CENTER FOR DISEASE CONTROL

# Morbidity and Mortality

Vol. 23, No. 33

WEEKLY REPORT

For Week Ending August 17, 1974

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

DATE OF RELEASE: AUGUST 23, 1974 – ATLANTA, GEORGIA 30333



## EPIDEMIOLOGIC NOTES AND REPORTS

### INTRODUCED MALARIA – California

Five cases of malaria, caused by *Plasmodium vivax* and related epidemiologically, have recently been reported to CDC from California and are summarized below. A sixth case, possibly related to the other 5, is also recorded.

Case 1

On May 14, 1974, a 14-year-old boy was seen by a private physician in Yuba City, Sutter County, California, for an 11-day history of fever, chills, and sweats. On physical examination his spleen was firm and enlarged. *P. vivax* were seen on blood smear. He was treated with quinacrine and primaquine and is now asymptomatic, his spleen is still slightly enlarged. Results of indirect fluorescent antibody (IFA) tests on this patient and his family are pending.

CONTENTS



The boy had emigrated to the United States from Punjab State, India, arriving in San Francisco on April 21, 1974; he stayed in San José for 1 week before joining his family on April 28 in a rural area near Gridley, Butte County, California. One year earlier, while in India, he had had an illness charac-

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

| DISEASE | 33rd WEEK ENDING | | MEDIAN 1969-1973 | CUMULATIVE, FIRST 33 WEEKS | | |
|---|---|---|---|---|---|---|
| | August 17, 1974 | August 18, 1973 | | 1974 | 1973 | MEDIAN 1969-1973 |
| Aseptic meningitis | 122 | 228 | 228 | 1,626 | 2,270 | 2,196 |
| Brucellosis | 2 | 6 | 5 | 101 | 126 | 126 |
| Chickenpox | 367 | 308 | – – – | 98,641 | 144,256 | – – – |
| Diphtheria | 2 | 4 | 4 | 162 | 118 | 101 |
| Encephalitis: | | | | | | |
| Primary: Arthropod-borne and unspecified | 15 | 39 | 44 | 545 | 813 | 813 |
| Post-Infectious | 2 | 5 | 7 | 174 | 198 | 221 |
| Hepatitis, Viral: | | | | | | |
| Type B | 180 | 187 | 162 | 5,994 | 5,048 | 5,041 |
| Type A | 698 | 894 | 931 | 26,833 | 31,983 | 34,902 |
| Type unspecified | 177 | | | 5,314 | | |
| Malaria | 4 | 4 | 37 | 122 | 151 | 1,735 |
| Measles (rubeola) | 68 | 89 | 186 | 19,472 | 23,787 | 26,480 |
| Meningococcal infections, total | 11 | 12 | 29 | 922 | 998 | 1,684 |
| Civilian | 11 | 12 | 29 | 897 | 974 | 1,496 |
| Military | – | – | – | 25 | 24 | 183 |
| Mumps | 278 | 381 | 524 | 43,511 | 54,298 | 66,485 |
| Pertussis | 41 | – – – | – – – | 986 | – – – | – – – |
| Rubella (German measles) | 89 | 117 | 213 | 9,400 | 25,686 | 37,748 |
| Tetanus | 5 | 3 | 3 | 54 | 52 | 73 |
| Tuberculosis, new active | 650 | 506 | – – – | 19,560 | 20,037 | – – – |
| Tularemia | 2 | 6 | 3 | 91 | 104 | 90 |
| Typhoid fever | 8 | 6 | 6 | 236 | 442 | 193 |
| Typhus, tick-borne (Rky. Mt. spotted fever) | 23 | 27 | 25 | 566 | 466 | 324 |
| Venereal Diseases: | | | | | | |
| Gonorrhea | 21,593 | 18,625 | – – – | 55,675 | 509,854 | – – – |
| Syphilis, primary and secondary | 505 | 481 | – – – | 15,432 | 15,523 | – – – |
| Rabies in animals | 71 | 73 | 73 | 1,875 | 2,376 | 2,376 |

TABLE II. NOTIFIABLE DISEASES OF LOW FREQUENCY

| | Cum. | | Cum. |
|---|---|---|---|
| Anthrax: | 2 | Poliomyelitis, total: | 3 |
| Botulism: | 9 | Paralytic: | 3 |
| Congenital rubella syndrome: N.Y. Ups. 1 | 37 | Psittacosis: | 76 |
| Leprosy: D.C. 1, Texas 1, Hawaii 1 | 68 | Rabies in man: | – |
| Leptospirosis: | 25 | Trichinosis: Conn. 1 | 65 |
| Plague: | 1 | Typhus, murine: Texas 1 | 15 |

MALARIA – Continued

terized by fever every other day; he was treated with an unknown medication for a few days and became asymptomatic. Prior to the onset of his recent illness he had visited on several occasions in a home less than 1/2 mile from the home of Case 3.

Case 2

On June 26, 1974, a 52-year-old man from northwestern Yuba County was admitted to a hospital in Yuba City with a 6-day history of fever, chills, eye pains, headache, and myalgia. Physical examination on admission revealed a temperature of 106°F. and no palpable spleen. *P. vivax* were seen on a blood smear. IFA titer was 1:256 for *P. vivax* and negative for *Plasmodium falciparum* and *Plasmodium malariae.* Treatment with chloroquine and primaquine resulted in recovery.

In 1943, while in North Africa, the man had been treated for malaria. He has not been outside the United States since 1949 and gave no history of blood transfusion or illicit drug use. He lives on a ranch in a rural area north of Marysville, California, near the Feather River and rice fields where mosquitoes, including *Anopheles freeborni*, are abundant. Also, he operates an earth leveling business and travels over a 3-county area.

Case 3

On July 8, 1974, an 11-year-old boy was admitted to a hospital in Yuba City with a 4-day history of vomiting, headache, and fever. *P. vivax* were seen on a blood smear. His spleen was recorded as questionably enlarged. He was treated with chloroquine and primaquine and became asymptomatic. He and his family had no history of malaria, and all family members had IFA titers negative for *P. vivax.* In December 1973, the boy emigrated from Punjab State, India, and now lives in a rural area west of Yuba City, within 1/4 mile of the home that Case 1 visited prior to his illness.

Case 4

On August 7, 1974, a 51-year-old woman was admitted to a hospital in Yuba City with a 6-day history of fever, chills, myalgia, sweats, diarrhea, and weight loss. Her spleen was not enlarged. *P. vivax* were seen on a blood smear. She was treated with amadiaquine and primaquine and has recovered. She has not been out of the country since 1942 and has received no blood transfusions. She lives less than 1 mile from Case 2 and in the 4-week period preceding her illness did not travel outside the area, other than to Marysville and Yuba City.

Case 5

On August 9, 1974, an 8-year-old boy, who had emigrated from León,Guanajuato State, Mexico, 1 and 1/2 months previously, was admitted to a Yuba City hospital with fever, chills, and myalgia of 8 days' duration. On admission he was afebrile and had no organomegaly. A peripheral blood smear was positive for *P. vivax.* Therapy was begun with chloroquine and primaquine, and he soon became asymptomatic. Results of IFA tests on the patient and his immediate family are pending.

There was no apparent history of malaria in the patient or his family. His father is a peach picker and on July 22, 23, and 24 (the 8th, 9th, and 10th days prior to the boy's illness) had taken the patient to work with him on a ranch less than 1 mile from the homes of Cases 2 and 4.

