CENTER FOR DISEASE CONTROL

# Morbidity and Mortality

Vol. 21, No. 32

WEEKLY REPORT

For Week Ending August 12, 1972

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

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CONTENTS



## EPIDEMIOLOGIC NOTES AND REPORTS
## SHIGELLOSIS IN AN INSTITUTION FOR THE MENTALLY RETARDED – Massachusetts

On April 18, 1972, an outbreak of Shigella dysentery began at an institution for the mentally retarded in Massachusetts. By July 21, 97 of 1,437 residents had fever (some temperatures as high as 105°F.) and watery, green diarrhea. Some patients had blood in their stools. *Shigella flexneri* 2a was isolated from stool specimens from 36 patients.

Investigation revealed that the illness was in nine of the 20 resident buildings, with 91% of the cases occurring in sharp outbreaks in five buildings (Figure 1). The clinical attack rates ranged from 2% to 36%; the attack rate for the entire institution was 6.8%. The age specific attack rate for culture-proven cases of shigellosis was 2.9% up to age 35 and dropped to 1.2% for those older. Attack rates by degree of mental retardation showed that the profoundly to moderately retarded were exclusively affected.

Four of the nine buildings where the outbreaks occurred were residences which housed ambulatory, profoundly and severely retarded, who present the greatest difficulties in maintaining adequate hygiene. There were fewer cases in non-

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

| DISEASE | 32nd WEEK ENDING | | MEDIAN | CUMULATIVE, FIRST 32 WEEKS | | |
|---|---|---|---|---|---|---|
| | August 12, 1972 | August 14, 1971 | 1967-1971 | 1972 | 1971 | MEDIAN 1967-1971 |
| Aseptic meningitis | 134 | 220 | 186 | 1,602 | 2,199 | 1,588 |
| Brucellosis | 2 | 2 | 3 | 104 | 96 | 127 |
| Chickenpox | 609 | – – – | – – – | 112,665 | – – – | – – – |
| Diphtheria | 2 | 4 | 1 | 62 | 98 | 98 |
| Encephalitis, primary: | | | | | | |
| Arthropod-borne and unspecified | 18 | 33 | 40 | 531 | 812 | 762 |
| Encephalitis, post-infectious | 4 | 16 | 8 | 189 | 272 | 292 |
| Hepatitis, serum (Hepatitis B) | 156 | 140 | 140 | 5,653 | 5,190 | 3,220 |
| Hepatitis, infectious (Hepatitis A) | 1,004 | 1,081 | 930 | 33,893 | 37,145 | 28,586 |
| Malaria | 7 | 46 | 46 | 648 | 2,030 | 1,684 |
| Measles (rubeola) | 213 | 310 | 222 | 26,356 | 67,871 | 38,829 |
| Meningococcal infections, total | 21 | 21 | 29 | 940 | 1,653 | 1,742 |
| Civilian | 20 | 16 | 27 | 903 | 1,465 | 1,565 |
| Military | 1 | 5 | 2 | 37 | 188 | 177 |
| Mumps | 452 | 588 | – – – | 55,280 | 97,280 | – – – |
| Rubella (German measles) | 164 | 261 | 261 | 20,123 | 37,551 | 42,505 |
| Tetanus | 2 | 2 | 4 | 70 | 63 | 89 |
| Tuberculosis, new active | 723 | – – – | – – – | 20,421 | – – – | – – – |
| Tularemia | 6 | 4 | 1 | 83 | 104 | 104 |
| Typhoid fever | 11 | 6 | 9 | 196 | 187 | 187 |
| Typhus, tick-borne (Rky. Mt. spotted fever) | 27 | 27 | 23 | 324 | 259 | 240 |
| Venereal Diseases:† | | | | | | |
| Gonorrhea | 15,907 | 14,202 | – – – | 437,894 | 389,639 | – – – |
| Syphilis, primary and secondary | 557 | 465 | – – – | 14,927 | 14,404 | – – – |
| Rabies in animals | 77 | 63 | 64 | 2,685 | 2,689 | 2,273 |

TABLE II. NOTIFIABLE DISEASES OF LOW FREQUENCY

| | Cum. | | Cum. |
|---|---|---|---|
| Anthrax: | 2 | Poliomyelitis, total: | 9 |
| Botulism: | 6 | Paralytic: | 9 |
| Congenital rubella syndrome: | 23 | Psittacosis: Texas – 1 | 25 |
| Leprosy: Calif. – 2 | 81 | Rabies in man: | 1 |
| Leptospirosis: Calif. – 1 | 18 | Trichinosis: Va. – 2 | 49 |
| Plague: | 1 | Typhus, murine: | 11 |

†Numbers for 1971 are estimated from quarterly reports to the Venereal Disease Branch, CDC

SHIGELLOSIS – Continued

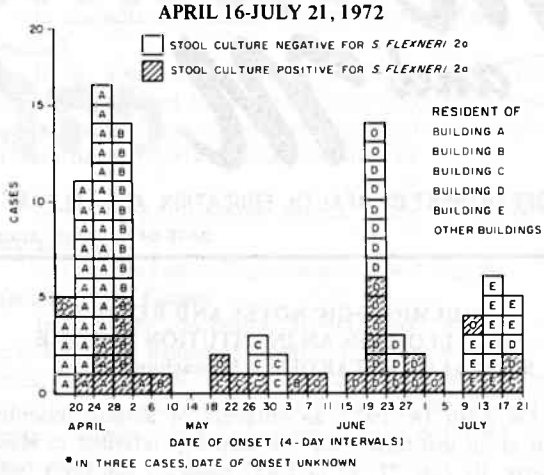
ambulatory residents, probably because their personal hygiene is better controlled. No cases occurred in the borderline to mildly retarded who have good hygienic habits.

*(Reported by Nicholas J. Fiumara, M.D., Director, and George E. Waterman, M.D., Assistant Director, Division of Communicable Diseases, Massachusetts Department of Public Health; and an EIS Officer.)*

**Editorial Note**

Shigellosis is frequently endemic or epidemic in mental institutions. Separate outbreaks in five buildings over a 4-month period suggest one common source for each building. The mode of spread between buildings is not known, but patients have varying degrees of contact with patients from other buildings, and personnel may work in more than one building during the day.

Figure 1
DYSENTERY CASES, BY DATE OF ONSET* IN AN INSTITUTION FOR THE MENTALLY RETARDED, APRIL 16-JULY 21, 1972




## IMPORTED *FALCIPARUM* MALARIA – California

On July 7, 1972, a 38-year-old teacher from Bremerton, Washington, who was traveling with her 13-year-old son in Nairobi, Kenya, had onset of chills, fever, malaise, weakness, anorexia, non-productive cough, nausea, vomiting, diarrhea, and most recently mental confusion. The illness progressed in severity with fever spikes several times daily. When she and her son arrived in Los Angeles, she was seen at a nearby Naval Air Station outpatient department and given symptomatic treatment for a "flu-like" syndrome. On July 14, she was admitted to the naval hospital.

