

Vol. 23, No. 13

WEEKLY REPORT

For
Week Ending
March 30, 1974

U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE PUBLIC HEALTH SERVICE DATE OF RELEASE: APRIL 5, 1974 – ATLANTA, GEORGIA 30333

INTERNATIONAL NOTES IMPORTED CHOLERA — Canada

On March 30, 1974, Canadian health officials reported an imported case of cholera in a 27-year-old South African businessman who arrived in Canada on March 24. He was well on arrival and experienced the onset of diarrhea during the evening of March 25; hospitalized on March 27, he was given 11 liters of fluid replacement. His recovery has been uneventful. The organism was identified by the hospital laboratory and confirmed by the provincial laboratory as *Vibrio cholerae*, biotype El Tor, serotype Inaba; the identity of the organism has also been confirmed by CDC.

The patient, a resident of Pretoria, had left Johannesburg on the morning of March 23 by air (Flight A), stopping briefly in Luanda, Angola, and arriving in Lisbon, Portugal,

CONTENTS

| International Notes | |
|---|-----|
| Imported Cholera — Canada | 117 |
| Follow-Up on Sylvatic Yellow Fever - Panama | 123 |
| Epidemiologic Notes and Reports | |
| Follow-Up on Hamster-Associated LCM | |
| Infection — United States | 118 |
| Measles — Ohio | 118 |
| Current Trends | |
| Surveillance of Influenza — United States | 124 |
| | |

that evening. Food and drinking water for Flight A were taken on in Johannesburg; water used for toilets and sink spigots was taken on in Johannesburg and in Luanda. The patient stated that he ate 3 meals aboard Flight A; his water consumption consisted solely of water and beverages with ice served by the stewardess, but he washed his face and hands

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

| | 13th WEEK | ENDING | MEDIAN | CUMULATIVE, FIRST 13 WEEKS | | | | | | |
|---|-------------------|-------------------|-----------|----------------------------|----------|---------------------|--|--|--|--|
| DISEASE | March 30, 1974 | March 31, 1973 | 1969-1973 | 1974 | 1973 | MEDIAN 1969-1973 | | | | |
| Aseptic meningitis | 24 | 40 | 31 | 7,418 | 461 | 426 | | | | |
| Brucellosis | 3 | 3 | 5 | 24 | 22 | 27 | | | | |
| Chickenpox | 4,042 | 5,995 | | 47,484 | 70,940 | | | | | |
| Diphtheria | 6 | 3 | 3 | 52 | 60 | 51 | | | | |
| Encephalitis: | • | _ | | | | | | | | |
| Primary: Arthropod-borne and unspecified | 13 | 28 | 21 | 213 | 230 | 251 | | | | |
| Post-Infectious | 2 | 6 | 6 | 49 | 50 | 64 | | | | |
| Hepatitis, Viral: | - | | | | | | | | | |
| Type B | 173 | 164 | 164 | 2,204 | 1,820 | 1,820 | | | | |
| Type A | 721 | 1, |) | 11,028 | 1 3 | la í | | | | |
| Type unspecified | 147 | | { 1,142 | 2,076 | { 12,800 | { 14,044 | | | | |
| Malaria | 3 | ' 4 | ' 50 | 38 | 54 | 606 | | | | |
| Measles (rubeola) | 547 | 1,229 | 1,229 | 7,147 | 9.191 | 10.418 | | | | |
| Meningococcal infections, total | 35 | 52 | 57 | 407 | 448 | 855 | | | | |
| Civilian | 32 | 50 | 52 | 398 | 434 | 730 | | | | |
| Military | 32 | 1 2 | 32 |) 9 | 14 | 81 | | | | |
| Mumps | 1,621 | 2,068 | 2,775 | 21,924 | 25,299 | 31,152 | | | | |
| Pertussis | 22 | 2,000 | 2,773 | 331 | | 31,132 | | | | |
| Rubella (German measles) | 478 | 1,391 | 1,980 | 3,641 | 9,729 | 14,010 | | | | |
| Tetanus | 1 | 1,371 | 1,700 | 11 | 14 | 21 | | | | |
| Tuberculosis, new active | 633 | 769 | | 7,154 | 7,509 | | | | | |
| Tularemia | 033 | 107 | 2 | 26 | 19 | 24 | | | | |
| Typhoid fever | 4 | 90 | | 85 | 241 | 64 | | | | |
| Typhus, tick-borne (Rky. Mt. spotted fever) | - | 1 1 | 1 | 14 | 271 | 5 | | | | |
| Venereal Diseases: | _ | 1 | 1 | 17 | ′ | | | | | |
| Gonorrhea | 14.055 | 15,548 | | 207,790 | 188,314 | | | | | |
| | | 520 | | 5,899 | 6,274 | | | | | |
| Syphilis, primary and secondary | 472 58 | 110 | 107 | 629 | 823 | 950 | | | | |
| Rabies in animals | 58 | 110 | 10/ | 029 | 023 | 730 | | | | |

TABLE II. NOTIFIABLE DISEASES OF LOW FREQUENCY

| | Cum. | · · | Cum. |
|---|------|------------------------------|------|
| Anthrax: | 2 | Poliomyelitis, total: Ill. 1 | 2 |
| Botulism: | 4 | Paralytic Ill. 1 | 2 |
| Congenital rubella syndrome: *. Calif. 1, S, Dak, 1 | | Psittacosis: Wis, 1 | 6 |
| Leprosy: Calif. 6 | 26 | Rabies in man: | _ |
| Leptospirosis: | | Trichinosis: N.J. 1 | 37 |
| Plague: | - | Typhus, murine: | 6 |

^{*}Delayed reports: Congenital rubella syndrome: Texas delete 1 (1974)

CHOLERA - Continued

on the plane after leaving Luanda. He also drank a cup of coffee with cream in the Luanda airport.

He spent the night and ate breakfast in a Lisbon hotel, ate lunch in a restaurant, and departed Lisbon (Flight B) on March 24 for New York City. Food and water for Flight B were taken on in Lisbon.

After a 6-hour layover at Kennedy International Airport, he continued on to Montreal (Flight C) that evening, arriving at 11 p.m. He was picked up and driven to a friend's home in Kingston, Ontario, where he experienced the onset of diarrhea the following evening, March 25.

No other cases from these flights have been reported in Canada or the United States.

(Reported by Ivan T. Beck, M.D., private physician and Director, Gastroenterology Division, R.J. Lewis, Ph.D., microbiologist, Hotel Dieu Hospital, Kingston, Ontario; R.A. Kelly, M.D., Medical Officer of Health, R.D. Tennant and staff, Regional Public Health Laboratory, Kingston, Ontario; S. Toma, M.D., Chief of Bacteriology and staff, Central Public Health Laboratory, and Shirley Johnson, M.D., Senior Medical Consultant in Epidemiology, Ontario Ministry of Health, Toronto, Ontario; R.A. Springer, M.D., Medical Services Branch, National Health and Welfare, Ottawa, Canada; John W. Davies, M.B., Director, Bureau of Epidemiology, Laboratory Centre for Disease Control, National Health and Welfare,

Ottawa, Canada; Enteric Disease Branch and Epidemiologic Services Laboratory Section, Bacterial Diseases Division, Quarantine Division, Bureau of Epidemiology, CDC.) Editorial Note

The incubation period for cholera ranges from hours to 5 days (usually 2-3 days), thus acquisition of this man's illness could have occurred before or during his travel. Portugal and the Republic of South Africa have not recently reported cholera; however, active transmission is currently occurring in Angola and several other countries near South Africa. Although the source of this patient's infection has not been determined, it is probably related to a currently infected focus in southern Africa. Infection in other passengers aboard flights B and C arriving in the United States and Canada is not likely, unless they had been similarly exposed; the risk of direct contact spread from a person incubating the disease to other passengers is negligible. Imported cases of cholera are not considered a threat to other persons in places that have

The patient's recovery is undoubtedly due to his physician's prompt recognition of the need for vigorous fluid replacement; parenteral and oral fluid therapy can reduce cholera fatality to less than 1%.

adequate sewerage and water systems (1).

