CENTER FOR DISEASE CONTROL

# Morbidity and Mortality

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WEEKLY REPORT

For Week Ending December 15, 1973

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

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CONTENTS



## EPIDEMIOLOGIC NOTES AND REPORTS

### BOTULISM – Kentucky

On October 16, 1973, a 60-year-old woman from Horse Cave, Kentucky, and her 62-year-old husband experienced severe vomiting and abdominal pain. The following day their symptoms persisted, and both developed blurred vision, diplopia, difficulty in swallowing, difficulty in breathing, and a change in the quality of their voices. The next day they were admitted to a local hospital.

On admission both patients appeared mildly dehydrated. Their voices were husky in character, and their mouths were dry. Neurologic signs included bilateral ptosis and facial weakness, depressed gag reflex, inability to protrude their tongues, and slightly dilated, nonreactive pupils. Both had mild weakness of all extremities and diminished deep tendon reflexes. Catheterization was required because of inability to void. Because the patients had been stripping leaves from tobacco plants for 5 days prior to their illness, their physicians made a tentative diagnosis of organophosphorous poisoning.

The wife's symptoms gradually worsened, and on October 23 she suffered a respiratory arrest. Following resuscita-

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

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

| DISEASE | 50th WEEK ENDING | | MEDIAN 1968-1972 | CUMULATIVE, FIRST 50 WEEKS | | |
|---|---|---|---|---|---|---|
| | December 15, 1973 | December 16, 1972 | | 1973 | 1972 | MEDIAN 1968-1972 |
| Aseptic meningitis | 77 | 73 | 73 | 4,571 | 4,144 | 4,249 |
| Brucellosis | 4 | 3 | 3 | 175 | 181 | 203 |
| Chickenpox | 1,913 | 3,253 | – – – | 157,683 | 134,243 | – – – |
| Diphtheria | 10 | 5 | 5 | 192 | 118 | 196 |
| Encephalitis, primary: | | | | | | |
| Arthropod-borne and unspecified | 21 | 19 | 28 | 1,468 | 1,098 | 1,400 |
| Encephalitis, post-infectious | 2 | 5 | 5 | 264 | 266 | 321 |
| Hepatitis, serum (Hepatitis B) | 168 | 139 | 139 | 7,829 | 8,575 | 7,072 |
| Hepatitis, infectious (Hepatitis A) | 1,059 | 1,011 | 1,057 | 49,900 | 52,718 | 52,718 |
| Malaria | 4 | 4 | 56 | 235 | 801 | 2,818 |
| Measles (rubeola) | 199 | 409 | 481 | 26,245 | 30,679 | 30,679 |
| Meningococcal infections, total | 27 | 24 | 49 | 1,316 | 1,289 | 2,379 |
| Civilian | 27 | 24 | 40 | 1,290 | 1,241 | 2,094 |
| Military | – | – | 5 | 26 | 48 | 220 |
| Mumps | 1,273 | 1,510 | 2,386 | 66,774 | 68,735 | 98,433 |
| Rubella (German measles) | 155 | 263 | 357 | 27,634 | 24,153 | 47,728 |
| Tetanus | 1 | 2 | 2 | 86 | 115 | 134 |
| Tuberculosis, new active | 602 | 619 | – – – | 30,057 | 32,585 | – – – |
| Tularemia | 2 | 4 | 4 | 157 | 140 | 153 |
| Typhoid fever | 5 | 10 | 10 | 615 | 371 | 371 |
| Typhus, tick-borne (Rky. Mt. spotted fever) | 1 | 1 | 1 | 627 | 520 | 402 |
| Venereal Diseases: | | | | | | |
| Gonorrhea | 16,729 | 15,226 | – – – | 797,234 | 730,184 | – – – |
| Syphilis, primary and secondary | 422 | 502 | – – – | 24,430 | 24,760 | – – – |
| Rabies in animals | 32 | 42 | 60 | 3,223 | 3,867 | 3,257 |

