

# Morbidity and Mortality



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For  
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U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE PUBLIC HEALTH SERVICE

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## EPIDEMIOLOGIC NOTES AND REPORTS ECHINOCOCCOSIS - Arizona and New Mexico

In 1974, 7 cases of echinococcosis (hydatid disease) were diagnosed in 3 tribes of American Indians in Arizona and New Mexico. Data on 10 additional cases reported for the 5-year period 1969 through 1973 were obtained from the medical records of 8 Navajo and Albuquerque-Area Indian Health Service (IHS) hospitals and from 9 other hospitals in Arizona and New Mexico that provide contract services to the IHS. The unusual spatial and temporal cluster of cases prompted an epidemiologic investigation. Figure 1 shows the distribution by year of surgery (or diagnosis when not operated on) of the 17 total cases. Ten of the patients were male and 7 were female; ages ranged from 2 to 64 years. Sixteen cases were diagnosed as *Echinococcus granulosus* infections and 1

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as *E. multilocularis*. The latter infection was in an Eskimo man who was assumed to have acquired his infection in Alaska where *E. multilocularis* is endemic. Of 13 patients with *E. granulosus* infections from whom a travel history was obtained, only 2 had traveled out of the Arizona-New Mexico region, and all of the cases were probably acquired autochthonously (in the local area). Of the 16 cases with *E. granulosus* infection, 15 were diagnosed in American Indians, and 1 in a girl with Spanish surname. Of the American Indians, 9 patients

TABLE I. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES  
(Cumulative totals include revised and delayed reports through previous weeks)

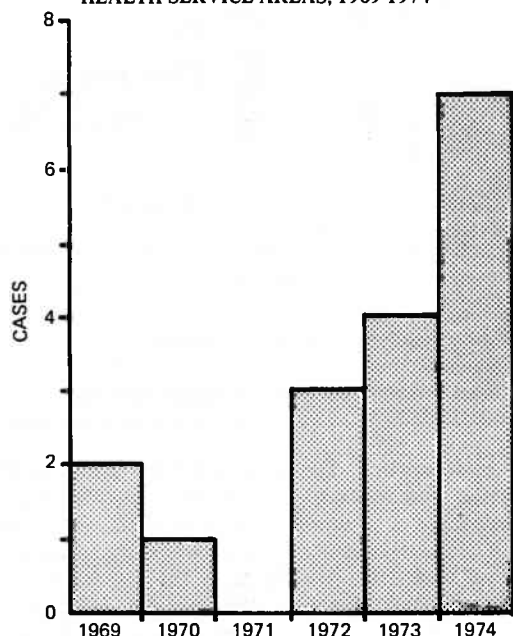
| DISEASE                                               | 4th WEEK ENDING     |                     | MEDIAN<br>1970-1974 | CUMULATIVE, FIRST 4 WEEKS |                     |                     |
|-------------------------------------------------------|---------------------|---------------------|---------------------|---------------------------|---------------------|---------------------|
|                                                       | January 25,<br>1975 | January 26,<br>1974 |                     | January 25,<br>1975       | January 26,<br>1974 | MEDIAN<br>1970-1974 |
| Aseptic meningitis . . . . .                          | 53                  | 34                  | 29                  | 168                       | 135                 | 147                 |
| Brucellosis . . . . .                                 | 2                   | -                   | 2                   | 7                         | 5                   | 6                   |
| Chickenpox . . . . .                                  | 3,551               | 3,978               | - - -               | 12,078                    | 11,425              | - - -               |
| Diphtheria . . . . .                                  | 10                  | -                   | 1                   | 28                        | 3                   | 9                   |
| Encephalitis                                          |                     |                     |                     |                           |                     |                     |
| Primary . . . . .                                     | 8                   | 11                  | 11                  | 47                        | 50                  | 58                  |
| Post-Infectious . . . . .                             | 4                   | 8                   | 8                   | 12                        | 12                  | 17                  |
| Hepatitis, Viral                                      |                     |                     |                     |                           |                     |                     |
| Type B . . . . .                                      | 203                 | 199                 | 171                 | 765                       | 590                 | 590                 |
| Type A . . . . .                                      | 679                 | 887                 | 1,113               | 2,506                     | 3,129               | 4,316               |
| Type unspecified . . . . .                            | 127                 | 174                 |                     | 535                       | 522                 |                     |
| Malaria . . . . .                                     | 1                   | 4                   | 38                  | 12                        | 10                  | 191                 |
| Measles (rubeola) . . . . .                           | 282                 | 525                 | 543                 | 828                       | 1,593               | 2,399               |
| Meningococcal infections, total . . . . .             | 35                  | 19                  | 29                  | 123                       | 96                  | 132                 |
| Civilian . . . . .                                    | 34                  | 19                  | 27                  | 119                       | 96                  | 125                 |
| Military . . . . .                                    | 1                   | -                   | 3                   | 4                         | -                   | 8                   |
| Mumps . . . . .                                       | 1,280               | 1,697               | 2,020               | 4,869                     | 5,849               | 8,034               |
| Pertussis . . . . .                                   | 13                  | 29                  | - - -               | 104                       | 105                 | - - -               |
| Rubella (German measles) . . . . .                    | 225                 | 179                 | 577                 | 553                       | 678                 | 1,724               |
| Tetanus . . . . .                                     | 2                   | 1                   | 1                   | 6                         | 4                   | 3                   |
| Tuberculosis . . . . .                                | 501                 | 454                 | - - -               | 1,811                     | 1,669               | - - -               |
| Tularemia . . . . .                                   | 1                   | -                   | -                   | 6                         | 6                   | 8                   |
| Typhoid fever . . . . .                               | 5                   | 7                   | 7                   | 12                        | 23                  | 21                  |
| Typhus, tick-borne (Rky. Mt. spotted fever) . . . . . | 1                   | -                   | -                   | 9                         | 10                  | 2                   |
| Veneral Diseases:                                     |                     |                     |                     |                           |                     |                     |
| Gonorrhea (Civilian . . . . .                         | 19,638              | 16,057              | - - -               | 69,401                    | 64,229              | - - -               |
| Military . . . . .                                    | 461                 | 520                 | - - -               | 1,966                     | 2,080               | - - -               |
| Syphilis, primary and secondary (Civilian . . . . .   | 459                 | 466                 | - - -               | 1,852                     | 1,861               | - - -               |
| Military . . . . .                                    | 7                   | 9                   | - - -               | 25                        | 35                  | - - -               |
| Rabies in animals . . . . .                           | 48                  | 65                  | 65                  | 152                       | 185                 | 213                 |

TABLE II. NOTIFIABLE DISEASES OF LOW FREQUENCY

|                                                       | Cum. |                                           | Cum. |
|-------------------------------------------------------|------|-------------------------------------------|------|
| Anthrax: . . . . .                                    | -    | Poliomyelitis, total: . . . . .           | -    |
| Botulism: . . . . .                                   | 3    | Paralytic: . . . . .                      | -    |
| Congenital rubella syndrome: Colo. 1, La. 1 . . . . . | 4    | Psittacosis: . . . . .                    | 2    |
| Leptosy: Calif. 5, Hawaii 1 . . . . .                 | 14   | Rabies in man: . . . . .                  | 1    |
| Leptospirosis: . . . . .                              | 5    | Trichinosis: NY Ups. 1, Mich. 1 . . . . . | 7    |
| Plague: . . . . .                                     | -    | Typhus, murine: . . . . .                 | -    |

## ECHINOCOCCOSIS – Continued

Figure 1  
SURGICAL CASES OF ECHINOCOCCOSIS, BY YEAR OF SURGERY – NAVAJO AND ALBUQUERQUE INDIAN HEALTH SERVICE AREAS, 1969-1974\*



\*1 CASE EACH IN 1973 AND 1974 HAD NO SURGERY.

were Navajo, 4 were of the Zuni pueblo, and 2 of the Santo Domingo pueblo. The localization of the *E. granulosus* cysts was in the lungs of 8 patients, the liver of 1 patient, the peritoneal cavity of 1 patient, and in both the lungs and liver of 6 patients. Fifteen patients were treated surgically, and 5 required more than 1 operation.