Reference

1. Gangarosa EJ, Barker WH: Cholera — Implications for the United States. JAMA 227:170-171, 1974

EPIDEMIOLOGIC NOTES AND REPORTS FOLLOW-UP ON HAMSTER-ASSOCIATED LCM INFECTION — United States

The 14 breeders who supply hamsters to the Aquarium Supply Company, Harrison, New Jersey, have been contacted and are sending CDC samples of their breeder stock for serologic testing and virus isolation. The first 137 hamsters tested, representing 2 breeders, were negative by indirect FA serology.

A breeder in Birmingham, Alabama, sent 388 juvenile hamsters to Tampa on March 26, 1974. Sixty-five of these were dead on arrival; 31 of the 323 survivors were tested, and 7 were FA positive. The dead animals and a sample of their breeding stock are now being tested at CDC.

The Aquarium Supply Company is no longer shipping animals from the Alabama source. The Alabama Department of Public Health and the Jefferson County Health Department are investigating local distribution of hamsters and looking for human cases of lymphocytic choriomeningitis. (Reported by Clyde Sellers, Director of Communicable Dis-

eases, George E. Hardy, Jr., M.D., Health Officer, Jefferson County Health Department, Birmingham, Ala.; Frederick Wolf, M.D., State Epidemiologist, Alabama State Department of Health, Montgomery, Ala.; and an EIS Officer.)

MEASLES - Ohio

In the 5-month period October 1973 through February 1974, 828 cases of measles were reported in suburban Cuyahoga County, Ohio. Approximately 7% of the cases were reported by physicians, and the rest by school nurses. No atypical or complicated cases were recorded.

The outbreak began in the western suburb of North Olmsted in October. In December, the neighboring suburbs of Westlake and Fairview Park were affected; in January, measles spread to Lakewood and Euclid; and in early February, 2 junior high schools and an elementary school in the southwest corner of Cleveland reported outbreaks.

The age distribution of measles cases is shown in Figure 1. Fifty-six percent of the ill children were 5-11 years old (elementary school), 34% were 12-14 (junior high) and 8% were 15-18 (high school); the median age was 10. Outbreaks occurred in junior high schools in all of the affected towns.

Approximately 1% of cases were in preschool-age chil-

Figure 1
MEASLES CASES BY AGE, CUYAHOGA COUNTY, OHIO
OCTOBER 1973—FEBRUARY 1974

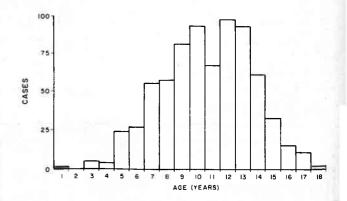


TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES FOR WEEKS ENDING MARCH 30, 1974 AND MARCH 31, 1973 (13th WEEK)

| | ASEPTIC | ppucer | CHICKEN- | | | F | NCEPHALI | ГIS | HEI | PATITIS, VI | RAL | | |
|-----------------------------|------------------|------------|--------------|-----------------|---------------|----------------|---------------------------|----------------------|----------|-------------|---------------------|-----------------|--------------|
| AREA | MENIN- GITIS | LOSIS | POX | DIPHT | HERIA | | Arthropod- Unspecified | Post In- fectious | Type B | Type A | Type Unspecified | MAL | ARIA |
| | 1974 | 1974 | 1974 | 1974 | Cum. 1974 | 1974 | 1973 | 1974 | 1974 | 1974 | 1974 | 1974 | Cum. 1974 |
| UNITED STATES | 24 | 3 | 4,042 | 6 | 52 | 13 | 28 | 2 | 173 | 721 | 147 | 3 | 38 |
| EW ENGLAND | _ | _ | 640 | _ | - | _ | 1 | _ | 7 | 42 | 16 | _ | 3 |
| Maine .* | - | - | 6 | 177 | 155 | 70 | | - | - | 4 | - | 12 | 2 |
| New Hampshire * | _ | | 13 | _ | - | - | - 1 | - | 1 | 9 | II - | - | _ |
| Massachusetts | <u>=</u> 2 | _ | 25 293 | 177 | : | 8 == | _ | - | 3 | 1 12 | -1 | - | - |
| Rhode Island | - | - | 154 | | . = | , 1 | · - | - | 2 | 2 | 14 | | 1 2 |
| Connecticut | _ | - | 149 |). = | - | - | 1 | 8.00 | 1 | 14 | 1 | _ | _ |
| IDDLE ATLANTIC | 2 | <u>=</u> v | 264 | - | _ | 3 | 4 | _ | 41 | 73 | 26 | 1 | 3 |
| Upstate New York | 1 | _ | 138 | _ | - | 1 | - | 2.00 | 4 | 31 | 8 | 1 | 1 |
| New York City | 1 | - | 124 | - | - | 1 | 3 | - | 5 | 16 | 1- | _ | 1 |
| Pennsylvania * | - | 12 | NN 2 | _ | 72 | 1 - | 1 | _ | 17 15 | 16 10 | 15 | Ū | 1 |
| AST NORTH CENTRAL | 3 | _ | 1 000 | | | 2 | | | | | | _ | • |
| Ohio | - | 172 | 1,909 561 | _ | - | 2 - | 9 | _ | 31 4 | 120 23 | 11 | - | 4 |
| Indiana | - | | 132 | | <u> </u> | = | - | - | 3 | 13 | - | ÷: | 3 |
| Illinois | 114 | ?' | - | _ | - | 1 | 1 | - | 3 | 13 | 6 | _ | 1 |
| Michigan | 3 | 17- | 650 | - | - | 1 | 5 | - | 15 | 60 | 5 | _ | - |
| Wisconsin | - | | 566 | _ | - | - | - | - | 6 | 24 | - | - | - |
| ST NORTH CENTRAL | - | - | 328 | _ | _ | 1 | 4 | _ | 7 | 30 | 20 | _ | 1 |
| Minnesota Iowa | - | _ | 5 271 | - | - | - | 2 | - | 2 | 7 | 71 | - | _ |
| Missouri |) | _ | 4 | _ | _ | 1 | 2 | = | 1 3 | 3 | - | - | - |
| North Dakota | - | - | 10 | _ | _ | _ | 1 | _ | 3 | _ | 20 | _ | - |
| South Dakota | - | N= | 3 | - | - | _ | - | - | 1 | 4 | | _ | 1 |
| Nebraska Kansas | | | 7.94 | - | - | - | | - | 2 | - | - | - | |
| Kansas | S. - | - | 35 | - | - | - | 1 | - | _ | 16 | - | - | - |
| OUTH ATLANTIC | 1 | 1 | 301 | - | - | - | 2 | - | 15 | 139 | 18 | _ | 8 |
| Delaware Maryland | | 1 | 9 | i.— | - | 1- | - | - | 1 | 1 | | - | _ |
| District of Columbia | : - = | | 5 7 | - | - | - | _ | - | 3 | 5 | 1 | - | - |
| Virginia | - | - | 19 | 2-0 | - | Ī | - | - | 3 | 16 | 3 | - | 2 |
| West Virginia | - | - | 241 | _ | - | - | _ | _ | _ | 7 | 1 1 | _ | 2 |
| North Carolina | - | 1.7 | NN | | - | ** | - | - | 3 | 21 | 3 | _ | 1 |
| South Carolina Georgia | - | 200 | 20 | - | 9-6 | - | - | - | 1 | 9 | 1 1 | - ' | _ |
| Florida * | 1 | 1 | - | - | - | = | 1 | _ | 4 | 24 56 | 9 | - | _ 2 |
| AST SOUTH CENTRAL | 3 | _ | 73 | _ | | 1 | 1 | | | | | | 2 |
| Kentucky | _ | - | 59 | _ | - | | - | = | 8 2 | 51 15 | 4 4 | - | - |
| Tennessee | 1 | = | - | _ | - | 1 | - | _ | 5 | 24 | " | _ | _ |
| Alabama | - | - | 9 | - | - | - | 1 | - | - | 5 | - | _ | _ |
| Mississippi | 2 | - | 5 | | - | - | - | =- | 1 | 7 | - | - | - |
| EST SOUTH CENTRAL | 2 | 1 | 125 | _ | 8 | 1 | 1 | 1 | 3 | 23 | 10 | _ | 2 |
| Arkansas Louisiana | 2 | - | 6 NN | | - | - | - | - | 1 | 10 | 3 | - | _ |
| Oklahoma | - | 1 | NN 119 | _ | = | 1 _ | 1 | 1 | 2 | 8 | 1 | - | 1 |
| Texas | | | | | 8 | | = | | | 5 | 6 | | 1 _ |
| OUNTAIN | 1 | 1 | 109 | 6 | 7 | 2 | 626 | | | | 1.0 | | _ |
| Montana | - | - | 31 | === | 1-1 | | _ | _ | 8 _ | 89 11 | 19 | _ | 1 |
| Idaho | - | 1 | - | ==: | - | _ | _ | _ | _ | 2 | - | _ | _ |
| Wyoming | | - | - | - | _ | - | - | _ | - | _ | 3 | _ | _ |
| Colorado New Mexico | 1 | - | 34 | - | - | - | _ | - | 4 | 6 | 10 | - | 1 |
| Arizona | - | _ | 44 | 5 | 6 | 2 | - | _ | 1 2 | 40 | - | - | _ |
| Utah | - | - | - | | = | _ | _ | _ | 2 | 11 | 5 | _ | _ |
| Nevada | - | - | - | 2-0 | - | - | _ | _ | <u>-</u> | 16 | - | _ | _ |
| ACIFIC | 12 | | 293 | _ | 37 | 3 | 6 | 1 | 53 | 154 | 1 22 | | |
| Washington | - | - | 267 | _ | 34 | - | 1 | | 1 | 154 | 23 | 2 | 16 |
| Oregon | 10 | - | 1 | | - | - | _ | 20 | 2 | 11 | 6 | _ | _ |
| California * | 12 | - | - | - | 1 | 3 | 5 | 1 | 47 | 124 | 14 | 2 | 16 |
| Hawaii | _ | - | 22 | _ | 2 | _ | 27 | _ | 3 | 7 3 | - | - | - |
| | | | ļ | | | 1 | | | ļ | ļ | _ | | |
| uam * | - | - | = | - | | _ | =, | =0 | - | 2.00 | | :: - | 1 |
| Marke Diver | - | - | 12 | - | _ | - | - | - | 1 | - | 6 | _ | l <u>:</u> |
| uerto Rico irgin Islands | - | | 14 | _ | | | 22.5 | | l . | 1 | - | | ı |