On admission, her temperature was 100°F., pulse-124, and blood pressure (BP)-90/60. She was very tired and dehydrated but oriented. The abdomen was soft, but a tender liver edge was palpable at the right costal margin. Laboratory values were: hematocrit-27%; white blood cell count-3,500; sodium-124; chlorine-96; carbon dioxide-26; potassium-4.1; $pO_2$-93; $pCO_2$-17; and pH-7.57. The differential diagnosis was parasitism due to 1) amebiasis, 2) malaria, 3) "other", and secondary dehydration. The patient was started on metronidazole empirically. Four hours after admission, she became markedly obtunded and was transferred to the intensive care unit with a temperature of 105.4°F., pulse-140, BP-100/60. A peripheral blood smear was positive for *Plasmodium falciparum*. She was immediately started on chloroquine and primaquine. Blood pressure ranged from 50/0 to 70/0 until her condition stabilized after receiving intravenous fluids, potassium chloride, albumin, and heparin. She was thought to have disseminated intravascular coagulation syndrome on the basis of low serum albumin levels and abnormal prothrombin and partial thromboplastin times.

The patient's 13-year-old son also had "flu-like" symptoms with onset at about the same time as his mother's illness. Initially, he was thought to have infectious mononucleosis on the basis of a positive mono spot test; however, a peripheral blood smear subsequent to the diagnosis of malaria in his mother was also positive for *P. falciparum*. Both have recovered after treatment with chloroquine.

Epidemiologic investigation revealed that the woman and her son had been on a 2-week East African safari tour through more than eight wildlife reserves in Kenya and Tanzania. This was the first tour allowed to go through the reserves following heavy rains in May and early June. Based on the usual intrinsic incubation period of 12 days for *P. falciparum*, exposure probably occurred in Tsavo National Park, Kenya, or Lake Manyara, Tanzania.

On July 17, within 6 hours after notification of these two cases by the San Diego County Health Department, contact was made with the other 13 members of the safari. All were in good health and have remained well. They were told of the situation and advised to immediately consult their personal physician and the health department should they become ill. Six of the group took the standard chloroquine-suppressive regimen and were continuing for 8 weeks post-exposure. Five persons took initial doses of chemosuppressives during the first week in Africa but discontinued medication before returning to the United States. Four individuals, including the two patients, did not take any chemosuppressives. None of the group could recall being bitten by mosquitoes, although several mentioned that "flies" were a problem. Neither of the two patients could recall mosquito bites nor exposures not shared by other members of the tour. In Nairobi, prior to the trek, the tour leader strongly recommended that all take preventive antimalarials and advised where medication could be obtained. The travel club which regularly arranges such safari tours was advised to strongly recommend antimalarial prophylaxis for their clients traveling in malaria-endemic zones.

*(Reported by J.B. Askew, M.D., Director, San Diego City Health Department; Lewis Mahoney, M.D., Dr. P.H., Director, Immunization Project, Robert Murray, Epidemiology Analyst, and Victor Kawasaki, Public Health Investigator, Los Angeles County Health Department; R.R. Roberto, M.D., Medical Epidemiologist, Bureau of Communicable Disease Control, California State Department of Public Health; LCDR R.F. Meese, MC USN, Naval Hospital, San Diego; CDR R. Marlor, MC USN, and CDR T. Byrd, MC USN, Preventive Medicine Unit #5, San Diego Naval Base.)*

## SUMMARY OF REPORTED CASES OF INFECTIOUS SYPHILIS

CASES OF PRIMARY AND SECONDARY SYPHILIS: By Reporting Areas July 1972 and July 1973 – Provisional Data

| Reporting Area | July | | Cumulative Jan-July | | Reporting Area | July | | Cumulative Jan-July | |
|---|---|---|---|---|---|---|---|---|---|
| | 1972 | 1971 | 1972 | 1971 | | 1972 | 1971 | 1972 | 1971 |
| NEW ENGLAND | 78 | 36 | 514 | 344 | EAST SOUTH CENTRAL | 119 | 123 | 805 | 691 |
| Maine | 4 | 1 | 18 | 7 | Kentucky | 27 | 29 | 158 | 191 |
| New Hampshire | - | - | 5 | 3 | Tennessee | 40 | 40 | 294 | 206 |
| Vermont | - | 1 | 11 | 3 | Alabama | 25 | 16 | 116 | 95 |
| Massachusetts | 42 | 20 | 285 | 175 | Mississippi | 27 | 38 | 237 | 199 |
| Rhode Island | 5 | 4 | 26 | 28 | | | | | |
| Connecticut | 27 | 10 | 169 | 128 | WEST SOUTH CENTRAL | 234 | 269 | 1,771 | 2,195 |
| | | | | | Arkansas | 16 | 16 | 129 | 156 |
| MIDDLE ATLANTIC | 448 | 464 | 3,397 | 3,321 | Louisiana | 66 | 73 | 512 | 404 |
| Upstate New York | 33 | 29 | 247 | 268 | Oklahoma | 6 | 14 | 58 | 56 |
| New York City | 308 | 341 | 2,384 | 2,248 | Texas | 146 | 166 | 1,072 | 1,579 |
| Pa. (Excl. Phila.) | 23 | 4 | 107 | 79 | | | | | |
| Philadelphia | 23 | 17 | 182 | 114 | MOUNTAIN | 40 | 55 | 286 | 337 |
| New Jersey | 61 | 73 | 477 | 612 | Montana | 1 | - | 5 | - |
| | | | | | Idaho | - | 6 | 3 | 8 |
| EAST NORTH CENTRAL | 204 | 227 | 1,485 | 1,535 | Wyoming | 1 | 1 | 9 | 2 |
| Ohio | 26 | 43 | 191 | 293 | Colorado | 12 | 6 | 42 | 37 |
| Indiana | 17 | 44 | 117 | 204 | New Mexico | 5 | 10 | 62 | 78 |
| Downstate Illinois | 17 | 9 | 91 | 77 | Arizona | 14 | 21 | 114 | 124 |
| Chicago | 76 | 68 | 597 | 488 | Utah | 2 | - | 14 | 13 |
| Michigan | 65 | 62 | 464 | 437 | Nevada | 5 | 11 | 37 | 75 |
| Wisconsin | 3 | 1 | 25 | 36 | | | | | |
| | | | | | PACIFIC | 308 | 310 | 1,922 | 1,849 |
| WEST NORTH CENTRAL | 27 | 33 | 164 | 258 | Washington | 10 | 12 | 73 | 88 |
| Minnesota | 7 | 8 | 26 | 39 | Oregon | 3 | - | 26 | 7 |
| Iowa | 6 | 2 | 28 | 10 | California | 291 | 295 | 1,798 | 1,720 |
| Missouri | 8 | 15 | 72 | 144 | Alaska | 3 | 2 | 10 | 21 |
| North Dakota | - | - | - | 5 | Hawaii | 1 | 1 | 15 | 13 |
| South Dakota | - | - | 1 | 6 | | | | | |
| Nebraska | 3 | 3 | 14 | 18 | U.S. TOTAL | 1,940 | 2,005 | 13,885 | 13,759 |
| Kansas | 3 | 5 | 23 | 36 | | | | | |
| | | | | | TERRITORIES | 77 | 73 | 506 | 502 |
| SOUTH ATLANTIC | 482 | 488 | 3,541 | 3,229 | Puerto Rico | 74 | 68 | 458 | 485 |
| Delaware | 7 | - | 39 | 20 | Virgin Islands | 3 | 5 | 48 | 17 |
| Maryland | 78 | 41 | 494 | 303 | | | | | |
| District of Columbia | 68 | 63 | 468 | 332 | | | | | |
| Virginia | 30 | 17 | 247 | 208 | | | | | |
| West Virginia | 2 | 3 | 15 | 19 | | | | | |
| North Carolina | 33 | 39 | 310 | 268 | | | | | |
| South Carolina | 33 | 33 | 280 | 186 | | | | | |
| Georgia | 104 | 147 | 769 | 862 | | | | | |
| Florida | 127 | 145 | 919 | 1,031 | | | | | |

