



**EPIDEMIOLOGIC NOTES AND REPORTS**  
**HAND, FOOT, AND MOUTH DISEASE - Michigan**

Between July 14 and Oct. 27, 1971, 207 cases of hand, foot, and mouth disease were reported to the Michigan Department of Public Health from Marquette County (Figure 1). The illness was characterized by small vesicles with an erythematous base occurring on the hands and feet, accompanied by shallow ulcers on the tongue, gums, palate, or buccal mucosa. Various patients also experienced lesions on the face, lips, ears, trunk, buttocks, vulvar labia, glans penis, foreskin, arms, and legs. In some patients, the lesions were only erythematous papules. Stomatitis occurred in a few persons without cutaneous manifestations. Most patients had a low-grade fever; however, several children experienced a temperature of 103°F. Two children required hospitalization due to poor oral intake secondary to the painful stomatitis.

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Sporadic cases were first reported in July and August; the epidemic peaked in late September-early October. The incubation period was 3-5 days. The illness usually lasted 7-10 days. Young children were the most frequently affected; there was no sex predilection. The outbreak appears to have been most intensive in Marquette County, although sporadic cases were reported from several other counties (Figure 2). The illness was quite contagious, as evidenced by the frequent occurrence of secondary cases within households.

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

| DISEASE                                     | 44th WEEK ENDED     |                     | MEDIAN<br>1966 - 1970 | CUMULATIVE, FIRST 44 WEEKS |        |                       |
|---------------------------------------------|---------------------|---------------------|-----------------------|----------------------------|--------|-----------------------|
|                                             | November 6,<br>1971 | November 7,<br>1970 |                       | 1971                       | 1970   | MEDIAN<br>1966 - 1970 |
| Aseptic meningitis                          | 77                  | 177                 | 107                   | 4,490                      | 5,280  | 2,973                 |
| Brucellosis                                 | 2                   | 11                  | 3                     | 137                        | 183    | 200                   |
| Diphtheria                                  | 3                   | 5                   | 4                     | 153                        | 383    | 169                   |
| Encephalitis, primary:                      |                     |                     |                       |                            |        |                       |
| Arthropod-borne & unspecified               | 37                  | 41                  | 41                    | 1,304                      | 1,350  | 1,350                 |
| Encephalitis, post-infectious               | 3                   | 6                   | 8                     | 300                        | 345    | 419                   |
| Hepatitis, serum                            | 185                 | 174                 | 109                   | 7,350                      | 6,165  | 3,874                 |
| Hepatitis, infectious                       | 1,169               | 1,186               | 1,025                 | 51,316                     | 47,714 | 38,382                |
| Malaria                                     | 33                  | 91                  | 88                    | 2,612                      | 2,903  | 2,011                 |
| Measles (rubeola)                           | 337                 | 377                 | 253                   | 71,569                     | 41,668 | 41,668                |
| Meningococcal infections, total             | 31                  | 54                  | 30                    | 1,955                      | 2,093  | 2,218                 |
| Civilian                                    | 31                  | 53                  | 29                    | 1,747                      | 1,879  | 2,030                 |
| Military                                    | —                   | 1                   | 1                     | 208                        | 214    | 207                   |
| Mumps                                       | 1,629               | 1,935               | —                     | 106,613                    | 84,175 | —                     |
| Poliomyelitis, total                        | —                   | 1                   | 1                     | 11                         | 24     | 32                    |
| Paralytic                                   | —                   | 1                   | 1                     | 8                          | 24     | 28                    |
| Rubella (German measles)                    | 220                 | 433                 | 317                   | 40,860                     | 51,855 | 45,769                |
| Tetanus                                     | 4                   | 5                   | 4                     | 94                         | 109    | 147                   |
| Tularemia                                   | 5                   | 5                   | 4                     | 166                        | 133    | 150                   |
| Typhoid fever                               | 8                   | 8                   | 8                     | 343                        | 293    | 335                   |
| Typhus, tick-borne (Rky. Mt. spotted fever) | 5                   | 2                   | 3                     | 392                        | 328    | 293                   |
| Rabies in animals                           | 58                  | 44                  | 55                    | 3,428                      | 2,603  | 2,937                 |

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

|                   | Cum. |                                       | Cum. |
|-------------------|------|---------------------------------------|------|
| Anthrax:          | 4    | Psittacosis: Okla.—1                  | 34   |
| Botulism:         | 15   | Rabies in Man:                        | 1    |
| Leprosy: Hawaii—2 | 101  | Rubella congenital syndrome: Calif.—1 | 47   |
| Leptospirosis:    | 27   | Trichinosis: N.J.—1                   | 82   |
| Plague:           | 1    | Typhus, murine: Tex.—3                | 21   |

## HAND, FOOT, AND MOUTH DISEASE — (Continued from front page)

Coxsackie A-16 was isolated from a stool specimen from one patient. Cultures of specimens from other patients as well as serologic studies are underway.

(Reported by James Tobin, M.D., private physician, Richard Potter, M.D., County Health Officer, Marquette County, Michigan; Norman S. Hayner, M.D., Disease Control Officer, Maurice Reizen, M.D., State Health Director, Maurice Becker, Ph.D., Chief, Virology Laboratory, State of Michigan Department of Public Health; and an EIS Officer.)

## Editorial Note

Hand, foot, and mouth disease was first recognized in New Zealand in the late 1950's. Since then, well-documented outbreaks have occurred in England, Canada, California, and elsewhere (1,2,3). The most recently reported outbreak was in Baltimore, Maryland, 2 years ago (4). The illness is quite contagious and usually occurs in late summer. Coxsackie A-16 is most frequently isolated, but Coxsackie A-4, A-5, A-9, and A-10 have also been implicated. Virus may be recovered from the stool and less frequently from the pharynx. Vesicular fluid may yield virus.

## References

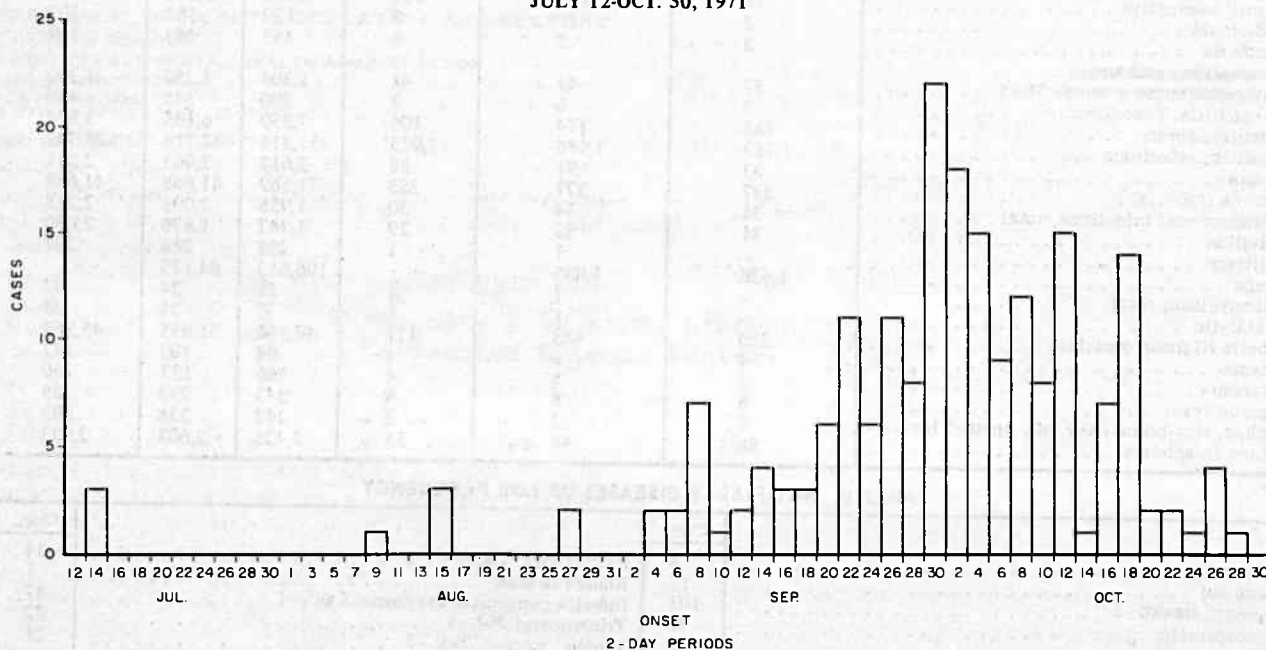
1. Alsop J, Flewett TH, Foster JR: "Hand-foot-and-mouth disease" in Birmingham in 1959. *Br Med J* 2:1708-1711, 1960
2. Magoffin RL, Jackson EW, Lennette EH: Vesicular stomatitis and exanthem: a syndrome associated with Coxsackie virus, Type A-16. *JAMA* 175:441-445, 1961
3. Robinson CR, Doane FW, Rhodes AJ: Report of an outbreak of febrile illness with pharyngeal lesions and exanthem: Toronto, summer 1967-isolation of group A Coxsackie virus. *Can Med Assoc J* 79:615-621, 1958