*Delayed reports:

Aseptic Meningitis: N.H. delete 1 (1974)

Chickenpox: Me. 10, N.H. 26, Calif. 85, Guam 1 (1974)

Diphtheria: Florida delete 1 (1974)

Hepatitis B: Penn. 3 (1973)

Hepatitis A: Penn. 2 (1973), Me. 3, N.H. 2, Vt. delete 1,

Guam 12 (1974)

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES FOR WEEKS ENDING MARCH 30, 1974 AND MARCH 31, 1973 (13th WEEK) - Continued

| | ME | ASLES (Rube | ola) | MENINGO | COCCAL INI | FECTIONS, | MU | APS . | PERTUSSIS | RUB | ELLA | TETANUS | |
|-------------------------------|-----------|--------------|--------------|---------|------------|-----------|-----------|--------------|-----------|----------|------------|---------|--|
| AREA | | Cumulative | | | Cumu | lative | Cum. | | 1071 | Cum. | | Cum. | |
| | 1974 | 1974 | 1973 | 1974 | 1974 | 1973 | 1974 | 1974 | 1974 | 1974 | 1974 | 1974 | |
| UNITED STATES | 547 | 7,147 | 9,191 | 35 | 407 | 448 | 1,621 | 21,924 | 22 | 478 | 3,641 | 11 | |
| NEW ENGLAND | 24 | 392 | 3,647 | _ | 21 | 21 | 252 | 3,177 | 1 | 53 | 336 | _ | |
| Maine * | _ 5 | 22 187 | 14 674 | _ | 4 | - 3 | 18 | 555 131 | _ | 14 1 | 81 | | |
| Vermont | 4 | 5 | 75 | _ | | 2 | | 9 | - | i | 7 | | |
| Massachusetts | 12 1 | 104 | 1,830 265 | - | 7 4 | 7 1 | 40 143 | 477 | - | 17 | 129 | - | |
| Connecticut | 2 | 28 | 789 | - - | 6 | 8 | 47 | 1,085 920 | 1 | 2 18 | 15 97 | _ | |
| MIDDLE ATLANTIC | 217 | 2,708 | 767 | 3 | 47 | 64 | 148 | 1,724 | 3 | 35 | 385 | 1 | |
| Upstate New York | 8 | 41 | 190 | 1 | 22 | 22 | 54 | 354 | 1 1 | 5 | 83 | - | |
| New York City New Jersey | 25 160 | 144 2,217 | 431 67 | _ 2 | 12 10 | 13 14 | 16 10 | 240 380 | 2 | 5 19 | 45 | - | |
| Pennsylvania | 24 | 306 | 79 | - | 3 | 15 | 68 | 750 | - | 6 | 170 87 | 1 - | |
| EAST NORTH CENTRAL | 170 | 2,775 | 2,741 | 5 | 45 | 47 | 565 | 6,425 | 9 | 140 | 1,194 | _ | |
| Ohio | 49 | 1,193 | 126 | 2 | 14 | 25 | 262 | 1,801 | - | 28 | 175 | - | |
| Indiana | . 5 21 | 83 | 251 | - | 2 | 1 | 28 | 521 | 1 - 1 | 52 | 311 | - | |
| Ulinois | 31 76 | 474 875 | 660 1,239 | _ 2 | 7 15 | 7 11 | 17 183 | 548 2,664 | 3 | 8 32 | 150 | _ | |
| Wisconsin * | 9 | 150 | 465 | 1 | 7 | 3 | 75 | 891 | - 6 | 20 | 402 156 | = = | |
| WEST NORTH CENTRAL | 37 | 206 | 227 | 6 | 30 | 35 | 89 | 1,714 | - 1 | 27 | 108 | 2 | |
| Minnesota | - | 76 | 14 | 3 | 13 | - | 1 | 26 | - | - | 3 | - | |
| lowa | 3 | 7 27 | 149 12 | 3 | 5 8 | 5 18 | 57 3 | 1,149 | - | 1 | 7 | - | |
| North Dakota | 5 | 23 | 28 | _ | 1 | 3 | 1 | 257 9 | _ | | 20 6 | 2 | |
| South Dakota | 18 | 19 | _ | _ | - | 2 | | 2 | | 21 | 21 | | |
| Nebraska | 1 | 2 | 1 | _ | - | 3 | 3 | 46 | 1 – 1 | _ | 3 | - | |
| Kansas | 10 | 52 | 23 | - | 3 | 4 | 24 | 225 | M- | 5 | 48 | _ | |
| SOUTH ATLANTIC | 27 | 259 | 296 | 3 - | 80 | 78 | 226 | 2,427 | 1 | 63 | 311 | 4 | |
| Delaware | 1 | 3 20 | 1 _ | _ | 3 12 | 1 15 | 4 | 37 43 | - | | 7 | | |
| District of Columbia | | | _ | _ | - | 1 | 3 | 26 | | _ | 1 | | |
| Virginia | _ | 12 | 25 | 1 | 12 | 9 | 2 | 156 | - 1 | _ | 12 | 2 | |
| West Virginia | 3 | 63 | 97 | 1 | 3 | 1 | 152 | 1,464 | - | 6 | 54 | - | |
| North Carolina South Carolina | 10 | 2 23 | 4 21 | _ | 15 9 | 15 7 | NN 1 | NN 20 | 1 _ | 11 43 | 31 | - | |
| Georgia | - | 1 | 11 | _ | 4 | 15 | | 28 | - | 43 | 131 | | |
| Florida | 13 | 135 | 137 | 1 | 22 | 14 | 60 | 673 | - | 3 | 73 | 2 | |
| EAST SOUTH CENTRAL | 1 | 48 | 176 | 11 | 46 | 45 | 148 | 2,158 | 1 | 42 | 239 | 2 | |
| Kentucky | 1 _ | 37 1 | 73 77 | 5 3 | 21 20 | 22 16 | 34 84 | 805 | 1 | 24 10 | 78 | - | |
| Tennessee | _ | 2 | <i>''</i> _ | 3 | 20 5 | 3 | 22 | 1,091 230 | '_ | 8 | 119 | 1 | |
| Mississippi | - | 8 | 26 | _ | _ | 4 | 8 | 32 | - | _ | 9 | 1 | |
| WEST SOUTH CENTRAL | 1 | 84 | 362 | _ | 78 | 68 | 11 | 1,390 | _ | 2 | 114 | _ | |
| Arkansas | _ | 6 | 34 33 | _ | 5 13 | 8 12 | 1 | 91 64 | - | - 1 | 7 8 | _ | |
| Oklahoma * | 1 | 11 | 15 | _ | 8 | 4 | 9 | 205 | - | i | 18 | | |
| Texas | | 63 | 280 | | 52 | 44 | | 1,030 | | | 81 | 1 | |
| MOUNTAIN | 46 | 264 | 218 | 2 | 11 | 12 | 32 | 626 | - | 23 | 189 | = | |
| Montana | 29 | 148 | 4 | - | 1 | 2 | 2 | 106 | - | 4 | 60 | - | |
| Idaho | _ | 44 | 102 9 | _ | 1 | 1 | 7 | 135 4 | | _ | 5 | _ | |
| Wyoming | 6 | 21 | 20 | 1 1 | 2 | 2 | 22 | 260 | | 14 | 44 | _ | |
| New Mexico | 7 | 37 | 73 | ' | 2 | 1 | 1 | 118 | _ | 4 | 51 | - | |
| Arizona | - | 4 | 9 | | 3 | 3 | - | - | - | _ | _ | _ | |
| Utah | 4 | 7 | 1 - | - 1 | 1 | 1 2 | - | 3 - | _ | 1 | 6 23 | | |
| | 24 | 411 | 757 | | 49 | | 150 | | i | | | | |
| PACIFIC | 3 | 28 | 757 326 | - | 7 | 78 6 | 150 65 | 2,283 885 | 7 | 93 14 | 765 185 | 1 | |
| Oregon | | <u> </u> | 185 | _ | 6 | 4 | 26 | 445 | | 6 | 82 | | |
| California | 21 | 380 | 241 | 5 | 33 | 65 | 54 | 873 | 7 | 72 | 487 | 1 | |
| Alaska | | 3 | - 5 | _ | 2 1 | 3 - | 3 2 | 60 20 | - | 1 | - 11 | - I | |
| | | | | | | - | | | | | | - | |
| Guam * | _ 24 | 1 205 | 3 596 | | 1 5 | - 3 | _ 27 | 106 281 | - 5 | 1 | - 5 | - | |
| | 47 | | 270 | _ | _ | | 2 | 201 | | | | 1 | |

*Delayed reports: Measles: N.H. 4 (1974)

Mumps: Me. 1, N.H. 6, Okla. 23, Guam 25 (1974)

Rubella: Me. 3, Wisc. delete 1 (1974) Tetanus: Me. 1 (1973)

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES FOR WEEKS ENDING MARCH 30, 1974 AND MARCH 31, 1973 (13th WEEK) - Continued