Visits were made to the homes of 6 of the 7 patients diagnosed in 1974, and the families were interviewed to determine probable sources of infection. Five of the 6 families interviewed owned 1 or more dogs, and 2 families also raised sheep. Frequent home-butchered of sheep was practiced by 5 families, and direct and indirect contact with dogs and sheep was apparently common in the communities where the patients resided. Material from home-slaughtered animals, including diseased organs, is casually discarded where dogs can scavenge it. Entire carcasses were observed on open dumps. Owned dogs as well as strays were numerous, and their movement is uncontrolled in the pueblos and the urban communities of the Navajo. Diagnostic purging of 6 dogs, with whom 2 patients had had contact, revealed infections by *Taenia pisiformis*, *T. hydatigena*, or *T. serialis* in 5; but no *E. granulosus* organisms were recovered.

According to federal veterinarians, hydatid cysts are occasionally observed in Indian-owned sheep; however, no accurate prevalence data were available. Several interviewed family members recognized cyst-infected sheep viscera when shown photographs and admitted that such lesions had been observed in home-butchered animals.

(Reported by Otto F Sieber, MD, Assistant Professor, Arizona Medical Center, Tucson; C A Burnett, MD, Chief of Surgery, PHS Indian Hospital, Fort Defiance; Jean Van Duzen, MD, Chief of Pediatrics and Thomas Welty, MD, Director, Community Health Service, PHS Indian Hospital, Tuba City; A Dohner, MD, Assistant Director, Navajo Area, Indian Health Service, Window Rock; Philip Hotchkiss, DVM, State

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## Editorial Note

The majority of echinococcosis cases diagnosed in North America are in immigrants or other persons who apparently acquired their infections elsewhere; however, autochthonous cases continue to occur. The parasite is maintained in sylvatic cycles (e.g. moose – wolf) in Alaska and in parts of Canada, and cases in humans associated with transmission cycles in dogs and sheep have been documented in California (1) and Utah (2). Presumed autochthonous cases in humans have been reported from different areas of the United States, including the southwest; however, the dog-sheep cycle has not been documented in most of these areas. The findings reported here indicate that echinococcosis is more wide-spread and prevalent among the Indians of the southwestern United States than previously realized. Certain Indian groups are apparently at a higher risk than other residents of the study area. Although non-Indians are the majority in this region covered by the hospital survey, only 1 case in a non-Indian was diagnosed.

Although the number of cases is relatively low compared to some other infectious diseases occurring among the southwestern Indians, the morbidity associated with each case of hydatidosis is considerable. Surgery is the only recognized treatment for hydatid disease, and several of the cases required multiple operations. No previous data were available on infections with *E. granulosus* in dogs from this region, nor were infections demonstrated in the small number of dogs examined in this investigation. A number of factors, however, which facilitate transmission of the parasite were identified. The most important one may be the home-butchered of sheep, which is apparently widely practiced among the Navajo as well as the Zuni and Santo Domingo tribes.

The distribution of cases by year of surgery suggests that the number of cases diagnosed each year is increasing. This tendency possibly represents a real increase in the rate of parasite transmission, but it more likely reflects the greater utilization of available health care services. Since 1955, IHS hospital admissions have doubled, and outpatient visits have increased five-fold (3). Hydatid cyst cases which previously went undiagnosed are probably being disclosed now due to an increase in chest radiographic examinations.

Studies presently underway are aimed at determining infection levels in sheep and dogs and further identifying modes of transmission. Recommended control measures include health education, proper disposal of material discarded from home-butchered animals, elimination of stray dogs, and improved control of owned dogs.

## References

1. Schwabe CW, Ruppanner R, Miller CW, Fontaine RE, Kagan IG: Hydatid disease is endemic in California. *Calif Med* 117:13-17, 1972
2. Spruance SL, Klock LE, Chang F, Fukushima T, Andersen FL, Kagan IG: Endemic hydatid disease in Utah. A review. *Rocky Mt Med J* 71:17-23, 1974
3. US Dept of Health, Education, and Welfare: Indian Health Trends and Services. Indian Health Service, 1974

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TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES  
FOR WEEKS ENDING JANUARY 25, 1975 AND JANUARY 26, 1974 (4th WEEK)