Figure 2  
HAND, FOOT, AND MOUTH DISEASE, BY COUNTY  
MICHIGAN — JULY-OCTOBER 1971



4. Adler JL, Mostow SR, Mellin H, Janney JH, Joseph JM: Epidemiologic investigation of hand, foot, and mouth disease. *Amer J Dis Child* 120:309-313, 1970

Figure 1  
CASES OF HAND, FOOT, AND MOUTH DISEASE,  
BY DATE OF ONSET, MARQUETTE COUNTY, MICHIGAN  
JULY 12-OCT. 30, 1971



## DIPHTHERIA — California

On Sept. 18, 1971, an 11-year-old boy from Los Angeles County, California, became ill with fever and sore throat. He saw his family physician on September 20 and was given penicillin. His condition did not improve, however, and he was hospitalized that evening. The following day, the patient had a respiratory arrest. During endotracheal intubation, a pharyngeal membrane was noted, and diphtheria was diagnosed. The child was transferred to another hospital where he died on October 4 of renal and cardiac complications. A throat specimen obtained after admission was negative for *Corynebacterium diphtheriae*.

On September 23, a 9-year-old boy and 14-year-old girl in the patient's household were hospitalized with fever and sore throat. Cultures of specimens from both yielded toxigenic *C. diphtheriae*, intermedius type. Both are in satisfactory condition.

The patients' household consists of two adult women and 13 children. The mother of the first patient stated that he had received two injections of diphtheria toxoid when he was about 1½ years old, but none since then. She said the 9-year-old boy had also received two such injections at 7 months of age, although she did not remember if he had received a booster. The vaccination history of the 14-year-old girl is unknown. Six other children, five from the patient's home and one out of six from a neighboring home,

were found to be carriers and were hospitalized to prevent spread of infection to other household members. All of the carriers had positive cultures for toxigenic *C. diphtheriae*, intermedius type. Both homes were quarantined.

The Compton Health District of the Los Angeles County Health Department conducted a community immunization campaign and distributed over 25,000 doses of diphtheria toxoid in 1 week. No further cases have been reported.

(Reported by Allen W. Mathies, M.D., Chief of Communicable Disease Unit, Los Angeles County-University of Southern California Medical Center; H. W. Anderson, M.D., Deputy District Health Officer, Compton Health District, Frederick Herman, M.D., Senior Public Health Physician, North Enterprise Health Subcenter, Louis Mahoney, M.D., Director, Immunization Project, Ichiro Kamei, M.D., Chief, Acute Communicable Diseases, G. A. Heidbreder, M.D., Health Officer, Los Angeles County Health Department; two Public Health Advisors; and an EIS Officer.)

## Editorial Note

Diphtheria outbreaks continue to occur in many parts of the United States, particularly in low-income urban areas. The percentage of children receiving three or more doses of diphtheria toxoid has been found to be lower in central-city poverty areas than in the country as a whole (MMWR, Vol. 20, No. 13).

## LEPTOSPIROSIS — Texas

Between July 4 and Aug. 15, 1971, seven children in Baytown, Harris County, Texas, experienced leptospirosis. The first case was in a 1½-year-old-boy who became ill on July 4. The subsequent cases occurred between August 12 and 15 in two girls and four boys between 7 and 15 years of age (Figure 3). Their symptoms included fever, headache, myalgia, vomiting, anorexia, and some hepatic and renal involvement (Table 1). All cases had serologic evidence of *Leptospira canicola* infection. Four children were hospitalized; possible relapses occurred in two. All patients recovered without residual effects.

The children live in a trailer camp which is adjacent to a former chicken hatchery and a cattle pasture. In early August, Harris County experienced heavy rains which caused some flooding in the trailer camp. Children and dogs played in the resulting pools of water throughout this period. No significant rainfall occurred prior to the first case in July. Sera from eight dogs in the immediate vicinity were obtained for leptospiral serology tests. Four had titers of 1:1,600 or greater to *L. canicola*, and an asymptomatic pet dog belonging to

Table 1  
Symptoms of Patients with Leptospirosis  
Baytown Texas, July-August 1971

| Symptom         | Number | Percent |
|-----------------|--------|---------|
| Fever           | 7      | 100     |
| Headache        | 6      | 86      |
| Myalgia         | 5      | 71      |
| Vomiting        | 5      | 71      |
| Anorexia        | 5      | 71      |
| Nuchal rigidity | 4      | 57      |
| Hepatic pain    | 5      | 71      |

the children had a rising titer to *L. canicola* from 1:6,400 to 1:25,600 in paired sera drawn 2 weeks apart. The children's infection was believed to have been acquired from this dog.

Urine from three of the ill children and from three dogs was collected for culture and fluorescent antibody (FA) determination. *Leptospira*-like organisms were seen in the urine from one child and from the three dogs by FA microscopy. *Leptospira* have been isolated from two dogs; results from the remaining cultures are pending.

(Reported by M. S. Dickerson, M.D., Chief, Communicable Disease Services, A. B. Rich, D.V.M., Director, Veterinary Public Health, Jesse Irons, Ph.D., Director of Public Health Laboratories, Texas State Department of Health; L. D. Faragut, M.D., Director, Harris County Department of Health, Texas; L. Burke, R.N., Robert Ward, D.V.M., private veterinarian, Harris County, Texas; W. O. Finch, M.D., Health Officer, H. Dismukes, D.V.M., private veterinarian, J. Scott, M.D., J. J. Burianek, M.D., private physicians, Otis Meunick, Howard Brister, sanitarians, Baytown, Texas; the Bacterial Zoonoses Section, Bacterial Diseases Branch, Epidemiology Program, CDC; and an EIS Officer.)