| AREA | TUBERCULOSIS (New Active) | | TULA- | | HOID | TYPHUS TICK-I | FEVER BORNE | | | VENEREAL | | | | RABIES IN |
|----------------------|------------------------------|-------------|----------------|----------|------------|------------------|-------------------|-------------|-----------------|----------------|-----------|---------------|----------|--------------|
| | (New | Active) | REMIA | FE | VER | (Rky. Mt. sp | potted fever) | | GONORRHE | EA. | SYPI | HILIS (Pri. 8 | & Sec.) | ANIMAL |
| THE A | | Cum. | Cum. | | Cum. | | Cum. | | Cum | ulative | | Cum | ulative | Cum. |
| | 1974 | 1974 | 1974 | 1974 | 1974 | 1974 | 1974 | 1974 | 1974 | 1973 | 1974 | 1974 | 1973 | 1974 |
| UNITED STATES | 633 | 7,154 | 26 | 4 | 85 | - | 14 | 14,055 | 207,790 | 188,314 | 472 | 5,899 | 6,274 | 629 |
| EW ENGLAND | 27 | 321 | _ | _ | 2 | _ | · | 210 | 4,908 | 5,023 | 8 | 118 | 170 | 3 |
| Maine | 2 | 26 | - | _ | _ | - | _ | 5 | 378 | 275 | - | 10 | 9 | 1 |
| New Hampshire * | 1 | 11 | - | - | _ | - | - | 14 | 168 | 167 | _ | 3 | 4 | - |
| Vermont | - | 3 | - | - | _ | - | i | 12 | 163 | 61 | - | 1 | 8 | → 1 |
| Massachusetts | 15 | 183 | _ | - | _ 2 | - | - | 15 | 1,913 | 2,396 | 3 | 48 | 77 | - |
| Rhode Island | 9 | 66 | _ | <u> </u> | _ | _ | _ | 15 164 | 455 1,831 | 592 1,532 | _ 5 | 53 | 66 | 2 |
| IDDLE ATLANTIC | 129 | 1.244 | 1 | 1 | 16 | | 9 | 2,016 | 26,631 | 24,358 | 88 | 1,292 | 1,427 | |
| Upstate New York | 20 | 132 | l i | | 2 | _ | | 392 | 4,899 | 5,526 | 14 | 129 | 82 | 3 |
| New York City | 38 | 490 | - | 1 | 13 | _ | i – | 1,071 | 10,724 | 10,238 | 46 | 742 | 894 | _ |
| New Jersey | 35 | 273 | _ | - | 1 | - | l – | 200 | 4,611 | 3,271 | 14 | 206 | 245 | _ |
| Pennsylvania | 36 | 349 | - | _ | _ | - | 9 | 353 | 6,397 | 5,323 | 14 | 215 | 206 | 2 |
| ST NORTH CENTRAL | 115 | 947 | 2 | _ | 6 | _ | - | 2,133 | 27,232 | 22,618 | 29 | 309 | 360 | 35 |
| Ohio .* | 29 | 278 | - | - | 1 | - | - | 592 | 9,724 | 7,090 | 6 | 63 | 68 | _ |
| Indiana | 32 | 150 | l - | - | - | - | - | 344 | 2,947 | 2,619 | 4 | 46 | 75 | 2 |
| Illinois | 31 | 246 | 2 | - | 3 | - | - | 257 | 3,372 | 3,272 | 6 | 69 | 53 | 2 |
| Michigan | 23 | 273 | | _ | 2 | _ | _ | 645 295 | 8,067 3,122 | 7,216 2,421 | 11 2 | 102 29 | 139 | - 31 |
| | | _ | | - | | _ | _ | | 1 | 1 | | | 25 | 31 |
| ST NORTH CENTRAL | 27 | 234 | 8 | - | 3 | - | - | 1,174 | 10,872 | 11,040 | 33 | 133 | 73 | 156 |
| Minnesota | 6 | 37 | - | – | 2 | - | - | 170 | 2,658 | 2,177 | 5 | 15 | 27 | 77 |
| lowa | 2 | 18 | - | - | - | - | - | 307 | 1,548 | 1,470 | 2 | 11 | 8 | 31 |
| Missouri | 11 | 125 | 7 | - | 1 | - | - | 402 | 3,170 | 3,991 | 25 | 87 | 24 | 3 |
| North Dakota | | 5 | | - | – | - | - | 13 | 189 | 158 | - | - | 1 | 32 |
| South Dakota | 3 | 13 | 1 | - | - | - | - | 34 | 503 | 533 | - | 1 1 | 1 | - |
| Nebraska | 2 | 10 26 | _ | _ | _ | _ | _ | 96 152 | 1,918 | 1,139 1,572 | <u> </u> | 3 16 | 1 11 | 13 |
| | 127 | 1 494 | ١. | | ١., | | | | | | | | | |
| JTH ATLANTIC | 137 | 1,484 | 1 _ | 2 | 14 | | 4 - | 3,463 58 | 52,836 797 | 48,423 706 | 134 | 1,938 | 1,819 | 76 |
| Maryland | 23 | 174 | 1 = | _ | 1 1 | _ | 1 | 317 | 4,866 | 4,182 | 22 | 25 216 | 21 | _ |
| District of Columbia | 9 | 101 | | ľ | <u>'</u> | | l <u>:</u> | 138 | | | ı | 1 | 191 | |
| Virginia | 7 | 187 | 1 1 | _ | 1 - | _ | _ | 263 | 4,028 | 4,126 4,577 | 15 8 | 174 251 | 207 | 22 |
| West Virginia | 3 | 79 | '_ | _ | 3 | _ | 1 - | 52 | 664 | 757 | 1 1 | 251 | 177 | 33 |
| North Carolina | 17 | 259 | = | | | _ | _ | 464 | 7,111 | 7,364 | 10 | 208 | 142 | 10 |
| South Carolina | 22 | 156 | _ | _ | | _ | ļ <u>-</u> | 327 | 5,976 | 5,119 | 15 | 250 | 287 | 1 2 |
| Georgia | 20 | 172 | = | _ | _ | <u>-</u> | 2 | 906 | 10,576 | 8,625 | 11 | 192 | 357 | 22 |
| Florida | 36 | 332 | _ | 2 | 9 | - | 1 | 938 | 14,203 | 12,967 | 51 | 615 | 429 | 8 |
| ST SOUTH CENTRAL | 65 | 657 | 6 | _ | 13 | _ | | 1,342 | 17,946 | 16,258 | 26 | 321 | 447 | 89 |
| Kentucky | 20 | 140 | 1 | _ | 7 | 1 2 | _ | 137 | 2,172 | 1,953 | 9 | 72 | 189 | 59 |
| Tennessee | 12 | 199 | 3 | = | 4 | 1 - |] _ | 489 | 7,063 | 6,083 | 14 | 125 | 105 | 20 |
| Alabama | 20 | 207 | 2 | - | 2 | | _ | 480 | 5,019 | 4,498 | 1 1 | 61 | 32 | 10 |
| Mississippi | 13 | 111 | - | _ | - | _ | _ | 236 | 3,692 | 3,724 | 2 | 63 | 121 | - |
| ST SOUTH CENTRAL | 22 | 898 | 6 | _ | 5 | _ = | _ | 1,176 | 29,249 | 24,992 | 42 | 583 | 701 | 156 |
| Arkansas | 8 | 123 | 2 | - | 1 | - | _ | 481 | 3,037 | 3,510 | 1 7 | 27 | 52 | 21 |
| Louisiana * | 5 | 127 | 1 | l – | 1 | - | - | 510 | 6,272 | 5,110 | 36 | 171 | 187 | 3 |
| Oklahoma . * | 9 | 59 | 2 | - | _ | l – | l – | 185 | 2,400 | 2,666 | 5 | 41 | 52 | 29 |
| Texas 💠 | | 589 | 1 | | 3 | | - | | 17,540 | 13,706 | | 344 | 410 | 103 |
| OUNTAIN | 17 | 228 | 2 | <u></u> | 7 | =: | 1 | 687 | 7,827 | 7,167 | 25 | 150 | 199 | 19 |
| Montana | _ | 17 | - | | _ | - | l – | 44 | 459 | 410 | | 130 | 1 | _ |
| ldaho | _ | 9 | _ | _ | i _ | l - | _ | 20 | 502 | 431 | _ | 1 | 5 | _ |
| Wyoming | 2 | 6 | 1 | _ | 2 | | _ | 7 | 154 | 109 | _ | 3 | 8 | 2 |
| Colorado | 3 | 30 | _ | _ | _ | | 1 | 188 | 2,250 | 1,888 | 1 | 31 | 71 | |
| New Mexico | 8 | 62 | 1 | - | ļ <u>-</u> | _ | _ | 72 | 1,109 | 1,163 | 12 | 30 | 24 | 7 |
| Arizona | _ | 72 | - | - | 5 | i - | _ | 203 | 2,363 | 2,117 | 3 | 45 | 48 | 10 |
| Utah | 1 3 | 12 20 | - | - | - | - | - | 35 | 369 | 400 | - | 6 | 6 | - |
| | _ | | _ | - | - | | - | 118 | 621 | 649 | 9 | 34 | 36 | - |
| CIFIC | 94 8 | 1,141 82 | _ | 1 = | 19 2 | | 3 <u>-</u> | 1,854 | 30,289 2,723 | 28,435 | 87 | 1,055 | 1,078 | 92 |
| • | | 43 | _ | = | | 1 - | - | 199 | 2,723 | 2,620 2,586 | 2 | 21 | 35 25 | 8 |
| Oregon | 70 | 908 | 1 - | 1 | 17 | 1 - | <u>-</u> | 1,332 | 23,691 | 21,961 | 85 | 994 | 970 | 81 |
| Alaska | 7 | 27 | Ī | | <u>''</u> | 1 1 | - | 53 | 686 | 684 | 65 | 1 | 20 | 3 |
| Hawaii | 9 | 81 | | | - | - | | 36 | 682 | 584 | - | 12 | 28 | - |
| | | | - | - | | - | | - | | | | | | |
| am .* | _ 17 | _ | _ | _ | _ 1 | _ | _ | _ 59 | 43 708 | 1,047 | 16 | _ 236 | 187 | 20 |
| | _ | | - | _ | _ | _ | _ | و ا | 70 | 52 | 2 | 9 | 6 | |
| rgin Islands | | | | | | | | | | | | | | |