## TABLE II. NOTIFIABLE DISEASES OF LOW FREQUENCY

| | Cum. | | Cum. |
|---|---|---|---|
| Anthrax: | 1 | Poliomyelitis, total: | 7 |
| Botulism: Alaska-1, Calif.-4 | 32 | Paralytic: | 5 |
| Congenital rubella syndrome: Calif.-1, Mich.-2, Tex.-3 | 37 | Psittacosis: | 25 |
| Leprosy: Ariz.-2, Calif.-3, Tex.-1 | 131 | Rabies in man: | 1 |
| Leptospirosis: Hawaii 1, Minn. 1 | 38 | Trichinosis: NYC-1 | 77 |
| Plague: | 2 | Typhus, murine: | 31 |

**BOTULISM – Continued**

tion she developed progressive respiratory failure, bilateral lower lobe pneumonia, and on October 28 she died. After performing the autopsy and finding no obvious cause of death, the district medical examiner suggested a diagnosis of botulism. Accordingly, on November 6, a member of the Division of Laboratory Services, Kentucky Bureau for Health Services, requested a serum and stool specimen from the surviving husband. Four days later the Kentucky laboratory reported detection of type B botulinal toxin in the husband's serum; a few days later type B toxin was also found in the stool specimen. Because of the improvement in his illness prior to laboratory confirmation, botulinal antitoxin was not given to the husband. Follow-up serum and stool specimens collected from the husband on day 28 of his illness were also positive for type B botulinal toxin. *Clostridium botulinum*, type B, was also isolated from his feces collected that day. Subsequent tests performed 2 weeks later were negative.

During an investigation carried out on November 14, an opened jar of home-canned blackberries which the patients were thought to have consumed shortly before their illness was found in their home. *C. botulinum*, type B, organisms were found in the berries; no toxin was detected.

The husband is recovering satisfactorily; he was discharged from the hospital on December 13.

*(Reported by M.E. Bandy, M.D., and R.R. Starr, M.D., private physicians, Glasgow, Kentucky; G. Kilgore, Ph.D., and B.F. Brown, M.D., Director, Division of Laboratory Services, Rhenda Bonner, R.N., Nurse Epidemiologist, and Calixto Hernandez, M.D., State Epidemiologist, Bureau for Health Services, Kentucky Department of Human Resources; the Food and Drug Administration; the Anaerobe Unit, Enterobacteriology Section, Bacteriology Branch, Bureau of Laboratories; and the Enteric Diseases Section, Bacterial Diseases Branch, Bureau of Epidemiology, CDC).*

**Editorial Note**

The signs and symptoms exhibited by these patients were characteristic of botulism, and laboratory tests confirmed that the husband's disease was caused by *C. botulinum*, type B. Although preformed botulinal toxin was not found in the blackberries, *C. botulinum*, type B, was isolated. The blackberries were canned by a "cold packing" procedure which entails boiling raw canned berries in a water bath at normal atmospheric pressure. Although contamination of the berries could have occurred after the jar was opened, it is also possible that inadequate heating of the berries allowed survival of any *C. botulinum* spores present in the berries prior to canning.

The events of this outbreak emphasize again that botulism should be strongly considered when 1 or more individuals exhibit an unexplained neurologic illness characterized by symmetrical cranial nerve palsies. Detection of botulinal toxin in serum and stool specimens 28 days after onset of illness demonstrates that laboratory confirmation of suspect botulism should be attempted even late in the patient's clinical course.

Detection of toxin so late in the patient's illness also raises the possibility that in addition to botulism being caused by the ingestion of preformed toxin, it may also be caused by toxin produced *in vivo* by vegetative cells of *C. botulinum*. This possibility has been discussed by other workers *(1,2)*, but as yet there is little experimental evidence to show that it can occur.

**References**

1. Starin WA, Dack GM: Pathogenicity of *Clostridium botulinum*. J Infect Dis 36:383-412, 1928

2. Shredov LM: Enterally administered antiserum used in the neutralization of toxin formed in the digestive tract during experimental toxin infection with botulism type A. Zh Mikrobiol Epidemiol Immunobiol 30:1-12, 1959

## *VIBRIO PARAHAEMOLYTICUS* GASTROENTERITIS – California

On February 20, 1973, a California housewife became ill with abrupt lower abdominal cramps and then profuse watery diarrhea and vomiting. She was admitted to the Stanford University Medical Center where physical examination revealed a moderately tender abdomen. Her white blood cell count was 25,700 with a slight shift to the left. A stool specimen cultured on TCBS agar yielded a heavy growth of *Vibrio parahaemolyticus*, type 04:K12, Kanagawa positive. Sigmoidoscopy was possible only to 15 cm but was normal. She felt better after treatment with intravenous fluids and perchlorpromazine and was discharged in 2 days; however, 4 days later her symptoms recurred, and she was readmitted. This time she was treated with tetracycline 500 mg 4 times per day for 1 week. Within 2 days of the treatment she had recovered and has since remained well.