Figure 3

LEPTOSPIROSIS CASES, BY DATE OF ONSET  
BAYTOWN, TEXAS, JULY-AUGUST 1971

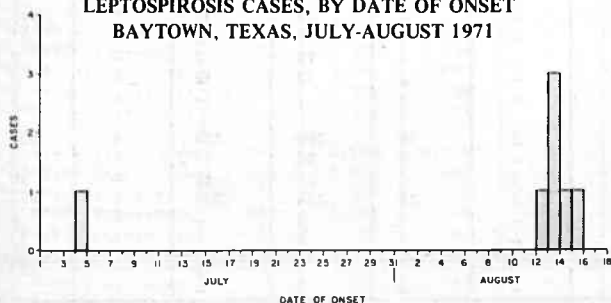


TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED

NOVEMBER 6, 1971 AND NOVEMBER 7, 1970 (44th 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       | 1970  |         |              |
| UNITED STATES.....      | 77                         | 2                | 3               | 37                               | 41   | 3                    | 185       | 1,169      | 1,186 | 33      | 2,612        |
| NEW ENGLAND.....        | 1                          | -                | -               | -                                | 2    | -                    | 9         | 79         | 118   | 3       | 76           |
| Maine.*.....            | -                          | -                | -               | -                                | -    | -                    | -         | 4          | 35    | -       | 4            |
| New Hampshire.*.....    | -                          | -                | -               | -                                | -    | -                    | -         | 5          | -     | -       | -            |
| Vermont.....            | -                          | -                | -               | -                                | -    | -                    | -         | 11         | 11    | -       | 1            |
| Massachusetts.....      | 1                          | -                | -               | -                                | 1    | -                    | 4         | 31         | 30    | 2       | 53           |
| Rhode Island.....       | -                          | -                | -               | -                                | 1    | -                    | -         | 7          | 17    | -       | 8            |
| Connecticut.....        | -                          | -                | -               | -                                | -    | -                    | 5         | 21         | 25    | 1       | 10           |
| MIDDLE ATLANTIC.....    | 10                         | -                | -               | 4                                | 5    | -                    | 65        | 150        | 209   | 6       | 258          |
| New York City.*.....    | -                          | -                | -               | -                                | -    | -                    | 26        | 39         | 43    | -       | 24           |
| New York, Up-State...   | 2                          | -                | -               | 1                                | -    | -                    | 12        | 29         | 34    | 2       | 72           |
| New Jersey.....         | 6                          | -                | -               | -                                | -    | -                    | 25        | 63         | 59    | 2       | 106          |
| Pennsylvania.....       | 2                          | -                | -               | 3                                | 5    | -                    | 2         | 19         | 73    | 2       | 56           |
| EAST NORTH CENTRAL..... | 5                          | 1                | -               | 12                               | 6    | -                    | 37        | 207        | 150   | 2       | 161          |
| Ohio.....               | -                          | -                | -               | 7                                | 2    | -                    | 9         | 40         | 27    | 1       | 22           |
| Indiana.....            | -                          | -                | -               | 1                                | 1    | -                    | 2         | 19         | 8     | -       | 14           |
| Illinois.....           | -                          | -                | -               | -                                | -    | -                    | 1         | 62         | 36    | 1       | 48           |
| Michigan.....           | 5                          | 1                | -               | 3                                | 2    | -                    | 25        | 76         | 69    | -       | 52           |
| Wisconsin.....          | -                          | -                | -               | 1                                | 1    | -                    | -         | 10         | 10    | -       | 25           |
| WEST NORTH CENTRAL..... | 8                          | 1                | 1               | 5                                | 7    | -                    | 4         | 37         | 25    | 3       | 240          |
| Minnesota.*.....        | 8                          | -                | -               | 3                                | 1    | -                    | -         | 3          | 1     | -       | 36           |
| Iowa.....               | -                          | 1                | -               | 1                                | -    | -                    | -         | 8          | 3     | -       | 26           |
| Missouri.....           | -                          | -                | -               | -                                | -    | -                    | 1         | 3          | 13    | -       | 27           |
| North Dakota.....       | -                          | -                | -               | -                                | -    | -                    | -         | 7          | -     | -       | 3            |
| South Dakota.....       | -                          | -                | 1               | 1                                | -    | -                    | -         | 10         | 1     | -       | 2            |
| Nebraska.....           | -                          | -                | -               | -                                | -    | -                    | -         | 1          | 1     | -       | 14           |
| Kansas.....             | -                          | -                | -               | -                                | 6    | -                    | 3         | 5          | 6     | 3       | 132          |
| SOUTH ATLANTIC.....     | 17                         | -                | -               | 1                                | 5    | -                    | 17        | 187        | 102   | 4       | 393          |
| Delaware.....           | -                          | -                | -               | -                                | 1    | -                    | 1         | 3          | 2     | 1       | 2            |
| Maryland.....           | 2                          | -                | -               | -                                | -    | -                    | 5         | 31         | 10    | -       | 52           |
| Dist. of Columbia....   | -                          | -                | -               | -                                | -    | -                    | -         | -          | 6     | -       | 4            |
| Virginia.....           | -                          | -                | -               | -                                | 2    | -                    | 2         | 28         | 24    | 1       | 65           |
| West Virginia.....      | -                          | -                | -               | -                                | -    | -                    | -         | 8          | 2     | -       | 7            |
| North Carolina.....     | 1                          | -                | -               | 1                                | -    | -                    | -         | 53         | 16    | 1       | 135          |
| South Carolina.....     | -                          | -                | -               | -                                | -    | -                    | 4         | 3          | 4     | -       | 20           |
| Georgia.....            | 8                          | -                | -               | -                                | -    | -                    | -         | 11         | 5     | -       | 67           |
| Florida.....            | 6                          | -                | -               | -                                | 2    | -                    | 5         | 50         | 33    | 1       | 41           |
| EAST SOUTH CENTRAL..... | 5                          | -                | -               | -                                | 1    | -                    | 5         | 67         | 74    | -       | 289          |
| Kentucky.....           | 1                          | -                | -               | -                                | -    | -                    | -         | 25         | 30    | -       | 259          |
| Tennessee.....          | 2                          | -                | -               | -                                | 1    | -                    | 3         | 33         | 31    | -       | -            |
| Alabama.....            | 2                          | -                | -               | -                                | -    | -                    | -         | 9          | 10    | -       | 21           |
| Mississippi.....        | -                          | -                | -               | -                                | -    | -                    | 2         | -          | 3     | -       | 9            |
| WEST SOUTH CENTRAL..... | 10                         | -                | 2               | 8                                | -    | -                    | 7         | 99         | 97    | 4       | 512          |
| Arkansas.....           | 1                          | -                | -               | -                                | -    | -                    | 1         | 8          | 1     | -       | 19           |
| Louisiana.....          | 4                          | -                | 2               | -                                | -    | -                    | 1         | 9          | 21    | -       | 38           |
| Oklahoma.....           | 1                          | -                | -               | 2                                | -    | -                    | -         | 13         | 14    | 1       | 71           |
| Texas.....              | 4                          | -                | -               | 6                                | -    | -                    | 5         | 69         | 61    | 3       | 384          |
| MOUNTAIN.....           | -                          | -                | -               | -                                | -    | -                    | 3         | 63         | 83    | 5       | 149          |
| Montana.....            | -                          | -                | -               | -                                | -    | -                    | -         | 5          | 20    | -       | 1            |
| Idaho.....              | -                          | -                | -               | -                                | -    | -                    | -         | 5          | -     | -       | 5            |
| Wyoming.....            | -                          | -                | -               | -                                | -    | -                    | 1         | 1          | 2     | -       | 3            |
| Colorado.....           | -                          | -                | -               | -                                | -    | -                    | -         | 19         | 37    | 5       | 115          |
| New Mexico.....         | -                          | -                | -               | -                                | -    | -                    | -         | 1          | 5     | -       | 11           |
| Arizona.....            | -                          | -                | -               | -                                | -    | -                    | -         | 19         | 7     | -       | 9            |
| Utah.....               | -                          | -                | -               | -                                | -    | -                    | 2         | 12         | 12    | -       | 3            |
| Nevada.....             | -                          | -                | -               | -                                | -    | -                    | -         | 1          | -     | -       | 2            |
| PACIFIC.....            | 21                         | -                | -               | 7                                | 15   | 3                    | 38        | 280        | 328   | 6       | 534          |
| Washington.*.....       | 3                          | -                | -               | 1                                | 1    | -                    | 9         | 22         | 65    | -       | 2            |
| Oregon.....             | -                          | -                | -               | -                                | -    | 1                    | -         | 28         | 12    | -       | 20           |
| California.....         | 15                         | -                | -               | 6                                | 14   | 2                    | 29        | 224        | 251   | 6       | 453          |
| Alaska.*.....           | -                          | -                | -               | -                                | -    | -                    | -         | 2          | -     | -       | 6            |
| Hawaii.....             | 3                          | -                | -               | -                                | -    | -                    | -         | 4          | -     | -       | 53           |
| Puerto Rico.....        | -                          | -                | -               | -                                | -    | -                    | -         | -          | 17    | -       | 23           |
| Virgin Islands.....     | -                          | -                | -               | -                                | -    | -                    | -         | 1          | -     | -       | -            |