*Delayed reports: Tuberculosis: N.H. delete 1, Ohio delete 10 (1973)

Guam 10 (1974)

Gonorrhea: La. delete 1, Guam 5 (1974)

Syphilis: D.C. 24 (1973), Okla 4 (1974)

Rabies: Texas 13 (1974)

Week No.

TABLE IV. DEATHS IN 121 UNITED STATES CITIES FOR WEEK ENDING MARCH 30, 1974

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

| | | | All Causes | | | Pneu- | | | Pneu- | | | | |
|-------------------------|-------------|----------------------|----------------|------------------|-----------------|---------------------------------------|-------------------------|-------------|----------------------|----------------|----------------|-----------------|---------------------------------------|
| Area | All Ages | 65 years and over | 45-64 years | 25-44 years | Under 1 year | monia and Influenza All Ages | Area | All Ages | 65 years and over | 45-64 years | 25-44 years | Under 1 year | monia and Influenza All Ages |
| NEW ENGLAND | 726 | 459 | 189 | 33 | 26 | 37 | SOUTH ATLANTIC | 1,318 | 742 | 389 | 90 | 42 | 64 |
| Boston, Mass. | 231 | 129 | 62 | 14 | 10 | 12 | Atlanta, Ga. | 119 | 58 | 35 | 14 | 8 | 4 |
| Bridgeport, Conn. | 39 | 23 | 15 | :: : | 1 | 3 | Baltimore, Md. | 223 | 118 | 72 | 18 | 5 | 10 |
| Cambridge, Mass. | 29 | 27 | 2 | - | - | 5 | Charlotte, N. C. | 75 | 48 | 16 | 3 | 4 | - |
| Fall River, Mass. | 24 | 18 | 6 | - | - | - | Jacksonville, Fla. | 107 | 60 | 27 | 6 | 6 | _ |
| Hartford, Conn. | 56 | 33 | 17 | 4 | 1 | 1 | Miami, Fla. | 139 | 74 | 47 | 11 | 2 | 11 |
| Lowell, Mass. | 29 | 19 | 9 | - | 1 | 2 | Norfolk, Va. | 73 | 37 | 27 | 4 | 4 | 7 |
| Lynn, Mass. | 13 | 8 | 3 | 1 | 1 | · · | Richmond, Va. | 86 | 54 | 24 | 5 | 1 | 12 |
| New Bedford, Mass | 33 | 26 | 6 | 1 | - | 2 | Savannah, Ga | 26 | 9 | 10 | 1 | 1 | 1 |
| New Haven, Conn | 42 | 19 | 13 | 4 | 5 | 1 | St. Petersburg, Fla | 82 | 67 | 10 | 3 | 1 | 2 |
| Providence, R. I. | 53 | 32 | 16 | 1 | 3 | 3 | Tampa, Fla. | 85 | 49 | 22 | 7 | 4 | 5 |
| Somerville, Mass. | 9 | . 5 | 4 | - | - | : | Washington, D. C. | 241 | 136 | 79 | 10 | 6 | 11 |
| Springfield, Mass | 70 | 48 | 13 | 7 | 2 | 5 | Wilmington, Del | 62 | 32 | 20 | 8 | - | 1 |
| Waterbury, Conn | 34 | 24 | 9 | 1 | _ | _ | | | | | | | l |
| Worcester, Mass | 64 | 48 | 14 | _ | 2 | 3 | Birmingham, Ala | 694 94 | 393 47 | 208 32 | 39 6 | 31 | 28 |
| MIDDLE ATLANTIC | 3.536 | 2,224 | 896 | 210 | 96 | 179 | Chattanooga, Tenn | 61 | 39 | 16 | 2 | 2 | 3 |
| Albany, N. Y. | 50 | 32 | 11 | 3 | 3 | 3 | Knoxville, Tenn. | 44 | 29 | و ا | 3 | =: | 2 |
| Allentown, Pa. | 31 | 22 | 1 | 8 | - | 1 | Louisville, Ky | 126 | 71 | 42 | 6 | 2 | 9 |
| Buffalo, N. Y. | 154 | 95 | 38 | 12 | 4 | 19 | Memphis, Tenn. | 154 | 83 | 45 | 11 | 11 | 2 |
| Camden, N. J. | 53 | 29 | 23 | - | 1 | 4 | Mobile, Ala. | 57 | 32 | 17 | 4 | 4 | 2 |
| Elizabeth, N. J. | 31 | 17 | 8 | 3 | _ | 1 | Montgomery, Ala | 48 | 30 | 14 | 1 | 2 | 5 |
| Erie, Pa. | 46 | 34 | 9 | | 3 | 9 | Nashville, Tenn. | 110 | 62 | 33 | 6 | 7 | 5 |
| Jersey City, N. J. | 54 | 35 | 14 | 2 | 1 | 4 | | | | | | | |
| Newark, N. J. | 64 | 27 | 17 | 9 | 6 | 3 | WEST SOUTH CENTRAL | 1,180 | 629 | 349 | 80 | 61 | 45 |
| New York City, N. Y. t. | | 1,234 | 480 | 118 | 43 | 95 | Austin, Tex. | 38 | 21 | 10 | 5 | 2 | 3 |
| Paterson, N. J. | 38 | 20 | 14 | 2 | 1 | - | Baton Rouge, La. | 52 | 25 | 19 | 4 | 1 | 4 |
| Philadelphia, Pa. | 414 | 234 | 124 | 28 | 14 | 11 | Corpus Christi, Tex. | 39 | 18 | 13 | 1 | 4 | 1 |
| Pittsburgh, Pa. | 209 | 126 | 60 | - 8 | 7 | 12 | Dallas, Tex. | 170 | 83 | 53 | 13 | 12 | 2 |
| Reading, Pa. | 39 | 31 | 6 | 1 | 1 | 2 | El Paso, Tex. | 51 | 33 | 11 | 1 | 2 | 2 |