Twenty-three hours prior to onset of illness, the patient, along with 3 family members, had eaten cooked conch meat. They gave no history of exposure to any other seafood during the several days prior to illness. Cultures of leftover, refrigerated conch meat and stool specimens from 2 of the other family members, who were well, were all negative for *V. parahaemolyticus*.

*(Reported by the Infectious Disease Section, California State Department of Health:* California Morbidity, *No. 46, 23 Nov 1973.)*

**Editorial Note**

Despite the lack of incriminating epidemiologic or laboratory evidence, the association of illness with conch meat ingestion suggests this as the likeliest source of infection. An association between conch meat and *V. parahaemolyticus* infection has not been previously reported in the western hemisphere; however, a wide variety of other types of seafood have been implicated as vehicles of *V. parahaemolyticus* in the United States (MMWR, Vol. 22, No. 27).

Treatment with tetracycline appears to have aided in the abatement of symptoms in this patient. While clinical trials to assess the efficacy of antibiotic treatment of *V. parahaemolyticus* diarrhea have not been reported, the organism has been repeatedly shown to be sensitive to tetracycline *in vitro (1, 2)*.

**References**

1. Sakazaki R: Halaphilic vibrio infections. In Foodborne Infections and Intoxications, edited by Rieman H. New York and London, Academic Press, 1969, pp 115-129

2. Chatterjee BD, Neogy KN, Gorbach SL: Study of *Vibrio parahaemolyticus* from cases of diarrhoea in Calcutta. Indian J Med Res 58: 234-238, 1970

## TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES FOR WEEKS ENDING DECEMBER 15, 1973 AND DECEMBER 16, 1972 (50th WEEK)