Case 6

A sixth case of malaria, possibly related to the other 5, was reported from Crockett, Contra Costa County, about 100 miles from the Sutter-Yuba area. On July 7, 1974, a 22-year-old sugar refinery worker, who had been ill for 2 days, was treated for *P. vivax* malaria, diagnosed by a peripheral blood smear. His spleen was not noted to be enlarged.

In 1971, he had emigrated from Punjab State, India, to the United States and from July to September 1973 had returned for a visit. He did not become ill while there, but he reported that there was malaria in the area and that some of the people he visited were ill. Also, he traveled to the Sutter-Yuba area 5 or 6 times between his return and the onset of his illness.

*(Reported by William J. Vasquez, M.D., E. A. Hanson, M.D., Lester Fuller, M.D., and Jerry F. Toller, M.D., Private Physicians; Thomas Leavenworth, M.D., Director, Sutter County General Hospital; Rae C. Lindsay, Health Officer, Sutter-Yuba Health Department; Eugene Kaufman, Manager, Sutter-Yuba Mosquito Abatement District; Ralph Erlingheuser, M.D., Health Officer, Yuba County; Ronald Roberto, M.D., Medical Epidemiologist, Mitchell Singal, M.D., Medical Epidemiologist, and Cathy Powers, Senior Microbiologist, Microbial Diseases Laboratory, California State Department of Health; and 2 EIS Officers.)*

Editorial Note

This is the eleventh outbreak of introduced malaria in the United States that has been reported to CDC since 1952. *P. vivax* has been the species identified in all of these cases.

One large outbreak of mosquito-transmitted malaria involving 35 cases occurred in California in 1952. The index case and probable source of infection at that time was a returning veteran of the Korean War. In 1956 and 1957 (also in the Sutter-Yuba area), 2 small outbreaks occurred in California involving mosquito-transmitted malaria with Mexican laborers as the probable sources of infection.

The index case in this outbreak and the large community of recent Punjab immigrants in the immediate area make this group a prime suspect as a source of infection. However, there is a mobile Mexican laborer population in the community which also could represent a source of infection. An active surveillance and case detection program is currently being conducted in the community. *Anopheles freeborni* mosquitoes have been trapped and identified in this region, but to date no parasites have been identified within these mosquitoes. An active mosquito trapping and adulticide program is currently being carried out by the Sutter-Yuba and Butte County Mosquito Abatement District.

## FOLLOW-UP ON ANTHRAX – Texas, Oklahoma

Texas

A laboratory-confirmed bovine anthrax death occurred in eastern Falls County, Texas, on June 25, 1974 (MMWR, Vol. 23, No. 28). During the ensuing 5-week period, livestock owners reported an estimated 260 animal deaths in Falls County. *Bacillus anthracis* (gamma-phage positive) was isolated from 35 animals which had died, including 32 cattle,

*(Continued on page 291)*

## TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES FOR WEEKS ENDING AUGUST 17, 1974 AND AUGUST 18, 1973 (33rd WEEK)

| AREA | ASEPTIC MENINGITIS | BRUCELLOSIS | CHICKENPOX | DIPHTHERIA | | ENCEPHALITIS | | | HEPATITIS, VIRAL | | | MALARIA | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Primary: Arthropod-borne and Unspecified | | Post Infectious | Type B | Type A | Type Unspecified | | |
| | 1974 | 1974 | 1974 | 1974 | Cum. 1974 | 1974 | 1973 | 1974 | 1974 | 1974 | 1974 | 1974 | Cum. 1974 |
| UNITED STATES | 122 | 2 | 367 | 2 | 162 | 15 | 39 | 2 | 180 | 698 | 177 | 4 | 122 |
| NEW ENGLAND | 5 | – | 48 | – | – | – | 1 | – | 3 | 29 | 21 | – | 6 |
| Maine | – | – | – | – | – | – | – | – | 2 | – | 6 | – | – |
| New Hampshire * | – | – | – | – | – | – | – | – | – | 2 | – | – | – |
| Vermont | – | – | – | – | – | – | – | – | – | 1 | – | – | – |
| Massachusetts | 3 | – | 25 | – | – | – | 1 | – | – | 9 | 15 | – | 2 |
| Rhode Island | 2 | – | 12 | – | – | – | – | – | 1 | 10 | – | – | 3 |
| Connecticut | – | – | 11 | – | – | – | – | – | – | 7 | – | – | 1 |
| MIDDLE ATLANTIC | 14 | – | 57 | – | 1 | 2 | 7 | 1 | 29 | 74 | 30 | 1 | 17 |
| Upstate New York | 1 | – | 11 | – | – | 1 | 1 | 1 | 1 | 13 | 2 | – | 4 |
| New York City | 1 | – | 46 | – | – | – | – | – | 7 | 8 | – | 1 | 7 |
| New Jersey | 9 | – | – | – | – | – | – | – | 10 | 18 | 23 | – | 3 |
| Pennsylvania | 3 | – | – | – | 1 | 1 | 6 | – | 11 | 35 | 5 | – | 3 |
| EAST NORTH CENTRAL | 10 | – | 121 | – | 2 | 5 | 7 | – | 26 | 109 | 6 | – | 11 |
| Ohio | – | – | 33 | – | 1 | 1 | 3 | – | 8 | 19 | – | – | 4 |
| Indiana | – | – | 11 | – | – | – | – | – | 1 | 17 | – | – | – |
| Illinois | – | – | – | – | 1 | 2 | 1 | – | 6 | 9 | 2 | – | 2 |
| Michigan | 10 | – | 42 | – | – | 2 | 3 | – | 8 | 48 | 4 | – | 4 |
| Wisconsin | – | – | 35 | – | – | – | – | – | 3 | 16 | – | – | 1 |
| WEST NORTH CENTRAL | 14 | 1 | 12 | – | – | 4 | – | – | 17 | 32 | 23 | – | 3 |
| Minnesota | 2 | – | 2 | – | – | – | – | – | 9 | 3 | – | – | 1 |
| Iowa | 12 | 1 | 7 | – | – | 2 | – | – | 2 | – | – | – | – |
| Missouri | – | – | – | – | – | 2 | – | – | 3 | 7 | 22 | – | 1 |
| North Dakota | – | – | 1 | – | – | – | – | – | – | 2 | – | – | – |
| South Dakota | – | – | – | – | – | – | – | – | – | 6 | – | – | 1 |
| Nebraska | – | – | – | – | – | – | – | – | – | 2 | 1 | – | – |
| Kansas | – | – | 2 | – | – | – | – | – | 3 | 12 | – | – | – |
| SOUTH ATLANTIC | 9 | – | 54 | – | 1 | – | 9 | – | 17 | 147 | 34 | – | 21 |
| Delaware | – | – | – | – | – | – | – | – | – | 2 | – | – | – |
| Maryland | – | – | 10 | – | – | – | 2 | – | 2 | 6 | 2 | – | 3 |
| District of Columbia | – | – | – | – | – | – | – | – | 2 | – | – | – | 2 |
| Virginia | 4 | – | 10 | – | – | – | – | – | 1 | 8 | 5 | – | 6 |
| West Virginia | – | – | 34 | – | – | – | 2 | – | – | 1 | – | – | – |
| North Carolina | 1 | – | NN | – | 1 | – | – | – | 6 | 18 | 16 | – | 4 |
| South Carolina | – | – | – | – | – | – | 3 | – | – | 6 | – | – | – |
| Georgia | – | – | – | – | – | – | – | – | – | 19 | – | – | 1 |
| Florida | 4 | – | – | – | – | – | 2 | – | 6 | 87 | 11 | – | 5 |
| EAST SOUTH CENTRAL | 8 | – | 4 | – | – | 2 | 2 | 1 | 6 | 39 | – | – | 4 |
| Kentucky * | 2 | – | 2 | – | – | – | – | – | – | – | – | – | 3 |
| Tennessee | 4 | – | NN | – | – | 2 | – | – | 5 | 35 | – | – | 1 |
| Alabama | 1 | – | 2 | – | – | – | 2 | 1 | – | 3 | – | – | – |
| Mississippi | 1 | – | – | – | – | – | – | – | 1 | 1 | – | – | – |
| WEST SOUTH CENTRAL | 14 | – | 18 | – | 9 | – | 2 | – | 26 | 88 | 8 | – | 10 |
| Arkansas | – | – | 6 | – | – | – | – | – | – | 5 | 2 | – | 1 |
| Louisiana * | 14 | – | NN | – | – | – | – | – | – | 14 | 2 | – | 1 |
| Oklahoma * | – | – | 2 | – | – | – | 1 | – | 3 | 8 | 4 | – | 3 |
| Texas | – | – | 10 | – | 9 | – | 1 | – | 23 | 61 | – | – | 5 |
| MOUNTAIN | – | – | 20 | – | 28 | – | 1 | – | 4 | 27 | 16 | – | 6 |
| Montana | --- | --- | --- | --- | – | --- | 1 | --- | --- | --- | --- | --- | – |
| Idaho | – | – | – | – | – | – | – | – | – | 3 | – | – | – |
| Wyoming | – | – | – | – | – | – | – | – | – | 1 | – | – | – |
| Colorado | – | – | 8 | – | – | – | – | – | – | – | 7 | – | 4 |
| New Mexico | – | – | 12 | – | 10 | – | – | – | 1 | 8 | – | – | 1 |
| Arizona | – | – | – | – | 18 | – | – | – | 1 | 8 | 6 | – | – |
| Utah | – | – | – | – | – | – | – | – | 2 | 2 | 3 | – | – |
| Nevada | – | – | – | – | – | – | – | – | – | 5 | – | – | 1 |
| PACIFIC | 48 | 1 | 33 | 2 | 121 | 2 | 10 | – | 52 | 153 | 39 | 3 | 44 |
| Washington | – | – | 23 | 2 | 112 | – | – | – | 1 | 16 | 19 | – | – |
| Oregon | – | – | 3 | – | – | – | – | – | 4 | 21 | 3 | – | 1 |
| California | 47 | 1 | – | – | 5 | 2 | 10 | – | 47 | 111 | 17 | 3 | 42 |
| Alaska | – | – | 1 | – | 4 | – | – | – | – | 5 | – | – | – |
| Hawaii | 1 | – | 6 | – | – | – | – | – | – | – | – | – | 1 |
| Guam * | – | – | – | – | – | – | – | – | – | – | – | – | 2 |
| Puerto Rico | – | – | 3 | – | – | – | – | – | – | – | 4 | – | 1 |
| Virgin Islands | --- | --- | --- | --- | – | --- | – | --- | --- | --- | --- | --- | – |