| Rochester, N. Y. | 130 | 99 | 17 | . 3 | 7 | 4 | Fort Worth, Tex. | 105 | 64 | 28 | 3 | 5 | _ |
| Schenectady, N. Y. | 30 | 16 | 11 | 2 | _ | 1 | Houston, Tex. | 253 | 120 | 85 | 23 | 13 | 7 |
| Scranton, Pa | 56 | 38 | 13 | 3 | 1 | 4 | Little Rock, Ark. | 75 | 43 | 20 | 6 | 3 | 8 |
| Syracuse, N. Y. | 86 | 57 | 24 | 3 | 1 | 1 | New Orleans, La. | 150 | 79 | 40 | 9 | 8 | 3 |
| Trenton, N. J. | 48 | 28 | 11 | 4 | 3 | 3 | San Antonio, Tex | 125 | 72 | 29 | 9 | 8 | 4 |
| Utica, N. Y. | 29 | 26 | 3 | _ | _ | 2 | Shreveport, La. | 55 | 34 | 18 | 2 | _ | 3 |
| Yonkers, N. Y. | 37 | 24 | 12 | 1 | - | _ | Tulsa, Okla | 67 | 37 | 23 | 4 | 3 | 8 |
| EAST NORTH CENTRAL | 2,540 | 1,547 | 691 | 133 | 80 | 92 | MOUNTAIN | 560 | 324 | 161 | 36 | 11 | 25 |
| Akron, Ohio | 72 | 36 | 21 | 4 | 3 | _ | Albuquerque, N. Mex | 52 | 33 | 12 | 3 | _ | 3 |
| Canton, Ohio | 48 | 29 | 11 | 4 | 1 | - | Colorado Springs, Colo. | 28 | 15 | 10 | 2 | _ | 5 |
| Chicago, Ill. | 681 | 399 | 196 | 42 | 23 | 19 | Denver, Colo. | 130 | 84 | 35 | 7 | 1 | 8 |
| Cincinnati, Ohio | 161 | 92 | 50 | 7 | 4 | 7 | Las Vegas, Nev. | 25 | 7 | 11 | 5 | 1 | 1 |
| Cleveland, Ohio | 201 | 116 | 63 | 11 | 5 | 11 | Ogden, Utah | 24 | 13 | 6 | 4 | - | 2 |
| Columbus, Ohio | 133 | 82 | 38 | 5 | 6 | 7 | Phoenix, Ariz. | 137 | 75 | 40 | 8 | 4 | 1 |
| Dayton, Ohio | 106 | 69 | 29 | 3 | 3 | 3 | Pueblo, Colo. | 27 | 20 | 5 | 2 | - | 1 |
| Detroit, Mich | 340 | 198 | 100 | 24 | 6 | 10 | Salt Lake City, Utah | 46 | 25 | 14 | 2 | 2 | 2 |
| Evansville, Ind. | 47 | 33 | 11 | 2 | _ | 1 | Tucson, Ariz. | 91 | 52 | 28 | 3 | 3 | 2 |
| Fort Wayne, Ind. | 73 | 43 | 25 | 1 | 3 | 3 | | | | | | | |
| Gary, Ind. | 36 | 21 | 8 | 2 | 1 1 | 2 | PACIFIC | 1,688 | 1,069 | 396 | 96 | 68 | 50 |
| Grand Rapids, Mich | 42 | 30 | 10 | | 1 | 8 | Berkeley, Calif | 9 | 6 | 2 | - | - | 1 |
| Indianapolis, Ind | 150 | 94 | 34 | 10 | 8 | 2 | Fresno, Calif | 64 | 39 | 13 | 4 | 4 | - |
| Madison, Wis. | 27 | 16 | 2 | 2 | 3 | 2 | Glendale, Calif. | 33 | 27 | 6 | - | - | 1 |
| Milwaukee, Wis. | 116 | 85 | 20 | 7 | 2 | 3 | Honolulu, Hawaii | 57 | 28 | 18 | 2 | 5 | 2 |
| Peoria, III. | 32 | 23 | 4 | 1 | 4 | 1 | Long Beach, Calif. | 108 | 66 | 31 | 4 | 3 | 2 |
| Rockford, Ill. | 46 | 31 | 9 | 2 | 1 | 4 | Los Angeles, Calif. | 561 | 364 | 121 | 39 | 17 | 9 |
| South Bend, Ind | 50 | 33 | 12 | 2 | 1 1 | 3 | Oakland, Calif | 72 | 44 | 20 | 5 | 1 | 1-1 |
| Toledo, Ohio | 114 | 73 | 32 | 2 | 3 | 4 | Pasadena, Calif. | 35 | 24 | 9 | 1 | 1 | - |
| Youngstown, Ohio | 65 | 44 | 16 | 2 | 2 | 2 | Portland, Oreg. | 152 | 92 | 37 | 8 | 13 | 8 |
| | | | | | | | Sacramento, Calif | 54 | 35 | 13 | 2 | 4 | 2 |
| WEST NORTHCENTRAL | 822 | 537 | 203 | 34 | 31 | 31 | San Diego, Calif | 118 | 74 | 26 | 7 | 4 | 3 |
| Des Moines, Iowa | 45 | 32 | 11 | 2 | - | 6 | San Francisco, Calif | 156 | 91 | 45 | 14 | 1 | 7 |
| Duluth, Minn. | 17 | 13 | 3 | 1 | | - | San Jose, Calif. | 47 | 36 | 6 | 3 | | 3 |
| Kansas City, Kans | 34 | 19 | 10 | 3 | | 1 | Seattle, Wash | 133 | 85 | 28 | 3 | 14 | 6 |
| Kansas City, Mo | 125 | 74 | 38 | 7 | 4 | 2 | Spokane, Wash | 52 | 32 | 15 | 2 | 1 | 4 |
| Lincoln, Nebr. | 30 | 27 | 1 | 1 | - | 2 | Tacoma, Wash. | 37 | 26 | 6 | 2 | - | 2 |
| Minneapolis, Minn | 105 | 62 | 28 | 3 | 9 | 4 | | |] | INTX | | | 1000 |
| Omaha, Nebr | 87 | 61 | 16 | 5 | 3 | 4 | | | | | | 1 | |
| St. Louis, Mo | 207 | 132 | 57 | 7 | 6 | 2 | Total | 13,064 | 7,924 | 3,482 | 751 | 446 | 551 |
| | | | | | | 2 | | | | | | I | |
| St. Paul, Minn. | 69 | 51 | 15 | 1 4 | 8 | 8 | Expected Number | 12,592 | 7,427 | 3,437 | 810 | 430 | 477 |