\*Delayed reports: Aseptic meningitis: Wash. 3

Encephalitis, primary: Wash. 1

Hepatitis serum: Me. 2, N.H. 1, N.Y.C. 29

Hepatitis, infectious: Me. 1, N.H. delete 1, N.Y.C. 31, Wash. 28, Alaska delete 1

Malaria: Minn. 13. Alaska delete 1

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED

NOVEMBER 6, 1971 AND NOVEMBER 7, 1970 (44th WEEK) - CONTINUED

| AREA                    | MEASLES (Rubeola) |            |        | MENINGOCOCCAL INFECTIONS,<br>TOTAL |            |       | MUMPS |              | POLIOMYELITIS |                           |      |
|-------------------------|-------------------|------------|--------|------------------------------------|------------|-------|-------|--------------|---------------|---------------------------|------|
|                         | 1971              | Cumulative |        | 1971                               | Cumulative |       | 1971  | Cum.<br>1971 | Total<br>1971 | Paralytic<br>Cum.<br>1971 |      |
|                         |                   | 1971       | 1970   |                                    | 1971       | 1970  |       |              |               | 1971                      | 1971 |
| UNITED STATES.....      | 337               | 71,569     | 41,668 | 31                                 | 1,955      | 2,093 | 1,629 | 106,613      | -             | -                         | 8    |
| NEW ENGLAND.....        | 3                 | 3,471      | 933    | 6                                  | 95         | 92    | 96    | 6,428        | -             | -                         | -    |
| Maine.....              | -                 | 1,466      | 239    | -                                  | 8          | 4     | 5     | 1,224        | -             | -                         | -    |
| New Hampshire.....      | -                 | 211        | 60     | 4                                  | 22         | 9     | 6     | 666          | -             | -                         | -    |
| Vermont.....            | -                 | 118        | 8      | -                                  | -          | 8     | 16    | 407          | -             | -                         | -    |
| Massachusetts.....      | 3                 | 252        | 407    | 1                                  | 34         | 38    | 20    | 1,571        | -             | -                         | -    |
| Rhode Island.....       | -                 | 238        | 120    | -                                  | 3          | 6     | 11    | 1,224        | -             | -                         | -    |
| Connecticut.....        | -                 | 1,186      | 99     | 1                                  | 28         | 27    | 38    | 1,336        | -             | -                         | -    |
| MIDDLE ATLANTIC.....    | 29                | 7,616      | 5,009  | 4                                  | 265        | 380   | 21    | 6,449        | -             | -                         | -    |
| New York City.....      | 1                 | 3,787      | 953    | -                                  | 55         | 84    | 12    | 1,873        | -             | -                         | -    |
| New York, Up-State..... | 4                 | 688        | 325    | 1                                  | 80         | 73    | NN    | NN           | -             | -                         | -    |
| New Jersey.....         | 20                | 1,217      | 1,713  | 1                                  | 59         | 153   | 2     | 1,703        | -             | -                         | -    |
| Pennsylvania.....       | 4                 | 1,924      | 2,018  | 2                                  | 71         | 70    | 7     | 2,873        | -             | -                         | -    |
| EAST NORTH CENTRAL..... | 110               | 15,855     | 10,021 | 4                                  | 226        | 241   | 489   | 42,542       | -             | -                         | -    |
| Ohio.....               | 15                | 4,031      | 3,844  | 1                                  | 73         | 89    | 41    | 7,980        | -             | -                         | -    |
| Indiana.....            | 7                 | 2,761      | 273    | -                                  | 18         | 21    | 2     | 5,215        | -             | -                         | -    |
| Illinois.....           | 34                | 3,065      | 3,116  | 3                                  | 63         | 60    | 126   | 4,568        | -             | -                         | -    |
| Michigan.....           | 16                | 2,443      | 1,796  | -                                  | 57         | 61    | 109   | 9,858        | -             | -                         | -    |
| Wisconsin.....          | 38                | 3,555      | 992    | -                                  | 15         | 10    | 211   | 14,921       | -             | -                         | -    |
| WEST NORTH CENTRAL..... | 75                | 7,011      | 3,894  | 2                                  | 140        | 109   | 352   | 7,801        | -             | -                         | -    |
| Minnesota.....          | -                 | 55         | 40     | 2                                  | 26         | 18    | 14    | 1,206        | -             | -                         | -    |
| Iowa.....               | 73                | 2,434      | 1,158  | -                                  | 12         | 13    | 327   | 3,971        | -             | -                         | -    |
| Missouri.....           | -                 | 2,604      | 1,276  | -                                  | 47         | 58    | -     | 1,039        | -             | -                         | -    |
| North Dakota.....       | -                 | 238        | 320    | -                                  | 6          | 5     | 3     | 354          | -             | -                         | -    |
| South Dakota.....       | 1                 | 219        | 96     | -                                  | 6          | 1     | -     | 250          | -             | -                         | -    |
| Nebraska.....           | 1                 | 67         | 936    | -                                  | 15         | 7     | 8     | 150          | -             | -                         | -    |
| Kansas.....             | -                 | 1,394      | 68     | -                                  | 28         | 7     | -     | 831          | -             | -                         | -    |
| SOUTH ATLANTIC.....     | 11                | 8,649      | 7,336  | 3                                  | 343        | 407   | 89    | 7,679        | -             | -                         | 1    |
| Delaware.....           | -                 | 42         | 265    | -                                  | 2          | 3     | -     | 175          | -             | -                         | -    |
| Maryland.....           | 1                 | 552        | 1,377  | 1                                  | 50         | 41    | 6     | 709          | -             | -                         | -    |
| Dist. of Columbia.....  | -                 | 15         | 344    | -                                  | 13         | 3     | -     | 93           | -             | -                         | -    |
| Virginia.....           | -                 | 1,602      | 2,034  | -                                  | 40         | 42    | 8     | 1,002        | -             | -                         | -    |
| West Virginia.....      | 3                 | 536        | 322    | -                                  | 11         | 12    | 58    | 2,112        | -             | -                         | -    |
| North Carolina.....     | 2                 | 1,940      | 886    | 2                                  | 59         | 87    | NN    | NN           | -             | -                         | -    |
| South Carolina.....     | 1                 | 917        | 606    | -                                  | 20         | 45    | 5     | 885          | -             | -                         | -    |
| Georgia.....            | -                 | 1,128      | 17     | -                                  | 24         | 35    | -     | 11           | -             | -                         | 1    |
| Florida.....            | 4                 | 1,917      | 1,485  | -                                  | 124        | 139   | 12    | 2,692        | -             | -                         | -    |
| EAST SOUTH CENTRAL..... | 40                | 8,396      | 1,484  | 2                                  | 178        | 156   | 93    | 8,100        | -             | -                         | -    |
| Kentucky.....           | 1                 | 3,962      | 847    | -                                  | 53         | 58    | 19    | 2,414        | -             | -                         | -    |
| Tennessee.....          | 2                 | 1,025      | 400    | 2                                  | 69         | 63    | 57    | 4,599        | -             | -                         | -    |
| Alabama.....            | 37                | 1,938      | 146    | -                                  | 30         | 24    | 16    | 937          | -             | -                         | -    |
| Mississippi.....        | -                 | 1,471      | 91     | -                                  | 26         | 11    | 1     | 150          | -             | -                         | -    |
| WEST SOUTH CENTRAL..... | 27                | 12,616     | 8,308  | 4                                  | 169        | 271   | 129   | 8,721        | -             | -                         | 3    |
| Arkansas.....           | -                 | 778        | 30     | -                                  | 5          | 22    | 11    | 104          | -             | -                         | -    |
| Louisiana.....          | 1                 | 1,700      | 156    | -                                  | 62         | 65    | 1     | 143          | -             | -                         | -    |
| Oklahoma.....           | 1                 | 757        | 653    | 1                                  | 8          | 21    | -     | 183          | -             | -                         | -    |
| Texas.....              | 25                | 9,381      | 7,469  | 3                                  | 94         | 163   | 117   | 8,291        | -             | -                         | 3    |
| MOUNTAIN.....           | 8                 | 3,302      | 1,669  | 2                                  | 59         | 48    | 49    | 4,325        | -             | -                         | 2    |
| Montana.....            | -                 | 925        | 100    | 1                                  | 7          | 1     | 2     | 409          | -             | -                         | -    |
| Idaho.....              | -                 | 272        | 86     | -                                  | 11         | 7     | 1     | 145          | -             | -                         | -    |
| Wyoming.....            | -                 | 85         | 11     | -                                  | 2          | 2     | 4     | 308          | -             | -                         | -    |
| Colorado.....           | -                 | 836        | 187    | -                                  | 7          | 17    | 11    | 1,437        | -             | -                         | 1    |
| New Mexico.....         | 2                 | 398        | 248    | -                                  | 4          | 1     | 16    | 682          | -             | -                         | -    |
| Arizona.....            | 6                 | 447        | 980    | -                                  | 8          | 16    | 15    | 1,177        | -             | -                         | -    |
| Utah.....               | -                 | 332        | 36     | 1                                  | 17         | 3     | -     | 167          | -             | -                         | -    |
| Nevada.....             | -                 | 7          | 21     | -                                  | 3          | 1     | -     | -            | -             | -                         | 1    |
| PACIFIC.....            | 34                | 4,653      | 3,014  | 4                                  | 480        | 389   | 311   | 14,568       | -             | -                         | 2    |
| Washington.....         | -                 | 1,062      | 602    | 1                                  | 29         | 44    | 173   | 5,877        | -             | -                         | 1    |
| Oregon.....             | 1                 | 376        | 376    | -                                  | 39         | 29    | 32    | 1,440        | -             | -                         | 1    |
| California.....         | 22                | 2,701      | 1,706  | 2                                  | 402        | 313   | 99    | 6,251        | -             | -                         | -    |
| Alaska.....             | 1                 | 56         | 141    | -                                  | 1          | -     | -     | 94           | -             | -                         | -    |
| Hawaii.....             | 10                | 458        | 189    | 1                                  | 9          | 3     | 7     | 906          | -             | -                         | -    |
| Puerto Rico.....        | -                 | 553        | 963    | -                                  | 10         | 5     | -     | 1,113        | -             | -                         | -    |
| Virgin Islands.....     | -                 | 17         | 6      | -                                  | -          | 3     | 2     | 69           | -             | -                         | -    |