*Delayed reports: Brucellosis: Okla. delete 1
Encephalitis, primary: Guam 1
Hepatitis B: La. delete 1
Hepatitis A: N.H. 1, Ky. delete 1, Guam 2
Hepatitis unspecified: Ky. delete 1, Guam 10

## TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES FOR WEEKS ENDING AUGUST 17, 1974 AND AUGUST 18, 1973 (33rd WEEK) – Continued

| AREA | MEASLES (Rubeola) | | | MENINGOCOCCAL INFECTIONS, TOTAL | | | MUMPS | | PERTUSSIS | RUBELLA | | TETANUS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1974 | Cumulative | | 1974 | Cumulative | | 1974 | Cum. 1974 | 1974 | 1974 | Cum. 1974 | Cum. 1974 |
| | | 1974 | 1973 | | 1974 | 1973 | | | | | | |
| UNITED STATES | 68 | 19,472 | 23,787 | 11 | 922 | 998 | 278 | 43,511 | 41 | 89 | 9,400 | 54 |
| NEW ENGLAND | 5 | 905 | 7,335 | – | 50 | 46 | 15 | 5,807 | 2 | 9 | 940 | 1 |
| Maine | – | 41 | 64 | – | 2 | 1 | – | 783 | – | 4 | 269 | – |
| New Hampshire | – | 197 | 857 | – | 12 | 6 | 1 | 277 | – | – | 16 | 1 |
| Vermont | – | 57 | 118 | – | 2 | 3 | – | 28 | – | – | 18 | – |
| Massachusetts * | 5 | 379 | 3,896 | – | 14 | 12 | 3 | 946 | – | 3 | 328 | – |
| Rhode Island | – | 59 | 603 | – | 7 | 3 | 7 | 2,361 | – | 1 | 19 | – |
| Connecticut | – | 172 | 1,797 | – | 13 | 21 | 4 | 1,412 | 2 | 1 | 290 | – |
| MIDDLE ATLANTIC | 22 | 7,912 | 2,402 | 5 | 134 | 133 | 27 | 3,494 | – | 10 | 1,026 | 5 |
| Upstate New York | 8 | 910 | 789 | 2 | 53 | 46 | 6 | 849 | – | 3 | 231 | 2 |
| New York City | – | 561 | 879 | 3 | 24 | 27 | 11 | 599 | – | 5 | 139 | 1 |
| New Jersey * | 5 | 5,505 | 389 | – | 42 | 32 | 3 | 652 | – | – | 433 | 1 |
| Pennsylvania | 9 | 936 | 345 | – | 15 | 28 | 7 | 1,394 | – | 2 | 223 | 1 |
| EAST NORTH CENTRAL | 23 | 7,523 | 8,387 | – | 105 | 124 | 92 | 12,511 | 12 | 28 | 3,109 | 9 |
| Ohio | 2 | 3,021 | 278 | – | 36 | 54 | 21 | 3,092 | – | 1 | 487 | 2 |
| Indiana | 3 | 218 | 619 | – | 9 | 4 | 5 | 969 | – | 9 | 516 | – |
| Illinois | 6 | 1,943 | 2,023 | – | 10 | 24 | 7 | 1,082 | 3 | – | 494 | 3 |
| Michigan | 2 | 1,893 | 4,336 | – | 34 | 37 | 42 | 5,357 | 5 | 10 | 1,163 | 3 |
| Wisconsin | 10 | 448 | 1,131 | – | 16 | 5 | 17 | 2,011 | 4 | 8 | 449 | 1 |
| WEST NORTH CENTRAL | – | 685 | 436 | – | 71 | 78 | 16 | 2,656 | 2 | 1 | 208 | 9 |
| Minnesota | – | 83 | 19 | – | 22 | 7 | 4 | 40 | – | – | 11 | 1 |
| Iowa | – | 134 | 277 | – | 13 | 18 | 2 | 1,616 | – | – | 15 | – |
| Missouri | – | 261 | 49 | – | 18 | 32 | 4 | 375 | 2 | 1 | 34 | 2 |
| North Dakota | – | 28 | 58 | – | 3 | 3 | 1 | 29 | – | – | 11 | 3 |
| South Dakota | – | 27 | – | – | 3 | 4 | – | 2 | – | – | 25 | – |
| Nebraska | – | 2 | 6 | – | 3 | 7 | 1 | 78 | – | – | 6 | – |
| Kansas | – | 150 | 27 | – | 9 | 7 | 4 | 516 | – | – | 106 | 3 |
| SOUTH ATLANTIC | 4 | 480 | 1,190 | 1 | 184 | 168 | 48 | 5,184 | 10 | 10 | 1,047 | 12 |
| Delaware | – | 7 | 8 | – | 3 | 1 | – | 89 | – | – | 27 | – |
| Maryland | – | 22 | 12 | – | 18 | 22 | 5 | 102 | – | 2 | 4 | – |
| District of Columbia | – | 3 | 5 | – | 1 | 4 | – | 49 | – | – | 4 | – |
| Virginia | 1 | 22 | 414 | – | 29 | 30 | 29 | 558 | 2 | 1 | 40 | 3 |
| West Virginia | 3 | 157 | 196 | – | 7 | 4 | 6 | 2,884 | – | 5 | 187 | – |
| North Carolina | – | 5 | 4 | – | 40 | 36 | NN | NN | 8 | – | 53 | 3 |
| South Carolina | – | 48 | 58 | – | 16 | 11 | – | 109 | – | – | 578 | 1 |
| Georgia | – | 4 | 149 | – | 8 | 21 | – | 1 | – | – | 2 | – |
| Florida | – | 212 | 344 | 1 | 62 | 39 | 8 | 1,392 | – | 2 | 152 | 5 |
| EAST SOUTH CENTRAL | 1 | 203 | 594 | 1 | 97 | 91 | 29 | 5,458 | 2 | 15 | 510 | 2 |
| Kentucky | 1 | 139 | 366 | – | 38 | 32 | 5 | 2,196 | 1 | 8 | 181 | – |
| Tennessee | – | 34 | 165 | 1 | 44 | 37 | 20 | 2,399 | 1 | 7 | 257 | 1 |
| Alabama | – | 17 | 9 | – | 9 | 15 | 4 | 493 | – | – | 57 | – |
| Mississippi * | – | 13 | 54 | – | 6 | 7 | – | 370 | – | – | 15 | 1 |
| WEST SOUTH CENTRAL | 4 | 180 | 645 | 2 | 155 | 156 | 17 | 3,040 | 2 | 6 | 311 | 5 |
| Arkansas | – | 6 | 69 | – | 11 | 13 | 2 | 127 | – | – | 8 | – |
| Louisiana * | – | 13 | 84 | – | 32 | 33 | 2 | 201 | – | – | 58 | 3 |
| Oklahoma | – | 24 | 52 | 1 | 17 | 27 | 4 | 360 | – | 3 | 41 | – |
| Texas | 4 | 137 | 440 | 1 | 95 | 83 | 9 | 2,352 | 2 | 3 | 204 | 2 |
| MOUNTAIN | 1 | 725 | 587 | – | 28 | 32 | 8 | 1,025 | – | 2 | 394 | – |
| Montana | --- | 372 | 16 | --- | 1 | 6 | --- | 171 | --- | --- | 65 | – |
| Idaho | 1 | 51 | 252 | – | 2 | 4 | – | 156 | – | – | 13 | – |
| Wyoming | – | 1 | 80 | – | 3 | – | – | 9 | – | – | – | – |
| Colorado | – | 30 | 103 | – | 7 | 11 | 6 | 496 | – | – | 158 | – |
| New Mexico | – | 54 | 114 | – | 2 | 3 | 2 | 170 | – | – | 109 | – |
| Arizona | – | 15 | 19 | – | 4 | 4 | – | – | – | – | – | – |
| Utah | – | 3 | 2 | – | 6 | 2 | – | 19 | – | 2 | 16 | – |
| Nevada | – | 199 | 1 | – | 3 | 2 | – | 4 | – | – | 33 | – |
| PACIFIC | 8 | 859 | 2,211 | 2 | 98 | 170 | 26 | 4,336 | 11 | 8 | 1,855 | 11 |
| Washington | – | 62 | 1,008 | 1 | 11 | 17 | – | 1,522 | – | 1 | 332 | 1 |
| Oregon | – | – | 454 | 1 | 12 | 12 | 6 | 751 | 1 | 2 | 203 | 1 |
| California | 7 | 736 | 665 | – | 69 | 135 | 18 | 1,910 | 10 | 3 | 1,303 | 9 |
| Alaska | – | – | 65 | – | 3 | 6 | 1 | 97 | – | – | – | – |
| Hawaii | 1 | 61 | 19 | – | 3 | – | 1 | 56 | – | 2 | 17 | – |
| Guam * | – | 14 | 48 | – | 1 | – | – | 349 | – | – | 5 | – |
| Puerto Rico | 4 | 565 | 1,757 | 1 | 6 | 8 | 17 | 879 | – | – | 28 | 3 |
| Virgin Islands | --- | 24 | – | --- | – | – | --- | 30 | --- | --- | – | 1 |

*Delayed reports: Measles: Mass. delete 1, Guam 1
Pertussis: N.J. 5, Miss. 25
Rubella: La. delete 1

## TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES FOR WEEKS ENDING AUGUST 17, 1974 AND AUGUST 18, 1973 (33rd WEEK) – Continued

