



# Morbidity and Mortality

U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE / PUBLIC HEALTH SERVICE HEALTH SERVICES AND MENTAL HEALTH ADMINISTRATION

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**EPIDEMIOLOGIC NOTES AND REPORTS**  
**SUSPECTED SMALLPOX - New Hampshire**

On April 9, 1971, an 8-year-old boy who had departed from Lahore, West Pakistan, on March 28 arrived in Boston, Massachusetts. Intermediate stops included Karachi, West Pakistan; Tehran, Iran; Jidda and Mecca, Saudi Arabia; Rome, Italy; and Paris, France. On his arrival, he traveled by limousine to Nashua, New Hampshire, where he stayed in a motel with his brother and parents. On April 11, the child developed a vesicular rash and was seen by a local physician who diagnosed chickenpox. Because of recent travel in an endemic area, however, smallpox was included in the differential diagnosis.

On April 13, the Division of Public Health of the New Hampshire State Department of Health and Welfare notified CDC of a suspected smallpox case, and a Smallpox Epidemiologist was dispatched from Boston. Clinical history showed that the patient had received smallpox vaccinations in 1965,

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December 1968, January 1969, May 1969, November 1970, and March 1971. Local skin reactions were reported to have followed the 1965 and January 1969 vaccinations. The family denied any knowledge of exposure to smallpox. No systemic symptoms were reported prior to the onset of the rash.

(Continued on page 152)

**TABLE I. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES**

(Cumulative totals include revised and delayed reports through previous weeks)

MAY 6 1971

| DISEASE   | 17th WEEK ENDED |                | MEDIAN<br>1966 - 1970 | CUMULATIVE, FIRST 17 WEEKS |        |                       |
|---|-----------------|----------------|-----------------------|----------------------------|--------|-----------------------|
|   | May 1,<br>1971  | May 2,<br>1970 |                       | 1971                       | 1970   | MEDIAN<br>1966 - 1970 |
| Aseptic meningitis . . . . .                          | 38              | 32             | 32                    | 792                        | 458    | 484                   |
| Brucellosis . . . . .                                 | 2               | 3              | 8                     | 42                         | 55     | 55                    |
| Diphtheria . . . . .                                  | 1               | 2              | 2                     | 61                         | 108    | 50                    |
| Encephalitis, primary:                                |                 |                |                       |                            |        |                       |
| Arthropod-borne & unspecified . . . . .               | 32              | 17             | 21                    | 372                        | 335    | 334                   |
| Encephalitis, post-infectious . . . . .               | 8               | 20             | 14                    | 101                        | 148    | 157                   |
| Hepatitis, serum . . . . .                            | 193             | 134            | 89                    | 2,816                      | 2,218  | 1,266                 |
| Hepatitis, infectious . . . . .                       | 1,307           | 1,116          | 911                   | 20,511                     | 18,508 | 14,242                |
| Malaria . . . . .                                     | 47              | 85             | 42                    | 1,222                      | 1,120  | 726                   |
| Measles (rubeola) . . . . .                           | 4,014           | 1,786          | 1,786                 | 40,694                     | 22,076 | 22,076                |
| Meningococcal infections, total . . . . .             | 73              | 48             | 63                    | 1,154                      | 1,157  | 1,253                 |
| Civilian . . . . .                                    | 69              | 47             | 58                    | 987                        | 1,036  | 1,130                 |
| Military . . . . .                                    | 4               | 1              | 7                     | 167                        | 121    | 123                   |
| Mumps . . . . .                                       | 4,026           | 2,928          | ---                   | 62,476                     | 46,055 | ---                   |
| Poliomyelitis, total . . . . .                        | 1               | ---            | ---                   | 6                          | 2      | 5                     |
| Paralytic . . . . .                                   | ---             | ---            | ---                   | ---                        | 2      | 5                     |
| Rubella (German measles) . . . . .                    | 1,860           | 2,700          | 2,021                 | 22,849                     | 30,174 | 23,854                |
| Tetanus . . . . .                                     | 2               | 1              | 1                     | 24                         | 28     | 35                    |
| Tularemia . . . . .                                   | ---             | ---            | 2                     | 28                         | 31     | 32                    |
| Typhoid fever . . . . .                               | 5               | 7              | 8                     | 78                         | 75     | 78                    |
| Typhus, tick-borne (Rky. Mt. spotted fever) . . . . . | 3               | ---            | 2                     | 11                         | 5      | 8                     |
| Rabies in animals . . . . .                           | 98              | 60             | 76                    | 1,530                      | 1,141  | 1,319                 |

**TABLE II. NOTIFIABLE DISEASES OF LOW FREQUENCY**

|                                       | Cum. |  | Cum. |
|---------------------------------------|------|--|------|
| Anthrax: . . . . .                    | ---  | Psittacosis: . . . . .                             | 11   |
| Botulism: . . . . .                   | ---  | Rabies in Man: . . . . .                           | 1    |
| Leptospirosis: . . Calif. -1, Tex. -1 | 42   | Rubella congenital syndrome: . Calif. -1, Colo. -1 | 26   |
| Leptospirosis: . Iowa -1              | 11   | Trichinosis: . Alaska -1                           | 28   |
| Plague: . . . . .                     | ---  | Typhus, murine: . . . . .                          | 2    |

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SURVEILLANCE SUMMARY  
ANIMAL RABIES - February 1971

A total of 310 cases of rabies were reported for February 1971 (Table 1), an increase of two cases from the January total. Rabies in wildlife species accounted for 78 percent of the total, an increase of 7 percent from the January figure.

Twenty-one states reported a total of 119 rabid skunks, which comprised 38 percent of all the reported cases. Fourteen states reported a total of 94 rabid foxes. Rabies was reported in 17 raccoons, four bats, three mongooses, two bobcats, and two coyotes. Rabies was also reported in 69 domestic animals: 38 cattle, 16 dogs, 11 cats, two horses, one hog, and one sheep.

Thirty-one states and Puerto Rico reported rabies cases. The states reporting the highest number of cases were Oklahoma (30), Texas (20), and Kentucky and West Virginia (19 cases each). Fifteen counties reported three or more rabies cases for the month: seven reported three cases each, two reported four cases each, and six reported more than four cases. The six counties reporting the most cases were DeKalb, Tennessee, (5 cases); Nevada, California, (5 cases); Imperial, California, (7 cases); Garfield, Oklahoma, (9 cases); Pike, Alabama, (9 cases); and St. Lawrence, New York, (9 cases).

Three of these six counties had outbreaks of skunk rabies, and the other three had outbreaks of fox rabies. De-

Kalb County, Tennessee, which is in an endemic area, reported rabies in four foxes and one house cat. Nevada County, California, which reported only three skunk rabies cases in 1970, reported five rabid skunks for February. Imperial County, California, has had a continuing rabies problem in skunks. It reported eight cases in skunks and two in dogs for February 1970; for February 1971, it reported seven skunk cases. St. Lawrence County, New York, reported more rabies cases than any other county in the United States for each of the preceding 4 months. In February, St. Lawrence reported nine fox cases of rabies.

(Reported by the Rabies Control Unit, Viral Diseases Branch, Epidemiology Program, CDC.)

A copy of the report from which these data were obtained is available on request from:

Center for Disease Control  
Attn: Chief, Rabies Control Unit,  
Viral Diseases Branch,  
Epidemiology Program  
Lawrenceville, Georgia 30245

Table 1  
Reports of Rabies in Animals, by Type of Animal and State, February 1971