\*Delayed reports: Measles: Mass. delete 14, N.Y.C. 6, Miss. 58, Wash. 3

Meningococcal infections: Wash. 1

Mumps: Me. 1, N.Y.C. 15, Wash. 112, Alaska 3

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES  
FOR WEEKS ENDED  
NOVEMBER 6, 1971 AND NOVEMBER 7, 1970 (44th WEEK) - CONTINUED

| AREA                   | RUBELLA |              | TETANUS |              | TULAREMIA |              | TYPHOID FEVER |              | TYPHUS FEVER<br>TICK-BORNE<br>(Rky. Mt. Spotted) |              | RABIES IN<br>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.....     | 220     | 40,860       | 4       | 94           | 5         | 166          | 8             | 343          | 5                                                | 392          | 58                   | 3,428        |
| NEW ENGLAND.....       | 8       | 1,781        | -       | 6            | -         | 1            | -             | 16           | -                                                | 5            | 4                    | 200          |
| Maine.....             | 1       | 270          | -       | -            | -         | -            | -             | 1            | -                                                | -            | 4                    | 176          |
| New Hampshire.....     | -       | 46           | -       | 2            | -         | -            | -             | -            | -                                                | -            | -                    | 3            |
| Vermont.....           | 2       | 102          | -       | -            | -         | -            | -             | -            | -                                                | -            | -                    | 12           |
| Massachusetts.....     | -       | 838          | -       | 1            | -         | -            | -             | 11           | -                                                | 3            | -                    | 8            |
| Rhode Island.....      | 1       | 101          | -       | -            | -         | -            | -             | -            | -                                                | 2            | -                    | 1            |
| Connecticut.....       | 4       | 424          | -       | 3            | -         | 1            | -             | 4            | -                                                | -            | -                    | -            |
| MIDDLE ATLANTIC.....   | 11      | 2,612        | -       | 8            | -         | -            | -             | 72           | -                                                | 37           | 1                    | 145          |
| New York City.....     | 3       | 576          | -       | 5            | -         | -            | -             | 18           | -                                                | 1            | -                    | -            |
| New York, Up-State..   | 1       | 430          | -       | 1            | -         | -            | -             | 14           | -                                                | 17           | 1                    | 125          |
| New Jersey.....        | 2       | 589          | -       | 1            | -         | -            | -             | 8            | -                                                | 9            | -                    | -            |
| Pennsylvania.....      | 5       | 1,017        | -       | 1            | -         | -            | -             | 32           | -                                                | 10           | -                    | 20           |
| EAST NORTH CENTRAL.... | 65      | 8,842        | 2       | 13           | -         | 5            | -             | 51           | -                                                | 19           | 4                    | 356          |
| Ohio.....              | 7       | 1,003        | 1       | 2            | -         | 1            | -             | 20           | -                                                | 14           | -                    | 105          |
| Indiana.....           | 11      | 2,111        | -       | 2            | -         | -            | -             | 6            | -                                                | -            | 1                    | 75           |
| Illinois.....          | 11      | 1,317        | -       | 6            | -         | 1            | -             | 13           | -                                                | 3            | 1                    | 68           |
| Michigan.....          | 20      | 2,769        | 1       | 3            | -         | 1            | -             | 7            | -                                                | 2            | 1                    | 45           |
| Wisconsin.....         | 16      | 1,642        | -       | -            | -         | 2            | -             | 5            | -                                                | -            | 1                    | 63           |
| WEST NORTH CENTRAL.... | 10      | 3,265        | -       | 6            | 1         | 19           | -             | 4            | -                                                | 8            | 19                   | 958          |
| Minnesota.....         | -       | 278          | -       | 3            | -         | -            | -             | -            | -                                                | -            | 7                    | 217          |
| Iowa.....              | 10      | 710          | -       | 1            | -         | -            | -             | -            | -                                                | 2            | 3                    | 212          |
| Missouri.....          | -       | 1,369        | -       | 2            | 1         | 15           | -             | 4            | -                                                | 4            | 3                    | 136          |
| North Dakota.....      | -       | 96           | -       | -            | -         | -            | -             | -            | -                                                | -            | 5                    | 165          |
| South Dakota.....      | -       | 98           | -       | -            | -         | 1            | -             | -            | -                                                | -            | -                    | 120          |
| Nebraska.....          | -       | 93           | -       | -            | -         | -            | -             | -            | -                                                | -            | -                    | 6            |
| Kansas.....            | -       | 621          | -       | -            | -         | 3            | -             | -            | -                                                | 2            | 1                    | 102          |
| SOUTH ATLANTIC.....    | 10      | 3,221        | -       | 21           | -         | 23           | 1             | 48           | 2                                                | 204          | 6                    | 378          |
| Delaware.....          | -       | 50           | -       | -            | -         | -            | -             | 1            | -                                                | 2            | -                    | -            |
| Maryland.....          | -       | 159          | -       | 1            | -         | 4            | -             | 4            | -                                                | 31           | -                    | 1            |
| Dist. of Columbia...   | -       | 8            | -       | 1            | -         | -            | -             | 2            | -                                                | -            | -                    | -            |
| Virginia.....          | 1       | 218          | -       | 3            | -         | 9            | -             | 15           | -                                                | 34           | -                    | 70           |
| West Virginia.....     | 6       | 689          | -       | -            | -         | -            | -             | 4            | -                                                | 4            | 1                    | 117          |
| North Carolina.....    | 1       | 47           | -       | 1            | -         | 4            | -             | 4            | -                                                | 106          | -                    | 7            |
| South Carolina.....    | -       | 439          | -       | 1            | -         | -            | 1             | 2            | -                                                | 14           | -                    | -            |
| Georgia.....           | -       | 1            | -       | 2            | -         | 4            | -             | 2            | 2                                                | 13           | 5                    | 132          |
| Florida.....           | 2       | 1,610        | -       | 12           | -         | 2            | -             | 14           | -                                                | -            | -                    | 51           |
| EAST SOUTH CENTRAL.... | 12      | 3,915        | -       | 13           | -         | 12           | 3             | 43           | -                                                | 63           | 6                    | 313          |
| Kentucky.....          | -       | 1,719        | -       | 2            | -         | 2            | 1             | 10           | -                                                | 13           | 2                    | 158          |
| Tennessee.....         | 9       | 1,914        | -       | 6            | -         | 7            | 2             | 24           | -                                                | 34           | 2                    | 99           |
| Alabama.....           | 3       | 209          | -       | 4            | -         | 2            | -             | 8            | -                                                | 9            | 2                    | 52           |
| Mississippi.....       | -       | 73           | -       | 1            | -         | 1            | -             | 1            | -                                                | 7            | -                    | 4            |
| WEST SOUTH CENTRAL.... | 38      | 4,889        | 2       | 16           | 4         | 62           | 2             | 35           | 3                                                | 44           | 16                   | 683          |
| Arkansas.....          | -       | 337          | -       | 1            | 2         | 25           | 1             | 11           | -                                                | 5            | 3                    | 90           |
| Louisiana.....         | 1       | 287          | -       | 3            | -         | 8            | -             | 6            | -                                                | 1            | 3                    | 35           |
| Oklahoma.....          | 1       | 74           | 1       | 2            | -         | 17           | -             | 3            | -                                                | 27           | 1                    | 267          |
| Texas.....             | 36      | 4,191        | 1       | 10           | 2         | 12           | 1             | 15           | 3                                                | 11           | 9                    | 291          |
| MOUNTAIN.....          | 4       | 1,993        | -       | 2            | -         | 39           | -             | 9            | -                                                | 12           | -                    | 68           |
| Montana.....           | -       | 116          | -       | -            | -         | 1            | -             | -            | -                                                | 3            | -                    | -            |
| Idaho.....             | -       | 40           | -       | 1            | -         | 1            | -             | -            | -                                                | 4            | -                    | -            |
| Wyoming.....           | -       | 860          | -       | -            | -         | -            | -             | -            | -                                                | -            | -                    | 11           |
| Colorado.....          | 3       | 300          | -       | -            | -         | -            | -             | 2            | -                                                | 2            | -                    | 11           |
| New Mexico.....        | -       | 234          | -       | -            | -         | -            | -             | 5            | -                                                | 1            | -                    | 9            |
| Arizona.....           | -       | 361          | -       | 1            | -         | -            | -             | 2            | -                                                | -            | -                    | 23           |
| Utah.....              | 1       | 67           | -       | -            | -         | 37           | -             | -            | -                                                | 1            | -                    | 10           |
| Nevada.....            | -       | 15           | -       | -            | -         | -            | -             | -            | -                                                | 1            | -                    | 4            |
| PACIFIC.....           | 62      | 10,342       | -       | 9            | -         | 5            | 2             | 65           | -                                                | -            | 2                    | 327          |
| Washington*.....       | 12      | 1,423        | -       | 1            | -         | -            | -             | -            | -                                                | -            | -                    | -            |
| Oregon.....            | 6       | 772          | -       | 1            | -         | 3            | -             | -            | -                                                | -            | -                    | 9            |
| California.....        | 41      | 7,928        | -       | 7            | -         | 2            | 2             | 60           | -                                                | -            | 2                    | 284          |
| Alaska.....            | -       | 50           | -       | -            | -         | -            | -             | 1            | -                                                | -            | -                    | 34           |
| Hawaii.....            | 3       | 169          | -       | -            | -         | -            | -             | 4            | -                                                | -            | -                    | -            |
| Puerto Rico.....       | -       | 62           | -       | 7            | -         | -            | -             | 3            | -                                                | -            | -                    | 69           |
| Virgin Islands.....    | -       | 1            | -       | -            | -         | -            | -             | -            | -                                                | -            | -                    | -            |

\*Delayed reports: Rubella: N.Y.C. 4, Wash. 16

Week No.