Note: Cumulative Totals include revised and delayed reports through previous months.

## SURVEILLANCE SUMMARY
## TRICHINOSIS – United States, 1971

In 1971, there were 115 reported cases of trichinosis in the United States, compared with 109 reported cases in 1970 Figure 2). Since 1947, the number of cases has gradually declined. Case reports fell below the 100 mark in 1967 and 1968 but rose to nearly 200 in 1969. In 1971, three deaths from trichinosis were reported. In the last decade, a total of 27 people died of trichinosis.

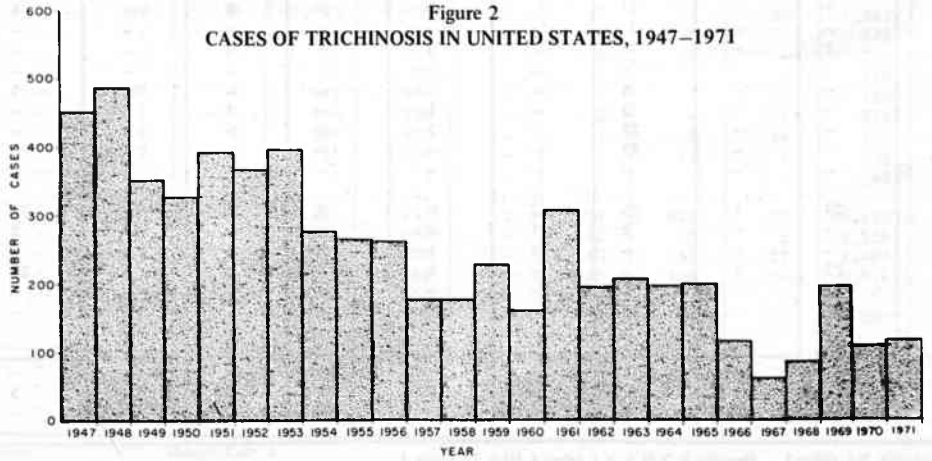
As observed in the past, the majority of trichinosis cases (89) were reported from three adjacent geographic areas of the United States: the New England, Middle Atlantic, and East North Central regions.

The source of infection in 82 (71%) of the 115 cases of trichinosis reported in 1971 was pork products. Sausage was implicated as the product responsible for infection in 44 (69%) of the 64 reports in which a specific pork product was identified. Of those infections acquired from non-pork products, half (52%) were attributed to bear meat. Beef was the only other non-pork product incriminated. Although cattle are not considered a natural reservoir of trichinosis because they are herbivorous, beef products may become adulterated with pork through the use of a common meat grinder or through the intentional mixing of beef and pork.

Of the 99 people who specified the source of the suspect meat, 78 purchased it from commercial sources, 13 acquired the meat from wildlife (bears), and nine obtained the meat directly from a farm.

*(Reported by the Parasitic Diseases Branch, Epidemiology Program, CDC.)*

Figure 2
CASES OF TRICHINOSIS IN UNITED STATES, 1947–1971



## TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
## FOR WEEKS ENDING AUGUST 12, 1972 AND AUGUST 14, 1971 (32nd WEEK) – Continued