| AREA                   | ASEPTIC<br>MENIN-<br>GITIS | BRUCEL-<br>LOSIS | CHICKEN-<br>POX | DIPHTHERIA |    | ENCEPHALITIS                                 |      |                      | HEPATITIS, VIRAL |        |                     | MALARIA |    |
|------------------------|----------------------------|------------------|-----------------|------------|----|----------------------------------------------|------|----------------------|------------------|--------|---------------------|---------|----|
|                        |                            |                  |                 |            |    | Primary: Arthropod-<br>borne and Unspecified |      | Post In-<br>fectious | Type B           | Type A | Type<br>Unspecified |         |    |
|                        |                            |                  |                 |            |    | 1975                                         | 1974 | 1975                 | 1975             | 1975   | 1975                |         |    |
| UNITED STATES          | 53                         | 2                | 3,551           | 10         | 28 | 8                                            | 11   | 4                    | 203              | 679    | 127                 | 1       | 12 |
| NEW ENGLAND            | -                          | -                | 421             | -          | -  | -                                            | 1    | -                    | 7                | 34     | 24                  | -       | 1  |
| Maine *                | -                          | -                | 10              | -          | -  | -                                            | -    | -                    | -                | 2      | -                   | -       | -  |
| New Hampshire          | -                          | -                | 16              | -          | -  | -                                            | -    | -                    | 2                | 8      | -                   | -       | -  |
| Vermont *              | -                          | -                | 2               | -          | -  | -                                            | -    | -                    | -                | -      | -                   | -       | -  |
| Massachusetts          | -                          | -                | 176             | -          | -  | -                                            | -    | -                    | 4                | 6      | 24                  | -       | 1  |
| Rhode Island           | -                          | -                | 59              | -          | -  | -                                            | -    | -                    | 1                | 10     | -                   | -       | -  |
| Connecticut            | -                          | -                | 158             | -          | -  | -                                            | 1    | -                    | -                | 8      | -                   | -       | -  |
| MIDDLE ATLANTIC        | 2                          | -                | 102             | -          | -  | -                                            | 2    | 1                    | 27               | 89     | 15                  | -       | 1  |
| Upstate New York       | -                          | -                | 44              | -          | -  | -                                            | -    | 1                    | 4                | 42     | -                   | -       | -  |
| New York City          | -                          | -                | 54              | -          | -  | -                                            | 1    | -                    | 5                | 25     | -                   | -       | 1  |
| New Jersey*            | 1                          | -                | NN              | -          | -  | -                                            | 1    | -                    | 17               | 20     | 15                  | -       | -  |
| Pennsylvania           | 1                          | -                | 4               | -          | -  | -                                            | -    | -                    | 1                | 2      | -                   | -       | -  |
| EAST NORTH CENTRAL     | 2                          | -                | 1,553           | -          | -  | 2                                            | -    | -                    | 25               | 113    | 7                   | -       | -  |
| Ohio                   | -                          | -                | 115             | -          | -  | 2                                            | -    | -                    | 8                | 45     | -                   | -       | -  |
| Indiana                | -                          | -                | 379             | -          | -  | -                                            | -    | -                    | -                | 4      | -                   | -       | -  |
| Illinois               | 2                          | -                | -               | -          | -  | -                                            | -    | -                    | 6                | 7      | 2                   | -       | -  |
| Michigan               | -                          | -                | 651             | -          | -  | -                                            | -    | -                    | 8                | 50     | 5                   | -       | -  |
| Wisconsin              | -                          | -                | 408             | -          | -  | -                                            | -    | -                    | 3                | 7      | -                   | -       | -  |
| WEST NORTH CENTRAL     | 1                          | 1                | 522             | -          | -  | -                                            | -    | -                    | 17               | 32     | 7                   | -       | 1  |
| Minnesota *            | 1                          | -                | 32              | -          | -  | -                                            | -    | -                    | 9                | 12     | 1                   | -       | -  |
| Iowa                   | -                          | 1                | 322             | -          | -  | -                                            | -    | -                    | 1                | 3      | -                   | -       | -  |
| Missouri *             | -                          | -                | 13              | -          | -  | -                                            | -    | -                    | 7                | 11     | 6                   | -       | 1  |
| North Dakota           | -                          | -                | 15              | -          | -  | -                                            | -    | -                    | -                | -      | -                   | -       | -  |
| South Dakota           | -                          | -                | -               | -          | -  | -                                            | -    | -                    | -                | 2      | -                   | -       | -  |
| Nebraska               | -                          | -                | 9               | -          | -  | -                                            | -    | -                    | -                | -      | -                   | -       | -  |
| Kansas                 | -                          | -                | 131             | -          | -  | -                                            | -    | -                    | -                | 4      | -                   | -       | -  |
| SOUTH ATLANTIC         | -                          | -                | 221             | -          | -  | 1                                            | 2    | 1                    | 23               | 70     | 10                  | -       | 3  |
| Delaware               | -                          | -                | 3               | -          | -  | -                                            | -    | -                    | -                | -      | -                   | -       | -  |
| Maryland               | -                          | -                | 7               | -          | -  | 1                                            | 1    | -                    | 3                | 5      | -                   | -       | -  |
| District of Columbia * | -                          | -                | 5               | -          | -  | -                                            | -    | -                    | -                | 1      | 1                   | -       | -  |
| Virginia               | -                          | -                | 32              | -          | -  | -                                            | -    | -                    | -                | 3      | 3                   | -       | 3  |
| West Virginia *        | -                          | -                | 155             | -          | -  | -                                            | -    | -                    | -                | 2      | -                   | -       | -  |
| North Carolina         | -                          | -                | NN              | -          | -  | -                                            | -    | -                    | 11               | 21     | 4                   | -       | -  |
| South Carolina         | -                          | -                | 19              | -          | -  | -                                            | -    | -                    | 2                | 2      | 2                   | -       | -  |
| Georgia *              | -                          | -                | -               | -          | -  | -                                            | -    | -                    | -                | 9      | -                   | -       | -  |
| Florida                | -                          | -                | -               | -          | -  | -                                            | 1    | 1                    | 7                | 27     | -                   | -       | -  |
| EAST SOUTH CENTRAL     | 27                         | 1                | 168             | -          | -  | -                                            | -    | -                    | 21               | 71     | -                   | -       | 3  |
| Kentucky               | -                          | -                | 96              | -          | -  | -                                            | -    | -                    | 3                | 27     | -                   | -       | 2  |
| Tennessee              | 1                          | -                | NN              | -          | -  | -                                            | -    | -                    | 5                | 20     | -                   | -       | -  |
| Alabama                | 22                         | -                | 63              | -          | -  | -                                            | -    | -                    | 11               | 15     | -                   | -       | -  |
| Mississippi            | 4                          | 1                | 9               | -          | -  | -                                            | -    | -                    | 2                | 9      | -                   | -       | 1  |
| WEST SOUTH CENTRAL     | 5                          | -                | 268             | -          | -  | -                                            | 1    | -                    | 16               | 74     | 12                  | -       | -  |
| Arkansas *             | -                          | -                | 2               | -          | -  | -                                            | -    | -                    | 1                | 7      | -                   | -       | -  |
| Louisiana *            | -                          | -                | NN              | -          | -  | -                                            | -    | -                    | 3                | 6      | 2                   | -       | -  |
| Oklahoma               | -                          | -                | 22              | -          | -  | -                                            | 1    | -                    | 7                | 10     | 6                   | -       | -  |
| Texas                  | 5                          | -                | 244             | -          | -  | -                                            | -    | -                    | 5                | 51     | 4                   | -       | -  |
| MOUNTAIN               | -                          | -                | 87              | -          | 2  | -                                            | 1    | -                    | 3                | 17     | 19                  | -       | -  |
| Montana                | -                          | -                | 34              | -          | -  | -                                            | -    | -                    | -                | 3      | -                   | -       | -  |
| Idaho                  | -                          | -                | -               | -          | -  | -                                            | -    | -                    | -                | 4      | -                   | -       | -  |
| Wyoming                | -                          | -                | -               | -          | -  | -                                            | -    | -                    | -                | 1      | 1                   | -       | -  |
| Colorado               | -                          | -                | 31              | -          | -  | -                                            | -    | -                    | 1                | -      | 6                   | -       | -  |
| New Mexico *           | -                          | -                | 17              | -          | -  | -                                            | -    | -                    | -                | 6      | 3                   | -       | -  |
| Arizona                | -                          | -                | -               | -          | 2  | -                                            | -    | -                    | -                | -      | -                   | -       | -  |
| Utah                   | -                          | -                | -               | -          | -  | -                                            | -    | -                    | 1                | 1      | 9                   | -       | -  |
| Nevada *               | -                          | -                | 5               | -          | -  | -                                            | 1    | -                    | 1                | 2      | -                   | -       | -  |
| PACIFIC                | 16                         | -                | 209             | 10         | 26 | 5                                            | 4    | 2                    | 64               | 179    | 33                  | 1       | 3  |
| Washington             | 5                          | -                | 187             | 10         | 26 | 2                                            | -    | 1                    | 2                | 18     | 11                  | -       | -  |
| Oregon                 | -                          | -                | -               | -          | -  | -                                            | 1    | -                    | 3                | 14     | 1                   | -       | -  |
| California *           | 11                         | -                | -               | -          | -  | 3                                            | 3    | 1                    | 57               | 99     | 21                  | 1       | 2  |
| Alaska                 | -                          | -                | 5               | -          | -  | -                                            | -    | -                    | -                | 48     | -                   | -       | -  |
| Hawaii                 | -                          | -                | 17              | -          | -  | -                                            | -    | -                    | 2                | -      | -                   | -       | 1  |
| Guam . . *             | ---                        | ---              | ---             | ---        | -  | ---                                          | -    | ---                  | ---              | ---    | ---                 | ---     | -  |
| Puerto Rico            | -                          | -                | -               | -          | -  | -                                            | -    | -                    | -                | 18     | -                   | -       | -  |
| Virgin Islands         | -                          | -                | 38              | -          | -  | -                                            | -    | -                    | -                | -      | -                   | -       | -  |

\*Delayed reports: Aseptic Meningitis: (1975) Mo. 1; (1974) Minn. 1  
 Brucellosis: (1974) Ga. 5  
 Chickenpox: (1975) Me. 9, N.H. 1, Vt. 29, Calif. 19, Guam 3  
 Encephalitis, primary: (1974) N.J. 1

Hepatitis B: (1975) Guam 1; (1974) N.J. 15, D.C. 5, Ark. 1, Hepatitis unspecified: (1974) N.J. 3, La. delete 1  
 La. delete 1  
 Hepatitis A: (1975) Me. 3, Vt. 2, Nev. 3, Guam 2; (1974)  
 Me. delete 1, N.J. 37, D.C. 2, W.Va. delete 1,  
 Ga. 2, Ark. 7, La. delete 2, N.M. 1

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TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES  
FOR WEEKS ENDING JANUARY 25, 1975 AND JANUARY 26, 1974 (4th WEEK) — Continued