|                      | Dogs | Cats | Cattle | Horses & Mules | Domestic Animal Total | Skunks  |               | Foxes |      | Raccoons | Bats | Other          | Wild Animal Total   | Total |                        |
|----------------------|------|------|--------|----------------|-----------------------|---------|---------------|-------|------|----------|------|----------------|---------------------|-------|------------------------|
|                      |      |      |        |                |                       | Striped | Not Specified | Red   | Gray |          |      |                |                     |       | Not Specified          |
| <b>TOTALS</b>        | 16   | 11   | 38     | 2              | 69                    | 107     | 11            | 35    | 39   | 18       | 17   | 4              | 12                  | 241   | 310                    |
| <b>STATE</b>         |      |      |        |                |                       |         |               |       |      |          |      |                |                     |       |                        |
| Alabama              |      |      | 1      |                | 1                     |         |               |       |      | 10       |      |                |                     | 10    | 11 Alabama             |
| Alaska               |      |      |        |                | 0                     |         |               |       |      |          |      | 2 Arctic Foxes |                     | 12    | 12 Alaska              |
| Arizona              |      |      |        |                | 0                     |         |               |       |      |          |      |                |                     | 0     | 0 Arizona              |
| Arkansas             |      |      | 1      |                | 2                     | 2       |               | 1     |      |          |      |                | 1 Hog               | 3     | 5 Arkansas             |
| California           |      |      |        |                | 0                     | 18      |               |       |      |          |      |                |                     | 18    | 18 California          |
| Colorado             |      |      |        |                | 0                     | 1       |               |       |      |          |      |                |                     | 1     | 1 Colorado             |
| Connecticut          |      |      |        |                | 0                     |         |               |       |      |          |      |                |                     | 0     | 0 Connecticut          |
| Delaware             |      |      |        |                | 0                     |         |               |       |      |          |      |                |                     | 0     | 0 Delaware             |
| District of Columbia |      |      |        |                | 0                     |         |               |       |      |          |      |                |                     | 0     | 0 District of Columbia |
| Florida              |      |      |        |                | 0                     |         |               |       |      |          | 5    |                |                     | 5     | 5 Florida              |
| Georgia              |      |      |        |                | 0                     |         |               |       |      |          | 7    |                | 1 Bobcat            | 8     | 8 Georgia              |
| Hawaii               |      |      |        |                | 0                     |         |               |       |      |          |      |                |                     | 0     | 0 Hawaii               |
| Idaho                |      |      |        |                | 0                     |         |               |       |      |          |      |                |                     | 0     | 0 Idaho                |
| Illinois             |      | 2    | 1      |                | 3                     | 12      |               |       |      |          |      |                |                     | 15    | 15 Illinois            |
| Indiana              |      |      |        |                | 0                     | 1       |               |       |      |          |      |                |                     | 1     | 1 Indiana              |
| Iowa                 | 1    |      | 5      |                | 6                     | 9       |               |       |      |          |      |                |                     | 9     | 15 Iowa                |
| Kansas               |      | 1    |        |                | 1                     | 5       |               |       |      |          |      |                |                     | 5     | 6 Kansas               |
| Kentucky             | 3    |      | 4      |                | 7                     |         | 2             |       | 7    |          |      |                |                     | 12    | 19 Kentucky            |
| Louisiana            |      |      |        |                | 0                     |         |               |       | 2    |          |      |                |                     | 2     | 2 Louisiana            |
| Maine                | 3    | 2    |        |                | 5                     |         |               | 10    |      |          |      |                |                     | 13    | 18 Maine               |
| Maryland             |      |      |        |                | 0                     |         |               |       |      |          |      |                |                     | 0     | 0 Maryland             |
| Massachusetts        |      |      |        |                | 0                     |         |               |       |      |          |      |                |                     | 0     | 0 Massachusetts        |
| Michigan             |      |      |        |                | 0                     | 1       |               | 1     |      |          |      |                |                     | 2     | 2 Michigan             |
| Minnesota            | 2    | 1    | 4      |                | 7                     | 4       |               |       |      |          |      | 3              | 1 Spotted Skunk     | 8     | 15 Minnesota           |
| Mississippi          |      |      |        |                | 0                     |         |               |       |      |          |      |                |                     | 0     | 0 Mississippi          |
| Missouri             | 2    | 1    | 2      |                | 5                     | 3       | 1             | 2     | 2    |          |      |                |                     | 8     | 13 Missouri            |
| Montana              |      |      | 1      |                | 1                     | 1       |               |       |      |          |      |                |                     | 1     | 2 Montana              |
| Nebraska             |      |      |        |                | 0                     |         |               |       |      |          |      |                |                     | 1     | 1 Nebraska             |
| Nevada               |      |      |        |                | 0                     |         |               |       |      |          |      |                |                     | 0     | 0 Nevada               |
| New Hampshire        |      |      |        |                | 0                     |         |               |       |      |          |      |                |                     | 0     | 0 New Hampshire        |
| New Jersey           |      |      |        |                | 0                     |         |               |       |      |          |      |                |                     | 0     | 0 New Jersey           |
| New Mexico           |      |      |        |                | 0                     |         |               |       |      |          |      |                |                     | 0     | 0 New Mexico           |
| New York             |      |      | 2      |                | 2                     |         |               | 8     | 1    | 5        |      |                |                     | 14    | 16 New York            |
| North Carolina       |      |      |        |                | 0                     |         |               |       |      |          |      |                |                     | 0     | 0 North Carolina       |
| North Dakota         |      |      | 2      |                | 2                     | 10      |               |       |      |          |      |                | 2 Coyotes           | 12    | 14 North Dakota        |
| Ohio                 |      |      |        |                | 0                     | 2       |               |       |      |          |      |                |                     | 2     | 2 Ohio                 |
| Oklahoma             |      |      | 4      |                | 4                     | 25      |               |       |      |          | 1    |                |                     | 26    | 30 Oklahoma            |
| Oregon               |      |      |        |                | 0                     |         |               |       |      |          |      |                |                     | 0     | 0 Oregon               |
| Pennsylvania         |      |      |        |                | 0                     |         |               |       |      |          |      |                |                     | 0     | 0 Pennsylvania         |
| Rhode Island         |      |      |        |                | 0                     |         |               |       |      |          |      |                |                     | 0     | 0 Rhode Island         |
| South Carolina       |      |      |        |                | 0                     |         |               |       |      |          |      |                |                     | 0     | 0 South Carolina       |
| South Dakota         |      | 2    | 4      |                | 6                     |         | 5             |       |      |          |      |                |                     | 6     | 12 South Dakota        |
| Tennessee            |      | 1    |        |                | 1                     | 2       |               | 1     | 4    |          |      | 1              |                     | 7     | 8 Tennessee            |
| Texas                | 1    |      | 4      | 1              | 6                     | 9       | 1             |       | 3    |          |      | 1              |                     | 14    | 20 Texas               |
| Utah                 |      |      |        |                | 0                     |         |               |       |      |          |      |                |                     | 0     | 0 Utah                 |
| Vermont              |      |      |        |                | 0                     |         |               |       |      |          |      |                |                     | 1     | 1 Vermont              |
| Virginia             |      |      | 1      |                | 1                     |         |               |       | 9    |          |      |                |                     | 9     | 10 Virginia            |
| Washington           |      |      |        |                | 0                     |         |               |       |      |          |      |                |                     | 0     | 0 Washington           |
| West Virginia        | 3    | 1    | 1      |                | 6                     |         |               | 1     | 11   |          |      |                | 1 Sheep<br>1 Bobcat | 13    | 19 West Virginia       |
| Wisconsin            |      |      | 1      | 1              | 2                     | 2       |               |       |      |          |      |                |                     | 2     | 4 Wisconsin            |
| Wyoming              |      |      |        |                | 0                     |         |               |       |      |          |      |                |                     | 1     | 1 Wyoming              |
| Guam                 |      |      |        |                | 0                     |         |               |       |      |          |      |                |                     | 0     | 0 Guam                 |
| Puerto Rico          | 1    |      |        |                | 1                     |         |               |       |      |          |      |                | 3 Mongooses         | 3     | 4 Puerto Rico          |
| Virgin Islands       |      |      |        |                | 0                     |         |               |       |      |          |      |                |                     | 0     | 0 Virgin Islands       |

## EPIDEMIOLOGIC NOTES AND REPORTS

## SALMONELLA KOTTBUS MENINGITIS ASSOCIATED WITH CONTAMINATED BREAST MILK — Illinois

On Feb. 23, 1971, a 19-day-old premature infant in a hospital nursery in Elmhurst, Illinois, became ill with meningitis. *Salmonella kottbus* was isolated from the infant's cerebrospinal fluid as well as from his blood, sputum, and stool specimens. The baby was being breast fed, and four separate cultures of the mother's breast milk were positive for *S. kottbus*. The mother had no mastitis or gastroenteritis. Follow-up cultures of her milk in late March were negative.

Three other infants in the nursery had asymptomatic enteric infections with *S. kottbus*, but there is no evidence that these infections preceded that of the infant with meningitis. The mother's contaminated milk, therefore, may have been the cause of the nursing infant's infection, but this could not be proven.

(Reported by Charles A. Lang, M.D., Director, Geraldine Simonek, R.N., P.H.N., Home Health Aid Coordinator, DuPage County Health Department; Paul R. Schnurrenberger,

D.V.M., Assistant State Epidemiologist, Franklin D. Yoder, M.D., Director, State of Illinois Department of Public Health; and an EIS Officer.)

## Editorial Note

This is the first reported isolation of salmonellae of any type from human milk. This organism has been isolated from cows' milk (from both raw milk and milk contaminated after pasteurization) and from milk products (1). Salmonellae have been isolated from the udders of cows in cases of mastitis, and they have been excreted by asymptomatic cows for prolonged periods following artificial infusion into the udders. Contamination of milk has also been documented following contact with infected calves.

## Reference

(1) Marth EH: Salmonellae and salmonellosis associated with milk and milk products. A review. J Dairy Sci 52:283-315, 1969

## MEASLES — Indiana

In January and February 1971, 112 cases of measles (rubella) occurred in an elementary school and junior high school (total enrollment, 1053 students) in Bremen, Indiana. Twelve of the 112 children had previously received measles vaccine. Five, however, had been inoculated before the age of 1.

Immunization data is complete for the kindergarten class only (Table 2). There were 97 children enrolled in kindergarten, and 56 had previously received measles vaccine. The measles attack rate for unvaccinated children was 43.9 percent, while that for vaccinated children was 3.6 percent. Of the 20 children in kindergarten who contracted measles, 18 were unvaccinated and 2 had been vaccinated previously. One of these latter children had received the vaccine at less than 1 year of age.

(Reported by Catherine Hibner, R.N., Bremen Public Schools,

Table 2  
Measles Attack Rates, by Immunization Status, Kindergarten Class,  
Bremen, Indiana, January and February 1971

| Immunization Status | Number of Children | Number of Cases | Attack Rate (Percent) |
|---------------------|--------------------|-----------------|-----------------------|
| Unvaccinated        | 41                 | 18              | 43.9                  |
| Vaccinated          | 56                 | 2               | 3.6                   |
| Total               | 97                 | 20              | 20.6                  |

Bremen, Indiana; James S. Robertson, M.D., Health Officer, Marshall County Health Department, Plymouth, Indiana; Charles L. Barrett, M.D., Epidemiologist, and Ray H. Vanderhook, M.D., Director, Division of Communicable Disease Control, Indiana State Board of Health.)

SURVEILLANCE SUMMARY  
HEPATITIS — July 1970 to January 1971

In the summer and fall quarters of hepatitis epidemiologic year (EY)\* 1971 (July 5, 1970, to Jan. 2, 1971), 32,560 cases of viral hepatitis were reported to CDC by State health departments. These cases represent a rate of 15.9 reported cases per 100,000 population for the 6-month period. In the same 6 months of the previous epidemiologic year, 28,022 cases were reported, for a rate of 13.9 per 100,000 population. Thus, in the first 6 months of EY 1971, there was a 14.4 percent increase in reported hepatitis incidence.

Most of this increase in hepatitis occurred in the summer quarter of EY 1971, when 15,964 cases were reported, representing a rate increase of 24 percent over the summer quarter rate of the previous EY. In addition, the summer quarter rate of 7.8 reports per 100,000 population is the same as the rates for the preceding winter and spring quarters of EY 1970 (Table 3). This is in contrast to the usually observed pattern of seasonal variation in reported hepatitis incidence (Figure 3). In previous years, the characteristic summer decreases and winter-spring increases of viral hepatitis incidence were

thought to reflect the usual seasonal occurrence of infectious hepatitis which accounted for the majority of cases. In the past year, however, and including the entire calendar year of 1970, the usual seasonal fluctuations of viral hepatitis incidence have not been observed.

The lack of seasonal fluctuations for reported viral hepatitis rate has been interpreted as reflecting the growing epidemiologic importance of serum hepatitis in the United States. In the first half of EY 1971, the rate of reported serum hepatitis cases continued to increase more rapidly than that of infectious hepatitis (Figure 4). In this period, there was a 33 percent increase in reported serum hepatitis as compared with a 13 percent rise of infectious hepatitis.

In the summer and fall quarter of EY 1971, the Pacific and New England regions continued to report the highest rates of hepatitis in the United States. The rates of reported hepatitis in each of these regions, however, has remained relatively stable (and even declined slightly in New England) when compared with rates in the same quarters of the previous EY. In

**Table 3**  
**Reported Viral Hepatitis Cases and Rate Per 100,000 by Quarter**  
**Epidemiologic Years 1970-1971, United States**

|        | EY 1970 |      | EY 1971 |      |
|--------|---------|------|---------|------|
|        | Number  | Rate | Number  | Rate |
| Summer | 12,640  | 6.3  | 15,964  | 7.8  |
| Fall   | 15,382  | 7.6  | 16,596  | 8.1  |
| Winter | 15,684  | 7.8  |         |      |
| Spring | 15,725  | 7.8  |         |      |

the summer quarter of EY 1971, the greatest rate increases occurred in the South Atlantic, East North Central, Mountain, and Middle Atlantic states (Table 4). The markedly increased incidence of hepatitis in the South Atlantic region in this quarter can largely be attributed to an outbreak of infectious hepatitis in Virginia, involving almost 500 persons in a home for mentally retarded children (MMWR, Vol. 19, No. 31).