| AREA | ASEPTIC MENINGITIS | BRUCELLOSIS | CHICKENPOX | DIPHTHERIA | | ENCEPHALITIS | | | HEPATITIS | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Primary including unspec. cases | | Post Infectious | Serum | Infectious | |
| | 1972 | 1972 | 1972 | 1972 | Cum. 1972 | 1972 | 1971 | 1972 | 1972 | 1972 | 1971 |
| UNITED STATES | 134 | 2 | 609 | 2 | 62 | 18 | 33 | 4 | 156 | 1,004 | 1,081 |
| NEW ENGLAND | 3 | – | 90 | – | – | 2 | – | – | 4 | 85 | 68 |
| Maine * | – | – | 2 | – | – | – | – | – | – | 4 | 17 |
| New Hampshire * | 2 | – | 4 | – | – | – | – | – | 1 | 28 | 1 |
| Vermont | – | – | 3 | – | – | – | – | – | – | 2 | 7 |
| Massachusetts | 1 | – | 17 | – | – | 2 | – | – | 1 | 31 | 23 |
| Rhode Island | – | – | 23 | – | – | – | – | – | – | 4 | 12 |
| Connecticut | – | – | 41 | – | – | – | – | – | 2 | 16 | 8 |
| MIDDLE ATLANTIC | 30 | – | 21 | – | 3 | – | 2 | 1 | 60 | 109 | 198 |
| Upstate New York | 16 | – | 2 | – | 1 | – | 1 | 1 | 27 | 35 | 48 |
| New York City | 8 | – | 19 | – | 2 | – | – | – | 16 | 27 | 50 |
| New Jersey * | 6 | – | NN | – | – | – | 1 | – | 17 | 47 | 69 |
| Pennsylvania | --- | --- | --- | --- | – | --- | – | --- | --- | --- | 31 |
| EAST NORTH CENTRAL | 18 | – | 299 | – | 4 | 6 | 11 | 2 | 28 | 165 | 160 |
| Ohio | 9 | – | 17 | – | – | 4 | 5 | – | 6 | 37 | 14 |
| Indiana | 2 | – | 4 | – | – | – | 2 | – | – | 7 | 16 |
| Illinois | – | – | – | – | 3 | – | 2 | 2 | 8 | 56 | 34 |
| Michigan * | 7 | – | 160 | – | 1 | 2 | 2 | – | 14 | 60 | 91 |
| Wisconsin | – | – | 118 | – | – | – | – | – | – | 5 | 5 |
| WEST NORTH CENTRAL | 2 | 1 | 10 | – | 9 | – | – | 1 | 3 | 54 | 44 |
| Minnesota | – | 1 | – | – | – | – | – | – | – | 5 | 2 |
| Iowa | 1 | – | 3 | – | – | – | – | – | 2 | 14 | 6 |
| Missouri | – | – | 3 | – | – | – | – | – | – | 20 | 12 |
| North Dakota | – | – | 4 | – | – | – | – | 1 | – | 2 | 3 |
| South Dakota | – | – | – | – | 6 | – | – | – | – | 2 | 2 |
| Nebraska | – | – | – | – | 3 | – | – | – | – | 3 | – |
| Kansas | 1 | – | – | – | – | – | – | – | 1 | 8 | 19 |
| SOUTH ATLANTIC | 25 | – | 51 | – | 9 | 2 | 9 | – | 12 | 156 | 150 |
| Delaware | – | – | – | – | – | – | – | – | – | 5 | – |
| Maryland | 1 | – | 2 | – | 1 | – | – | – | 1 | 14 | 18 |
| District of Columbia | – | – | 7 | – | – | – | 1 | – | 1 | – | 1 |
| Virginia | 7 | – | 6 | – | – | 1 | 2 | – | 3 | 23 | 20 |
| West Virginia | 1 | – | 33 | – | – | 1 | 1 | – | – | 8 | 6 |
| North Carolina | 11 | – | NN | – | – | – | – | – | 2 | 29 | 30 |
| South Carolina | 1 | – | 3 | – | 1 | – | 1 | – | – | 7 | 9 |
| Georgia | – | – | – | – | 2 | – | – | – | – | 35 | 17 |
| Florida | 4 | – | – | – | 5 | – | 4 | – | 5 | 35 | 49 |
| EAST SOUTH CENTRAL | 8 | – | 59 | – | 3 | 2 | 3 | – | 2 | 50 | 49 |
| Kentucky | – | – | 56 | – | – | 2 | – | – | – | 22 | 14 |
| Tennessee | 7 | – | NN | – | – | – | 2 | – | 1 | 25 | 28 |
| Alabama | 1 | – | 3 | – | 3 | – | 1 | – | – | 1 | 5 |
| Mississippi | – | – | – | – | – | – | – | – | 1 | 2 | 2 |
| WEST SOUTH CENTRAL | 18 | – | 17 | – | 23 | 5 | 2 | – | 12 | 99 | 133 |
| Arkansas | – | – | – | – | – | – | – | – | – | 5 | 14 |
| Louisiana | 8 | – | NN | – | 4 | – | 1 | – | 3 | 16 | 8 |
| Oklahoma | 4 | – | 1 | – | – | 2 | 1 | – | – | 17 | 26 |
| Texas | 6 | – | 16 | – | 19 | 3 | – | – | 9 | 61 | 85 |
| MOUNTAIN | 1 | – | 37 | – | 5 | – | 2 | – | 4 | 61 | 78 |
| Montana | – | – | – | – | – | – | – | – | – | 3 | 5 |
| Idaho | 1 | – | – | – | 2 | – | 1 | – | – | 10 | 8 |
| Wyoming | – | – | – | – | – | – | – | – | – | – | – |
| Colorado | – | – | 4 | – | – | – | – | – | 1 | 14 | 23 |
| New Mexico | – | – | 2 | – | 1 | – | 1 | – | – | 2 | 7 |
| Arizona | – | – | 18 | – | 2 | – | – | – | – | 18 | 22 |
| Utah | – | – | 13 | – | – | – | – | – | 3 | 6 | 13 |
| Nevada | – | – | – | – | – | – | – | – | – | 8 | – |
| PACIFIC | 29 | 1 | 25 | 2 | 6 | 1 | 4 | – | 31 | 225 | 201 |
| Washington | – | – | 2 | 1 | 4 | – | – | – | 2 | 7 | 15 |
| Oregon | – | – | – | 1 | 1 | 1 | – | – | 1 | 37 | 22 |
| California | 27 | 1 | – | – | 1 | – | 4 | – | 28 | 166 | 155 |
| Alaska | 2 | – | – | – | – | – | – | – | – | 1 | 2 |
| Hawaii | – | – | 23 | – | – | – | – | – | – | 14 | 7 |
| Guam * | – | – | 11 | – | – | – | --- | – | – | – | --- |
| Puerto Rico * | – | – | 15 | – | – | – | – | – | 3 | 8 | 13 |
| Virgin Islands | – | – | 1 | – | – | – | – | – | – | – | – |

*Delayed reports: Aseptic Meningitis: N.J. delete 1
Chickenpox: Guam 6
Hepatitis B: N.H. 8, N.J. delete 4, Mich. 13, Guam 1
Hepatitis A: Me. 3, N.H. delete 8, N.J. delete 5, Guam 1, P.R. 16

## TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
FOR WEEKS ENDING AUGUST 12, 1972 AND AUGUST 14, 1971 (32nd WEEK) – Continued