| AREA                   | MEASLES (Rubeola) |            |       | MENINGOCOCCAL INFECTIONS, TOTAL |            |      | MUMPS |           | PERTUSSIS | RUBELLA |           | TETANUS   |
|------------------------|-------------------|------------|-------|---------------------------------|------------|------|-------|-----------|-----------|---------|-----------|-----------|
|                        | 1975              | Cumulative |       | 1975                            | Cumulative |      | 1975  | Cum. 1975 | 1975      | 1975    | Cum. 1975 | Cum. 1975 |
|                        |                   | 1975       | 1974  |                                 | 1975       | 1974 |       |           |           |         |           |           |
| UNITED STATES          | 282               | 828        | 1,593 | 35                              | 123        | 96   | 1,280 | 4,869     | 13        | 225     | 553       | 6         |
| NEW ENGLAND            | 1                 | 2          | 164   | 3                               | 10         | 7    | 55    | 190       | —         | 11      | 38        | —         |
| Maine                  | —                 | —          | 6     | —                               | —          | —    | —     | 2         | —         | —       | 3         | —         |
| New Hampshire *        | —                 | —          | 109   | —                               | 1          | 2    | —     | 2         | —         | —       | 5         | —         |
| Vermont *              | —                 | —          | —     | —                               | —          | —    | —     | —         | —         | —       | —         | —         |
| Massachusetts          | —                 | —          | 20    | 2                               | 4          | 1    | 7     | 30        | —         | 11      | 25        | —         |
| Rhode Island           | —                 | —          | 25    | —                               | 1          | 3    | 29    | 81        | —         | —       | —         | —         |
| Connecticut            | 1                 | 2          | 4     | 1                               | 4          | 1    | 19    | 75        | —         | —       | 5         | —         |
| MIDDLE ATLANTIC        | 17                | 68         | 418   | 3                               | 9          | 13   | 46    | 304       | 1         | 11      | 30        | —         |
| Upstate New York       | 4                 | 23         | 5     | 2                               | 4          | 1    | 20    | 146       | —         | —       | 7         | —         |
| New York City          | 1                 | 7          | 37    | —                               | —          | 5    | 14    | 61        | 1         | 4       | 6         | —         |
| New Jersey *           | 12                | 35         | 296   | —                               | 2          | 6    | —     | 26        | —         | 5       | 11        | —         |
| Pennsylvania           | —                 | 3          | 80    | 1                               | 3          | 1    | 12    | 71        | —         | 2       | 6         | —         |
| EAST NORTH CENTRAL     | 117               | 339        | 598   | 6                               | 19         | 7    | 595   | 2,006     | 7         | 65      | 120       | —         |
| Ohio                   | 1                 | 6          | 331   | —                               | 5          | 4    | 40    | 173       | —         | 3       | 4         | —         |
| Indiana                | 17                | 30         | 19    | —                               | —          | —    | 47    | 281       | —         | 16      | 19        | —         |
| Illinois               | 39                | 109        | 111   | 1                               | 2          | —    | 95    | 161       | —         | 7       | 15        | —         |
| Michigan *             | 42                | 113        | 97    | 4                               | 10         | 3    | 272   | 885       | —         | 24      | 55        | —         |
| Wisconsin *            | 18                | 81         | 40    | 1                               | 2          | —    | 141   | 506       | 7         | 15      | 27        | —         |
| WEST NORTH CENTRAL     | 48                | 127        | 82    | 2                               | 7          | 7    | 78    | 257       | —         | 6       | 18        | 1         |
| Minnesota              | —                 | —          | 72    | —                               | 1          | 4    | 1     | 1         | —         | —       | 2         | —         |
| Iowa                   | —                 | —          | 2     | —                               | 1          | 1    | 23    | 75        | —         | 1       | 1         | —         |
| Missouri *             | 10                | 12         | 4     | 2                               | 5          | —    | 6     | 51        | —         | 2       | 7         | 1         |
| North Dakota           | 7                 | 10         | 3     | —                               | —          | 1    | 26    | 57        | —         | 2       | 2         | —         |
| South Dakota           | —                 | 3          | 1     | —                               | —          | —    | —     | 1         | —         | —       | —         | —         |
| Nebraska               | 31                | 88         | —     | —                               | —          | —    | —     | 2         | —         | —       | —         | —         |
| Kansas                 | —                 | 14         | —     | —                               | —          | 1    | 22    | 70        | —         | 1       | 6         | —         |
| SOUTH ATLANTIC         | 15                | 33         | 46    | 3                               | 19         | 17   | 82    | 279       | 2         | 64      | 90        | 2         |
| Delaware               | —                 | —          | —     | 1                               | 1          | 3    | —     | 4         | —         | 1       | 2         | —         |
| Maryland               | —                 | —          | —     | —                               | 1          | 2    | 1     | 6         | —         | —       | —         | —         |
| District of Columbia * | —                 | —          | —     | —                               | —          | —    | 3     | 5         | —         | —       | —         | —         |
| Virginia               | —                 | 1          | 4     | 1                               | 4          | 5    | 19    | 52        | 1         | 2       | 7         | —         |
| West Virginia          | 2                 | 14         | 14    | —                               | —          | 2    | 37    | 120       | 1         | 7       | 10        | —         |
| North Carolina         | —                 | —          | —     | —                               | 2          | 2    | NN    | NN        | —         | —       | —         | —         |
| South Carolina         | 12                | 14         | 5     | 1                               | 4          | 1    | 3     | 8         | —         | 53      | 65        | 1         |
| Georgia *              | —                 | —          | 1     | —                               | 3          | —    | —     | —         | —         | —       | —         | —         |
| Florida                | 1                 | 4          | 22    | —                               | 4          | 2    | 19    | 84        | —         | 1       | 6         | 1         |
| EAST SOUTH CENTRAL     | 3                 | 18         | 7     | 8                               | 30         | 6    | 78    | 622       | —         | 14      | 57        | —         |
| Kentucky               | 2                 | 12         | 7     | —                               | 9          | 2    | 31    | 338       | —         | 4       | 16        | —         |
| Tennessee              | 1                 | 4          | —     | 3                               | 10         | 3    | 27    | 252       | —         | 10      | 39        | —         |
| Alabama                | —                 | —          | —     | 5                               | 8          | 1    | 17    | 26        | —         | —       | 1         | —         |
| Mississippi            | —                 | 2          | —     | —                               | 3          | —    | 3     | 6         | —         | —       | 1         | —         |
| WEST SOUTH CENTRAL     | 1                 | 10         | 18    | 6                               | 19         | 22   | 111   | 428       | 1         | 3       | 76        | —         |
| Arkansas               | —                 | —          | —     | —                               | —          | 4    | 2     | 5         | —         | —       | —         | —         |
| Louisiana *            | —                 | —          | 3     | 3                               | 5          | 4    | 11    | 59        | —         | —       | 24        | —         |
| Oklahoma               | —                 | 1          | 3     | —                               | 2          | 4    | 3     | 17        | —         | —       | 42        | —         |
| Texas                  | 1                 | 9          | 12    | 3                               | 12         | 10   | 95    | 347       | 1         | 3       | 10        | —         |
| MOUNTAIN               | 20                | 77         | 105   | 1                               | 2          | 2    | 12    | 47        | —         | 3       | 7         | —         |
| Montana                | —                 | —          | 94    | —                               | —          | —    | —     | —         | —         | —       | 1         | —         |
| Idaho                  | —                 | 2          | 1     | —                               | —          | —    | —     | —         | —         | 1       | 1         | —         |
| Wyoming                | —                 | —          | —     | —                               | —          | —    | —     | —         | —         | —       | —         | —         |
| Colorado               | 20                | 74         | 4     | —                               | —          | —    | 9     | 22        | —         | —       | 2         | —         |
| New Mexico             | —                 | 1          | 5     | —                               | —          | 1    | —     | —         | —         | 1       | 2         | —         |
| Arizona                | —                 | —          | 1     | —                               | 1          | —    | —     | —         | —         | 1       | 1         | —         |
| Utah                   | —                 | —          | —     | 1                               | 1          | 1    | —     | 2         | —         | —       | —         | —         |
| Nevada                 | —                 | —          | —     | —                               | —          | —    | 3     | 23        | —         | —       | —         | —         |
| PACIFIC                | 60                | 154        | 155   | 3                               | 8          | 15   | 223   | 736       | 2         | 48      | 117       | 3         |
| Washington             | —                 | 3          | 5     | 1                               | 2          | 3    | 104   | 325       | —         | 11      | 30        | —         |
| Oregon                 | 2                 | 6          | —     | —                               | —          | 3    | 21    | 52        | —         | 6       | 11        | —         |
| California             | 58                | 145        | 150   | 2                               | 6          | 9    | 98    | 351       | 2         | 31      | 74        | 3         |
| Alaska                 | —                 | —          | —     | —                               | —          | —    | —     | 4         | —         | —       | —         | —         |
| Hawaii                 | —                 | —          | —     | —                               | —          | —    | —     | 4         | —         | —       | 2         | —         |
| Guam                   | ---               | —          | —     | ---                             | —          | —    | ---   | 1         | ---       | ---     | —         | —         |
| Puerto Rico            | 12                | 12         | 29    | —                               | —          | —    | 42    | 42        | 2         | 1       | 1         | —         |
| Virgin Islands         | —                 | 2          | 3     | —                               | —          | —    | —     | 11        | —         | —       | —         | —         |