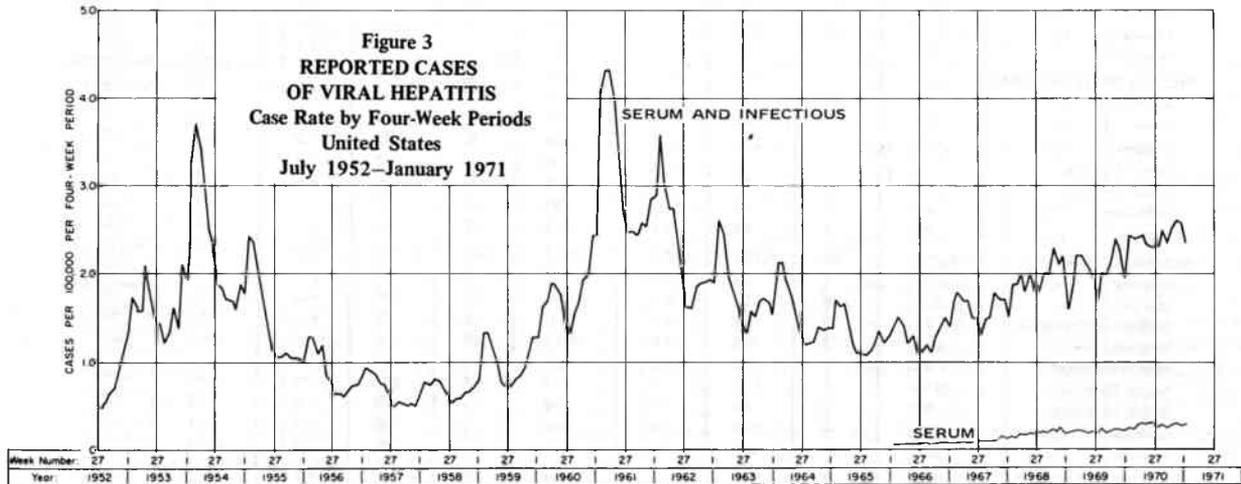
The increased rate of reported hepatitis in the fall quarter

of EY 1971 was not as dramatic as that for the summer quarter. The greatest rate increases occurred in the Mountain, South Atlantic, West North Central, and Middle Atlantic states (Table 5). The rate increases in the Mountain states reflects reporting increases in Montana and Idaho. Although the rate increases in these states are high, they represent relatively small increases in the number of cases reported. Rate decreases were noted in the East South Central, New England, West South Central, and East North Central states. (Reported by the Viral Diseases Branch, Epidemiology Program, CDC.)

\*The hepatitis epidemiologic year (EY) begins with the calendar week 27 and ends with week 26 of the following year.

A copy of the report from which these data were derived is available on request from:

Center for Disease Control  
 Attn: Viral Diseases Branch, Epidemiology Program  
 Atlanta, Georgia 30333



**Figure 4**  
**REPORTED CASES OF VIRAL HEPATITIS, CASE RATES BY FOUR-WEEK PERIODS**  
**UNITED STATES, JULY 1952-JANUARY 1971**

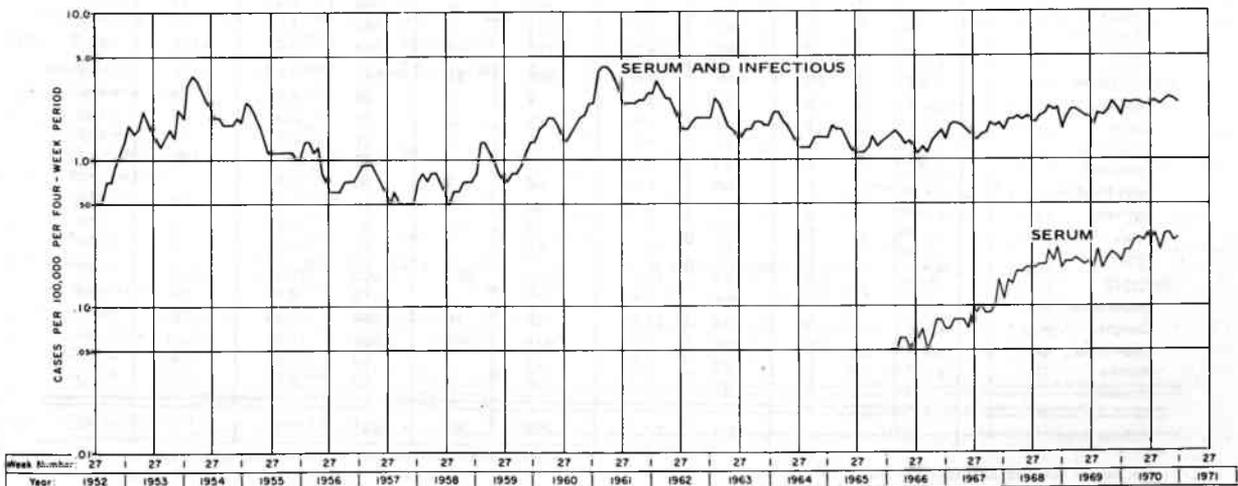


Table 4  
Reported Cases of Viral Hepatitis, Summer Quarter EY 1970 Compared With Summer Quarter EY 1971

| STATE                     | SUMMER QUARTER (EY 1970)           |       |            |        | SUMMER QUARTER (EY 1971)       |       |        |        | CHANGE IN SUMMER QUARTERS EY70 - EY71 |                        |
|---------------------------|------------------------------------|-------|------------|--------|--------------------------------|-------|--------|--------|---------------------------------------|------------------------|
|                           | JUNE 29, 1969 - SEPTEMBER 27, 1969 |       |            |        | JULY 5, 1970 - OCTOBER 3, 1970 |       |        |        | CASES                                 | PERCENT CHANGE IN RATE |
|                           | CASES                              |       |            | RATE * | CASES                          |       |        | RATE * |                                       |                        |
| Infectious                | Serum                              | Total | Infectious |        | Serum                          | Total | CASES  |        |                                       |                        |
| <b>UNITED STATES</b>      | 11,327                             | 1,313 | 12,640     | 6.3    | 14,171                         | 1,793 | 15,964 | 7.8    | +3,324                                | +24                    |
| <b>NEW ENGLAND</b>        | 1,143                              | 39    | 1,182      | 10.3   | 1,145                          | 72    | 1,217  | 10.5   | +35                                   | +2                     |
| Maine                     | 120                                | 1     | 121        | 12.4   | 147                            | 1     | 148    | 15.1   | +27                                   | +22                    |
| New Hampshire             | 44                                 | -     | 44         | 6.1    | 46                             | 4     | 50     | 6.8    | +6                                    | +11                    |
| Vermont                   | 36                                 | 1     | 37         | 8.4    | 88                             | -     | 88     | 19.6   | +51                                   | +133                   |
| Massachusetts             | 582                                | 20    | 602        | 11.0   | 510                            | 25    | 535    | 9.7    | -67                                   | -12                    |
| Rhode Island              | 228                                | 6     | 234        | 25.7   | 155                            | 10    | 165    | 18.1   | -69                                   | -30                    |
| Connecticut               | 133                                | 11    | 144        | 4.8    | 199                            | 32    | 231    | 7.6    | +87                                   | +58                    |
| <b>MIDDLE ATLANTIC</b>    | 2,064                              | 527   | 2,591      | 7.0    | 2,710                          | 745   | 3,455  | 9.2    | +864                                  | +31                    |
| New York City**           | 639                                | 358   | 997        | 12.4   | 766                            | 370   | 1,136  | 14.0   | +139                                  | +13                    |
| New York Upstate**        | 386                                | 26    | 412        | 4.0    | 493                            | 70    | 563    | 5.4    | +151                                  | +35                    |
| New Jersey                | 486                                | 95    | 581        | 8.1    | 692                            | 197   | 889    | 12.3   | +308                                  | +52                    |
| Pennsylvania              | 553                                | 48    | 601        | 5.1    | 759                            | 108   | 867    | 7.3    | +266                                  | +43                    |
| <b>EAST NORTH CENTRAL</b> | 1,564                              | 146   | 1,710      | 4.3    | 2,166                          | 304   | 2,470  | 6.1    | +760                                  | +42                    |
| Ohio                      | 366                                | 37    | 403        | 3.8    | 462                            | 39    | 501    | 4.6    | +98                                   | +21                    |
| Indiana                   | 98                                 | 1     | 99         | 1.9    | 112                            | 3     | 115    | 2.2    | +16                                   | +16                    |
| Illinois                  | 400                                | 12    | 412        | 3.7    | 507                            | 50    | 557    | 5.0    | +145                                  | +35                    |
| Michigan                  | 618                                | 96    | 714        | 8.1    | 940                            | 212   | 1,152  | 13.0   | +438                                  | +60                    |
| Wisconsin                 | 82                                 | -     | 82         | 1.9    | 145                            | -     | 145    | 3.4    | +63                                   | +79                    |
| <b>WEST NORTH CENTRAL</b> | 472                                | 21    | 493        | 3.0    | 515                            | 28    | 543    | 3.3    | +50                                   | +10                    |
| Minnesota                 | 82                                 | 13    | 95         | 2.6    | 69                             | 10    | 79     | 2.1    | -16                                   | -19                    |
| Iowa                      | 97                                 | -     | 97         | 3.5    | 92                             | -     | 92     | 3.3    | -5                                    | -6                     |
| Missouri                  | 158                                | 1     | 159        | 3.4    | 206                            | 5     | 211    | 4.5    | +52                                   | +32                    |
| North Dakota              | 8                                  | -     | 8          | 1.3    | 4                              | -     | 4      | 0.7    | -4                                    | -46                    |
| South Dakota              | 12                                 | -     | 12         | 1.8    | 4                              | -     | 4      | 0.6    | -8                                    | -67                    |
| Nebraska                  | 43                                 | -     | 43         | 3.0    | 30                             | -     | 30     | 2.1    | -13                                   | -30                    |
| Kansas                    | 72                                 | 7     | 79         | 3.4    | 110                            | 13    | 123    | 5.2    | +44                                   | +53                    |
| <b>SOUTH ATLANTIC</b>     | 1,216                              | 87    | 1,303      | 4.3    | 1,982                          | 166   | 2,148  | 7.0    | +845                                  | +63                    |
| Delaware                  | 24                                 | 1     | 25         | 4.6    | 36                             | 6     | 42     | 7.7    | +17                                   | +67                    |
| Maryland                  | 203                                | 15    | 218        | 5.8    | 215                            | 25    | 240    | 6.3    | +22                                   | +9                     |
| District of Columbia      | 22                                 | 9     | 31         | 3.9    | 40                             | 8     | 48     | 6.0    | +17                                   | +54                    |
| Virginia                  | 126                                | 3     | 129        | 2.8    | 567                            | 19    | 586    | 12.4   | +457                                  | +343                   |
| West Virginia             | 95                                 | 1     | 96         | 5.3    | 91                             | -     | 91     | 5.0    | -5                                    | -6                     |
| North Carolina            | 116                                | 1     | 117        | 2.2    | 223                            | 37    | 260    | 4.9    | +143                                  | +123                   |
| South Carolina            | 80                                 | -     | 80         | 3.0    | 74                             | 3     | 77     | 2.8    | -3                                    | -7                     |
| Georgia                   | 164                                | -     | 164        | 3.5    | 198                            | -     | 198    | 4.2    | +34                                   | +20                    |
| Florida                   | 386                                | 57    | 443        | 7.0    | 538                            | 68    | 606    | 9.3    | +163                                  | +33                    |
| <b>EAST SOUTH CENTRAL</b> | 679                                | 13    | 692        | 5.3    | 749                            | 10    | 759    | 5.8    | +67                                   | +9                     |
| Kentucky                  | 262                                | -     | 262        | 8.1    | 245                            | -     | 245    | 7.6    | -17                                   | -6                     |
| Tennessee                 | 272                                | 7     | 279        | 7.0    | 314                            | 8     | 322    | 8.0    | +43                                   | +14                    |
| Alabama                   | 63                                 | 4     | 67         | 1.9    | 134                            | 1     | 135    | 3.8    | +68                                   | +100                   |
| Mississippi               | 82                                 | 2     | 84         | 3.6    | 56                             | 1     | 57     | 2.4    | -27                                   | -33                    |
| <b>WEST SOUTH CENTRAL</b> | 915                                | 28    | 943        | 4.8    | 1,105                          | 64    | 1,169  | 5.9    | +226                                  | +23                    |
| Arkansas                  | 33                                 | -     | 33         | 1.7    | 144                            | 1     | 145    | 7.2    | +112                                  | +324                   |
| Louisiana                 | 197                                | 18    | 215        | 5.7    | 143                            | 25    | 168    | 4.4    | -47                                   | -23                    |
| Oklahoma                  | 96                                 | 1     | 97         | 3.8    | 102                            | -     | 102    | 3.9    | +5                                    | +3                     |
| Texas                     | 589                                | 9     | 598        | 5.3    | 716                            | 38    | 754    | 6.6    | +156                                  | +25                    |
| <b>MOUNTAIN</b>           | 535                                | 20    | 555        | 6.9    | 706                            | 37    | 743    | 9.2    | +188                                  | +33                    |
| Montana                   | 23                                 | 1     | 24         | 3.5    | 29                             | -     | 29     | 4.2    | +5                                    | +20                    |
| Idaho                     | 16                                 | 1     | 17         | 2.4    | 22                             | 2     | 24     | 3.3    | +7                                    | +38                    |
| Wyoming                   | 18                                 | -     | 18         | 5.6    | 21                             | -     | 21     | 6.6    | +3                                    | +18                    |
| Colorado                  | 127                                | 6     | 133        | 6.3    | 249                            | 13    | 262    | 12.3   | +129                                  | +95                    |
| New Mexico                | 68                                 | -     | 68         | 6.8    | 65                             | 3     | 68     | 6.8    | -                                     | -                      |
| Arizona                   | 164                                | 2     | 166        | 9.8    | 190                            | 5     | 195    | 11.3   | +29                                   | +15                    |
| Utah                      | 59                                 | 10    | 69         | 6.6    | 79                             | 11    | 90     | 8.5    | +21                                   | +29                    |
| Nevada                    | 60                                 | -     | 60         | 13.1   | 51                             | 3     | 54     | 11.6   | -6                                    | -11                    |
| <b>PACIFIC</b>            | 2,739                              | 432   | 3,171      | 12.2   | 3,093                          | 367   | 3,460  | 13.1   | +289                                  | +7                     |
| Washington                | 245                                | 11    | 256        | 7.5    | 310                            | 2     | 312    | 8.9    | +56                                   | +19                    |
| Oregon                    | 227                                | 7     | 234        | 11.5   | 248                            | 16    | 264    | 12.8   | +30                                   | +11                    |
| California                | 2,213                              | 413   | 2,626      | 13.5   | 2,417                          | 348   | 2,765  | 14.0   | +139                                  | +4                     |
| Alaska                    | 13                                 | -     | 13         | 4.6    | 49                             | -     | 49     | 17.0   | +36                                   | +270                   |
| Hawaii                    | 41                                 | 1     | 42         | 5.3    | 69                             | 1     | 70     | 8.6    | +28                                   | +62                    |
| Puerto Rico               | 351                                | -     | 351        | 12.7   | 291                            | 60    | 351    | 12.5   | -                                     | -2                     |