| AREA | TUBERCULOSIS (New Active) | | TULAREMIA | TYPHOID FEVER | | TYPHUS-FEVER TICK-BORNE (Rky. Mt. spotted fever) | | VENEREAL DISEASES | | | | | | RABIES IN ANIMALS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | GONORRHEA | | | SYPHILIS (Pri. & Sec.) | | | |
| | 1974 | Cum. 1974 | Cum. 1974 | 1974 | Cum. 1974 | 1974 | Cum. 1974 | 1974 | Cumulative 1974 | Cumulative 1973 | 1974 | Cumulative 1974 | Cumulative 1973 | Cum. 1974 |
| UNITED STATES | 650 | 19,560 | 91 | 8 | 236 | 23 | 566 | 21,593 | 555,675 | 509,854 | 505 | 15,432 | 15,523 | 1,875 |
| NEW ENGLAND | 28 | 794 | – | – | 7 | – | 7 | 544 | 13,469 | 14,195 | 2 | 314 | 451 | 11 |
| Maine | 2 | 65 | – | – | – | – | – | 49 | 1,206 | 806 | – | 24 | 20 | 1 |
| New Hampshire | – | 19 | – | – | 1 | – | – | 17 | 467 | 486 | – | 9 | 5 | 2 |
| Vermont | 1 | 17 | – | – | – | – | – | 11 | 395 | 215 | – | 2 | 13 | 1 |
| Massachusetts | 13 | 428 | – | – | 3 | – | 5 | 176 | 5,559 | 6,856 | 1 | 127 | 208 | 4 |
| Rhode Island | 5 | 73 | – | – | 2 | – | 2 | 55 | 1,295 | 1,448 | – | 11 | 10 | 3 |
| Connecticut | 7 | 192 | – | – | 1 | – | – | 236 | 4,547 | 4,384 | 1 | 141 | 195 | – |
| MIDDLE ATLANTIC | 126 | 3,509 | 2 | – | 33 | 4 | 52 | 2,603 | 67,402 | 72,174 | 110 | 3,417 | 3,598 | 39 |
| Upstate New York | 40 | 499 | 2 | – | 6 | 4 | 26 | 622 | 12,680 | 12,806 | 3 | 322 | 227 | 15 |
| New York City | 43 | 1,350 | – | – | 21 | – | 1 | 1,044 | 29,494 | 33,622 | 61 | 1,978 | 2,226 | – |
| New Jersey * | 17 | 664 | – | – | 5 | – | 3 | 359 | 9,223 | 10,164 | 27 | 545 | 626 | 13 |
| Pennsylvania | 26 | 996 | – | – | 1 | – | 22 | 578 | 16,005 | 15,582 | 19 | 572 | 519 | 11 |
| EAST NORTH CENTRAL | 99 | 2,661 | 5 | – | 20 | 3 | 18 | 4,990 | 80,954 | 59,888 | 83 | 1,130 | 842 | 140 |
| Ohio * | 25 | 738 | – | – | 5 | 3 | 11 | 1,010 | 23,667 | 19,428 | 9 | 183 | 173 | 26 |
| Indiana | 14 | 385 | – | – | 1 | – | 1 | 394 | 8,384 | 7,233 | 9 | 126 | 191 | 11 |
| Illinois | 27 | 762 | 3 | – | 7 | – | 6 | 2,600 | 20,550 | 8,590 | 63 | 487 | 121 | 24 |
| Michigan | 30 | 706 | – | – | 6 | – | – | 716 | 19,654 | 18,380 | 1 | 265 | 308 | 1 |
| Wisconsin | 3 | 70 | 2 | – | 1 | – | – | 270 | 8,699 | 6,257 | 1 | 69 | 49 | 78 |
| WEST NORTH CENTRAL | 24 | 723 | 16 | – | 7 | 1 | 6 | 1,305 | 29,155 | 27,876 | 11 | 380 | 232 | 513 |
| Minnesota | 3 | 121 | – | – | 3 | – | – | 337 | 6,857 | 5,758 | 1 | 52 | 69 | 176 |
| Iowa | 6 | 80 | – | – | 1 | – | 1 | 177 | 3,706 | 3,705 | 1 | 24 | 57 | 91 |
| Missouri | 5 | 344 | 11 | – | 1 | 1 | 4 | 432 | 9,257 | 9,393 | 7 | 257 | 82 | 23 |
| North Dakota | – | 17 | 2 | – | – | – | – | 21 | 434 | 425 | – | 3 | 1 | 86 |
| South Dakota | – | 37 | 3 | – | – | – | – | 38 | 1,379 | 1,409 | – | 2 | 4 | 91 |
| Nebraska | – | 31 | – | – | – | – | – | 84 | 2,447 | 2,835 | – | 8 | 3 | 4 |
| Kansas | 10 | 93 | – | – | 2 | – | 1 | 216 | 5,075 | 4,351 | 2 | 34 | 16 | 42 |
| SOUTH ATLANTIC | 135 | 4,126 | 8 | – | 31 | 10 | 324 | 5,699 | 142,802 | 127,695 | 158 | 4,957 | 4,559 | 236 |
| Delaware | 1 | 63 | – | – | – | 1 | 9 | 59 | 1,918 | 1,801 | 1 | 52 | 63 | 1 |
| Maryland | 20 | 538 | – | – | 2 | – | 39 | 417 | 14,780 | 10,873 | 4 | 485 | 469 | 18 |
| District of Columbia | 6 | 250 | – | – | 1 | – | – | 320 | 10,432 | 10,692 | 20 | 414 | 564 | – |
| Virginia | 14 | 515 | 3 | – | 1 | 7 | 105 | 301 | 12,307 | 12,775 | 25 | 541 | 481 | 63 |
| West Virginia | 6 | 189 | – | – | 8 | – | 4 | 56 | 1,646 | 1,919 | – | 9 | 16 | 23 |
| North Carolina | 14 | 642 | 3 | – | 3 | 2 | 86 | 829 | 18,878 | 18,742 | 20 | 611 | 383 | 25 |
| South Carolina | 18 | 404 | – | – | 3 | – | 45 | 365 | 14,832 | 13,242 | 13 | 548 | 692 | 3 |
| Georgia | 12 | 561 | 2 | – | 2 | – | 34 | 1,726 | 30,014 | 24,462 | 21 | 548 | 697 | 75 |
| Florida | 44 | 964 | – | – | 11 | – | 2 | 1,626 | 37,995 | 33,189 | 54 | 1,749 | 1,194 | 28 |
| EAST SOUTH CENTRAL | 59 | 1,736 | 9 | 1 | 36 | 1 | 82 | 1,590 | 47,549 | 42,556 | 37 | 793 | 978 | 177 |
| Kentucky | 10 | 396 | 2 | – | 14 | – | 11 | 286 | 5,912 | 5,202 | 8 | 183 | 355 | 110 |
| Tennessee | 8 | 536 | 5 | 1 | 16 | 1 | 53 | 588 | 18,707 | 16,258 | 14 | 313 | 278 | 41 |
| Alabama | 21 | 513 | 2 | – | 3 | – | 7 | 397 | 13,191 | 12,140 | 9 | 147 | 117 | 25 |
| Mississippi | 20 | 291 | – | – | 3 | – | 11 | 319 | 9,739 | 8,956 | 6 | 150 | 228 | 1 |
| WEST SOUTH CENTRAL | 63 | 2,384 | 40 | – | 21 | 3 | 68 | 1,810 | 75,724 | 69,740 | 45 | 1,463 | 1,784 | 433 |
| Arkansas * | 7 | 278 | 25 | – | 1 | – | 7 | 144 | 7,286 | 8,160 | 1 | 69 | 103 | 57 |
| Louisiana | 10 | 323 | 2 | – | 8 | – | 1 | 381 | 15,459 | 14,777 | 9 | 408 | 541 | 21 |
| Oklahoma | – | 207 | 11 | – | 2 | 1 | 52 | – | 6,550 | 6,916 | – | 89 | 115 | 105 |
| Texas | 46 | 1,576 | 2 | – | 10 | 2 | 8 | 1,285 | 46,429 | 39,887 | 35 | 897 | 1,025 | 250 |
| MOUNTAIN | 5 | 618 | 7 | 1 | 13 | – | 6 | 785 | 21,361 | 18,295 | 10 | 364 | 459 | 101 |
| Montana | --- | 51 | – | --- | – | --- | 1 | --- | 1,125 | 1,027 | --- | 3 | 3 | 5 |
| Idaho | – | 22 | – | – | – | – | 1 | 22 | 1,172 | 1,196 | – | 8 | 7 | – |
| Wyoming | – | 13 | 3 | – | 3 | – | 1 | 16 | 419 | 324 | – | 5 | 21 | 9 |
| Colorado | – | 114 | – | – | – | – | 1 | 303 | 5,979 | 4,860 | 4 | 83 | 139 | 27 |
| New Mexico | – | 127 | 2 | – | 2 | – | 1 | 83 | 3,160 | 3,217 | – | 51 | 49 | 28 |
| Arizona * | 3 | 222 | 1 | – | 6 | – | – | 168 | 6,320 | 5,282 | 2 | 139 | 95 | 31 |
| Utah | 2 | 30 | 1 | – | – | – | 1 | 68 | 1,175 | 964 | – | 11 | 9 | 1 |
| Nevada | – | 39 | – | 1 | 2 | – | – | 125 | 2,011 | 1,425 | 4 | 64 | 136 | – |
| PACIFIC | 111 | 3,009 | 4 | 6 | 68 | 1 | 3 | 2,267 | 77,259 | 77,435 | 49 | 2,614 | 2,620 | 225 |
| Washington | 8 | 209 | – | – | 12 | 1 | 1 | 161 | 6,958 | 7,083 | – | 53 | 98 | – |
| Oregon | 10 | 131 | – | – | – | – | 2 | 179 | 6,809 | 6,820 | 1 | 55 | 43 | 8 |
| California | 88 | 2,379 | 4 | 6 | 53 | – | – | 1,872 | 60,150 | 60,224 | 48 | 2,471 | 2,377 | 209 |
| Alaska | – | 56 | – | – | 2 | – | – | 28 | 1,694 | 1,860 | – | 11 | 45 | 8 |
| Hawaii | 5 | 234 | – | – | 1 | – | – | 27 | 1,648 | 1,448 | – | 24 | 57 | – |
| Guam * | – | 27 | – | – | – | – | – | – | 189 | 245 | – | 2 | 2 | – |
| Puerto Rico | 23 | 346 | – | – | 3 | – | – | 23 | 1,956 | 2,742 | 8 | 543 | 470 | 40 |
| Virgin Islands | --- | 3 | – | --- | – | --- | – | --- | 201 | 143 | --- | 31 | 16 | – |