\*Delayed reports: Measles: (1975) Wisc. 10

Meningococcal infection: (1974) N.H. 2, N.J. 1,  
D.C. 1, Ga. 1

Mumps: (1974) D.C. 1, La. delete 1

Pertussis: (1975) Vt. 1

Rubella: (1975) Mo. delete 1; (1974) D.C. 1

Tetanus: (1974) Mich. 1

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES  
FOR WEEKS ENDING JANUARY 25, 1975 AND JANUARY 26, 1974 (4th WEEK) - Continued

| AREA                 | TUBERCULOSIS |              | TULA-<br>REMIA | TYPHOID<br>FEVER |              | TYPHUS-FEVER<br>TICK-BORNE<br>(Rky. Mt. spotted fever) |              | VENEREAL DISEASES (Civilian Cases Only) |            |        |                        |            |              | RABIES<br>IN<br>ANIMALS |
|----------------------|--------------|--------------|----------------|------------------|--------------|--------------------------------------------------------|--------------|-----------------------------------------|------------|--------|------------------------|------------|--------------|-------------------------|
|                      | 1975         | Cum.<br>1975 | Cum.<br>1975   | 1975             | Cum.<br>1975 | 1975                                                   | Cum.<br>1975 | GONORRHEA                               |            |        | SYPHILIS (Pri. & Sec.) |            | Cum.<br>1975 |                         |
|                      |              |              |                |                  |              |                                                        |              | 1975                                    | Cumulative |        | 1975                   | Cumulative |              |                         |
|                      |              |              |                |                  |              |                                                        |              | 1975                                    | 1975       | 1974   |                        | 1975       | 1974         |                         |
| UNITED STATES        | 501          | 1,811        | 6              | 5                | 12           | 1                                                      | 9            | 19,638                                  | 69,401     | 64,229 | 459                    | 1,852      | 1,861        | 152                     |
| NEW ENGLAND          | 8            | 55           | 1              | -                | -            | -                                                      | -            | 637                                     | 2,163      | 1,633  | 21                     | 62         | 70           | 1                       |
| Maine                | 2            | 4            | -              | -                | -            | -                                                      | -            | 37                                      | 168        | 116    | 1                      | 2          | 2            | 1                       |
| New Hampshire        | -            | 6            | 1              | -                | -            | -                                                      | -            | 7                                       | 55         | 45     | 1                      | 1          | 2            | -                       |
| Vermont              | 1            | 1            | -              | -                | -            | -                                                      | -            | 11                                      | 32         | 48     | -                      | 3          | -            | -                       |
| Massachusetts *      | 3            | 30           | -              | -                | -            | -                                                      | -            | 333                                     | 989        | 756    | 17                     | 43         | 50           | -                       |
| Rhode Island         | 2            | 7            | -              | -                | -            | -                                                      | -            | 24                                      | 161        | 132    | -                      | 1          | 2            | -                       |
| Connecticut          | -            | 7            | -              | -                | -            | -                                                      | -            | 225                                     | 758        | 536    | 2                      | 12         | 14           | -                       |
| MIDDLE ATLANTIC      | 87           | 267          | 1              | 1                | 1            | -                                                      | -            | 2,527                                   | 8,050      | 8,016  | 110                    | 414        | 394          | 5                       |
| Upstate New York     | 18           | 56           | 1              | 1                | 1            | -                                                      | -            | 510                                     | 1,839      | 1,502  | 15                     | 41         | 39           | 5                       |
| New York City        | 52           | 159          | -              | -                | -            | -                                                      | -            | 1,017                                   | 3,375      | 3,330  | 62                     | 250        | 224          | -                       |
| New Jersey           | 17           | 52           | -              | -                | -            | -                                                      | -            | 201                                     | 857        | 1,203  | 18                     | 57         | 65           | -                       |
| Pennsylvania         | -            | -            | -              | -                | -            | -                                                      | -            | 799                                     | 1,979      | 1,981  | 15                     | 66         | 66           | -                       |
| EAST NORTH CENTRAL   | 64           | 333          | -              | -                | 1            | -                                                      | 1            | 3,569                                   | 11,257     | 10,235 | 30                     | 150        | 156          | 3                       |
| Ohio *               | 24           | 107          | -              | -                | 1            | -                                                      | 1            | 1,586                                   | 3,766      | 2,844  | 11                     | 37         | 20           | -                       |
| Indiana              | 12           | 45           | -              | -                | -            | -                                                      | -            | 236                                     | 1,028      | 904    | 3                      | 14         | 16           | -                       |
| Illinois             | 17           | 86           | -              | -                | -            | -                                                      | -            | 807                                     | 3,281      | 3,132  | 9                      | 67         | 80           | -                       |
| Michigan             | 11           | 95           | -              | -                | -            | -                                                      | -            | 610                                     | 2,158      | 2,467  | 6                      | 24         | 32           | -                       |
| Wisconsin            | -            | -            | -              | -                | -            | -                                                      | -            | 330                                     | 1,024      | 888    | 1                      | 8          | 8            | 3                       |
| WEST NORTH CENTRAL   | 11           | 40           | 1              | 1                | 1            | -                                                      | -            | 1,027                                   | 3,329      | 3,273  | 10                     | 56         | 42           | 41                      |
| Minnesota *          | 1            | 4            | -              | 1                | 1            | -                                                      | -            | 245                                     | 832        | 729    | 1                      | 7          | 4            | 7                       |
| Iowa                 | -            | 5            | -              | -                | -            | -                                                      | -            | 66                                      | 126        | 476    | -                      | -          | 4            | 7                       |
| Missouri             | 6            | 18           | 1              | -                | -            | -                                                      | -            | 401                                     | 1,375      | 1,022  | 6                      | 33         | 28           | 8                       |
| North Dakota         | -            | -            | -              | -                | -            | -                                                      | -            | 13                                      | 60         | 56     | 2                      | 3          | -            | 14                      |
| South Dakota         | -            | 3            | -              | -                | -            | -                                                      | -            | 45                                      | 159        | 144    | 1                      | 1          | -            | -                       |
| Nebraska             | 1            | 2            | -              | -                | -            | -                                                      | -            | 52                                      | 206        | 260    | -                      | 2          | -            | 1                       |
| Kansas               | 3            | 8            | -              | -                | -            | -                                                      | -            | 205                                     | 571        | 586    | -                      | 10         | 6            | 4                       |
| SOUTH ATLANTIC       | 98           | 429          | 2              | 1                | 1            | -                                                      | 5            | 4,200                                   | 16,956     | 15,900 | 146                    | 519        | 594          | 20                      |
| Delaware             | -            | 7            | -              | -                | -            | -                                                      | -            | 82                                      | 225        | 241    | 1                      | 8          | 6            | -                       |
| Maryland             | 4            | 62           | -              | -                | -            | -                                                      | -            | 472                                     | 1,671      | 1,431  | 3                      | 16         | 66           | -                       |
| District of Columbia | 12           | 30           | -              | -                | -            | -                                                      | -            | 278                                     | 1,228      | 1,597  | 9                      | 51         | 52           | -                       |
| Virginia             | 13           | 59           | 1              | -                | -            | -                                                      | -            | 482                                     | 1,888      | 1,450  | 10                     | 55         | 74           | 13                      |
| West Virginia        | 6            | 25           | -              | -                | -            | -                                                      | -            | 65                                      | 204        | 190    | -                      | -          | 2            | 1                       |
| North Carolina       | 16           | 70           | -              | 1                | 1            | -                                                      | -            | 742                                     | 2,786      | 2,125  | 16                     | 60         | 62           | 1                       |
| South Carolina       | -            | 8            | 1              | -                | -            | -                                                      | 5            | 285                                     | 1,349      | 1,689  | 7                      | 39         | 49           | -                       |
| Georgia *            | 15           | 49           | -              | -                | -            | -                                                      | -            | 936                                     | 3,264      | 2,816  | 13                     | 72         | 95           | 4                       |
| Florida              | 32           | 119          | -              | -                | -            | -                                                      | -            | 858                                     | 4,341      | 4,361  | 87                     | 218        | 188          | 1                       |
| EAST SOUTH CENTRAL   | 53           | 157          | -              | -                | -            | 1                                                      | 2            | 1,582                                   | 5,193      | 5,471  | 26                     | 68         | 97           | 26                      |
| Kentucky             | 6            | 35           | -              | -                | -            | -                                                      | 1            | 186                                     | 750        | 668    | 2                      | 6          | 22           | 20                      |
| Tennessee            | 29           | 56           | -              | -                | -            | -                                                      | -            | 624                                     | 2,234      | 2,155  | 4                      | 21         | 38           | 2                       |
| Alabama              | 14           | 53           | -              | -                | -            | 1                                                      | 1            | 449                                     | 1,100      | 1,546  | 7                      | 23         | 18           | 4                       |
| Mississippi          | 4            | 13           | -              | -                | -            | -                                                      | -            | 323                                     | 1,109      | 1,102  | 13                     | 18         | 19           | -                       |
| WEST SOUTH CENTRAL   | 45           | 136          | 1              | -                | -            | -                                                      | 1            | 2,672                                   | 9,584      | 8,541  | 41                     | 197        | 171          | 37                      |
| Arkansas             | 8            | 36           | -              | -                | -            | -                                                      | -            | 460                                     | 796        | 933    | 1                      | 4          | 8            | 5                       |
| Louisiana *          | 11           | 36           | -              | -                | -            | -                                                      | -            | 468                                     | 1,742      | 1,845  | 4                      | 59         | 51           | 1                       |
| Oklahoma             | 3            | 17           | -              | -                | -            | -                                                      | 1            | 182                                     | 708        | 647    | 3                      | 14         | 12           | 12                      |
| Texas                | 23           | 47           | 1              | -                | -            | -                                                      | -            | 1,562                                   | 6,338      | 5,116  | 33                     | 120        | 100          | 19                      |
| MOUNTAIN             | 12           | 56           | -              | 1                | 1            | -                                                      | -            | 618                                     | 2,632      | 2,269  | 10                     | 44         | 45           | 11                      |
| Montana              | -            | -            | -              | -                | -            | -                                                      | -            | 37                                      | 189        | 136    | -                      | -          | -            | 1                       |
| Idaho                | 2            | 2            | -              | -                | -            | -                                                      | -            | 24                                      | 138        | 147    | -                      | -          | -            | -                       |
| Wyoming              | 1            | 2            | -              | 1                | 1            | -                                                      | -            | 14                                      | 45         | 54     | -                      | -          | -            | -                       |
| Colorado             | -            | -            | -              | -                | -            | -                                                      | -            | 138                                     | 664        | 655    | 4                      | 13         | 10           | -                       |
| New Mexico           | -            | 5            | -              | -                | -            | -                                                      | -            | 126                                     | 486        | 315    | -                      | 7          | 9            | 10                      |
| Arizona              | 7            | 37           | -              | -                | -            | -                                                      | -            | 160                                     | 734        | 589    | 4                      | 21         | 17           | -                       |
| Utah                 | -            | -            | -              | -                | -            | -                                                      | -            | 41                                      | 109        | 111    | -                      | -          | 2            | -                       |
| Nevada *             | 2            | 10           | -              | -                | -            | -                                                      | -            | 78                                      | 267        | 262    | 2                      | 3          | 7            | -                       |
| PACIFIC              | 123          | 338          | -              | 1                | 7            | -                                                      | -            | 2,806                                   | 10,237     | 8,891  | 65                     | 342        | 292          | 8                       |
| Washington           | 12           | 31           | -              | -                | -            | -                                                      | -            | 186                                     | 812        | 854    | -                      | 17         | 11           | -                       |
| Oregon               | 1            | 3            | -              | -                | -            | -                                                      | -            | 225                                     | 892        | 765    | 1                      | 7          | 8            | -                       |
| California           | 100          | 281          | -              | 1                | 7            | -                                                      | -            | 2,275                                   | 8,059      | 6,910  | 64                     | 314        | 271          | 6                       |
| Alaska               | -            | -            | -              | -                | -            | -                                                      | -            | 78                                      | 270        | 190    | -                      | -          | -            | 2                       |
| Hawaii               | 10           | 23           | -              | -                | -            | -                                                      | -            | 42                                      | 204        | 172    | -                      | 4          | 2            | -                       |
| Guam *               | ---          | 13           | -              | ---              | -            | ---                                                    | -            | ---                                     | 22         | ---    | ---                    | -          | ---          | -                       |
| Puerto Rico          | 24           | 24           | -              | -                | -            | -                                                      | -            | 211                                     | 211        | 248    | 40                     | 40         | 76           | 4                       |
| Virgin Islands       | -            | -            | -              | -                | -            | -                                                      | -            | -                                       | 7          | 56     | -                      | 3          | 6            | -                       |