\* Rate per 100,000 population based on July 1 population estimates

\*\* Based on 1964 ratio: City of New York 43.8135  
Upstate 56.1865

Table 5  
Reported Cases of Viral Hepatitis, Fall Quarter EY 1970 Compared With Fall Quarter EY 1971

| STATE                     | FALL QUARTER (EY 1970)               |       |            |        | FALL QUARTER (EY 1971)            |       |        |        | CHANGE IN FALL QUARTERS EY70 - EY71 |                        |
|---------------------------|--------------------------------------|-------|------------|--------|-----------------------------------|-------|--------|--------|-------------------------------------|------------------------|
|                           | SEPTEMBER 28, 1969 - JANUARY 3, 1970 |       |            |        | OCTOBER 4, 1970 - JANUARY 2, 1971 |       |        |        | CASES                               | PERCENT CHANGE IN RATE |
|                           | CASES                                |       |            | RATE * | CASES                             |       |        | RATE * |                                     |                        |
| Infectious                | Serum                                | Total | Infectious |        | Serum                             | Total | CASES  |        |                                     |                        |
| <b>UNITED STATES</b>      | 13,883                               | 1,499 | 15,382     | 7.6    | 14,618                            | 1,978 | 16,596 | 8.1    | +1,214                              | +7                     |
| <b>NEW ENGLAND</b>        | 1,642                                | 61    | 1,703      | 14.8   | 1,419                             | 88    | 1,507  | 13.0   | -196                                | -12                    |
| Maine                     | 173                                  | —     | 173        | 17.7   | 215                               | —     | 215    | 22.0   | +42                                 | +24                    |
| New Hampshire             | 71                                   | 2     | 73         | 10.2   | 36                                | 1     | 37     | 5.1    | -36                                 | -50                    |
| Vermont                   | 68                                   | 1     | 69         | 15.7   | 150                               | 6     | 156    | 34.7   | +87                                 | +121                   |
| Massachusetts             | 895                                  | 14    | 909        | 16.6   | 511                               | 42    | 553    | 10.1   | -356                                | -39                    |
| Rhode Island              | 214                                  | 7     | 221        | 24.3   | 202                               | 5     | 207    | 22.6   | -14                                 | -7                     |
| Connecticut               | 221                                  | 37    | 258        | 8.6    | 305                               | 34    | 339    | 11.2   | +81                                 | +30                    |
| <b>MIDDLE ATLANTIC</b>    | 2,337                                | 605   | 2,942      | 7.9    | 2,922                             | 769   | 3,691  | 9.8    | +749                                | +24                    |
| New York City**           | 602                                  | 351   | 953        | 11.9   | 746                               | 368   | 1,114  | 13.8   | +161                                | +16                    |
| New York Upstate**        | 452                                  | 46    | 498        | 4.8    | 612                               | 68    | 680    | 6.6    | +182                                | +38                    |
| New Jersey                | 634                                  | 136   | 770        | 10.8   | 789                               | 229   | 1,018  | 14.1   | +248                                | +31                    |
| Pennsylvania              | 649                                  | 72    | 721        | 6.1    | 775                               | 104   | 879    | 7.4    | +158                                | +21                    |
| <b>EAST NORTH CENTRAL</b> | 2,427                                | 184   | 2,611      | 6.5    | 2,264                             | 226   | 2,490  | 6.2    | -121                                | -5                     |
| Ohio                      | 633                                  | 41    | 674        | 6.3    | 564                               | 44    | 608    | 5.6    | -66                                 | -11                    |
| Indiana                   | 209                                  | 2     | 211        | 4.1    | 113                               | 6     | 119    | 2.3    | -92                                 | -44                    |
| Illinois                  | 511                                  | 29    | 540        | 4.9    | 471                               | 38    | 509    | 4.6    | -31                                 | -6                     |
| Michigan                  | 968                                  | 111   | 1,079      | 12.3   | 981                               | 138   | 1,119  | 12.6   | +40                                 | +2                     |
| Wisconsin                 | 106                                  | 1     | 107        | 2.5    | 135                               | —     | 135    | 3.2    | +28                                 | +28                    |
| <b>WEST NORTH CENTRAL</b> | 456                                  | 25    | 481        | 3.0    | 571                               | 44    | 615    | 3.8    | +134                                | +27                    |
| Minnesota                 | 93                                   | 16    | 109        | 2.9    | 79                                | 13    | 92     | 2.5    | -17                                 | -14                    |
| Iowa                      | 81                                   | 2     | 83         | 3.0    | 67                                | 3     | 70     | 2.5    | -13                                 | -17                    |
| Missouri                  | 152                                  | 3     | 155        | 3.3    | 156                               | 7     | 163    | 3.5    | +8                                  | +6                     |
| North Dakota              | 10                                   | —     | 10         | 1.6    | 53                                | —     | 53     | 8.7    | +43                                 | +444                   |
| South Dakota              | 7                                    | —     | 7          | 1.1    | 7                                 | —     | 7      | 1.1    | —                                   | 0                      |
| Nebraska                  | 33                                   | —     | 33         | 2.3    | 38                                | 1     | 39     | 2.7    | +6                                  | +17                    |
| Kansas                    | 80                                   | 4     | 84         | 3.6    | 171                               | 20    | 191    | 8.1    | +107                                | +125                   |
| <b>SOUTH ATLANTIC</b>     | 1,306                                | 87    | 1,393      | 4.6    | 1,565                             | 254   | 1,819  | 5.9    | +426                                | +28                    |
| Delaware                  | 22                                   | —     | 22         | 4.1    | 25                                | 5     | 30     | 5.5    | +8                                  | +34                    |
| Maryland                  | 171                                  | 13    | 184        | 4.9    | 201                               | 47    | 248    | 6.5    | +64                                 | +33                    |
| District of Columbia      | 35                                   | 3     | 38         | 4.8    | 30                                | 9     | 39     | 4.9    | +1                                  | +2                     |
| Virginia                  | 118                                  | 5     | 123        | 2.6    | 307                               | 59    | 366    | 7.7    | +243                                | +196                   |
| West Virginia             | 100                                  | —     | 100        | 5.5    | 115                               | 2     | 117    | 6.4    | +17                                 | +16                    |
| North Carolina            | 268                                  | 6     | 274        | 5.3    | 198                               | 48    | 246    | 4.7    | -28                                 | -11                    |
| South Carolina            | 70                                   | —     | 70         | 2.6    | 89                                | 3     | 92     | 3.4    | +22                                 | +31                    |
| Georgia                   | 171                                  | —     | 171        | 3.7    | 150                               | —     | 150    | 3.2    | -21                                 | -14                    |
| Florida                   | 351                                  | 60    | 411        | 6.5    | 450                               | 81    | 531    | 8.2    | +120                                | +26                    |
| <b>EAST SOUTH CENTRAL</b> | 899                                  | 21    | 920        | 7.0    | 747                               | 29    | 776    | 5.9    | -144                                | -16                    |
| Kentucky                  | 397                                  | 5     | 402        | 12.4   | 270                               | 2     | 272    | 8.4    | -130                                | -32                    |
| Tennessee                 | 297                                  | 13    | 310        | 7.8    | 362                               | 16    | 378    | 9.4    | +68                                 | +21                    |
| Alabama                   | 127                                  | 3     | 130        | 3.7    | 81                                | 8     | 89     | 2.5    | -41                                 | -32                    |
| Mississippi               | 78                                   | —     | 78         | 3.3    | 34                                | 3     | 37     | 1.6    | -41                                 | -52                    |
| <b>WEST SOUTH CENTRAL</b> | 1,021                                | 48    | 1,069      | 5.5    | 895                               | 64    | 959    | 4.9    | -110                                | -11                    |
| Arkansas                  | 33                                   | 1     | 34         | 1.7    | 61                                | 4     | 65     | 3.2    | +31                                 | +88                    |
| Louisiana                 | 212                                  | 25    | 237        | 6.3    | 132                               | 18    | 150    | 4.0    | -87                                 | -37                    |
| Oklahoma                  | 134                                  | —     | 134        | 5.2    | 102                               | —     | 102    | 3.9    | -32                                 | -25                    |
| Texas                     | 642                                  | 22    | 664        | 6.0    | 600                               | 42    | 642    | 5.7    | -22                                 | -5                     |
| <b>MOUNTAIN</b>           | 589                                  | 21    | 610        | 7.6    | 828                               | 49    | 877    | 10.8   | +267                                | +42                    |
| Montana                   | 18                                   | 1     | 19         | 2.7    | 93                                | —     | 93     | 13.4   | +74                                 | +396                   |
| Idaho                     | 11                                   | —     | 11         | 1.5    | 59                                | 2     | 61     | 8.4    | +50                                 | +460                   |
| Wyoming                   | 44                                   | —     | 44         | 13.8   | 15                                | 1     | 16     | 5.0    | -28                                 | -64                    |
| Colorado                  | 161                                  | 10    | 171        | 8.1    | 285                               | 25    | 310    | 14.5   | +139                                | +79                    |
| New Mexico                | 83                                   | —     | 83         | 8.4    | 88                                | 1     | 89     | 9.0    | +6                                  | +7                     |
| Arizona                   | 190                                  | 6     | 196        | 11.6   | 153                               | —     | 153    | 8.9    | -43                                 | -23                    |
| Utah                      | 44                                   | 4     | 48         | 4.6    | 111                               | 20    | 131    | 12.4   | +83                                 | +170                   |
| Nevada                    | 38                                   | —     | 38         | 8.3    | 24                                | —     | 24     | 5.2    | -14                                 | -37                    |
| <b>PACIFIC</b>            | 3,206                                | 447   | 3,653      | 14.1   | 3,407                             | 455   | 3,862  | 14.6   | +209                                | +4                     |
| Washington                | 390                                  | 4     | 394        | 11.6   | 530                               | 7     | 537    | 15.3   | +143                                | +32                    |
| Oregon                    | 231                                  | 22    | 253        | 12.5   | 353                               | 18    | 371    | 18.0   | +118                                | +44                    |
| California                | 2,516                                | 419   | 2,935      | 15.1   | 2,438                             | 429   | 2,867  | 14.5   | -68                                 | -4                     |
| Alaska                    | 21                                   | —     | 21         | 7.4    | 25                                | 1     | 26     | 9.0    | +5                                  | +22                    |
| Hawaii                    | 48                                   | 2     | 50         | 6.3    | 61                                | —     | 61     | 7.5    | +11                                 | +19                    |
| Puerto Rico               | 254                                  | 3     | 257        | 9.3    | 210                               | 41    | 251    | 8.9    | -6                                  | -4                     |