[†]Delayed report for week ending March 23, 1974

MEASLES - Continued

dren (0-4 years). A survey of day-care centers in North Olmsted, Fairview Park, and Westlake showed that only 1 of 353 children attending had had measles. A telephone survey of all private general practitioners and pediatricians in the 3 towns confirmed that few preschoolers had been affected.

Of all affected children age 11 years and older, 28% had a history of measles vaccination; of all affected children aged 10 and younger, 65% had been vaccinated. Vaccine efficacy at 4 affected elementary and junior high schools ranged from 82% to 93%. Preliminary studies suggested that low vaccine efficacy may be attributed to vaccination before 1969 and at less than 12 months of age.

The outbreaks occurred despite high measles vaccination levels recorded for children entering elementary school in 1973 in the 3 most affected communities (91%, 93%, and 95%). Ten percent of North Olmsted Junior High School students had had neither measles vaccine nor disease prior to the outbreak. Attack rates in elementary and junior high schools ranged from 3% to 10%.

(Reported by Francis F. Silver, M.D., Health Commissioner, Cuyahoga County, Ohio; John Kelly, Immunization Representative, Ohio Department of Health; Ray Overton, Project Coordinator, Immunization Program, Ohio Department of Health; John Ackerman, M.D., Deputy Director, Ohio Department of Health; and an EIS Officer.)

Editorial Note

Outbreaks of measles with a large percentage of cases in older children and adolescents have been reported this year from New Jersey and Ohio. The unusual age distribution may be related to several factors: vaccination before 12 months of age if the vaccine was given before 1969, lower vaccination levels in older children who missed mass public vaccination programs, and reduced chance of exposure to natural measles in recent years. The significance of measles in older age groups can be assessed only by accurate surveillance and investigation in other states. It is evident from the Ohio experience that measles outbreaks can be prevented only by having high levels of immunity in all age groups, not just young children.