\*Delayed reports: Tuberculosis: (1974) Ohio delete 1, Minn. 6  
 Tularemia: (1974) Ga. 3  
 RMSF: (1974) Ga. 1  
 Gonorrhea: (1975) Mass. 341, La. delete 1, Nev. 50,  
 Guam 13; (1974) La. delete 8  
 Syphilis: (1975) Mass. 18  
 Rabies: (1975) La. delete 1, (1974) Minn. 1, La. delete 1

Week No. 04

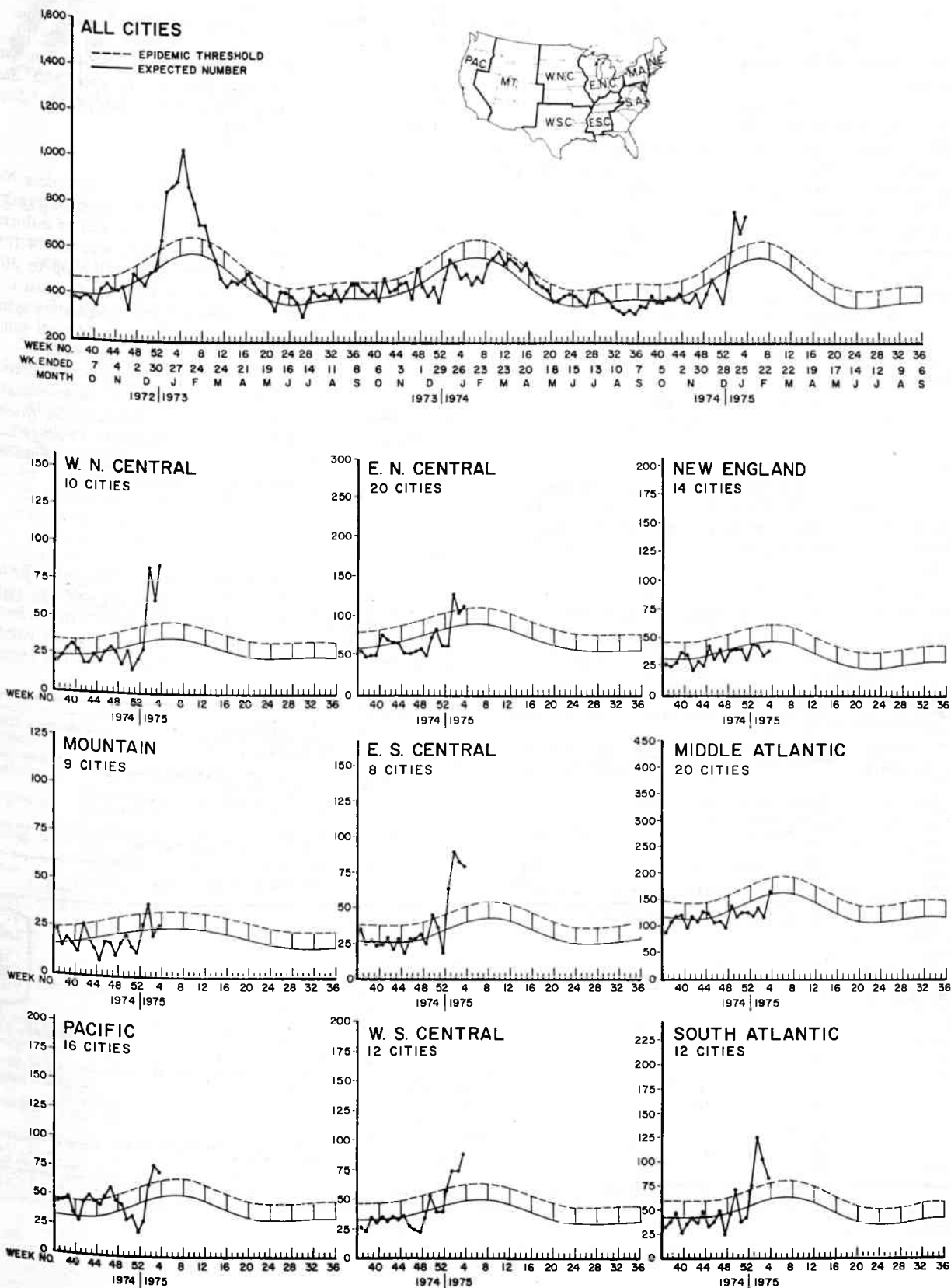
TABLE IV. DEATHS IN 121 UNITED STATES CITIES FOR WEEK ENDING JANUARY 25, 1975

(By place of occurrence and week of filing certificate. Excludes fetal deaths)