*Delayed reports: Tuberculosis: Ohio delete 2, Ariz. delete 1
RMSF: Ark. delete 1
Gonorrhea: Guam 11
Rabies: N.J. 2

Week No. 33

## TABLE IV. DEATHS IN 121 UNITED STATES CITIES FOR WEEK ENDING AUGUST 17, 1974

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

| Area | All Causes | | | | | Pneumonia and Influenza All Ages |
|---|---|---|---|---|---|---|
| | All Ages | 65 years and over | 45-64 years | 25-44 years | Under 1 year | |
| NEW ENGLAND | 638 | 387 | 158 | 30 | 36 | 31 |
| Boston, Mass. | 208 | 111 | 65 | 11 | 7 | 10 |
| Bridgeport, Conn. | 34 | 24 | 5 | 2 | 1 | 2 |
| Cambridge, Mass. | 24 | 22 | 1 | 1 | – | 4 |
| Fall River, Mass. | 21 | 17 | 4 | – | – | – |
| Hartford, Conn. | 59 | 31 | 19 | 3 | 6 | 1 |
| Lowell, Mass. | 13 | 8 | 5 | – | – | 2 |
| Lynn, Mass. | 16 | 13 | 1 | 1 | – | – |
| New Bedford, Mass. | 22 | 16 | 5 | – | 1 | – |
| New Haven, Conn. | 50 | 24 | 9 | 1 | 12 | 1 |
| Providence, R. I. | 60 | 34 | 15 | 3 | 4 | 7 |
| Somerville, Mass. | 6 | 3 | 2 | 1 | – | – |
| Springfield, Mass. | 51 | 34 | 11 | 4 | 2 | 2 |
| Waterbury, Conn. | 23 | 12 | 7 | 2 | 1 | – |
| Worcester, Mass. | 51 | 38 | 9 | 1 | 2 | 2 |
| MIDDLE ATLANTIC | 2,803 | 1,634 | 758 | 209 | 100 | 93 |
| Albany, N. Y. | 62 | 34 | 18 | 6 | 3 | 2 |
| Allentown, Pa. | 29 | 18 | 10 | 1 | – | – |
| Buffalo, N. Y. | 111 | 56 | 32 | 15 | 4 | 5 |
| Camden, N. J. | 40 | 26 | 9 | 2 | 2 | 1 |
| Elizabeth, N. J. | 26 | 16 | 6 | 3 | 1 | – |
| Erie, Pa. | 34 | 21 | 12 | – | – | 1 |
| Jersey City, N. J. | 57 | 33 | 18 | 2 | 3 | 4 |
| Newark, N. J. | 81 | 29 | 23 | 8 | 16 | 7 |
| New York City, N. Y. † | 1,323 | 791 | 334 | 104 | 33 | 46 |
| Paterson, N. J. | 33 | 23 | 5 | 1 | 1 | 1 |
| Philadelphia, Pa. | 493 | 281 | 147 | 35 | 18 | 5 |
| Pittsburgh, Pa. | 193 | 100 | 66 | 13 | 7 | 9 |
| Reading, Pa. | 35 | 22 | 9 | 2 | 2 | 1 |
| Rochester, N. Y. | 104 | 67 | 22 | 9 | 4 | 5 |
| Schenectady, N. Y. | 17 | 11 | 6 | – | – | – |
| Scranton, Pa. | 22 | 10 | 11 | 1 | – | 1 |
| Syracuse, N. Y. | 72 | 51 | 12 | 3 | 4 | 2 |
| Trenton, N. J. * | 36 | 21 | 11 | 2 | 1 | 1 |
| Utica, N. Y. | 13 | 12 | – | 1 | – | 1 |
| Yonkers, N. Y. | 22 | 12 | 7 | 1 | 1 | 1 |
| EAST NORTH CENTRAL | 2,274 | 1,286 | 617 | 157 | 117 | 51 |
| Akron, Ohio | 82 | 43 | 25 | 9 | 3 | – |
| Canton, Ohio | 32 | 22 | 9 | 1 | – | 1 |
| Chicago, Ill. | 580 | 315 | 161 | 55 | 22 | 11 |
| Cincinnati, Ohio | 137 | 78 | 39 | 6 | 8 | 3 |
| Cleveland, Ohio | 155 | 83 | 52 | 5 | 6 | 1 |
| Columbus, Ohio | 136 | 79 | 36 | 9 | 9 | 1 |
| Dayton, Ohio | 100 | 48 | 34 | 8 | 4 | 1 |
| Detroit, Mich. | 300 | 149 | 84 | 24 | 32 | 9 |
| Evansville, Ind. | 37 | 24 | 8 | 2 | 2 | 2 |
| Fort Wayne, Ind. | 43 | 28 | 11 | 1 | 1 | 1 |
| Gary, Ind. | 31 | 15 | 8 | 2 | – | 1 |
| Grand Rapids, Mich. | 48 | 28 | 11 | 3 | 5 | 2 |
| Indianapolis, Ind. | 151 | 86 | 44 | 12 | 5 | 2 |
| Madison, Wis. | 27 | 11 | 9 | 2 | – | 4 |
| Milwaukee, Wis. | 121 | 87 | 19 | 8 | 6 | 4 |
| Peoria, Ill. | 47 | 26 | 10 | 2 | 7 | – |
| Rockford, Ill. | 45 | 28 | 8 | 3 | 1 | 6 |
| South Bend, Ind. | 33 | 27 | 4 | – | 1 | 1 |
| Toledo, Ohio | 112 | 75 | 28 | 1 | 3 | 1 |
| Youngstown, Ohio | 57 | 34 | 17 | 4 | 2 | – |
| WEST NORTH CENTRAL | 770 | 498 | 172 | 46 | 25 | 36 |
| Des Moines, Iowa | 68 | 40 | 22 | 2 | 1 | – |
| Duluth, Minn. | 21 | 18 | 2 | 1 | – | 1 |
| Kansas City, Kans. | 33 | 17 | 9 | 5 | 1 | 1 |
| Kansas City, Mo. | 112 | 74 | 21 | 6 | 2 | – |