44

TABLE IV. DEATHS IN 122 UNITED STATES CITIES FOR WEEK ENDED NOVEMBER 6, 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>        | 728        | 438               | 52                               | 37                      | <b>SOUTH ATLANTIC:</b>                                                                                                                                                                                                                                                     | 1,234          | 666               | 43                               | 48                      |
| Boston, Mass.-----         | 242        | 121               | 19                               | 14                      | Atlanta, Ga.-----                                                                                                                                                                                                                                                          | 141            | 69                | 6                                | 6                       |
| Bridgeport, Conn.-----     | 39         | 24                | 7                                | 4                       | Baltimore, Md.-----                                                                                                                                                                                                                                                        | 226            | 120               | 3                                | 8                       |
| Cambridge, Mass.-----      | 30         | 24                | 4                                | —                       | Charlotte, N. C.-----                                                                                                                                                                                                                                                      | 45             | 18                | —                                | 8                       |
| Fall River, Mass.-----     | 37         | 21                | 1                                | 2                       | Jacksonville, Fla.-----                                                                                                                                                                                                                                                    | 85             | 44                | 1                                | 3                       |
| Hartford, Conn.-----       | 54         | 32                | 2                                | 2                       | Miami, Fla.-----                                                                                                                                                                                                                                                           | 103            | 46                | 1                                | 7                       |
| Lowell, Mass.-----         | 25         | 16                | 4                                | 1                       | Norfolk, Va.-----                                                                                                                                                                                                                                                          | 59             | 34                | 4                                | 2                       |
| Lynn, Mass.-----           | 26         | 18                | 2                                | 1                       | Richmond, Va.-----                                                                                                                                                                                                                                                         | 102            | 56                | 4                                | 1                       |
| New Bedford, Mass.-----    | 18         | 11                | 1                                | —                       | Savannah, Ga.-----                                                                                                                                                                                                                                                         | 35             | 20                | 1                                | 1                       |
| New Haven, Conn.-----      | 52         | 29                | —                                | 6                       | St. Petersburg, Fla.-----                                                                                                                                                                                                                                                  | 88             | 75                | 4                                | 2                       |
| Providence, R. I.-----     | 49         | 30                | 5                                | 1                       | Tampa, Fla.-----                                                                                                                                                                                                                                                           | 64             | 34                | 8                                | 3                       |
| Somerville, Mass.-----     | 18         | 12                | 1                                | —                       | Washington, D. C.-----                                                                                                                                                                                                                                                     | 242            | 130               | 7                                | 5                       |
| Springfield, Mass.-----    | 53         | 35                | 4                                | 4                       | Wilmington, Del.-----                                                                                                                                                                                                                                                      | 44             | 20                | 4                                | 2                       |
| Waterbury, Conn.-----      | 31         | 28                | —                                | —                       |                                                                                                                                                                                                                                                                            |                |                   |                                  |                         |
| Worcester, Mass.-----      | 54         | 37                | 2                                | 2                       | <b>EAST SOUTH CENTRAL:</b>                                                                                                                                                                                                                                                 | 650            | 373               | 19                               | 37                      |
| <b>MIDDLE ATLANTIC:</b>    | 3,002      | 1,823             | 82                               | 71                      | Birmingham, Ala.-----                                                                                                                                                                                                                                                      | 118            | 64                | 3                                | 9                       |
| Albany, N. Y.-----         | 57         | 29                | 1                                | 1                       | Chattanooga, Tenn.-----                                                                                                                                                                                                                                                    | 46             | 25                | —                                | 3                       |
| Allentown, Pa.-----        | 38         | 25                | 1                                | —                       | Knoxville, Tenn.-----                                                                                                                                                                                                                                                      | 37             | 29                | 3                                | —                       |
| Buffalo, N. Y.-----        | 149        | 92                | —                                | 2                       | Louisville, Ky.-----                                                                                                                                                                                                                                                       | 137            | 80                | 7                                | 7                       |
| Camden, N. J.-----         | 44         | 26                | 1                                | 2                       | Memphis, Tenn.-----                                                                                                                                                                                                                                                        | 138            | 88                | 2                                | 3                       |
| Elizabeth, N. J.-----      | 32         | 21                | 1                                | 1                       | Mobile, Ala.-----                                                                                                                                                                                                                                                          | 46             | 21                | 1                                | 6                       |
| Erie, Pa.-----             | 41         | 28                | 5                                | 2                       | Montgomery, Ala.-----                                                                                                                                                                                                                                                      | 30             | 17                | 1                                | 1                       |
| Jersey City, N. J.-----    | 68         | 47                | —                                | 2                       | Nashville, Tenn.-----                                                                                                                                                                                                                                                      | 98             | 49                | 2                                | 8                       |
| Newark, N. J.-----         | 54         | 24                | 1                                | 3                       |                                                                                                                                                                                                                                                                            |                |                   |                                  |                         |
| New York City, N. Y.-----  | 1,519      | 928               | 41                               | 33                      | <b>WEST SOUTH CENTRAL:</b>                                                                                                                                                                                                                                                 | 1,194          | 612               | 38                               | 78                      |
| Paterson, N. J.-----       | 36         | 25                | 1                                | 1                       | Austin, Tex.-----                                                                                                                                                                                                                                                          | 49             | 31                | 2                                | 4                       |
| Philadelphia, Pa.-----     | 496        | 288               | 4                                | 15                      | Baton Rouge, La.-----                                                                                                                                                                                                                                                      | 36             | 16                | 3                                | 5                       |
| Pittsburgh, Pa.-----       | 107        | 68                | 7                                | 3                       | Corpus Christi, Tex.-----                                                                                                                                                                                                                                                  | 30             | 13                | —                                | 2                       |
| Reading, Pa.-----          | 55         | 33                | —                                | —                       | Dallas, Tex.-----                                                                                                                                                                                                                                                          | 169            | 76                | 4                                | 11                      |
| Rochester, N. Y.-----      | 116        | 70                | 5                                | 4                       | El Paso, Tex.-----                                                                                                                                                                                                                                                         | 54             | 32                | 4                                | 11                      |
| Schenectady, N. Y.-----    | 19         | 12                | 2                                | —                       | Fort Worth, Tex.-----                                                                                                                                                                                                                                                      | 83             | 36                | 3                                | 2                       |
| Scranton, Pa.-----         | 30         | 19                | 2                                | 1                       | Houston, Tex.-----                                                                                                                                                                                                                                                         | 221            | 95                | 4                                | 9                       |
| Syracuse, N. Y.-----       | 37         | 23                | —                                | 1                       | Little Rock, Ark.-----                                                                                                                                                                                                                                                     | 49             | 32                | 1                                | 2                       |
| Trenton, N. J.-----        | 36         | 23                | 1                                | —                       | New Orleans, La.-----                                                                                                                                                                                                                                                      | 160            | 80                | 4                                | 12                      |
| Utica, N. Y.-----          | 29         | 18                | 6                                | —                       | Oklahoma City, Okla.-----                                                                                                                                                                                                                                                  | 105            | 62                | 1                                | 5                       |
| Yonkers, N. Y.-----        | 39         | 24                | 3                                | —                       | San Antonio, Tex.-----                                                                                                                                                                                                                                                     | 129            | 72                | 3                                | 9                       |