| Area                   | All Causes |                   |             |             |              | Pneumonia and Influenza All Ages | Area                    | All Causes |                   |             |             |              | Pneumonia and Influenza All Ages |
|------------------------|------------|-------------------|-------------|-------------|--------------|----------------------------------|-------------------------|------------|-------------------|-------------|-------------|--------------|----------------------------------|
|                        | All Ages   | 65 years and over | 45-64 years | 25-44 years | Under 1 year |                                  |                         | All Ages   | 65 years and over | 45-64 years | 25-44 years | Under 1 year |                                  |
| NEW ENGLAND            | 701        | 444               | 174         | 30          | 27           | 39                               | SOUTH ATLANTIC          | 1,381      | 828               | 401         | 90          | 37           | 82                               |
| Boston, Mass.          | 206        | 118               | 59          | 13          | 6            | 9                                | Atlanta, Ga.            | 147        | 93                | 41          | 8           | 3            | 9                                |
| Bridgeport, Conn.      | 47         | 36                | 11          | —           | —            | 6                                | Baltimore, Md.          | 267        | 152               | 86          | 19          | 5            | 9                                |
| Cambridge, Mass.       | 32         | 21                | 10          | —           | —            | 4                                | Charlotte, N. C.        | 67         | 36                | 20          | 8           | 1            | 10                               |
| Fall River, Mass.      | 32         | 20                | 9           | 1           | 1            | —                                | Jacksonville, Fla.      | 102        | 59                | 28          | 8           | 2            | 1                                |
| Hartford, Conn.        | 61         | 32                | 16          | 3           | 7            | 2                                | Miami, Fla.             | 130        | 76                | 46          | 3           | 2            | 5                                |
| Lowell, Mass.          | 31         | 17                | 11          | 1           | 1            | 3                                | Norfolk, Va.            | 65         | 30                | 22          | 8           | 4            | 3                                |
| Lynn, Mass.            | 24         | 21                | 3           | —           | —            | —                                | Richmond, Va.           | 83         | 47                | 29          | 4           | 1            | 7                                |
| New Bedford, Mass.     | 20         | 15                | 2           | 3           | —            | 2                                | Savannah, Ga.           | 47         | 30                | 12          | 1           | 4            | 6                                |
| New Haven, Conn.       | 44         | 33                | 6           | 1           | 1            | 3                                | St. Petersburg, Fla.    | 153        | 130               | 18          | 3           | 2            | 13                               |
| Providence, R. I.      | 68         | 35                | 15          | 5           | 7            | 2                                | Tampa, Fla.             | 86         | 65                | 12          | 6           | 3            | 13                               |
| Somerville, Mass.      | 13         | 7                 | 6           | —           | —            | 2                                | Washington, D. C.       | 176        | 80                | 66          | 18          | 8            | 5                                |
| Springfield, Mass.     | 46         | 33                | 11          | 1           | 1            | 6                                | Wilmington, Del.        | 58         | 30                | 21          | 4           | 2            | 1                                |
| Waterbury, Conn.       | 27         | 19                | 7           | 1           | —            | —                                |                         |            |                   |             |             |              |                                  |
| Worcester, Mass.       | 50         | 37                | 8           | 1           | 3            | —                                | EAST SOUTH CENTRAL      | 937        | 568               | 244         | 66          | 22           | 79                               |
| MIDDLE ATLANTIC        | 3,110      | 1,887             | 861         | 201         | 73           | 164                              | Birmingham, Ala.        | 135        | 71                | 42          | 15          | 3            | 5                                |
| Albany, N. Y.          | 56         | 34                | 16          | 3           | 1            | 2                                | Chattanooga, Tenn.      | 62         | 40                | 16          | 3           | —            | 10                               |
| Allentown, Pa.         | 26         | 20                | 6           | —           | —            | 3                                | Knoxville, Tenn.        | 54         | 40                | 8           | 2           | 2            | 7                                |
| Buffalo, N. Y.         | 134        | 75                | 39          | 14          | 4            | 6                                | Louisville, Ky.         | 157        | 99                | 40          | 10          | 5            | 14                               |
| Camden, N. J.          | 37         | 28                | 5           | 3           | —            | —                                | Memphis, Tenn.          | 304        | 188               | 83          | 13          | 7            | 26                               |
| Elizabeth, N. J.       | 36         | 22                | 11          | 1           | —            | —                                | Mobile, Ala.            | 59         | 33                | 13          | 6           | 2            | 1                                |
| Erie, Pa.              | 29         | 18                | 10          | —           | 1            | 3                                | Montgomery, Ala.        | 40         | 21                | 12          | 6           | —            | 4                                |
| Jersey City, N. J.     | 55         | 42                | 11          | 2           | —            | 4                                | Nashville, Tenn.        | 126        | 76                | 30          | 11          | 3            | 12                               |
| Newark, N. J.          | 72         | 29                | 29          | 5           | 4            | 9                                | WEST SOUTH CENTRAL      | 1,492      | 893               | 389         | 84          | 57           | 87                               |
| New York City, N. Y. * | 1,552      | 955               | 408         | 111         | 31           | 79                               | Austin, Tex.            | 63         | 43                | 19          | —           | 1            | 8                                |
| Paterson, N. J.        | 39         | 22                | 8           | 4           | 3            | —                                | Baton Rouge, La.        | 63         | 40                | 19          | 1           | 3            | 2                                |
| Philadelphia, Pa.      | 398        | 207               | 142         | 23          | 17           | 7                                | Corpus Christi, Tex.    | 40         | 21                | 15          | 1           | 1            | 2                                |
| Pittsburgh, Pa.        | 221        | 138               | 67          | 5           | 4            | 23                               | Dallas, Tex.            | 219        | 126               | 56          | 14          | 14           | 5                                |
| Reading, Pa.           | 51         | 31                | 13          | 5           | —            | 7                                | El Paso, Tex.           | 51         | 25                | 22          | 3           | —            | 7                                |
| Rochester, N. Y.       | 120        | 76                | 28          | 9           | 2            | 9                                | Fort Worth, Tex.        | 69         | 49                | 14          | 4           | —            | 4                                |
| Schenectady, N. Y.     | 28         | 16                | 12          | —           | —            | —                                | Houston, Tex.           | 313        | 165               | 92          | 24          | 12           | 13                               |
| Scranton, Pa.          | 63         | 43                | 14          | 5           | 1            | 6                                | Little Rock, Ark.       | 92         | 51                | 20          | 8           | 6            | 9                                |
| Syracuse, N. Y.        | 87         | 58                | 21          | 4           | 1            | 2                                | New Orleans, La.        | 182        | 106               | 48          | 9           | 5            | 4                                |
| Trenton, N. J.         | 43         | 23                | 12          | 5           | 3            | 2                                | San Antonio, Tex.       | 199        | 137               | 37          | 11          | 7            | 12                               |
| Utica, N. Y.           | 28         | 25                | 2           | 1           | —            | 1                                | Shreveport, La.         | 92         | 58                | 25          | 3           | 3            | 6                                |
| Yonkers, N. Y.         | 35         | 25                | 7           | 1           | 1            | 1                                | Tulsa, Okla.            | 109        | 72                | 22          | 6           | 5            | 15                               |
| EAST NORTH CENTRAL     | 2,810      | 1,649             | 743         | 180         | 140          | 112                              | MOUNTAIN                | 558        | 329               | 129         | 51          | 24           | 26                               |
| Akron, Ohio            | 63         | 32                | 16          | 4           | 7            | 1                                | Albuquerque, N. Mex.    | 62         | 31                | 18          | 10          | 1            | 5                                |
| Canton, Ohio           | 52         | 33                | 12          | 1           | 2            | 5                                | Colorado Springs, Colo. | 31         | 19                | 5           | 2           | 3            | 2                                |
| Chicago, Ill.          | 757        | 418               | 225         | 66          | 21           | 21                               | Denver, Colo.           | 87         | 53                | 17          | 5           | 2            | 5                                |
| Cincinnati, Ohio       | 188        | 121               | 52          | 5           | 7            | 5                                | Las Vegas, Nev.         | 20         | 13                | 5           | 2           | —            | 1                                |
| Cleveland, Ohio        | 200        | 106               | 63          | 14          | 8            | 5                                | Ogden, Utah             | 24         | 16                | 4           | 2           | —            | 5                                |
| Columbus, Ohio         | 176        | 96                | 46          | 12          | 15           | 3                                | Phoenix, Ariz.          | 149        | 90                | 29          | 15          | 12           | 2                                |
| Dayton, Ohio           | 126        | 82                | 35          | 5           | 3            | 5                                | Pueblo, Colo.           | 28         | 18                | 4           | 5           | 1            | 2                                |
| Detroit, Mich.         | 370        | 197               | 94          | 27          | 46           | 10                               | Salt Lake City, Utah    | 56         | 29                | 16          | 5           | 3            | 3                                |
| Evansville, Ind.       | 64         | 52                | 5           | 2           | 1            | 6                                | Tucson, Ariz.           | 101        | 60                | 31          | 5           | 2            | 1                                |
| Fort Wayne, Ind.       | 56         | 36                | 15          | 3           | —            | 6                                | PACIFIC                 | 1,973      | 1,298             | 471         | 89          | 54           | 73                               |
| Gary, Ind.             | 39         | 25                | 5           | 3           | 2            | 2                                | Berkeley, Calif.        | 23         | 15                | 5           | 1           | 1            | —                                |
| Grand Rapids, Mich.    | 52         | 30                | 15          | 3           | 1            | 3                                | Fresno, Calif.          | 70         | 49                | 11          | 4           | 4            | 3                                |
| Indianapolis, Ind.     | 160        | 88                | 47          | 11          | 10           | 3                                | Glendale, Calif.        | 39         | 33                | 6           | —           | —            | —                                |
| Madison, Wis.          | 27         | 12                | 9           | 1           | 2            | 3                                | Honolulu, Hawaii        | 60         | 36                | 18          | 2           | 2            | —                                |
| Milwaukee, Wis.        | 159        | 112               | 31          | 8           | 5            | 9                                | Long Beach, Calif.      | 139        | 85                | 40          | 8           | 1            | 5                                |
| Peoria, Ill.           | 65         | 42                | 12          | 4           | 2            | 7                                | Los Angeles, Calif.     | 624        | 430               | 133         | 21          | 16           | 19                               |
| Rockford, Ill.         | 45         | 34                | 7           | 2           | 2            | 8                                | Oakland, Calif.         | 81         | 54                | 17          | 3           | 3            | 3                                |
| South Bend, Ind.       | 44         | 29                | 9           | 2           | 1            | 7                                | Pasadena, Calif.        | 38         | 29                | 6           | —           | 3            | 2                                |
| Toledo, Ohio           | 113        | 72                | 31          | 4           | 1            | 2                                | Portland, Oreg.         | 161        | 110               | 35          | 5           | 5            | 12                               |
| Youngstown, Ohio       | 54         | 32                | 14          | 3           | 4            | 1                                | Sacramento, Calif.      | 70         | 46                | 19          | 1           | 3            | 2                                |
| WEST NORTHCENTRAL      | 1,138      | 771               | 251         | 46          | 31           | 87                               | San Diego, Calif.       | 155        | 100               | 35          | 16          | —            | 6                                |
| Des Moines, Iowa       | 61         | 40                | 13          | 3           | —            | 3                                | San Francisco, Calif.   | 190        | 115               | 53          | 9           | 6            | 8                                |
| Duluth, Minn.          | 32         | 27                | 3           | —           | 2            | 8                                | San Jose, Calif.        | 59         | 34                | 21          | 3           | 1            | —                                |
| Kansas City, Kans.     | 63         | 45                | 6           | 8           | 2            | 4                                | Seattle, Wash.          | 167        | 104               | 39          | 11          | 8            | 5                                |
| Kansas City, Mo.       | 182        | 119               | 43          | 10          | 4            | 11                               | Spokane, Wash.          | 51         | 32                | 14          | 4           | 1            | 5                                |
| Lincoln, Nebr.         | 41         | 31                | 9           | 1           | —            | 2                                | Tacoma, Wash.           | 46         | 26                | 19          | 1           | —            | 3                                |
| Minneapolis, Minn.     | 148        | 95                | 33          | 5           | 10           | 11                               |                         |            |                   |             |             |              |                                  |
| Omaha, Nebr.           | 151        | 105               | 32          | 8           | 4            | 9                                | Total                   | 14,100     | 8,667             | 3,663       | 837         | 465          | 749                              |
| St. Louis, Mo.         | 287        | 194               | 72          | 9           | 4            | 9                                | Expected Number         | 13,334     | 8,095             | 3,524       | 831         | 405          | 554                              |
| St. Paul, Minn.        | 74         | 53                | 15          | 1           | 2            | 3                                |                         |            |                   |             |             |              |                                  |
| Wichita, Kans.         | 99         | 62                | 25          | 1           | 3            | 27                               |                         |            |                   |             |             |              |                                  |