| Lincoln, Nebr. | 41 | 30 | 9 | 1 | – | 4 |
| Minneapolis, Minn. | 91 | 63 | 18 | 4 | 4 | 4 |
| Omaha, Nebr. | 84 | 50 | 21 | 5 | 2 | 1 |
| St. Louis, Mo. | 189 | 119 | 48 | 12 | 7 | 15 |
| St. Paul, Minn. | 68 | 44 | 14 | 5 | 3 | 5 |
| Wichita, Kans. | 63 | 43 | 8 | 5 | 5 | 5 |
| SOUTH ATLANTIC | 1,170 | 569 | 390 | 97 | 70 | 42 |
| Atlanta, Ga. | 157 | 67 | 56 | 19 | 7 | 2 |
| Baltimore, Md. | 201 | 106 | 54 | 16 | 14 | 3 |
| Charlotte, N. C. | 70 | 36 | 19 | 6 | 5 | – |
| Jacksonville, Fla. | 64 | 29 | 23 | 7 | 3 | 2 |
| Miami, Fla. | 130 | 66 | 51 | 6 | 1 | 5 |
| Norfolk, Va. | 57 | 22 | 24 | 5 | 4 | 5 |
| Richmond, Va. | 111 | 38 | 39 | 8 | 25 | 4 |
| Savannah, Ga. | 45 | 23 | 18 | 2 | 1 | 5 |
| St. Petersburg, Fla. | 58 | 42 | 11 | 1 | 4 | 4 |
| Tampa, Fla. | 64 | 38 | 16 | 8 | 1 | 6 |
| Washington, D. C. | 161 | 70 | 66 | 16 | 3 | 3 |
| Wilmington, Del. | 52 | 32 | 13 | 3 | 2 | 3 |
| EAST SOUTH CENTRAL | 624 | 326 | 180 | 56 | 33 | 22 |
| Birmingham, Ala. | 104 | 45 | 36 | 5 | 12 | 2 |
| Chattanooga, Tenn. | 50 | 27 | 14 | 7 | 2 | 2 |
| Knoxville, Tenn. | 28 | 16 | 8 | 3 | – | 1 |
| Louisville, Ky. | 104 | 64 | 26 | 9 | – | 5 |
| Memphis, Tenn. | 162 | 83 | 52 | 9 | 11 | 5 |
| Mobile, Ala. | 42 | 22 | 9 | 5 | 1 | 1 |
| Montgomery, Ala. | 44 | 24 | 11 | 5 | 3 | 3 |
| Nashville, Tenn. | 90 | 45 | 24 | 13 | 4 | 3 |
| WEST SOUTH CENTRAL | 1,127 | 657 | 269 | 85 | 49 | 29 |
| Austin, Tex. | 36 | 22 | 9 | – | 1 | 4 |
| Baton Rouge, La. | 38 | 22 | 8 | 2 | 3 | 1 |
| Corpus Christi, Tex. | 41 | 27 | 8 | 1 | 2 | – |
| Dallas, Tex. | 152 | 88 | 36 | 10 | 12 | – |
| El Paso, Tex. | 47 | 32 | 7 | 3 | 1 | 5 |
| Fort Worth, Tex. | 86 | 48 | 22 | 5 | 6 | 3 |
| Houston, Tex. | 237 | 127 | 58 | 32 | 6 | 7 |
| Little Rock, Ark. | 59 | 40 | 11 | 4 | 1 | – |
| New Orleans, La. | 141 | 71 | 45 | 10 | 5 | 1 |
| San Antonio, Tex. | 155 | 98 | 31 | 12 | 4 | 2 |
| Shreveport, La. | 50 | 30 | 15 | 1 | 2 | 1 |
| Tulsa, Okla. | 85 | 52 | 19 | 5 | 6 | 5 |
| MOUNTAIN | 462 | 253 | 116 | 35 | 34 | 8 |
| Albuquerque, N. Mex. | 51 | 35 | 10 | 4 | – | 4 |
| Colorado Springs, Colo. | 29 | 22 | 3 | 1 | 1 | – |
| Denver, Colo. | 106 | 58 | 23 | 9 | 14 | 1 |
| Las Vegas, Nev. | 17 | 8 | 7 | – | 2 | – |
| Ogden, Utah | 22 | 14 | 5 | – | 1 | 1 |
| Phoenix, Ariz. | 115 | 62 | 30 | 12 | 5 | 1 |
| Pueblo, Colo. | 11 | 4 | 4 | 2 | – | – |
| Salt Lake City, Utah | 51 | 24 | 13 | – | 8 | 1 |
| Tucson, Ariz. | 60 | 26 | 21 | 7 | 3 | – |
| PACIFIC | 1,531 | 907 | 409 | 91 | 55 | 30 |
| Berkeley, Calif. | 24 | 16 | 6 | 1 | – | – |
| Fresno, Calif. | 49 | 28 | 16 | 2 | 1 | – |
| Glendale, Calif. | 23 | 20 | 3 | – | – | 1 |
| Honolulu, Hawaii | 38 | 17 | 13 | 2 | 5 | 1 |
| Long Beach, Calif. | 97 | 57 | 32 | 3 | 1 | 1 |
| Los Angeles, Calif. | 470 | 288 | 119 | 29 | 13 | 12 |
| Oakland, Calif. | 78 | 36 | 24 | 11 | 4 | – |
| Pasadena, Calif. | 38 | 25 | 7 | 3 | 2 | – |
| Portland, Oreg. | 130 | 81 | 33 | 4 | 6 | 1 |
| Sacramento, Calif. | 46 | 25 | 12 | 3 | 3 | 2 |
| San Diego, Calif. | 114 | 56 | 35 | 11 | 4 | – |
| San Francisco, Calif. | 164 | 90 | 45 | 9 | 5 | 3 |
| San Jose, Calif. | 55 | 34 | 15 | 3 | 2 | 1 |
| Seattle, Wash. | 111 | 68 | 28 | 7 | 7 | 3 |
| Spokane, Wash. | 56 | 39 | 13 | 3 | 1 | 4 |
| Tacoma, Wash. | 38 | 27 | 8 | – | 1 | 1 |
| Total | 11,399 | 6,517 | 3,069 | 806 | 519 | 342 |
| Expected Number | 11,618 | 6,691 | 3,162 | 807 | 430 | 332 |