\* Rate per 100,000 population based on July 1 population estimates.

\*\* Based on 1964 ratio: City of New York 43.8135  
Upstate 56.1865

## Morbidity and Mortality Weekly Report

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED  
MAY 1, 1971 AND MAY 2, 1970 (17th WEEK)

| AREA                    | ASEPTIC<br>MENIN-<br>GITIS | BRUCEL-<br>LOSIS | DIPH-<br>THERIA | ENCEPHALITIS                     |      |                      | HEPATITIS |            |       | MALARIA |              |
|-------------------------|----------------------------|------------------|-----------------|----------------------------------|------|----------------------|-----------|------------|-------|---------|--------------|
|                         |                            |                  |                 | Primary including<br>unsp. cases |      | Post In-<br>fectious | Serum     | Infectious |       | 1971    | Cum.<br>1971 |
|                         |                            |                  |                 | 1971                             | 1970 |                      |           | 1971       | 1971  |         |              |
| UNITED STATES.....      | 38                         | 2                | 1               | 32                               | 17   | 8                    | 193       | 1,307      | 1,116 | 47      | 1,222        |
| NEW ENGLAND.....        | -                          | -                | -               | 1                                | 4    | -                    | 8         | 98         | 113   | -       | 41           |
| Maine.....              | -                          | -                | -               | 1                                | -    | -                    | 2         | 10         | 20    | -       | 2            |
| New Hampshire.....      | -                          | -                | -               | -                                | 2    | -                    | -         | 7          | 1     | -       | 1            |
| Vermont.....            | -                          | -                | -               | -                                | -    | -                    | -         | 6          | 7     | -       | 1            |
| Massachusetts.....      | -                          | -                | -               | -                                | 1    | -                    | 1         | 33         | 62    | -       | 30           |
| Rhode Island.....       | -                          | -                | -               | -                                | 1    | -                    | 1         | 21         | 11    | -       | 3            |
| Connecticut.....        | -                          | -                | -               | -                                | -    | -                    | 4         | 21         | 12    | -       | 4            |
| MIDDLE ATLANTIC.....    | 2                          | -                | -               | 1                                | 3    | 1                    | 76        | 286        | 195   | 4       | 118          |
| New York City.....      | -                          | -                | -               | -                                | 2    | -                    | 46        | 78         | 95    | -       | 11           |
| New York, Up-State...   | -                          | -                | -               | -                                | -    | 1                    | 1         | 41         | 25    | 3       | 30           |
| New Jersey.....         | 2                          | -                | -               | 1                                | 1    | -                    | 21        | 75         | 27    | 1       | 54           |
| Pennsylvania.....       | -                          | -                | -               | -                                | -    | -                    | 8         | 92         | 48    | -       | 23           |
| EAST NORTH CENTRAL..... | 7                          | -                | -               | 20                               | 3    | -                    | 32        | 204        | 151   | 2       | 52           |
| Ohio.....               | 1                          | -                | -               | 11                               | 1    | -                    | 6         | 51         | 37    | -       | 12           |
| Indiana.....            | -                          | -                | -               | 2                                | -    | -                    | 1         | 4          | 17    | -       | 3            |
| Illinois.....           | 3                          | -                | -               | 3                                | 1    | -                    | 7         | 68         | 29    | -       | 11           |
| Michigan.....           | 3                          | -                | -               | 4                                | 1    | -                    | 18        | 71         | 62    | 2       | 19           |
| Wisconsin.....          | -                          | -                | -               | -                                | -    | -                    | -         | 10         | 6     | -       | 7            |
| WEST NORTH CENTRAL..... | -                          | -                | -               | 1                                | -    | -                    | 8         | 38         | 59    | 4       | 97           |
| Minnesota.....          | -                          | -                | -               | -                                | -    | -                    | -         | 7          | 10    | -       | 12           |
| Iowa.....               | -                          | -                | -               | -                                | -    | -                    | 2         | 5          | 7     | -       | 9            |
| Missouri.....           | -                          | -                | -               | -                                | -    | -                    | 1         | 8          | 25    | -       | 18           |
| North Dakota.....       | -                          | -                | -               | -                                | -    | -                    | -         | 2          | 1     | -       | -            |
| South Dakota.....       | -                          | -                | -               | -                                | -    | -                    | -         | 5          | -     | -       | -            |
| Nebraska.....           | -                          | -                | -               | -                                | -    | -                    | -         | 5          | 7     | -       | 6            |
| Kansas.....             | -                          | -                | -               | 1                                | -    | -                    | 5         | 6          | 9     | 4       | 52           |
| SOUTH ATLANTIC.....     | 8                          | -                | -               | 2                                | 1    | 5                    | 21        | 173        | 136   | 8       | 187          |
| Delaware.....           | -                          | -                | -               | -                                | -    | -                    | 1         | 2          | 2     | -       | 1            |
| Maryland.....           | -                          | -                | -               | -                                | -    | -                    | 3         | 13         | 11    | 6       | 33           |
| Dist. of Columbia...    | -                          | -                | -               | -                                | -    | -                    | -         | 2          | 2     | -       | -            |
| Virginia.....           | -                          | -                | -               | 2                                | -    | -                    | 7         | 23         | 14    | -       | 22           |
| West Virginia.....      | -                          | -                | -               | -                                | -    | -                    | -         | 3          | 10    | -       | 6            |
| North Carolina.....     | 3                          | -                | -               | -                                | -    | -                    | 1         | 29         | 28    | 2       | 62           |
| South Carolina.....     | -                          | -                | -               | -                                | -    | -                    | -         | 12         | 8     | -       | 9            |
| Georgia.....            | -                          | -                | -               | -                                | -    | -                    | -         | 28         | 8     | -       | 32           |
| Florida.....            | 5                          | -                | -               | -                                | 1    | 5                    | 9         | 61         | 53    | -       | 22           |
| EAST SOUTH CENTRAL..... | 7                          | -                | -               | 4                                | -    | -                    | 1         | 38         | 63    | 1       | 104          |
| Kentucky.....           | -                          | -                | -               | -                                | -    | -                    | -         | 7          | 36    | 1       | 88           |
| Tennessee.....          | 1                          | -                | -               | 1                                | -    | -                    | 1         | 18         | 19    | -       | -            |
| Alabama.....            | 1                          | -                | -               | 1                                | -    | -                    | -         | 5          | 5     | -       | 14           |
| Mississippi.....        | 5                          | -                | -               | 2                                | -    | -                    | -         | 8          | 3     | -       | 2            |
| WEST SOUTH CENTRAL..... | 1                          | 1                | 1               | -                                | 1    | 2                    | 6         | 144        | 105   | 11      | 299          |
| Arkansas.....           | -                          | -                | -               | -                                | -    | -                    | -         | 5          | -     | -       | 11           |
| Louisiana.....          | -                          | -                | -               | -                                | -    | -                    | 3         | 8          | 15    | 1       | 30           |
| Oklahoma.....           | -                          | -                | -               | -                                | 1    | -                    | -         | 16         | 6     | 2       | 45           |
| Texas.....              | 1                          | 1                | 1               | -                                | -    | 2                    | 3         | 115        | 84    | 8       | 213          |
| MOUNTAIN.....           | 1                          | -                | -               | -                                | 3    | -                    | 4         | 86         | 55    | 2       | 77           |
| Montana.....            | -                          | -                | -               | -                                | 2    | -                    | -         | 6          | 3     | -       | 1            |
| Idaho.....              | -                          | -                | -               | -                                | -    | -                    | -         | 5          | 2     | 1       | 3            |
| Wyoming.....            | -                          | -                | -               | -                                | -    | -                    | -         | 1          | 7     | -       | 1            |
| Colorado.....           | 1                          | -                | -               | -                                | -    | -                    | 4         | 32         | 19    | -       | 54           |
| New Mexico.....         | -                          | -                | -               | -                                | 1    | -                    | -         | 12         | 11    | -       | 6            |
| Arizona.....            | -                          | -                | -               | -                                | -    | -                    | -         | 19         | 13    | 1       | 8            |
| Utah.....               | -                          | -                | -               | -                                | -    | -                    | -         | 11         | -     | -       | 3            |
| Nevada.....             | -                          | -                | -               | -                                | -    | -                    | -         | -          | -     | -       | 1            |
| PACIFIC.....            | 12                         | 1                | -               | 3                                | 2    | -                    | 37        | 240        | 239   | 15      | 247          |
| Washington.....         | -                          | -                | -               | -                                | -    | -                    | -         | 26         | 43    | -       | 1            |
| Oregon.....             | -                          | -                | -               | -                                | -    | -                    | -         | 29         | 19    | 2       | 8            |
| California.....         | 12                         | 1                | -               | 3                                | 2    | -                    | 35        | 184        | 175   | 13      | 212          |
| Alaska.....             | -                          | -                | -               | -                                | -    | -                    | -         | 1          | 2     | -       | 3            |
| Hawaii.....             | -                          | -                | -               | -                                | -    | -                    | -         | 1          | -     | -       | 23           |
| Puerto Rico.....        | -                          | -                | -               | -                                | -    | -                    | -         | 25         | 20    | 1       | 13           |
| Virgin Islands.....     | -                          | -                | -               | -                                | -    | -                    | -         | -          | -     | -       | -            |