| AREA | ASEPTIC MENINGITIS | BRUCELLOSIS | CHICKENPOX | DIPHTHERIA | | ENCEPHALITIS | | | HEPATITIS | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Primary including unspec. cases | | Post Infectious | Serum (Hepatitis B) | Infectious (Hepatitis A) | |
| | 1973 | 1973 | 1973 | 1973 | Cum. 1973 | 1973 | 1972 | 1973 | 1973 | 1973 | 1972 |
| UNITED STATES | 77 | 4 | 1,913 | 10 | 192 | 21 | 19 | 2 | 168 | 1,059 | 1,011 |
| NEW ENGLAND | 1 | 1 | 414 | – | 3 | – | 1 | – | 3 | 44 | 61 |
| Maine* | – | – | – | – | – | – | – | – | – | 1 | 2 |
| New Hampshire * | – | – | 21 | – | – | – | – | – | – | 2 | 12 |
| Vermont | – | – | 9 | – | – | – | – | – | – | 13 | 1 |
| Massachusetts | 1 | – | 249 | – | 1 | – | 1 | – | 2 | 25 | 30 |
| Rhode Island | – | – | 40 | – | 2 | – | – | – | – | 2 | 6 |
| Connecticut | – | 1 | 95 | – | – | – | – | – | 1 | 1 | 10 |
| MIDDLE ATLANTIC | 5 | – | 32 | – | – | 2 | 3 | – | 25 | 118 | 126 |
| Upstate New York | 1 | – | 3 | – | – | 2 | – | – | 7 | 50 | 38 |
| New York City | 3 | – | 23 | – | – | – | 1 | – | 8 | 28 | 25 |
| New Jersey | – | – | NN | – | – | – | – | – | 7 | 20 | 33 |
| Pennsylvania | 1 | – | 6 | – | – | – | 2 | – | 3 | 20 | 30 |
| EAST NORTH CENTRAL | 13 | – | 642 | – | 2 | 5 | 7 | – | 12 | 151 | 144 |
| Ohio | 4 | – | 131 | – | 1 | 4 | 4 | – | 3 | 37 | 25 |
| Indiana | 5 | – | 104 | – | – | – | – | – | 1 | 9 | 10 |
| Illinois | – | – | – | – | 1 | – | 1 | – | – | 51 | 28 |
| Michigan | 3 | – | 75 | – | – | 1 | 2 | – | 7 | 44 | 75 |
| Wisconsin | 1 | – | 332 | – | – | – | – | – | 1 | 10 | 6 |
| WEST NORTH CENTRAL | 12 | 1 | 201 | – | 7 | 2 | – | 1 | 3 | 38 | 54 |
| Minnesota | 4 | – | – | – | – | – | – | – | 1 | 6 | 5 |
| Iowa | – | 1 | 184 | – | – | – | – | 1 | – | 1 | 7 |
| Missouri | 8 | – | 2 | – | – | 2 | – | – | – | 14 | 31 |
| North Dakota | – | – | 8 | – | – | – | – | – | – | 2 | – |
| South Dakota | – | – | – | – | 7 | – | – | – | – | 2 | 4 |
| Nebraska | – | – | 7 | – | – | – | – | – | – | 1 | 1 |
| Kansas | – | – | – | – | – | – | – | – | 2 | 12 | 6 |
| SOUTH ATLANTIC | 10 | – | 126 | – | 9 | 1 | 2 | 1 | 38 | 220 | 155 |
| Delaware | – | – | 5 | – | – | – | – | – | – | 3 | 3 |
| Maryland | 1 | – | 1 | – | – | 1 | – | – | 2 | 7 | 16 |
| District of Columbia | – | – | 1 | – | – | – | – | – | 2 | 1 | 5 |
| Virginia | – | – | 24 | – | – | – | – | – | 5 | 23 | 20 |
| West Virginia * | – | – | 89 | – | – | – | – | – | 1 | 8 | 9 |
| North Carolina | 3 | – | NN | – | – | – | – | – | 2 | 29 | 17 |
| South Carolina | – | – | 6 | – | – | – | – | – | 1 | 14 | 6 |
| Georgia | – | – | – | – | 2 | – | – | – | – | 20 | 30 |
| Florida | 6 | – | – | – | 7 | – | 2 | 1 | 25 | 115 | 49 |
| EAST SOUTH CENTRAL | 4 | – | 73 | – | 5 | 4 | – | – | 7 | 68 | 46 |
| Kentucky | – | – | 61 | – | – | – | – | – | 2 | 16 | 18 |
| Tennessee | 2 | – | NN | – | – | 3 | – | – | – | 36 | 25 |
| Alabama | – | – | 8 | – | 5 | – | – | – | 3 | 11 | 2 |
| Mississippi | 2 | – | 4 | – | – | 1 | – | – | 2 | 5 | 1 |
| WEST SOUTH CENTRAL | 9 | 1 | 109 | – | 18 | 3 | 3 | – | 15 | 170 | 113 |
| Arkansas | 1 | – | 3 | – | – | 1 | – | – | 1 | 7 | 13 |
| Louisiana * | 1 | – | NN | – | 1 | – | 1 | – | 7 | 17 | 11 |
| Oklahoma | – | 1 | 2 | – | – | – | 1 | – | 4 | 24 | 23 |
| Texas | 7 | – | 104 | – | 17 | 2 | 1 | – | 3 | 122 | 66 |
| MOUNTAIN | – | 1 | 37 | – | 51 | – | – | – | 4 | 46 | 78 |
| Montana | – | – | – | – | – | – | – | – | – | 7 | 14 |
| Idaho | – | – | – | – | – | – | – | – | – | – | 12 |
| Wyoming | – | – | 3 | – | – | – | – | – | – | – | – |
| Colorado | – | – | 19 | – | – | – | – | – | 1 | 1 | 29 |
| New Mexico | – | 1 | 13 | – | 27 | – | – | – | 1 | 12 | 5 |
| Arizona | – | – | – | – | 24 | – | – | – | – | 7 | 11 |
| Utah | – | – | 2 | – | – | – | – | – | 2 | 7 | 7 |
| Nevada | – | – | – | – | – | – | – | – | – | 12 | – |
| PACIFIC | 23 | – | 279 | 10 | 97 | 4 | 3 | – | 61 | 204 | 234 |
| Washington | 5 | – | 273 | 10 | 86 | 1 | – | – | 3 | 19 | 26 |
| Oregon | – | – | 4 | – | 4 | – | 1 | – | 6 | 27 | 39 |
| California | 18 | – | – | – | 5 | 3 | 2 | – | 50 | 149 | 161 |
| Alaska | – | – | 1 | – | 2 | – | – | – | – | 8 | 6 |
| Hawaii | – | – | 1 | – | – | – | – | – | 2 | 1 | 2 |
| Guam * | – | – | – | – | – | – | – | – | – | – | – |
| Puerto Rico | – | – | 7 | – | – | – | – | – | 1 | 7 | 11 |
| Virgin Islands | – | – | – | – | – | – | – | – | – | 1 | – |