|                            |            |                   |                                  |                         | Shreveport, La.-----                                                                                                                                                                                                                                                       | 51             | 35                | 1                                | 2                       |
| <b>EAST NORTH CENTRAL:</b> | 2,471      | 1,381             | 65                               | 116                     | Tulsa, Okla.-----                                                                                                                                                                                                                                                          | 58             | 32                | 8                                | 4                       |
| Akron, Ohio-----           | 56         | 32                | 1                                | 4                       |                                                                                                                                                                                                                                                                            |                |                   |                                  |                         |
| Canton, Ohio-----          | 26         | 13                | —                                | —                       | <b>MOUNTAIN:</b>                                                                                                                                                                                                                                                           | 473            | 244               | 15                               | 22                      |
| Chicago, Ill.-----         | 689        | 347               | 17                               | 45                      | Albuquerque, N. Mex.-----                                                                                                                                                                                                                                                  | 54             | 26                | 1                                | 2                       |
| Cincinnati, Ohio-----      | 124        | 79                | 6                                | —                       | Colorado Springs, Colo.-----                                                                                                                                                                                                                                               | 47             | 31                | 4                                | 3                       |
| Cleveland, Ohio-----       | 200        | 111               | 3                                | 9                       | Denver, Colo.-----                                                                                                                                                                                                                                                         | 106            | 59                | 2                                | 2                       |
| Columbus, Ohio-----        | 178        | 98                | —                                | 10                      | Ogden, Utah-----                                                                                                                                                                                                                                                           | 19             | 10                | 2                                | 1                       |
| Dayton, Ohio-----          | 98         | 57                | 1                                | 2                       | Phoenix, Ariz.-----                                                                                                                                                                                                                                                        | 87             | 35                | —                                | 6                       |
| Detroit, Mich.-----        | 342        | 198               | 5                                | 14                      | Pueblo, Colo.-----                                                                                                                                                                                                                                                         | 27             | 12                | 2                                | 3                       |
| Evansville, Ind.-----      | 27         | 17                | —                                | 1                       | Salt Lake City, Utah-----                                                                                                                                                                                                                                                  | 69             | 38                | 1                                | 3                       |
| Flint, Mich.-----          | 64         | 28                | 3                                | 4                       | Tucson, Ariz.-----                                                                                                                                                                                                                                                         | 64             | 33                | 3                                | 2                       |
| Fort Wayne, Ind.-----      | 41         | 29                | 5                                | 3                       |                                                                                                                                                                                                                                                                            |                |                   |                                  |                         |
| Gary, Ind.-----            | 43         | 19                | 2                                | 2                       | <b>PACIFIC:</b>                                                                                                                                                                                                                                                            | 1,810          | 1,095             | 28                               | 63                      |
| Grand Rapids, Mich.-----   | 50         | 25                | 2                                | 3                       | Berkeley, Calif.-----                                                                                                                                                                                                                                                      | 16             | 13                | —                                | —                       |
| Indianapolis, Ind.-----    | 116        | 59                | —                                | 6                       | Fresno, Calif.-----                                                                                                                                                                                                                                                        | 56             | 35                | 1                                | 5                       |
| Madison, Wis.-----         | 32         | 19                | 2                                | 1                       | Glendale, Calif.-----                                                                                                                                                                                                                                                      | 30             | 21                | —                                | —                       |
| Milwaukee, Wis.-----       | 121        | 80                | 4                                | 1                       | Honolulu, Hawaii-----                                                                                                                                                                                                                                                      | 51             | 24                | 1                                | 2                       |
| Peoria, Ill.-----          | 47         | 27                | 3                                | 5                       | Long Beach, Calif.-----                                                                                                                                                                                                                                                    | 100            | 62                | 2                                | 3                       |
| Rockford, Ill.-----        | 27         | 14                | 5                                | —                       | Los Angeles, Calif.-----                                                                                                                                                                                                                                                   | 663            | 405               | 11                               | 11                      |
| South Bend, Ind.-----      | 31         | 24                | 4                                | —                       | Oakland, Calif.-----                                                                                                                                                                                                                                                       | 73             | 42                | 3                                | 7                       |
| Toledo, Ohio-----          | 94         | 62                | 2                                | 2                       | Pasadena, Calif.-----                                                                                                                                                                                                                                                      | 30             | 21                | —                                | 1                       |
| Youngstown, Ohio-----      | 65         | 43                | —                                | 4                       | Portland, Oreg.-----                                                                                                                                                                                                                                                       | 153            | 92                | —                                | 8                       |
|                            |            |                   |                                  |                         | Sacramento, Calif.-----                                                                                                                                                                                                                                                    | 71             | 46                | —                                | 4                       |
| <b>WEST NORTH CENTRAL:</b> | 795        | 496               | 23                               | 28                      | San Diego, Calif.-----                                                                                                                                                                                                                                                     | 107            | 63                | 1                                | 7                       |
| Des Moines, Iowa-----      | 48         | 31                | 2                                | 4                       | San Francisco, Calif.-----                                                                                                                                                                                                                                                 | 177            | 99                | 5                                | 4                       |
| Duluth, Minn.-----         | 24         | 11                | 1                                | 3                       | San Jose, Calif.-----                                                                                                                                                                                                                                                      | 41             | 30                | 1                                | 1                       |
| Kansas City, Kans.-----    | 41         | 22                | 2                                | 5                       | Seattle, Wash.-----                                                                                                                                                                                                                                                        | 142            | 81                | 3                                | 4                       |
| Kansas City, Mo.-----      | 122        | 70                | 3                                | 2                       | Spokane, Wash.-----                                                                                                                                                                                                                                                        | 50             | 35                | —                                | 4                       |
| Lincoln, Nebr.-----        | 15         | 10                | 2                                | —                       | Tacoma, Wash.-----                                                                                                                                                                                                                                                         | 50             | 26                | —                                | 2                       |
| Minneapolis, Minn.-----    | 117        | 77                | 1                                | 2                       |                                                                                                                                                                                                                                                                            |                |                   |                                  |                         |
| Omaha, Nebr.-----          | 70         | 39                | —                                | 3                       | <b>Total</b>                                                                                                                                                                                                                                                               | <b>12,357</b>  | <b>7,128</b>      | <b>365</b>                       | <b>500</b>              |
| St. Louis, Mo.-----        | 223        | 140               | 5                                | 6                       | <b>Expected Number</b>                                                                                                                                                                                                                                                     | <b>12,578</b>  | <b>7,188</b>      | <b>443</b>                       | <b>575</b>              |
| St. Paul, Minn.-----       | 79         | 61                | 3                                | —                       | <b>Cumulative Total</b>                                                                                                                                                                                                                                                    | <b>559,811</b> | <b>321,068</b>    | <b>20,216</b>                    | <b>25,142</b>           |
| Wichita, Kans.-----        | 56         | 35                | 4                                | 3                       | (includes reported corrections for previous weeks)                                                                                                                                                                                                                         |                |                   |                                  |                         |
| <b>Las Vegas, Nev.*</b>    | <b>11</b>  | <b>3</b>          | <b>—</b>                         | <b>—</b>                | *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. |                |                   |                                  |                         |