\*Delayed reports: Hepatitis, serum: N.J. delete 1 (1970) delete 1 (1971)

Hepatitis, infectious: Me. 1, N.J. delete 1 (1970),

Ind. delete 1, Okla. 1, P.R. 1

Malaria: Okla. 2, P.R. 3 (1970) 9 (1971)

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED

MAY 1, 1971 AND MAY 2, 1970 (17th WEEK) - CONTINUED

| AREA                    | MEASLES (Rubeola) |            |        | MENINGOCOCCAL INFECTIONS,<br>TOTAL |            |       | MUMPS |              | POLIOMYELITIS |           |              |
|-------------------------|-------------------|------------|--------|------------------------------------|------------|-------|-------|--------------|---------------|-----------|--------------|
|                         | 1971              | Cumulative |        | 1971                               | Cumulative |       | 1971  | Cum.<br>1971 | Total         | Paralytic |              |
|                         |                   | 1971       | 1970   |                                    | 1971       | 1970  |       |              | 1971          | 1971      | Cum.<br>1971 |
| UNITED STATES.....      | 4,014             | 40,694     | 22,076 | 73                                 | 1,154      | 1,157 | 4,026 | 62,476       | 1             | -         | 4            |
| NEW ENGLAND.....        | 259               | 1,663      | 313    | 4                                  | 48         | 43    | 213   | 3,748        | -             | -         | -            |
| Maine,*.....            | 68                | 739        | 10     | 1                                  | 7          | -     | 34    | 686          | -             | -         | -            |
| New Hampshire.....      | 7                 | 101        | 15     | 1                                  | 5          | 3     | 42    | 491          | -             | -         | -            |
| Vermont.....            | 4                 | 62         | 1      | -                                  | 5          | -     | -     | -            | -             | -         | -            |
| Massachusetts.....      | 12                | 211        | 234    | 1                                  | 19         | 16    | 61    | 917          | -             | -         | -            |
| Rhode Island.....       | -                 | 33         | 15     | -                                  | 2          | 3     | 46    | 861          | -             | -         | -            |
| Connecticut.....        | 168               | 517        | 38     | 1                                  | 15         | 16    | 30    | 793          | -             | -         | -            |
| MIDDLE ATLANTIC.....    | 423               | 4,290      | 2,924  | 6                                  | 143        | 202   | 222   | 4,185        | -             | -         | -            |
| New York City.....      | 267               | 2,502      | 495    | -                                  | 24         | 50    | 67    | 843          | -             | -         | -            |
| New York, Up-State...   | 15                | 286        | 117    | -                                  | 38         | 41    | NN    | NN           | -             | -         | -            |
| New Jersey.....         | 62                | 483        | 1,168  | 1                                  | 37         | 73    | 79    | 1,196        | -             | -         | -            |
| Pennsylvania,*.....     | 79                | 1,019      | 1,144  | 5                                  | 44         | 38    | 76    | 2,146        | -             | -         | -            |
| EAST NORTH CENTRAL..... | 895               | 8,019      | 5,014  | 8                                  | 118        | 132   | 1,528 | 25,347       | -             | -         | -            |
| Ohio.....               | 222               | 2,541      | 1,952  | 3                                  | 32         | 59    | 245   | 4,916        | -             | -         | -            |
| Indiana.....            | 141               | 1,241      | 182    | -                                  | 8          | 13    | 186   | 3,530        | -             | -         | -            |
| Illinois.....           | 169               | 1,871      | 1,909  | 4                                  | 38         | 30    | 159   | 2,598        | -             | -         | -            |
| Michigan.....           | 122               | 765        | 572    | 1                                  | 32         | 26    | 373   | 5,936        | -             | -         | -            |
| Wisconsin.....          | 241               | 1,601      | 399    | -                                  | 8          | 4     | 565   | 8,367        | -             | -         | -            |
| WEST NORTH CENTRAL..... | 671               | 4,234      | 2,071  | 6                                  | 104        | 59    | 204   | 3,998        | -             | -         | -            |
| Minnesota.....          | -                 | 46         | 26     | -                                  | 14         | 7     | 15    | 660          | -             | -         | -            |
| Iowa.....               | 307               | 1,546      | 73     | -                                  | 7          | 7     | 93    | 2,147        | -             | -         | -            |
| Missouri.....           | 297               | 1,469      | 762    | 4                                  | 40         | 40    | 6     | 537          | -             | -         | -            |
| North Dakota.....       | 16                | 149        | 230    | 2                                  | 4          | 2     | 20    | 224          | -             | -         | -            |
| South Dakota.....       | 3                 | 185        | 64     | -                                  | 5          | -     | 1     | 155          | -             | -         | -            |
| Nebraska.....           | 2                 | 23         | 876    | -                                  | 11         | 2     | 5     | 60           | -             | -         | -            |
| Kansas.....             | 46                | 816        | 40     | -                                  | 23         | 1     | 64    | 215          | -             | -         | -            |
| SOUTH ATLANTIC.....     | 367               | 4,232      | 4,124  | 13                                 | 180        | 255   | 478   | 4,581        | -             | -         | 1            |
| Delaware.....           | 8                 | 22         | 191    | -                                  | 1          | 3     | 10    | 85           | -             | -         | -            |
| Maryland.....           | 6                 | 65         | 867    | 2                                  | 27         | 24    | 16    | 367          | -             | -         | -            |
| Dist. of Columbia....   | -                 | 4          | 308    | -                                  | 7          | 1     | 4     | 64           | -             | -         | -            |
| Virginia.....           | 3                 | 830        | 1,079  | -                                  | 16         | 22    | 31    | 528          | -             | -         | -            |
| West Virginia,*.....    | 16                | 267        | 128    | -                                  | 2          | 5     | 55    | 1,191        | -             | -         | -            |
| North Carolina.....     | 108               | 1,398      | 417    | 2                                  | 27         | 52    | NN    | NN           | -             | -         | -            |
| South Carolina.....     | 62                | 616        | 331    | -                                  | 16         | 25    | 23    | 607          | -             | -         | -            |
| Georgia.....            | 3                 | 165        | 4      | -                                  | 11         | 27    | -     | 1            | -             | -         | 1            |
| Florida.....            | 161               | 865        | 799    | 9                                  | 73         | 96    | 339   | 1,738        | -             | -         | -            |
| EAST SOUTH CENTRAL..... | 413               | 5,415      | 387    | 13                                 | 107        | 91    | 373   | 5,156        | -             | -         | -            |
| Kentucky.....           | 130               | 2,669      | 210    | 5                                  | 34         | 34    | 113   | 1,858        | -             | -         | -            |
| Tennessee.....          | 36                | 453        | 126    | 4                                  | 36         | 35    | 195   | 2,612        | -             | -         | -            |
| Alabama.....            | 231               | 969        | 24     | 2                                  | 22         | 17    | 60    | 597          | -             | -         | -            |
| Mississippi.....        | 16                | 1,324      | 27     | 2                                  | 15         | 5     | 5     | 89           | -             | -         | -            |
| WEST SOUTH CENTRAL..... | 650               | 8,911      | 5,249  | 8                                  | 102        | 170   | 349   | 4,861        | -             | -         | 1            |
| Arkansas.....           | 26                | 275        | 20     | 1                                  | 4          | 15    | 5     | 42           | -             | -         | -            |
| Louisiana,*.....        | 91                | 1,286      | 51     | 2                                  | 34         | 44    | 5     | 104          | -             | -         | -            |
| Oklahoma.....           | 16                | 641        | 184    | -                                  | 6          | 10    | 5     | 131          | -             | -         | -            |
| Texas.....              | 517               | 6,709      | 4,994  | 5                                  | 58         | 101   | 334   | 4,584        | -             | -         | 1            |
| MOUNTAIN.....           | 183               | 1,931      | 942    | 1                                  | 30         | 17    | 278   | 2,635        | 1             | -         | -            |
| Montana.....            | 58                | 719        | 14     | -                                  | 2          | -     | 37    | 309          | 1             | -         | -            |
| Idaho.....              | 4                 | 157        | 14     | -                                  | 2          | 3     | 2     | 105          | -             | -         | -            |
| Wyoming.....            | 21                | 64         | 8      | 1                                  | 1          | 1     | 71    | 170          | -             | -         | -            |
| Colorado.....           | 65                | 538        | 90     | -                                  | 5          | 5     | 87    | 850          | -             | -         | -            |
| New Mexico.....         | 4                 | 207        | 119    | -                                  | 2          | -     | 25    | 406          | -             | -         | -            |
| Arizona.....            | 29                | 169        | 676    | -                                  | 8          | 6     | 56    | 711          | -             | -         | -            |
| Utah.....               | 2                 | 74         | 14     | -                                  | 9          | 2     | -     | 84           | -             | -         | -            |
| Nevada.....             | -                 | 3          | 7      | -                                  | 1          | -     | -     | -            | -             | -         | -            |
| PACIFIC.....            | 153               | 1,999      | 1,052  | 14                                 | 322        | 188   | 381   | 7,965        | -             | -         | 2            |
| Washington.....         | 28                | 540        | 109    | 1                                  | 14         | 22    | 149   | 3,710        | -             | -         | 1            |
| Oregon.....             | 27                | 193        | 126    | -                                  | 18         | 17    | 40    | 796          | -             | -         | 1            |
| California.....         | 87                | 1,199      | 763    | 12                                 | 286        | 148   | 165   | 2,958        | -             | -         | -            |
| Alaska.....             | -                 | 8          | 5      | -                                  | -          | -     | -     | 58           | -             | -         | -            |
| Hawaii.....             | 11                | 59         | 49     | 1                                  | 4          | 1     | 27    | 443          | -             | -         | -            |
| Puerto Rico.....        | 36                | 156        | 674    | -                                  | -          | 2     | 57    | 536          | -             | -         | -            |
| Virgin Islands.....     | -                 | 5          | 5      | -                                  | -          | 1     | 1     | 4            | -             | -         | -            |

\*Delayed reports: Measles: Me. 39, Pa. 39, W. Va. delete 5, La. delete 1  
Mumps: Me. 23