* Delayed Reports: Chickenpox: Me. 27, N.H. 32
Hepatitis A: Me. 7, N.H.-2, W.Va. 1, La. delete 1, Guam 8

## TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES FOR WEEKS ENDING DECEMBER 15, 1973 AND DECEMBER 16, 1972 (50th WEEK) – Continued

| AREA | MALARIA | | MEASLES (Rubeola) | | | MENINGOCOCCAL INFECTIONS, TOTAL | | | MUMPS | | RUBELLA | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1973 | Cum. 1973 | 1973 | Cumulative | | 1973 | Cumulative | | 1973 | Cum. 1973 | 1973 | Cum. 1973 |
| | | | | 1973 | 1972 | | 1973 | 1972 | | | | |
| UNITED STATES | 4 | 235 | 199 | 26,245 | 30,679 | 27 | 1,316 | 1,289 | 1,273 | 66,774 | 155 | 27,634 |
| NEW ENGLAND | – | 17 | 16 | 7,626 | 4,307 | 2 | 54 | 56 | 213 | 4,513 | 7 | 3,719 |
| Maine * | – | – | – | 70 | 254 | – | 1 | 4 | 19 | 480 | – | 72 |
| New Hampshire * | – | – | 11 | 1,014 | 783 | – | 7 | 3 | 8 | 236 | 1 | 384 |
| Vermont | – | 2 | – | 120 | 128 | – | 3 | – | 2 | 276 | – | 48 |
| Massachusetts | – | 7 | 2 | 3,966 | 1,119 | – | 15 | 25 | 30 | 1,218 | 4 | 2,085 |
| Rhode Island | – | 1 | – | 639 | 526 | – | 3 | 12 | 54 | 804 | – | 227 |
| Connecticut | – | 7 | 3 | 1,817 | 1,497 | 2 | 25 | 12 | 100 | 1,499 | 2 | 903 |
| MIDDLE ATLANTIC | 1 | 39 | 77 | 2,866 | 1,161 | 4 | 184 | 159 | 96 | 8,001 | 10 | 4,306 |
| Upstate New York | – | 19 | – | 821 | 174 | – | 65 | 38 | NN | NN | 5 | 477 |
| New York City | 1 | 4 | 6 | 949 | 422 | – | 36 | 44 | 22 | 4,735 | – | 495 |
| New Jersey | – | 5 | 70 | 696 | 499 | 3 | 48 | 30 | 21 | 1,650 | 4 | 3,026 |
| Pennsylvania | – | 11 | 1 | 400 | 66 | 1 | 35 | 47 | 53 | 1,616 | 1 | 308 |
| EAST NORTH CENTRAL | – | 31 | 57 | 9,056 | 12,213 | 2 | 179 | 191 | 325 | 17,006 | 45 | 6,417 |
| Ohio | – | 5 | 4 | 317 | 301 | 2 | 76 | 75 | 74 | 3,114 | 8 | 713 |
| Indiana | – | 3 | 5 | 707 | 1,358 | – | 6 | 14 | 89 | 1,732 | 10 | 1,014 |
| Illinois | – | 17 | 24 | 2,182 | 4,439 | – | 28 | 40 | 50 | 2,801 | 7 | 1,053 |
| Michigan | – | 6 | 9 | 4,513 | 2,302 | – | 52 | 54 | 51 | 4,735 | 14 | 1,969 |
| Wisconsin | – | – | 15 | 1,337 | 3,813 | – | 17 | 8 | 61 | 4,624 | 6 | 1,668 |
| WEST NORTH CENTRAL | 2 | 10 | 1 | 464 | 1,339 | 1 | 93 | 93 | 117 | 5,757 | 1 | 1,241 |
| Minnesota | – | 2 | – | 24 | 26 | 1 | 13 | 25 | – | 103 | – | 224 |
| Iowa | – | 1 | – | 281 | 1,004 | – | 22 | 6 | 96 | 3,646 | 1 | 208 |
| Missouri | 2 | 3 | 1 | 56 | 175 | – | 34 | 30 | 12 | 783 | – | 273 |
| North Dakota | – | 1 | – | 67 | 60 | – | 3 | – | – | 76 | – | 277 |
| South Dakota | – | – | – | 3 | 12 | – | 5 | 2 | – | 20 | – | 23 |
| Nebraska | – | 1 | – | 6 | 23 | – | 7 | 10 | 4 | 186 | – | 141 |
| Kansas | – | 2 | – | 27 | 39 | – | 9 | 20 | 5 | 943 | – | 95 |
| SOUTH ATLANTIC | 1 | 37 | 10 | 1,326 | 2,320 | 3 | 220 | 282 | 62 | 7,491 | 45 | 2,367 |