†Delayed reports for week ending Aug. 10, 1974

*Estimate based on average percent of divisional total.

ANTHRAX – Continued

2 horses, and 1 mule. In addition, 186 bovine and 4 equine deaths were categorized as probable* anthrax cases. Death rates among bulls were significantly higher than among calves ($p < .001$) or other cattle ($p < .001$). Confirmed anthrax deaths occurred on 24 premises in Falls County and on 2 premises located several miles to the east in adjacent Limestone County. All but 3 of the 24 affected premises in Falls County were located in the southeastern quarter of the county.

Epizootics of anthrax are usually considered to be soilborne. Although 200 soil samples collected on 4 premises with confirmed cases have not revealed *B. anthracis*, a majority of confirmed and probable anthrax deaths occurred among herds pastured on 2 of 10 general soil types found in the county. These 2 soil types are characterized by alkaline reactions and calcareous subsoils—conditions known to be favorable for the persistence of *B. anthracis* spores. An epidemiologic investigation failed to implicate alternate possible modes of infection such as transport of infected animals, use of animal-origin fertilizers, food supplements containing bone meal, or a contaminated water source.

Control measures during the outbreak consisted of: (1) quarantining livestock in eastern Falls County; (2) vaccinating livestock in and around the quarantine area; and (3) burning carcasses. The last confirmed bovine anthrax death in Falls County occurred on July 30. On August 11, 1974, a single laboratory-confirmed anthrax death occurred in a cow in distant Hardin County, Texas. The affected premise plus 6 neighboring premises have been quarantined. No human cases of cutaneous anthrax were documented during the epizootic.

*Probable case = Animal dying in a herd with confirmed anthrax or in a herd with $\geq$2 deaths in any 7-day period

**Oklahoma**

In early July, 10 to 13 suspect bovine anthrax deaths occurred in a consignment of cattle in the Oklahoma City stockyards. Cultures from one of the suspect animals failed to reveal *B. anthracis*. However, on July 23, a culture-proven anthrax death did occur in a single herd of cattle in Caddo County. Approximately 10 cattle in that herd died during a 2-week period prior to the death of the confirmed case.