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED

MAY 1, 1971 AND MAY 2, 1970 (17th WEEK) - CONTINUED

| AREA                   | RUBELLA |              | TETANUS |              | TULAREMIA |              | TYPHOID FEVER |              | TYPHUS FEVER<br>TICK-BORNE<br>(Rky. Mc. Spotted) |              | RABIES IN ANIMALS |              |
|------------------------|---------|--------------|---------|--------------|-----------|--------------|---------------|--------------|--|--------------|-------------------|--------------|
|                        | 1971    | Cum.<br>1971 | 1971    | Cum.<br>1971 | 1971      | Cum.<br>1971 | 1971          | Cum.<br>1971 | 1971   | Cum.<br>1971 | 1971              | Cum.<br>1971 |
| UNITED STATES.....     | 1,860   | 22,849       | 2       | 24           | -         | 28           | 5             | 78           | 3  | 11           | 98                | 1,530        |
| NEW ENGLAND.....       | 73      | 874          | -       | -            | -         | -            | -             | 4            | -  | -            | 5                 | 117          |
| Maine.....*            | 5       | 163          | -       | -            | -         | -            | -             | -            | -  | -            | 5                 | 110          |
| New Hampshire.....     | 6       | 21           | -       | -            | -         | -            | -             | -            | -  | -            | -                 | 1            |
| Vermont.....           | 1       | 46           | -       | -            | -         | -            | -             | -            | -  | -            | -                 | 6            |
| Massachusetts.....     | 32      | 411          | -       | -            | -         | -            | -             | 4            | -  | -            | -                 | -            |
| Rhode Island.....      | 2       | 51           | -       | -            | -         | -            | -             | -            | -  | -            | -                 | -            |
| Connecticut.....       | 27      | 182          | -       | -            | -         | -            | -             | -            | -  | -            | -                 | -            |
| MIDDLE ATLANTIC.....   | 106     | 1,477        | -       | 4            | -         | -            | 1             | 9            | -  | 1            | 1                 | 70           |
| New York City.....     | 34      | 257          | -       | 4            | -         | -            | -             | 3            | -  | -            | -                 | -            |
| New York, Up-State..   | 17      | 281          | -       | -            | -         | -            | 1             | 5            | -  | -            | 1                 | 68           |
| New Jersey.....        | 27      | 322          | -       | -            | -         | -            | -             | -            | -  | -            | -                 | -            |
| Pennsylvania.....      | 28      | 617          | -       | -            | -         | -            | -             | 1            | -  | 1            | -                 | 2            |
| EAST NORTH CENTRAL.... | 291     | 4,538        | 2       | 4            | -         | 1            | 2             | 6            | 1  | 1            | 8                 | 120          |
| Ohio.....              | 38      | 530          | -       | 1            | -         | 1            | 1             | 4            | -  | -            | -                 | 31           |
| Indiana.....           | 52      | 878          | -       | 1            | -         | -            | -             | -            | -  | -            | 3                 | 21           |
| Illinois.....          | 51      | 869          | 2       | 2            | -         | -            | -             | -            | 1  | 1            | 2                 | 23           |
| Michigan.....          | 100     | 1,460        | -       | -            | -         | -            | 1             | 2            | -  | -            | 1                 | 25           |
| Wisconsin.....         | 50      | 801          | -       | -            | -         | -            | -             | -            | -  | -            | 2                 | 20           |
| WEST NORTH CENTRAL.... | 46      | 1,893        | -       | 1            | -         | 4            | -             | -            | -  | -            | 26                | 364          |
| Minnesota.....         | 10      | 205          | -       | 1            | -         | -            | -             | -            | -  | -            | 5                 | 74           |
| Iowa.....              | 16      | 420          | -       | -            | -         | -            | -             | -            | -  | -            | 7                 | 98           |
| Missouri.....          | 5       | 922          | -       | -            | -         | 4            | -             | -            | -  | -            | 5                 | 66           |
| North Dakota.....      | 7       | 69           | -       | -            | -         | -            | -             | -            | -  | -            | 5                 | 65           |
| South Dakota.....      | 1       | 30           | -       | -            | -         | -            | -             | -            | -  | -            | 2                 | 26           |
| Nebraska.....          | 3       | 40           | -       | -            | -         | -            | -             | -            | -  | -            | -                 | -            |
| Kansas.....            | 4       | 207          | -       | -            | -         | -            | -             | -            | -  | -            | 2                 | 35           |
| SOUTH ATLANTIC.....    | 349     | 1,789        | -       | 8            | -         | 12           | -             | 19           | 1  | 4            | 14                | 169          |
| Delaware.....          | 9       | 36           | -       | -            | -         | -            | -             | 1            | -  | -            | -                 | -            |
| Maryland.....          | 6       | 78           | -       | 1            | -         | 3            | -             | 3            | -  | -            | -                 | -            |
| Dist. of Columbia..    | -       | 3            | -       | -            | -         | -            | -             | -            | -  | -            | -                 | -            |
| Virginia.....          | 4       | 112          | -       | -            | -         | 5            | -             | 1            | -  | -            | 4                 | 47           |
| West Virginia.*.....   | 49      | 296          | -       | -            | -         | -            | -             | 2            | -  | -            | 7                 | 70           |
| North Carolina.....    | 2       | 16           | -       | -            | -         | 4            | -             | 3            | 1  | 2            | -                 | -            |
| South Carolina.....    | 18      | 353          | -       | -            | -         | -            | -             | -            | -  | 2            | -                 | -            |
| Georgia.....           | -       | -            | -       | 2            | -         | -            | -             | 2            | -  | -            | 3                 | 34           |
| Florida.....           | 261     | 895          | -       | 5            | -         | -            | -             | 7            | -  | -            | -                 | 18           |
| EAST SOUTH CENTRAL.... | 109     | 1,945        | -       | 5            | -         | 6            | -             | 6            | -  | 2            | 17                | 179          |
| Kentucky.....          | 14      | 827          | -       | -            | -         | 2            | -             | 2            | -  | -            | 6                 | 98           |
| Tennessee.....         | 77      | 956          | -       | 2            | -         | 2            | -             | 2            | -  | 1            | 10                | 53           |
| Alabama.....           | 13      | 104          | -       | 2            | -         | 2            | -             | 2            | -  | -            | 1                 | 28           |
| Mississippi.....       | 5       | 58           | -       | 1            | -         | -            | -             | -            | -  | 1            | -                 | -            |
| WEST SOUTH CENTRAL.... | 245     | 3,409        | -       | -            | -         | 3            | 1             | 6            | -  | 2            | 17                | 360          |
| Arkansas.....          | 2       | 289          | -       | -            | -         | 1            | -             | -            | -  | -            | 2                 | 33           |
| Louisiana.....         | 33      | 252          | -       | -            | -         | 1            | 1             | 4            | -  | -            | 1                 | 15           |
| Oklahoma.†.....        | 4       | 43           | -       | -            | -         | 1            | -             | -            | -  | 2            | 8                 | 187          |
| Texas.....             | 206     | 2,825        | -       | -            | -         | -            | -             | 2            | -  | -            | 6                 | 125          |
| MOUNTAIN.....          | 303     | 1,473        | -       | -            | -         | 2            | -             | 2            | 1  | 1            | 5                 | 11           |
| Montana.....           | 4       | 100          | -       | -            | -         | 1            | -             | -            | -  | -            | -                 | -            |
| Idaho.....             | -       | 29           | -       | -            | -         | -            | -             | -            | -  | -            | -                 | -            |
| Wyoming.....           | 270     | 823          | -       | -            | -         | -            | -             | -            | -  | -            | 4                 | 5            |
| Colorado.....          | 7       | 159          | -       | -            | -         | -            | -             | -            | 1  | 1            | -                 | -            |
| New Mexico.....        | 12      | 163          | -       | -            | -         | -            | -             | -            | -  | -            | 1                 | 3            |
| Arizona.....           | 10      | 159          | -       | -            | -         | -            | -             | 2            | -  | -            | -                 | 3            |
| Utah.....              | -       | 27           | -       | -            | -         | 1            | -             | -            | -  | -            | -                 | -            |
| Nevada.....            | -       | 13           | -       | -            | -         | -            | -             | -            | -  | -            | -                 | -            |
| PACIFIC.....           | 338     | 5,451        | -       | 2            | -         | -            | 1             | 26           | -  | -            | 5                 | 140          |
| Washington.....        | 38      | 855          | -       | -            | -         | -            | -             | -            | -  | -            | -                 | -            |
| Oregon.....            | 32      | 421          | -       | -            | -         | -            | -             | -            | -  | -            | -                 | -            |
| California.....        | 263     | 4,058        | -       | 2            | -         | -            | 1             | 26           | -  | -            | 5                 | 112          |
| Alaska.....            | 2       | 33           | -       | -            | -         | -            | -             | -            | -  | -            | -                 | 28           |
| Hawaii.....            | 3       | 84           | -       | -            | -         | -            | -             | -            | -  | -            | -                 | -            |
| Puerto Rico.....       | 4       | 8            | -       | 2            | -         | -            | -             | 1            | -  | -            | 1                 | 25           |
| Virgin Islands.....    | -       | -            | -       | -            | -         | -            | -             | -            | -  | -            | -                 | -            |

\* Delayed reports: Rubella: Me. 17, W.Va. 5  
Tularemia: Okla. 1

# Morbidity and Mortality Weekly Report

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Week No. 17 TABLE IV. DEATHS IN 122 UNITED STATES CITIES FOR WEEK ENDED MAY 1, 1971