| AREA | MALARIA | | MEASLES (Rubeola) | | | MENINGOCOCCAL INFECTIONS, TOTAL | | | MUMPS | | RUBELLA | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1972 | Cum. 1972 | 1972 | Cumulative | | 1972 | Cumulative | | 1972 | Cum. 1972 | 1972 | Cum. 1972 |
| | | | | 1972 | 1971 | | 1972 | 1971 | | | | |
| UNITED STATES | 7 | 648 | 213 | 26,356 | 67,871 | 21 | 940 | 1,653 | 452 | 55,280 | 164 | 20,123 |
| NEW ENGLAND | – | 19 | 25 | 3,059 | 3,397 | – | 38 | 72 | 13 | 2,328 | 7 | 939 |
| Maine | – | 2 | – | 243 | 1,460 | – | 3 | 8 | 5 | 270 | 1 | 67 |
| New Hampshire | – | 3 | 1 | 228 | 206 | – | 3 | 11 | 2 | 182 | – | 32 |
| Vermont | – | 1 | – | 125 | 110 | – | – | – | – | 111 | – | 68 |
| Massachusetts | – | 6 | 10 | 665 | 235 | – | 18 | 28 | 2 | 562 | 5 | 434 |
| Rhode Island | – | – | – | 519 | 238 | – | 10 | 3 | 1 | 369 | – | 88 |
| Connecticut | – | 7 | 14 | 1,279 | 1,148 | – | 4 | 22 | 3 | 834 | 1 | 250 |
| MIDDLE ATLANTIC | 1 | 49 | 48 | 957 | 7,437 | 3 | 117 | 217 | 71 | 2,980 | 9 | 1,839 |
| Upstate New York | 1 | 10 | – | 124 | 634 | 2 | 32 | 61 | NN | NN | 6 | 233 |
| New York City | – | 7 | 48 | 294 | 3,714 | 1 | 36 | 41 | 66 | 1,636 | 3 | 205 |
| New Jersey | – | 16 | – | 484 | 1,186 | – | 24 | 51 | 5 | 697 | – | 1,156 |
| Pennsylvania | --- | 16 | --- | 55 | 1,903 | --- | 25 | 64 | --- | 647 | --- | 245 |
| EAST NORTH CENTRAL | 3 | 68 | 71 | 10,855 | 14,996 | 9 | 139 | 185 | 120 | 15,229 | 36 | 5,427 |
| Ohio | – | 11 | 2 | 235 | 3,971 | 1 | 54 | 55 | 8 | 2,133 | 2 | 383 |
| Indiana | – | 1 | 3 | 1,225 | 2,666 | – | 11 | 14 | 6 | 978 | 4 | 649 |
| Illinois | 1 | 26 | 38 | 4,034 | 2,890 | 5 | 30 | 54 | 14 | 2,682 | 5 | 1,014 |
| Michigan * | 2 | 27 | 10 | 1,968 | 2,238 | 3 | 38 | 51 | 35 | 2,661 | 12 | 1,249 |
| Wisconsin | – | 3 | 18 | 3,393 | 3,231 | – | 6 | 11 | 57 | 6,775 | 13 | 2,132 |
| WEST NORTH CENTRAL | 1 | 43 | 8 | 933 | 6,777 | – | 68 | 123 | 24 | 8,249 | 1 | 1,251 |
| Minnesota | 1 | 6 | – | 19 | 52 | – | 19 | 21 | 1 | 672 | – | 488 |
| Iowa | – | 3 | 2 | 650 | 2,237 | – | 2 | 9 | 3 | 5,666 | – | 379 |
| Missouri | – | 11 | – | 162 | 2,593 | – | 20 | 44 | 2 | 509 | 1 | 109 |
| North Dakota | – | 1 | – | 51 | 231 | – | – | 5 | – | 319 | – | 22 |
| South Dakota | – | 4 | – | 6 | 215 | – | 2 | 5 | – | 117 | – | 12 |
| Nebraska | – | 3 | – | 18 | 63 | – | 9 | 14 | 18 | 268 | – | 50 |
| Kansas | – | 15 | 6 | 27 | 1,386 | – | 16 | 25 | – | 698 | – | 191 |
| SOUTH ATLANTIC | – | 99 | 8 | 2,096 | 7,439 | 3 | 211 | 294 | 33 | 5,152 | 7 | 1,560 |
| Delaware | – | – | – | 48 | 36 | – | 1 | 2 | 3 | 86 | – | 7 |
| Maryland | – | 8 | – | 15 | 524 | – | 33 | 44 | 7 | 314 | – | 45 |
| District of Columbia | – | 5 | – | 2 | 15 | – | 9 | 11 | – | 20 | – | 6 |
| Virginia | – | 4 | – | 59 | 1,535 | – | 47 | 33 | 6 | 1,102 | 1 | 70 |
| West Virginia * | – | 3 | 3 | 261 | 486 | – | 7 | 7 | 9 | 2,301 | 4 | 378 |
| North Carolina | – | 36 | – | 32 | 1,921 | 1 | 27 | 52 | NN | NN | – | 28 |
| South Carolina | – | 10 | – | 214 | 899 | – | 20 | 20 | 1 | 166 | – | 50 |
| Georgia | – | 22 | 1 | 165 | 275 | 2 | 10 | 23 | – | 22 | – | 57 |
| Florida | – | 11 | 4 | 1,300 | 1,748 | – | 57 | 102 | 7 | 1,141 | 2 | 919 |
| EAST SOUTH CENTRAL | – | 161 | 11 | 1,031 | 8,135 | 1 | 76 | 140 | 22 | 2,912 | 4 | 1,493 |
| Kentucky | – | 142 | 1 | 519 | 3,878 | 1 | 25 | 37 | 4 | 453 | – | 843 |
| Tennessee | – | – | – | 191 | 1,013 | – | 28 | 53 | 11 | 1,857 | 4 | 495 |
| Alabama | – | 15 | 9 | 140 | 1,833 | – | 15 | 28 | 7 | 493 | – | 44 |
| Mississippi | – | 4 | 1 | 181 | 1,411 | – | 8 | 22 | – | 109 | – | 111 |
| WEST SOUTH CENTRAL | 1 | 70 | 17 | 1,419 | 12,288 | 2 | 115 | 144 | 53 | 4,665 | 24 | 1,458 |
| Arkansas | – | 5 | – | 13 | 777 | – | 9 | 5 | – | 160 | – | 35 |
| Louisiana | 1 | 6 | – | 82 | 1,666 | 1 | 35 | 50 | – | 293 | 2 | 87 |
| Oklahoma | – | 4 | – | 10 | 750 | – | 6 | 7 | – | 155 | – | 33 |
| Texas | – | 55 | 17 | 1,314 | 9,095 | 1 | 65 | 82 | 53 | 4,057 | 22 | 1,303 |
| MOUNTAIN | – | 42 | 8 | 1,745 | 3,159 | 1 | 17 | 51 | 24 | 2,847 | 13 | 1,057 |
| Montana | – | 2 | 3 | 15 | 918 | – | 2 | 6 | – | 172 | 2 | 30 |
| Idaho | – | 3 | – | 24 | 271 | – | 4 | 7 | – | 195 | – | 25 |
| Wyoming | – | 1 | – | 51 | 85 | – | 1 | 2 | – | 219 | – | 8 |
| Colorado * | – | 27 | – | 517 | 810 | 1 | 4 | 7 | 2 | 734 | – | 515 |
| New Mexico | – | 1 | 1 | 114 | 336 | – | 2 | 4 | 1 | 554 | 6 | 93 |
| Arizona | – | 6 | 2 | 869 | 403 | – | 1 | 8 | 14 | 790 | 5 | 355 |
| Utah | – | 2 | 2 | 155 | 329 | – | 2 | 14 | 7 | 138 | – | 28 |
| Nevada | – | – | – | – | 7 | – | 1 | 3 | – | 45 | – | 3 |
| PACIFIC | 1 | 97 | 17 | 4,261 | 4,243 | 2 | 159 | 427 | 92 | 10,918 | 63 | 5,099 |
| Washington | – | – | 1 | 973 | 981 | – | 12 | 23 | 2 | 3,556 | – | 819 |
| Oregon | – | 11 | 2 | 115 | 370 | – | 13 | 31 | 22 | 1,489 | 5 | 354 |
| California | – | 74 | 14 | 3,067 | 2,487 | 2 | 125 | 366 | 56 | 5,516 | 55 | 3,856 |
| Alaska | 1 | 3 | – | 11 | 53 | – | 6 | – | 1 | 97 | – | 20 |
| Hawaii | – | 9 | – | 95 | 352 | – | 3 | 7 | 11 | 260 | 3 | 50 |
| Guam * | – | 2 | – | 6 | --- | – | 11 | --- | – | 4 | 2 | 8 |
| Puerto Rico | – | 4 | 24 | 585 | 442 | – | 4 | 5 | 28 | 737 | 3 | 20 |
| Virgin Islands | – | – | 1 | 2 | 15 | – | 2 | – | – | 129 | – | 3 |

*Delayed reports: Measles: Colo. 3, Guam 2 Mumps: Colo. 4
Meningococcal Infections: W. Va. 1 Rubella: Mich. 8

## TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
FOR WEEKS ENDING AUGUST 12, 1972 AND AUGUST 14, 1971 (32nd WEEK) – Continued

| AREA | TETANUS | TB (New, Active) | TULAREMIA | | TYPHOID FEVER | | TYPHUS FEVER TICK-BORNE (Rky. Mt. spotted fever) | | VENEREAL DISEASES | | RABIES IN ANIMALS | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | GONORRHEA | SYPHILIS (Pri. & Sec.) | | |
| | 1972 | 1972 | 1972 | Cum. 1972 | 1972 | Cum. 1972 | 1972 | Cum. 1972 | 1972 | 1972 | 1972 | Cum. 1972 |
| UNITED STATES | 2 | 723 | 6 | 83 | 11 | 196 | 27 | 324 | 15,907 | 557 | 77 | 2,685 |
| NEW ENGLAND | – | 41 | – | – | – | 11 | – | – | 671 | 9 | 3 | 86 |
| Maine | – | 1 | – | – | – | – | – | – | 26 | 2 | 2 | 67 |
| New Hampshire | – | 1 | – | – | – | 2 | – | – | 25 | 1 | 1 | 3 |
| Vermont | – | – | – | – | – | – | – | – | 23 | – | – | 8 |
| Massachusetts | – | 31 | – | – | – | 7 | – | – | 360 | – | – | 2 |
| Rhode Island | – | 1 | – | – | – | – | – | – | 35 | – | – | 2 |
| Connecticut | – | 7 | – | – | – | 2 | – | – | 202 | 6 | – | 4 |
| MIDDLE ATLANTIC | 1 | 66 | – | 1 | – | 34 | 2 | 18 | 1,852 | 126 | 2 | 60 |
| Upstate New York | – | 13 | – | – | – | 11 | 1 | 5 | 484 | 9 | 2 | 32 |
| New York City | 1 | 32 | – | – | – | 19 | – | 1 | 1,001 | 87 | – | – |
| New Jersey | – | 21 | – | 1 | – | 3 | 1 | 7 | 367 | 30 | – | – |
| Pennsylvania | --- | --- | --- | – | --- | 1 | --- | 5 | --- | --- | --- | 28 |
| EAST NORTH CENTRAL | – | 127 | – | 1 | 1 | 15 | 2 | 19 | 1,743 | 57 | 11 | 274 |
| Ohio | – | 55 | – | 1 | – | 5 | 2 | 18 | 745 | 4 | – | 70 |
| Indiana | – | 6 | – | – | – | – | – | – | 117 | 35 | 1 | 60 |
| Illinois | – | 26 | – | – | 1 | 4 | – | – | 128 | 2 | 2 | 49 |
| Michigan * | – | 40 | – | – | – | 5 | – | – | 615 | 16 | 2 | 6 |
| Wisconsin | – | – | – | – | – | 1 | – | 1 | 138 | – | 6 | 89 |
| WEST NORTH CENTRAL | – | 28 | 1 | 19 | 1 | 5 | – | 14 | 757 | 7 | 23 | 743 |
| Minnesota | – | 7 | – | – | – | – | – | – | 200 | 2 | 3 | 166 |
| Iowa | – | 2 | – | – | – | – | – | 2 | 182 | 1 | 12 | 231 |
| Missouri | – | 14 | – | 14 | – | 3 | – | 8 | 140 | 4 | 2 | 65 |
| North Dakota | – | 1 | – | – | – | – | – | – | 16 | – | 4 | 103 |
| South Dakota | – | 1 | – | 1 | – | – | – | 3 | 10 | – | – | 76 |
| Nebraska | – | – | – | 1 | – | – | – | – | 61 | – | – | 10 |
| Kansas * | – | 3 | 1 | 3 | 1 | 2 | – | 1 | 148 | – | 2 | 92 |
| SOUTH ATLANTIC | – | 113 | 1 | 10 | 1 | 23 | 14 | 179 | 3,231 | 136 | 15 | 244 |
| Delaware | – | – | – | – | – | – | – | 1 | 28 | – | – | – |
| Maryland * | – | 25 | – | 1 | 1 | 6 | – | 25 | 445 | 10 | 3 | 11 |
| District of Columbia | – | 1 | – | – | – | 2 | – | 1 | 362 | 12 | – | – |
| Virginia | – | 17 | 1 | 7 | – | 7 | 3 | 41 | 458 | 42 | 6 | 66 |
| West Virginia | – | 9 | – | – | – | 1 | – | 3 | 30 | – | 1 | 46 |
| North Carolina * | – | 23 | – | – | – | – | 8 | 78 | 500 | 10 | – | 1 |
| South Carolina | – | 12 | – | – | – | – | – | 13 | 460 | 7 | 1 | 10 |
| Georgia | – | 11 | – | 1 | – | 1 | 3 | 17 | 151 | 17 | 1 | 62 |
| Florida | – | 15 | – | 1 | – | 6 | – | – | 797 | 38 | 3 | 48 |
| EAST SOUTH CENTRAL | – | 63 | – | 5 | 3 | 23 | 8 | 52 | 2,062 | 51 | 2 | 494 |
| Kentucky | – | 7 | – | – | – | 5 | – | 1 | 172 | 24 | – | 190 |
| Tennessee | – | 25 | – | 4 | 1 | 8 | 3 | 36 | 597 | 13 | 2 | 255 |
| Alabama | – | 15 | – | 1 | 2 | 5 | 1 | 4 | 951 | 6 | – | 48 |
| Mississippi | – | 16 | – | – | – | 5 | 4 | 11 | 342 | 8 | – | 1 |
| WEST SOUTH CENTRAL | 1 | 176 | 2 | 37 | 1 | 26 | 1 | 37 | 2,142 | 60 | 12 | 557 |
| Arkansas * | – | 19 | 2 | 23 | – | 9 | – | 4 | 231 | 3 | 4 | 79 |
| Louisiana * | – | – | – | 2 | 1 | 5 | – | – | 427 | 25 | – | 27 |
| Oklahoma | – | 10 | – | 8 | – | 1 | 1 | 27 | 212 | 3 | 5 | 227 |
| Texas | 1 | 147 | – | 4 | – | 11 | – | 6 | 1,272 | 29 | 3 | 224 |
| MOUNTAIN | – | 16 | 2 | 8 | – | 5 | – | 4 | 715 | 16 | 2 | 59 |
| Montana | – | – | – | – | – | – | – | 1 | 31 | – | 2 | 5 |
| Idaho | – | 1 | – | – | – | – | – | 3 | 31 | – | – | – |
| Wyoming | – | – | – | – | – | – | – | – | 10 | – | – | 1 |
| Colorado * | – | 1 | – | 1 | – | – | – | – | 289 | 5 | – | – |
| New Mexico | – | 7 | – | – | – | 1 | – | – | 149 | – | – | 15 |
| Arizona * | – | 5 | – | 2 | – | 2 | – | – | 100 | 6 | – | 36 |
| Utah | – | 2 | 2 | 5 | – | 2 | – | – | 30 | – | – | 1 |
| Nevada | – | – | – | – | – | – | – | – | 75 | 5 | – | 1 |
| PACIFIC | – | 93 | – | 2 | 4 | 54 | – | 1 | 2,734 | 95 | 7 | 168 |
| Washington | – | – | – | – | – | 2 | – | 1 | 223 | 1 | – | – |
| Oregon | – | 6 | – | 1 | – | – | – | – | 207 | 1 | – | 1 |
| California | – | 78 | – | – | 4 | 49 | – | – | 2,238 | 93 | 7 | 160 |
| Alaska | – | – | – | 1 | – | – | – | – | 14 | – | – | 7 |
| Hawaii | – | 9 | – | – | – | 3 | – | – | 52 | – | – | – |
| Guam * | – | 4 | – | – | – | – | – | – | 8 | – | – | – |
| Puerto Rico | – | 15 | – | – | – | 5 | – | – | 77 | 6 | – | 36 |
| Virgin Islands | – | 1 | – | – | – | – | – | – | – | 1 | – | – |