| Delaware | – | – | – | 10 | 56 | – | 2 | 1 | 2 | 282 | 1 | 16 |
| Maryland | 1 | 8 | – | 14 | 15 | 1 | 31 | 40 | 11 | 696 | – | 11 |
| District of Columbia | – | 2 | – | 8 | 2 | 1 | 5 | 12 | 4 | 160 | 1 | 4 |
| Virginia | – | 8 | – | 429 | 77 | 1 | 46 | 61 | 11 | 777 | – | 636 |
| West Virginia | – | – | 2 | 232 | 303 | – | 6 | 9 | – | 2,592 | 4 | 345 |
| North Carolina | – | 7 | – | 4 | 38 | – | 43 | 35 | NN | NN | – | 202 |
| South Carolina | – | 1 | 1 | 78 | 217 | – | 13 | 26 | 2 | 374 | – | 88 |
| Georgia | – | 3 | 1 | 154 | 195 | – | 23 | 22 | – | 32 | 1 | 13 |
| Florida | – | 8 | 6 | 397 | 1,417 | – | 51 | 76 | 32 | 2,578 | 38 | 1,052 |
| EAST SOUTH CENTRAL | – | 14 | 5 | 640 | 1,085 | 2 | 124 | 99 | 115 | 5,605 | 9 | 1,475 |
| Kentucky | – | 9 | 5 | 403 | 543 | 2 | 48 | 30 | 52 | 1,719 | 1 | 419 |
| Tennessee | – | – | – | 165 | 195 | – | 45 | 33 | 53 | 2,657 | 6 | 615 |
| Alabama | – | 5 | – | 14 | 154 | – | 18 | 20 | 8 | 743 | 2 | 209 |
| Mississippi | – | – | – | 58 | 193 | – | 13 | 16 | 2 | 486 | – | 232 |
| WEST SOUTH CENTRAL | – | 13 | 4 | 753 | 1,724 | 7 | 210 | 162 | 97 | 4,667 | 6 | 1,524 |
| Arkansas | – | – | 1 | 75 | 13 | – | 14 | 13 | 4 | 410 | 1 | 116 |
| Louisiana | – | 2 | – | 89 | 110 | 2 | 52 | 49 | 1 | 117 | – | 100 |
| Oklahoma | – | 2 | – | 66 | 11 | 1 | 33 | 14 | 8 | 484 | – | 182 |
| Texas | – | 9 | 3 | 523 | 1,590 | 4 | 111 | 86 | 84 | 3,656 | 5 | 1,126 |
| MOUNTAIN | – | 9 | 14 | 1,038 | 1,964 | – | 37 | 32 | 38 | 2,769 | 2 | 2,442 |
| Montana | – | 1 | 12 | 304 | 18 | – | 9 | 6 | 3 | 282 | – | 518 |
| Idaho | – | 1 | – | 256 | 155 | – | 4 | 8 | 8 | 129 | – | 45 |
| Wyoming | – | – | – | 81 | 51 | – | 1 | 1 | – | 436 | – | 7 |
| Colorado | – | 2 | 1 | 110 | 538 | – | 11 | 6 | 16 | 589 | 2 | 1,569 |
| New Mexico | – | 2 | 1 | 136 | 135 | – | 3 | 3 | 11 | 1,027 | – | 212 |
| Arizona | – | 2 | – | 21 | 907 | – | 5 | 1 | – | 140 | – | 7 |
| Utah | – | 1 | – | 129 | 159 | – | 2 | 6 | – | 157 | – | 80 |
| Nevada | – | – | – | 1 | 1 | – | 2 | 1 | – | 9 | – | 4 |
| PACIFIC | – | 65 | 15 | 2,476 | 4,566 | 6 | 215 | 215 | 210 | 10,965 | 30 | 4,143 |
| Washington | – | 4 | 3 | 1,110 | 996 | 1 | 22 | 20 | 54 | 1,877 | 16 | 760 |
| Oregon | – | 4 | – | 461 | 185 | – | 17 | 14 | 58 | 2,059 | 2 | 823 |
| California | – | 54 | 12 | 820 | 3,274 | 2 | 165 | 169 | 86 | 5,825 | 12 | 2,515 |
| Alaska | – | 2 | – | 65 | 13 | 2 | 10 | 9 | 11 | 926 | – | 19 |
| Hawaii | – | 1 | – | 20 | 98 | 1 | 1 | 3 | 1 | 278 | – | 26 |
| Guam * | – | – | – | 52 | 16 | – | 1 | 13 | – | 34 | – | 14 |
| Puerto Rico | – | – | 13 | 2,009 | 1,040 | – | 11 | 4 | 38 | 917 | 1 | 39 |
| Virgin Islands | – | – | – | 7 | 3 | – | – | 2 | 2 | 34 | – | 2 |