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

| Area                       | All Causes |                   | Pneumonia and Influenza All Ages | Under 1 year All Causes | Area   | All Causes     |                   | Pneumonia and Influenza All Ages | Under 1 year All Causes |
|----------------------------|------------|-------------------|----------------------------------|-------------------------|--|----------------|-------------------|----------------------------------|-------------------------|
|                            | All Ages   | 65 years and over |                                  |                         |  | All Ages       | 65 years and over |                                  |                         |
| <b>NEW ENGLAND:</b>        | 733        | 466               | 43                               | 24                      | <b>SOUTH ATLANTIC:</b>   | 1,184          | 632               | 54                               | 51                      |
| Boston, Mass.-----         | 240        | 131               | 19                               | 10                      | Atlanta, Ga.-----  | 140            | 67                | 5                                | 7                       |
| Bridgeport, Conn.-----     | 34         | 20                | 3                                | —                       | Baltimore, Md.-----  | 212            | 110               | 3                                | 15                      |
| Cambridge, Mass.-----      | 27         | 20                | 5                                | —                       | Charlotte, N. C.-----  | 58             | 32                | —                                | 2                       |
| Fall River, Mass.-----     | 30         | 18                | 1                                | 1                       | Jacksonville, Fla.-----  | 70             | 36                | 6                                | 6                       |
| Hartford, Conn.-----       | 53         | 33                | —                                | 4                       | Miami, Fla.-----   | 115            | 56                | 3                                | 4                       |
| Lowell, Mass.-----         | 27         | 19                | 1                                | 1                       | Norfolk, Va.-----  | 60             | 28                | 8                                | 1                       |
| Lynn, Mass.-----           | 22         | 17                | —                                | —                       | Richmond, Va.-----   | 80             | 38                | 5                                | 1                       |
| New Bedford, Mass.-----    | 22         | 19                | 1                                | —                       | Savannah, Ga.-----   | 34             | 10                | 1                                | 4                       |
| New Haven, Conn.-----      | 49         | 31                | 1                                | 3                       | St. Petersburg, Fla.-----  | 92             | 79                | 5                                | —                       |
| Providence, R. I.-----     | 61         | 38                | 3                                | 2                       | Tampa, Fla.-----   | 74             | 42                | 7                                | 3                       |
| Somerville, Mass.-----     | 19         | 14                | 1                                | —                       | Washington, D. C.-----   | 199            | 98                | 8                                | 6                       |
| Springfield, Mass.-----    | 57         | 37                | 4                                | 1                       | Wilmington, Del.-----  | 50             | 36                | 3                                | 2                       |
| Waterbury, Conn.-----      | 34         | 22                | 1                                | 2                       | <b>EAST SOUTH CENTRAL:</b>   | 656            | 346               | 29                               | 30                      |
| Worcester, Mass.-----      | 58         | 47                | 3                                | —                       | Birmingham, Ala.-----  | 73             | 33                | 2                                | 9                       |
| <b>MIDDLE ATLANTIC:</b>    | 3,243      | 1,918             | 162                              | 110                     | Chattanooga, Tenn.-----  | 57             | 31                | 6                                | 4                       |
| Albany, N. Y.-----         | 55         | 26                | 3                                | 2                       | Knoxville, Tenn.-----  | 41             | 18                | 1                                | 1                       |
| Allentown, Pa.-----        | 56         | 35                | 6                                | 1                       | Louisville, Ky.-----   | 112            | 61                | 9                                | 3                       |
| Buffalo, N. Y.-----        | 142        | 79                | 1                                | 6                       | Memphis, Tenn.-----  | 173            | 105               | 7                                | 7                       |
| Camden, N. J.-----         | 53         | 30                | 4                                | 6                       | Mobile, Ala.-----  | 64             | 32                | 1                                | 2                       |
| Elizabeth, N. J.-----      | 38         | 21                | 2                                | 1                       | Montgomery, Ala.-----  | 35             | 18                | 2                                | 1                       |
| Erie, Pa.-----             | 48         | 26                | 4                                | 1                       | Nashville, Tenn.-----  | 101            | 48                | 1                                | 3                       |
| Jersey City, N. J.-----    | 88         | 60                | 6                                | 6                       | <b>WEST SOUTH CENTRAL:</b>   | 1,293          | 658               | 41                               | 71                      |
| Newark, N. J.-----         | 73         | 28                | 4                                | 5                       | Austin, Tex.-----  | 36             | 18                | 2                                | —                       |
| New York City, N. Y.†      | 1,589      | 942               | 72                               | 51                      | Baton Rouge, La.-----  | 43             | 19                | 1                                | 2                       |
| Paterson, N. J.-----       | 42         | 24                | 2                                | 1                       | Corpus Christi, Tex.-----  | 24             | 12                | —                                | —                       |
| Philadelphia, Pa.-----     | 394        | 237               | 8                                | 8                       | Dallas, Tex.-----  | 205            | 96                | —                                | 9                       |
| Pittsburgh, Pa.-----       | 186        | 106               | 15                               | 7                       | El Paso, Tex.-----   | 51             | 29                | 1                                | 5                       |
| Reading, Pa.-----          | 63         | 43                | —                                | 1                       | Fort Worth, Tex.-----  | 83             | 45                | 13                               | 5                       |
| Rochester, N. Y.-----      | 130        | 82                | 13                               | 8                       | Houston, Tex.-----   | 278            | 123               | 4                                | 21                      |
| Schenectady, N. Y.-----    | 31         | 19                | 7                                | 1                       | Little Rock, Ark.-----   | 65             | 36                | 2                                | 3                       |
| Scranton, Pa.-----         | 47         | 31                | 1                                | 1                       | New Orleans, La.-----  | 170            | 87                | 6                                | 7                       |
| Syracuse, N. Y.-----       | 88         | 49                | 4                                | 3                       | Oklahoma City, Okla.-----  | 84             | 56                | 3                                | 2                       |
| Trenton, N. J.-----        | 47         | 26                | 4                                | 1                       | San Antonio, Tex.-----   | 138            | 71                | 1                                | 12                      |
| Utica, N. Y.-----          | 33         | 25                | 2                                | —                       | Shreveport, La.-----   | 63             | 33                | 4                                | 3                       |
| Yonkers, N. Y.-----        | 40         | 29                | 4                                | —                       | Tulsa, Okla.-----  | 53             | 33                | 4                                | 2                       |
| <b>EAST NORTH CENTRAL:</b> | 2,690      | 1,574             | 77                               | 119                     | <b>MOUNTAIN:</b>   | 464            | 278               | 27                               | 23                      |
| Akron, Ohio-----           | 71         | 46                | —                                | 4                       | Albuquerque, N. Mex.-----  | 47             | 24                | 10                               | 2                       |
| Canton, Ohio-----          | 42         | 27                | —                                | 1                       | Colorado Springs, Colo.-----   | 33             | 19                | 2                                | 2                       |
| Chicago, Ill.-----         | 754        | 432               | 15                               | 34                      | Denver, Colo.-----   | 127            | 78                | 5                                | 10                      |
| Cincinnati, Ohio-----      | 134        | 77                | 3                                | 3                       | Ogden, Utah-----   | 13             | 9                 | 4                                | —                       |
| Cleveland, Ohio-----       | 219        | 111               | 4                                | 7                       | Phoenix, Ariz.-----  | 109            | 63                | 1                                | 3                       |
| Columbus, Ohio-----        | 184        | 104               | —                                | 12                      | Pueblo, Colo.-----   | 19             | 14                | 4                                | 1                       |
| Dayton, Ohio-----          | 110        | 64                | 3                                | 6                       | Salt Lake City, Utah-----  | 50             | 32                | 1                                | 3                       |
| Detroit, Mich.-----        | 350        | 199               | 7                                | 17                      | Tucson, Ariz.-----   | 66             | 39                | —                                | 2                       |
| Evansville, Ind.-----      | 38         | 23                | 4                                | —                       | <b>PACIFIC:</b>  | 1,669          | 983               | 34                               | 49                      |
| Flint, Mich.-----          | 40         | 26                | 2                                | —                       | Berkeley, Calif.-----  | 21             | 16                | —                                | —                       |
| Fort Wayne, Ind.-----      | 45         | 27                | 3                                | 2                       | Fresno, Calif.-----  | 39             | 24                | 2                                | 3                       |
| Gary, Ind.-----            | 46         | 17                | 4                                | 2                       | Glendale, Calif.-----  | 33             | 25                | —                                | —                       |
| Grand Rapids, Mich.-----   | 42         | 31                | 4                                | 2                       | Honolulu, Hawaii-----  | 53             | 22                | 3                                | 1                       |
| Indianapolis, Ind.-----    | 165        | 86                | 6                                | 9                       | Long Beach, Calif.-----  | 103            | 62                | —                                | 1                       |
| Madison, Wis.-----         | 33         | 16                | 7                                | 3                       | Los Angeles, Calif.-----   | 485            | 284               | 11                               | 16                      |
| Milwaukee, Wis.-----       | 118        | 88                | 2                                | 4                       | Oakland, Calif.-----   | 68             | 46                | 4                                | 4                       |
| Peoria, Ill.-----          | 46         | 28                | 1                                | 4                       | Pasadena, Calif.-----  | 42             | 29                | 1                                | 1                       |
| Rockford, Ill.-----        | 40         | 26                | 4                                | 2                       | Portland, Oreg.-----   | 128            | 79                | 4                                | 3                       |
| South Bend, Ind.-----      | 45         | 33                | 3                                | 1                       | Sacramento, Calif.-----  | 76             | 37                | —                                | —                       |
| Toledo, Ohio-----          | 113        | 79                | 5                                | 5                       | San Diego, Calif.-----   | 126            | 70                | 2                                | 4                       |
| Youngstown, Ohio-----      | 55         | 34                | —                                | 1                       | San Francisco, Calif.-----   | 170            | 92                | 4                                | 3                       |
| <b>WEST NORTH CENTRAL:</b> | 846        | 523               | 17                               | 38                      | San Jose, Calif.-----  | 58             | 35                | —                                | 1                       |
| Des Moines, Iowa-----      | 47         | 30                | —                                | 1                       | Seattle, Wash.-----  | 161            | 94                | 2                                | 10                      |
| Duluth, Minn.-----         | 22         | 18                | 2                                | 3                       | Spokane, Wash.-----  | 61             | 41                | 1                                | 2                       |
| Kansas City, Kans.-----    | 33         | 18                | 2                                | 2                       | Tacoma, Wash.-----   | 45             | 27                | —                                | —                       |
| Kansas City, Mo.-----      | 131        | 80                | —                                | 7                       | <b>Total</b>   | <b>12,778</b>  | <b>7,378</b>      | <b>484</b>                       | <b>515</b>              |
| Lincoln, Nebr.-----        | 42         | 30                | —                                | —                       | <b>Expected Number</b>   | <b>12,903</b>  | <b>7,484</b>      | <b>466</b>                       | <b>512</b>              |
| Minneapolis, Minn.-----    | 113        | 74                | 4                                | 5                       | <b>Cumulative Total</b><br>(includes reported corrections<br>for previous weeks)   | <b>231,905</b> | <b>135,263</b>    | <b>9,751</b>                     | <b>10,186</b>           |
| Omaha, Nebr.-----          | 83         | 50                | —                                | 1                       | <b>Las Vegas, Nev.*</b>  | <b>19</b>      | <b>6</b>          | <b>—</b>                         | <b>1</b>                |
| St. Louis, Mo.-----        | 234        | 135               | 6                                | 12                      | *Mortality data are being collected from Las Vegas, Nev., for possible inclusion in this table, however, for statistical reasons, these data will be listed only and not included in the total, expected number, or cumulative total, until 5 years of data are collected. |                |                   |                                  |                         |
| St. Paul, Minn.-----       | 85         | 54                | 1                                | 3                       |  |                |                   |                                  |                         |
| Wichita, Kans.-----        | 56         | 34                | 2                                | 4                       |  |                |                   |                                  |                         |

\*Delayed Report for week ended April 24, 1971

INTERNATIONAL NOTES  
HEMORRHAGIC FEVER – Bolivia

Between January and March 1971, seven cases of hemorrhagic fever were reported from Cochabamba, Bolivia. The illness was characterized by gradual onset of fever, chills, myalgia, malaise, and weakness, followed by anorexia, nausea and vomiting, and hemorrhagic diatheses. Five of these seven patients died. An interesting feature in two of the cases was clinical jaundice and significant hepatomegaly, with SGOT elevation in one.

All of the patients had been exposed to a 20-year-old nursing student who had onset of clinical symptoms in the second week of January and died on January 28. Subsequent unconfirmed reports have raised the number of known cases to 20. Convalescent sera obtained from one patient reacted to a titer of 1:64 in an indirect immunofluorescent test against

Machupo and Junin antigen (Tacaribe Group arboviruses). A 7-week convalescent serum from one patient had neutralizing antibodies for Machupo virus of 1:32.

(Reported by R. Mercado, M.D., L. Valverde, M.D., Ministry of Public Health, Canal Zone; Patricia Ann Webb, M.D., C.J. Peters, M.D., Karl M. Johnson, M.D., Middle American Research Unit, National Institutes of Health – Walter Reed Army Institute of Research, Canal Zone.)

Editorial Note

The occurrence of overt liver disease in two cases is an unusual feature of Bolivian hemorrhagic fever, as is the elevation of SGOT in one. The pattern of contact spread of disease has not been noticed previously with Bolivian hemorrhagic fever.

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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 outbreaks or case investigations of current interest to health officials.

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