*Delayed reports: Tuberculosis: Kans. delete 1, N.C. delete 3, Ariz. delete 2, Colo. 5, Guam 2
Gonorrhea: Mich. 400, Ark. 387, La. delete 1, Colo. 60, Guam 18
Syphilis: Colo. 2
Rabies in animals: Md. 2, Ariz. 2

Week No. 32

## TABLE IV. DEATHS IN 122 UNITED STATES CITIES FOR WEEK ENDING AUGUST 12, 1972

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

| Area | All Causes | | | Pneumonia and Influenza | Area | All Causes | | | Pneumonia and Influenza |
|---|---|---|---|---|---|---|---|---|---|
| | All Ages | 65 years and over | Under 1 year | All Ages | | All Ages | 65 years and over | Under 1 year | All Ages |
| NEW ENGLAND | 662 | 409 | 22 | 27 | SOUTH ATLANTIC | 1,245 | 680 | 47 | 47 |
| Boston, Mass. | 202 | 116 | 10 | 12 | Atlanta, Ga. | 111 | 49 | 3 | 2 |
| Bridgeport, Conn. | 22 | 12 | 3 | 1 | Baltimore, Md. | 231 | 122 | 9 | 4 |
| Cambridge, Mass. | 19 | 14 | 1 | 1 | Charlotte, N. C. | 68 | 32 | 2 | – |
| Fall River, Mass. | 29 | 20 | – | 1 | Jacksonville, Fla. | 75 | 40 | 5 | – |
| Hartford, Conn. | 73 | 44 | 2 | – | Miami, Fla. | 110 | 60 | 3 | – |
| Lowell, Mass. | 28 | 22 | – | 1 | Norfolk, Va. | 63 | 31 | 5 | 7 |
| Lynn, Mass. | 18 | 14 | – | 1 | Richmond, Va. | 104 | 51 | 2 | 11 |
| New Bedford, Mass. | 27 | 19 | – | 1 | Savannah, Ga. | 35 | 23 | – | 3 |
| New Haven, Conn. | 50 | 24 | 2 | – | St. Petersburg, Fla. | 86 | 71 | – | 3 |
| Providence, R. I. | 54 | 32 | 3 | 2 | Tampa, Fla. | 79 | 41 | 5 | 8 |
| Somerville, Mass. | 16 | 10 | – | – | Washington, D. C. | 235 | 133 | 11 | 6 |
| Springfield, Mass. | 45 | 29 | – | 2 | Wilmington, Del. | 48 | 27 | 2 | 3 |
| Waterbury, Conn. | 30 | 19 | – | – | | | | | |
| Worcester, Mass. | 49 | 34 | 1 | 5 | EAST SOUTH CENTRAL | 654 | 353 | 19 | 21 |
| | | | | | Birmingham, Ala. | 95 | 42 | – | 2 |
| MIDDLE ATLANTIC | 3,090 | 1,931 | 105 | 154 | Chattanooga, Tenn. | 75 | 36 | 5 | 4 |
| Albany, N. Y. | 40 | 26 | 2 | – | Knoxville, Tenn. | 34 | 19 | – | – |
| Allentown, Pa. | 22 | 16 | – | 5 | Louisville, Ky. | 118 | 73 | 4 | 7 |
| Buffalo, N. Y. | 160 | 104 | 4 | 10 | Memphis, Tenn. | 146 | 78 | 5 | 2 |
| Camden, N. J. | 35 | 24 | 1 | 1 | Mobile, Ala. | 43 | 30 | 3 | – |
| Elizabeth, N. J. | 23 | 17 | – | 1 | Montgomery, Ala. | 38 | 22 | 1 | 1 |
| Erie, Pa. | 41 | 22 | 1 | 4 | Nashville, Tenn. | 105 | 53 | 1 | 5 |
| Jersey City, N. J. | 66 | 39 | 3 | 2 | | | | | |
| Newark, N. J. | 59 | 29 | 3 | – | WEST SOUTH CENTRAL | 1,164 | 595 | 69 | 26 |
| New York City, N. Y. ** | 1,533 | 952 | 58 | 80 | Austin, Tex. | 33 | 20 | – | 2 |
| Paterson, N. J. ** | 43 | 27 | 2 | 3 | Baton Rouge, La. | 40 | 12 | 3 | 1 |
| Philadelphia, Pa. | 490 | 305 | 20 | 12 | Corpus Christi, Tex. | 35 | 19 | 1 | – |
| Pittsburgh, Pa. | 151 | 95 | 2 | 4 | Dallas, Tex. | 149 | 70 | 7 | 3 |
| Reading, Pa. | 38 | 26 | – | 4 | El Paso, Tex. | 42 | 20 | 5 | 1 |
| Rochester, N. Y. | 111 | 76 | 3 | 14 | Fort Worth, Tex. | 66 | 35 | 7 | – |
| Schenectady, N. Y. | 23 | 14 | 1 | – | Houston, Tex. | 253 | 118 | 15 | 2 |
| Scranton, Pa. | 50 | 24 | 1 | 3 | Little Rock, Ark. | 47 | 27 | 2 | – |
| Syracuse, N. Y. | 103 | 70 | 2 | 3 | New Orleans, La. | 173 | 90 | 14 | 7 |
| Trenton, N. J. | 45 | 28 | 2 | 3 | Oklahoma City, Okla.** | 83 | 46 | 5 | 1 |
| Utica, N. Y. | 27 | 19 | – | 3 | San Antonio, Tex. | 118 | 62 | 7 | 1 |
| Yonkers, N. Y. | 30 | 18 | – | 2 | Shreveport, La. | 58 | 35 | 2 | 3 |
| | | | | | Tulsa, Okla. | 67 | 41 | 1 | 5 |
| EAST NORTH CENTRAL | 2,481 | 1,364 | 119 | 73 | | | | | |
| Akron, Ohio | 54 | 32 | 6 | – | MOUNTAIN | 487 | 260 | 30 | 12 |
| Canton, Ohio | 24 | 13 | 4 | – | Albuquerque, N. Mex. | 57 | 27 | 3 | 6 |
| Chicago, Ill. | 621 | 323 | 17 | 18 | Colorado Springs, Colo. | 36 | 19 | 3 | – |
| Cincinnati, Ohio | 169 | 104 | 3 | 3 | Denver, Colo. | 122 | 66 | 6 | 4 |
| Cleveland, Ohio | 167 | 71 | 9 | 1 | Ogden, Utah | 15 | 9 | – | – |
| Columbus, Ohio | 133 | 79 | 6 | 3 | Phoenix, Ariz. | 111 | 64 | 4 | 1 |
| Dayton, Ohio | 102 | 60 | 1 | 1 | Pueblo, Colo. | 20 | 11 | 1 | 1 |
| Detroit, Mich. | 345 | 173 | 22 | 7 | Salt Lake City, Utah | 58 | 32 | 6 | – |
| Evansville, Ind. | 59 | 39 | 2 | 4 | Tucson, Ariz. | 68 | 32 | 7 | – |
| Flint, Mich** | 50 | 26 | 4 | 2 | | | | | |
| Fort Wayne, Ind. | 52 | 31 | 1 | 3 | PACIFIC | 1,617 | 976 | 61 | 36 |
| Gary, Ind. | 35 | 16 | 3 | 5 | Berkeley, Calif. | 18 | 12 | – | – |
| Grand Rapids, Mich. | 71 | 51 | 4 | 7 | Fresno, Calif. | 67 | 41 | 1 | 1 |
| Indianapolis, Ind. | 144 | 69 | 10 | 4 | Glendale, Calif. | 22 | 16 | – | – |
| Madison, Wis. | 29 | 14 | 2 | – | Honolulu, Hawaii | 53 | 30 | 1 | 4 |
| Milwaukee, Wis. | 129 | 73 | 18 | 1 | Long Beach, Calif. | 115 | 71 | – | 4 |
| Peoria, Ill. | 37 | 18 | 4 | – | Los Angeles, Calif. | 505 | 298 | 17 | 10 |
| Rockford, Ill. | 33 | 22 | – | 4 | Oakland, Calif. | 62 | 31 | 8 | – |
| South Bend, Ind. | 43 | 29 | – | 5 | Pasadena, Calif. | 34 | 26 | – | 1 |
| Toledo, Ohio | 105 | 66 | 2 | 4 | Portland, Oreg. | 122 | 72 | 9 | 3 |
| Youngstown, Ohio | 79 | 55 | 1 | 1 | Sacramento, Calif. | 68 | 36 | 7 | 2 |
| | | | | | San Diego, Calif. | 112 | 60 | 4 | 1 |
| WEST NORTH CENTRAL | 784 | 463 | 54 | 13 | San Francisco, Calif. | 200 | 126 | 5 | 5 |
| Des Moines, Iowa | 46 | 22 | 2 | 1 | San Jose, Calif. | 49 | 32 | 1 | – |
| Duluth, Minn. | 37 | 21 | 2 | 3 | Seattle, Wash. | 106 | 71 | 4 | 2 |
| Kansas City, Kans. | 35 | 19 | 4 | – | Spokane, Wash. | 50 | 34 | 2 | 3 |
| Kansas City, Mo. | 131 | 83 | 5 | 2 | Tacoma, Wash. | 34 | 20 | 2 | – |
| Lincoln, Nebr. | 15 | 11 | – | 1 | | | | | |
| Minneapolis, Minn. | 97 | 48 | 12 | 1 | Total | 12,184 | 7,031 | 526 | 409 |
| Omaha, Nebr. | 92 | 56 | 9 | 2 | | | | | |
| St. Louis, Mo. | 215 | 136 | 11 | 2 | Expected Number | 12,196 | 6,846 | 571 | 408 |
| St. Paul, Minn. | 75 | 50 | 3 | 1 | | | | | |
| Wichita, Kans. | 41 | 17 | 6 | – | Cumulative Total (includes reported corrections for previous weeks) | 412,076 | 240,483 | 16,180 | 16,885 |
| Las Vegas, Nev.* | --- | --- | --- | --- | | | | | |

