^1]:    -This non-parametric test was used to assess the likelihood that the observed proportion of states showing a decrease in the prevalence of self-reported drinking and driving and of bingerdrinking between 1982 and 1985 could have happened by chance alone.

[^2]:    *Signed-rank T statistic.

[^3]:    ported case within two generations

[^4]:    Mortality data in this table are voluntarily reported from 121 cities in the United States, most of which have populations of 100.000 or
    more.A death is reported by the place of its occurrence and by the week that the death certificate was filed Fetal deaths are not included

    - Pneumonia and influenza
    + Because of changes in reporting methods in these 3 Pennsylvania cities, these numbers are partial counts for the current week Complete counts will be available in 4 to 6 weeks
    $\dagger \dagger$ Total includes unknown ages
    § Data not available. Figures are estimates based on average of past 4 weeks

[^5]:    -There were no cases of internationally imported measles reported for this week

[^6]:    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