* Delayed Reports:
Measles: N.H. 33
Meningococcal infections: Guam 1
Mumps: Me. 9, Guam 1

## TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES FOR WEEKS ENDING DECEMBER 15, 1973 AND DECEMBER 16, 1972 (50th WEEK) – Continued

| AREA | TETANUS | TUBERCULOSIS (New Active) | | TULAREMIA | TYPHOID FEVER | | TYPHUS-FEVER TICK-BORNE (Rky. Mt. spotted fever) | | VENEREAL DISEASES | | RABIES IN ANIMALS | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | GONORRHEA | SYPHILIS (Pri. & Sec.) | | |
| | Cumulative 1973 | 1973 | Cum. 1973 | Cumulative 1973 | 1973 | Cum. 1973 | 1973 | Cum. 1973 | 1973 | 1973 | 1973 | Cum. 1973 |
| UNITED STATES | 86 | 602 | 30,057 | 157 | 5 | 615 | 1 | 627 | 16,729 | 422 | 32 | 3,223 |
| NEW ENGLAND | 2 | 26 | 1,135 | – | 1 | 21 | 1 | 4 | 442 | 3 | 2 | 116 |
| Maine * | – | – | 104 | – | – | – | – | – | 23 | 1 | 2 | 63 |
| New Hampshire | – | – | 54 | – | – | – | – | – | 13 | – | – | 37 |
| Vermont | – | – | 30 | – | – | – | – | – | 6 | – | – | 3 |
| Massachusetts | – | 17 | 607 | – | – | 17 | 1 | 3 | 224 | – | – | 6 |
| Rhode Island | 1 | – | 90 | – | – | – | – | – | 50 | – | – | 1 |
| Connecticut | 1 | 9 | 250 | – | 1 | 4 | – | 1 | 126 | 2 | – | 6 |
| MIDDLE ATLANTIC | 7 | 111 | 5,795 | – | – | 66 | – | 38 | 1,937 | 107 | 1 | 54 |
| Upstate New York | 1 | 20 | 1,017 | – | – | 10 | – | 13 | 271 | 11 | – | 26 |
| New York City | 3 | 41 | 2,143 | – | – | 26 | – | 4 | 761 | 55 | – | – |
| New Jersey | 2 | 24 | 1,038 | – | – | 20 | – | 5 | 401 | 20 | – | – |
| Pennsylvania | 1 | 26 | 1,597 | – | – | 10 | – | 16 | 504 | 21 | 1 | 28 |
| EAST NORTH CENTRAL | 13 | 73 | 4,444 | 3 | 1 | 50 | – | 19 | 2,367 | 23 | 1 | 312 |
| Ohio * | 3 | 13 | 1,310 | – | – | 20 | – | 14 | 980 | 7 | – | 38 |
| Indiana | 4 | 7 | 566 | – | – | 1 | – | – | 153 | 4 | – | 53 |
| Illinois | 3 | 24 | 1,379 | 1 | – | 11 | – | 5 | 319 | 7 | – | 72 |
| Michigan | 1 | 29 | 1,112 | 2 | 1 | 14 | – | – | 715 | 5 | – | 11 |
| Wisconsin | 2 | – | 77 | – | – | 4 | – | – | 200 | – | 1 | 138 |
| WEST NORTH CENTRAL | 7 | 29 | 1,257 | 22 | 2 | 29 | – | 25 | 620 | 9 | 10 | 1,008 |