\*Estimate based on average percent of divisional total

Figure 2  
PNEUMONIA-INFLUENZA DEATHS IN 121 UNITED STATES CITIES



## CURRENT TRENDS

## INFLUENZA — Washington, Kansas, Wisconsin, New York

Further influenza outbreaks have been confirmed in the Pacific, West North Central, East North Central, and Middle Atlantic regions of the United States.

**Washington**

Outbreaks of influenza-like illness have been reported from King, Pend Oreille, Pierce, Thurston, and Whatcom counties. Isolates of influenza A virus similar to A/Port Chalmers/1/73 have been confirmed in King, Pierce, and Pend Oreille counties. An increased incidence of influenza-like illness was first indicated in several communities by a rise in Junior High School absenteeism to above 10%.

(Reported by Harlan McNutt, MD, Health Officer and Orvis Harrelson, MD, Director of School Health, Tacoma; Larry Bergner, MD, Health Officer, George Ray, MD, Professor of Laboratory Medicine, Children's Orthopedic Hospital, Alf Pedersen, MD, Director, Acute Diseases, Seattle; Frank Hammerstrom, MD, private physician, Pend Oreille County; Vern Ashby, Head, Virus Isolation Laboratory, Jack Allard, PhD, Director, State Health Laboratories, Thieu L Nghiem, MD, State Epidemiologist, Washington Department of Social and Health Services.)

**Kansas**

School absenteeism has shown a marked increase over that in past weeks, with levels as high as 50% in some schools. Reports of 5 seroconversions and 1 viral isolation from 6 of 105 counties confirm the presence of a virus similar to A/Port Chalmers/1/73.

(Reported by Donald E Wilcox, MD, State Epidemiologist, Kansas State Department of Health and Environment.)

**Wisconsin**

In the past 3 weeks the presence of influenza-like illness has been reported by physicians throughout the state. The

State Laboratory has isolated influenza-A virus from 60 specimens.

(Reported by S L Inhorn, MD, Director, Wisconsin State Laboratory of Hygiene, and H Grant Skinner, MD, State Epidemiologist, Wisconsin Department of Health and Social Services.)

**New York**

Influenza activity in New York State (excluding New York City) has been minimal since the December outbreak in Hamburg. In the past week, however, 3 isolates of influenza A virus were confirmed from the Albany area and 4 from Alden, a suburb of Buffalo. With absenteeism up to 30%, several schools in Courtland, Glens Falls, and Alden have closed. Individuals have experienced upper respiratory symptoms, and many have complained of gastrointestinal symptoms. Mortality figures remain below epidemic levels.

(Reported by Thomas D Flanagan, PhD, Director, Erie County Virology Laboratory; Victoria Smith, MD, Epidemiologist, Alan Hinman, MD, Director, Acute Communicable Disease Control Bureau, Rudolf Deible, MD, Director, Virology Laboratories, and Donald O Lyman, MD, Acting State Epidemiologist, New York State Department of Health.)

**Editorial Note**

For the third consecutive week, pneumonia and influenza deaths in 121 U.S. cities have been above the epidemic threshold. Regional graphs indicate decreased activity in the South Atlantic and East South Central regions and increased activity in the West North Central and West South Central regions (Figure 2).

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The data in this report are provisional, based on weekly telegraphs 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.

In addition to the established procedures for reporting morbidity and mortality, the editor welcomes accounts of interesting cases, outbreaks, environmental hazards, or other public health problems of current interest to health officials.

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