†Estimate based on average percent of Divisional Total

# INTERNATIONAL NOTES QUARANTINE MEASURES

*Changes in the "Supplement - Vaccination Certificate  
Requirements for International Travel,"*

*MMWR. Vol. 19, No. 21*

The following changes should be made in the Vaccination Certificate Requirements for International Travel:

## Barbados

Delete the note concerning smallpox, and insert: Smallpox - Except Antigua, Bahamas, Bermuda, British Virgin Islands, Canada, Dominica, Grenada, Montserrat, St. Kitts-Nevis-Anguilla, St. Lucia, St. Vincent, Trinidad and Tobago, United States of America.

## Bermuda

Insert Cholera - II. And from all countries any parts of which are infected.\*

## Central African Republic

Insert: Cholera - I.

## Cook Island

In the note concerning smallpox, insert: New Hebrides.

## Iran

In the note concerning cholera, insert: Bulgaria, Kenya, Libyan Arab Republic, Malawi, Southern Yemen.\*

## Malaysia

### Sarawak

Under smallpox, insert: > 6 months.

## New Zealand

In the note concerning smallpox, insert: British Solomon Islands, Nauru, New Hebrides, Niue and Tokelau Islands.

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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.

## Saudi Arabia

Delete all information, and insert: From 19 November 1971 to 15 February 1972 (season of periodic mass congregations):

Cholera - I\*. In addition, arrivals from countries any parts of which are infected are required to possess: (i) a certificate showing that prior to arrival they have spent 5 days in an area which should be designated by the health authority and notified in advance to Saudi Arabia as a free area (time spent on board a healthy ship may be considered as a period spent in a free area); (ii) a statement issued by the health authority, certifying that they have taken adequate doses of tetracycline (or any equivalent antibiotic) for two consecutive days immediately before leaving the infected area or during their stay in the free area.\*

Yellow fever - All arrivals from countries any parts of which are infected or included in the endemic zone are required to possess a vaccination certificate.\*

Smallpox - I.

## United States of America

Under smallpox, delete I, and insert II.

Delete the note concerning smallpox, and insert: - Certificate required only from travelers who within preceding 14 days have been in a country any part of which is infected.

## Yugoslavia

In the note concerning smallpox, insert: Algeria.

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.

Address all correspondence to: Center for Disease Control  
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