*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.

## EPIDEMIOLOGIC NOTES AND REPORTS

### TYPHOID FEVER – Alabama

On May 14, and June 8, 1972, two cases of typhoid fever occurred in Mobile, Alabama. Both were 13-year-old boys who experienced fever, (temperatures of 101°F.-104°F.) headaches, vomiting, abdominal pain, and diarrhea. Both were admitted to local hospitals.

Blood specimens from each patient were cultured at the State Laboratory in Montgomery, Alabama, and yielded *Salmonella typhi*, phage type F-2. Neither patient had a positive stool culture. Both were treated with chloramphenicol and made uneventful recoveries. Thirty-three known contacts and all food handlers at the school that the boys attended submitted stool specimens; all were negative for viable pathogens.

Epidemiologic investigation revealed that both patients lived in the same neighborhood and sometimes swam together in ditches, ponds, and a river in Mobile. In late May, water samples were collected at all areas and tested. From one of the drainage ditches where the boys swam, the most probable numbers of total and fecal coliforms were both more than $23 \times 10^6$ per 100 cc of water. A search was made for a source of fecal contamination of the drainage ditch. A backup of sewage due to an inoperative lift station was found nearby. Introduction of dye into the sewer confirmed that sewage had overflowed into a drainage ditch that emptied into the swimming area. *S. typhi* was not isolated from a sample of this water tested in early June; however, *Shigella flexneri* type 2 was found.

Since 1960, nine cases of typhoid fever have been reported in Mobile County. The last three cases occurred in 1962. A search for these nine cases was conducted. Two were found still living in Mobile, near the implicated swimming area; the other seven cases had moved from Mobile. Stool cultures from the two cases were negative for enteric pathogens.

*(Reported by E.A. Dudley, Jr., M.D., private physician; C.W. Bodie, M.D., Mobile General Hospital; John E. Cutts, D.V.M., Chief, Lois Hawkins, R.N., Disease Investigator, Division of Epidemiology, Joe M. Dawsey, Chief, Division of Food Inspection, and G.W. Newburn, M.D., Health Officer, Mobile County Health Department; Thomas H. Hosty, Ph.D., Director, Department of Health Laboratories, and Frederick S. Wolf, M.D., State Epidemiologist, Alabama Department of Public Health.)*

**Editorial Note**

The source of these two cases of typhoid fever is not known; however, the extremely high levels of fecal coliforms found in the swimming water, the presence of *S. flexneri*, and the lack of positive contacts of the patients, indicate that the source of infection in both cases was probably the sewage-contaminated water.

**ERRATUM, Vol. 21, No. 31, p. 272:**

In the article "Quarantine Measures," the "Supplement – Vaccination Certificate Requirements" was numbered incorrectly as Vol. 20. This supplement should be Vol. 21.

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

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

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