*(Reported by H. Q. Sibley, D.V.M., Executive Director, Carl Watson, D.V.M., Area 8 Veterinarian, and James B. Young, D.V.M., Staff Veterinarian, Texas Animal Health Commission; A. B. Rich, D.V.M., Director, Division of Veterinary Public Health, Texas State Health Department; William L. Sippel, D.V.M., Ph.D., Executive Director, Howard W. Whitford, D.V.M., Staff Bacteriologist, Texas Veterinary Medical Diagnostic Laboratory; Stanley W. Ferguson, Ph.D., State Epidemiologist, and Patrick M. Morgan, D.V.M., Dr. P.H., Chief, Preventive Medical Services, and Director, Veterinary Public Health Division, Oklahoma State Department of Health; John W. Holcombe, D.V.M., State Public Health Veterinarian, Oklahoma State Department of Agriculture; and the Bacterial Zoonoses Branch, Bacterial Diseases Division, Bureau of Epidemiology, CDC.)*

## CURRENT TRENDS
## STATEMENT OF THE ADVISORY COMMITTEE ON IMMUNIZATION PRACTICES ON THE USE OF HUMAN RABIES IMMUNE GLOBULIN

Human Rabies Immune Globulin (HRIG) was licensed on July 12, 1974, and will be available for commercial distribution in early September. It is prepared from plasma pools with high rabies antibody titer obtained from immunized volunteers. HRIG has been shown in extensive laboratory and field evaluations to induce antibody levels equivalent to those following antirabies serum of equine origin. It will be a valuable alternative product for patients who are unable to receive antirabies serum.

At least initially, HRIG will likely be in short supply. It thus becomes particularly important that HRIG be used primarily for patients who are known to be hypersensitive to horse serum, are skin-test positive to antirabies serum of equine origin, or, in view of theoretical concern over fetus development, are pregnant.

The recommended dose of HRIG is 20 IU/kg. Up to 50% of the globulin dose should be used for infiltrating the wound and the rest for intramuscular injection.

**Editorial Note**

Human rabies immune globulin (HRIG) has been shown to suppress the antibody response to rabies vaccine as has equine antirabies serum *(1,2)*. When hyperimmune serum and vaccine is administered for postexposure rabies prophylaxis, 21 doses of vaccine plus booster doses on the 10th and 20th day after the completion of the initial course should be administered to assure an adequate antibody response *(3)*.

Physicians may obtain this product by contacting either their state health departments or the manufacturer, Cutter Laboratories, at the distribution centers: 8610 Directors Row, Dallas, Texas 75247, or 2480 Baumann Avenue, St. Lorenzo, California 94580. Twenty-four hour, 7 day per week telephone service for emergency shipment of HRIG throughout the continental United States will be available through the Dallas Distribution Center, telephone number (214) 631-6240.

**References**

1. Hattwick M, Rubin RH, Music S, et al: Postexposure rabies prophylaxis with human rabies immune globulin. JAMA 227:407-410, 1974
2. Loofbourow JC, Cabasso VJ, Roby RE, et al: Rabies immune globulin (human): Clinical trials and dose determination. JAMA 217:1825-1831, 1971
3. Rubin RH, Sikes RK, Gregg MB: Human rabies immune globulin: Clinical trials and effects on serum antiglobulins. JAMA 224:871-874, 1973

## EPIDEMIOLOGIC NOTES AND REPORTS
## AMPICILLIN-RESISTANT *SHIGELLA DYSENTERIAE*, TYPE I – Costa Rica

A 6-year-old girl from Guatuso, Costa Rica, was admitted to the National Children's Hospital in San José in January 1974 with a 7-day history of diarrhea with blood and mucus and vomiting but no documented fever. On admission, she was noted to have underlying malnutrition, anemia, severe dehydration with marked electrolyte abnormalities, and con-

*SHIGELLA DYSENTERIAE* – Continued

vulsions. Cerebrospinal fluid was normal. The white blood cell count was 30,800/mm$^3$ with a marked shift to the left. Urinalysis showed traces of albumin and many erythrocytes. Stool specimens for bacterial culture and parasites were obtained, and fluid therapy and ampicillin were started.

Eighteen hours later, *Shigella dysenteriae,* type 1, was cultured, and after 24 more hours, antibiotic sensitivity tests showed the strain to be resistant to ampicillin, chloramphenicol, and tetracycline and sensitive to gentamycin, kanamycin, and nalidixic acid. The microhemagglutination titer for *S. dysenteriae,* type 1, was 1:640.

By this time, the patient's condition had worsened, and renal malfunction and disseminated intravascular coagulation were noted. However, she responded to therapy, and after 26 days she was discharged.

Five days after this child was admitted, 3 more children (ages 8 to 12) from the same family were hospitalized with dysentery. The oldest had a positive stool culture for *S. dysenteriae,* type 1, with the same resistance pattern as the first isolate. The microhemagglutination titers for these 3 children were 1:160, 1:320, and 1:640. Their parents had negative cultures and negative serologic tests.

The antibiotic sensitivities of these 2 isolates were subsequently confirmed at CDC.

*S. dysenteriae,* type 1, (Shiga bacillus) was first reported in Costa Rica in 1970 *(1).* Since then, several isolated cases and small outbreaks have been recorded. In 1973, 30 isolations of *S. dysenteriae* were made from a total of 305 shigellosis cases reported to the Epidemiology Division of the Public Health Department *(2).* The 2 isolations reported here are the only ones recorded so far this year *(3).* Serologic studies performed by the Public Health Department Laboratory *(4)* have shown that 40%-80% of persons tested in towns in northeastern Costa Rica have microhemagglutination titers to *S. dysenteriae,* type 1, of over 1:40.

*(Reported by Dr. Cecilia Lizano, Head of Laboratories, and Dr. Julio Jiron, Head of Bacteriology, National Children's Hospital, San José.)*

### Editorial Note

This is the first report known to CDC of ampicillin resistance in strains of *S. dysenteriae,* type 1, isolated in the Central American pandemic; however, ampicillin-resistant Shiga bacilli have been reported from Bangladesh *(5).*

### References

1. Mohs E, Lizano C, Dobles O, Trejos A: Estudio y control de la epidemia de shigelosis por Bacilo de Shiga en Costa Rica. Rev Med Hosp Nal Ninos 7(1):1, 1972
2. Marranghello L: Morbilidad por shigelosis; incidencia mensual en 1973. Depto. Esta distico, Depto. Investigaciones Epidemiologicas y Depto. Vigilancia Epidemiologica. Ministerio Salud Publica. Costa Rica
3. Marranghello L: Referencia personal. Ministerio Salud Publica. Costa Rica
4. Paniagua F, Salazar JL: Estudios epidemiologicos y serologicos de Sh. dysenteriae 1 en una zona de Costa Rica. En prensa.
5. Rahaman MM, Huq I, Dey CR, Kibriya AKMG, Curlin G: Ampicillin-resistant Shiga bacillus in Bangladesh. Lancet 1:406-407, 1974

The Morbidity and Mortality Weekly Report, circulation 39,000, is published by the Center for Disease Control, Atlanta, Ga.

Director, Center for Disease Control — David J. Sencer, M.D.
Director, Bureau of Epidemiology, CDC — Philip S. Brachman, M.D.
Editor, MMWR — Michael B. Gregg, M.D.
Managing Editor, MMWR — 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 cases, outbreaks, environmental hazards, or other public health problems 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) 75-8017