INTERNATIONAL NOTES FOLLOW-UP ON SYLVATIC YELLOW FEVER — Panama

On February 9, 1974, an 18-year-old man from Maje Arriba was seen at a Panama City hospital with a 7-day history of fever, chills, weakness, headache, myalgia, and hematemesis. He was afebrile, oriented, and hypotensive and had bradycardia on admission; otherwise, physical examination was essentially unremarkable except for slight scleral icterus. Laboratory values included markedly abnormal liver function tests (SGOT 1640, SGPT 1900, Bilirubin 8.3, Prothrombin Time 4.5 minutes) and a white blood cell count of 4,500 (39% neutrophils, 56% lymphocytes); electrolytes and renal function studies were normal. Serial serologic tests (complement fixation, neutralizing antibody, hemagglutination inhibition) showed a rising titer to yellow fever. Liver biopsy on February 15 showed focal areas of mid-zonal regeneration and Councilman bodies. During the next 2 weeks the patient improved; on February 27 liver function tests were normal.

On February 16, a 36-year-old man from Las Piraguas was admitted to a Panama City hospital with a 5-day history of bloody diarrhea, vomiting, fever, and abdominal pain. He came to the hospital because a co-worker who had developed similar symptoms on February 9 and had not sought medical attention died on February 14. On admission the patient was febrile but normotensive; physical examination was otherwise unremarkable. Two days later he became disoriented and developed scleral icterus and a hemorrhagic diathesis. Laboratory values showed: marked renal disfunction (BUN 120, creatinine 9.2); SGOT 60, SGPT 38; partial thromboplastin time 75 seconds; platelets 33,000/mm³; and white blood cell count 3,700, (neutrophils 83%, lymphocytes 15%, monocytes 2%). Urine volume and blood pressure dropped during the night of February 18, and the patient died on February 19. At autopsy massive liver necrosis with Councilman bodies was found. Yellow fever virus was subsequently isolated from blood obtained on February 17 and 18.

The patients were from the Chepo District east of the Canal in a jungle area of Panama, and they had been working in the jungle, clearing land and cutting lumber. During the last year thousands of people have moved into the previously sparsely populated Bayano River Basin as a result of construction of a hydroelectric dam, extension of the Pan-Ameri-

can Highway, and lumbering activities in the previously inaccessible Chepo area.

Retrospective review of hospital records in Panama City revealed 3 additional highly suspect cases of "hepatitis," in residents of the Chepo District who were admitted to the hospital in late January. Of these, 1 had died, another had high complement fixation titers for both yellow fever and St. Louis encephalitis virus and liver cell regeneration on biopsy, and no information was available on the third. Serologic surveys are being conducted in Chepo, and even though results are incomplete, some specimens have shown complement-fixing yellow fever antibodies at levels of ≥1:64. In 1 survey of a housing cluster in the Ipeti area, 10 of 30 persons had had recent illnesses suggestive of yellow fever; results of serologic tests on this group are pending.

Physicians, vaccination and survey teams, and malaria workers have been instructed to ask about hepatitis-like illness and deaths. A clinic has been established on the road into Chepo to screen patients and give yellow fever vaccinations. Surveillance of mosquito and monkey populations has been established. A voluntary campaign initiated on February 22, for administering 17D vaccine at existing health facilities had, as of March 7, given 372,000 doses; of these, 17,660 were given in Chepo (population 21,000). Vaccination is compulsory at the 3 Chepo access points (airport, seaport, road).

Aedes aegypti control activities have been intensified in Panama City, where the infestation rate is less than 0.5%; foci are confined to the central sections of the city.

Jungle yellow fever, involving transmission of the virus from monkey to man by *Haemagogus* mosquitoes, was first recognized in Panama in 1948. In the period 1948-1954, human cases were also reported in Costa Rica, Nicaragua, and Honduras. The virus was detected in Eastern Panama in 1957 and again in 1965; in the latter instance the virus was found only in the Darien Province.

(Reported by Abraham Saiad, M.D., Minister of Health, Panama; Pedro Galindo, M.D., Deputy Director, Gorgas Memorial Institute – Gorgas Memorial Laboratory, Karl Johnson, M.D., Director, Gorgas Memorial Institute – Middle America Research Unit; and the Bureau of Tropical Diseases, CDC.)

CURRENT TRENDS SURVEILLANCE OF INFLUENZA — United States

Localized outbreaks of influenza have continued to occur in the last 2 weeks of March on the East and the West Coast. School absenteeism ranging from 40% to 70% was reported from the Echo, Oregon, area, where influenza-B virus has been isolated. An increase in school absenteeism in the 15% to 25% range associated with influenza-like disease has also been reported in Massachusetts, Rhode Island, and eastern New York State. Localized outbreaks of influenza-like disease associated with influenza-A isolates have also been reported in Nassau County and Albany, New York; Cleveland, Ohio; and Newark, New Jersey.

In March, Puerto Rico experienced its first reported outbreak of influenza-like disease; in the Mayaguez area, absenteeism reached 20% in the La Milagrossa School. Symptoms included sore throat, fever, headache, cough, chills, and myalgias. Nausea and vomiting were found in 30% and diarrhea in 5% of the cases. Secondary spread within families occurred with 56% of the cases. No increase in industrial absenteeism or reported influenza-like illness has occurred in other areas of the island.

No sustained nationwide excess mortality from pneumonia and influenza has occurred during this influenza season through March.

(Reported by Nicholas J. Fiumara, M.D., State Epidemiologist, Massachusetts Dept. of Public Health; Ronald Altman, M.D., State Epidemiologist, New Jersey Dept. of Health; Alan R. Hinman, M.D., Asst. Commissioner for Epidemiology and Preventive Health Services, New York State Dept. of Health; John H. Ackerman, M.D., State Epidemiologist, Ohio Dept. of Health; Tamara M. Vega, M.D., County Health Officer, Umatillo (Oregon) County, and John A. Googins, M.D., State Epidemiologist, Oregon Dept. of Human Resources; James R. Allen, M.D., State Epidemiologist, Rhode Island Dept. of Health; Puerto Rico Health Dept.; Diaz Martinez, M.D., Director of Preventive Medicine, West Region, San Juan Tropical Disease Laboratory; and the Viral Diseases Division, Bureau of Epidemiology, CDC, the International Influenza Center for the Americas.)

The Morbidity and Mortality Weekly Report, circulation 36,000, is published by the Center for Disease Control, Atlanta, Ga.

Director, Center for Disezse Control Director, Bureau of Epidemiology, CDC Editor, MMWR Managing Editor, MMWR

David J. Sencer, M.D. Philip S. Brachman, M.D. Michael B. Gregg, M.D. Deborah L. Jones, B.S.

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

In addition to the established procedures for reporting morbidity and mortality, the editor welcomes accounts of interesting outbreaks or case investigations of current interest to health officials.

Address all correspondence to:

Center for Disease Control Attn: Editor Morbidity and Mortality Weekly Report Atlanta, Georgia 30333

DHEW Publication No. (CDC) 74-8017

U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE PUBLIC HEALTH SERVICE CENTER FOR DISEASE CONTROL ATLANTA, GEORGIA 30333

OFFICIAL BUSINESS

POSTAGE AND FEES PAID U.S. DEPARTMENT OF HEW HEW 399