| Minnesota | – | 3 | 149 | – | 1 | 8 | – | 2 | 176 | 2 | 6 | 381 |
| Iowa | – | 2 | 126 | – | – | – | – | 7 | 29 | – | – | 203 |
| Missouri | 6 | 12 | 609 | 21 | 1 | 13 | – | 9 | 208 | 5 | 1 | 91 |
| North Dakota | 1 | 1 | 38 | – | – | – | – | – | 14 | – | 3 | 151 |
| South Dakota | – | – | 85 | – | – | 1 | – | 1 | 23 | – | – | 81 |
| Nebraska | – | 2 | 81 | – | – | 1 | – | 2 | 93 | 1 | – | 7 |
| Kansas | – | 9 | 169 | 1 | – | 6 | – | 4 | 77 | 1 | – | 94 |
| SOUTH ATLANTIC | 19 | 125 | 5,971 | 19 | 1 | 253 | – | 307 | 3,718 | 144 | 3 | 292 |
| Delaware | – | 4 | 96 | – | – | 1 | – | 8 | 29 | 1 | – | 5 |
| Maryland | – | 10 | 656 | 6 | – | 9 | – | 14 | 359 | 17 | – | 15 |
| District of Columbia | – | 5 | 289 | – | – | 1 | – | – | 387 | 17 | – | – |
| Virginia | 3 | 12 | 794 | 6 | – | 3 | – | 61 | 284 | 16 | 3 | 95 |
| West Virginia | 1 | 7 | 302 | – | 1 | 12 | – | 4 | 56 | – | – | 24 |
| North Carolina | – | 31 | 958 | 2 | – | 5 | – | 141 | 572 | 11 | – | 14 |
| South Carolina | 2 | 23 | 485 | – | – | 6 | – | 32 | 292 | 37 | – | 6 |
| Georgia | 3 | 12 | 944 | 3 | – | 3 | – | 46 | 504 | 11 | – | 91 |
| Florida | 10 | 21 | 1,447 | 2 | – | 213 | – | 1 | 1,235 | 34 | – | 42 |
| EAST SOUTH CENTRAL | 9 | 84 | 2,780 | 10 | – | 44 | – | 112 | 1,571 | 28 | 4 | 401 |
| Kentucky | 1 | 20 | 630 | 1 | – | 11 | – | – | 161 | 5 | 1 | 210 |
| Tennessee | 5 | 22 | 860 | 7 | – | 16 | – | 52 | 588 | 9 | 3 | 148 |
| Alabama | 3 | 28 | 780 | – | – | 10 | – | 28 | 532 | 7 | – | 42 |
| Mississippi | – | 14 | 510 | 2 | – | 7 | – | 32 | 290 | 7 | – | 1 |
| WEST SOUTH CENTRAL | 15 | 46 | 3,133 | 92 | – | 26 | – | 106 | 3,054 | 50 | 5 | 565 |
| Arkansas | 1 | 5 | 380 | 62 | – | 5 | – | 20 | 197 | 7 | – | 116 |
| Louisiana | 4 | 4 | 445 | 1 | – | 6 | – | – | 560 | 16 | – | 51 |
| Oklahoma | 4 | 11 | 276 | 21 | – | 2 | – | 75 | 246 | 1 | 3 | 160 |
| Texas | 6 | 26 | 2,032 | 8 | – | 13 | – | 11 | 2,051 | 26 | 2 | 238 |
| MOUNTAIN | – | 25 | 1,024 | 8 | – | 14 | – | 8 | 496 | 8 | – | 56 |
| Montana | – | 1 | 57 | – | – | – | – | 1 | 24 | – | – | 10 |
| Idaho | – | – | 32 | 1 | – | 1 | – | 2 | 3 | – | – | – |
| Wyoming | – | 2 | 30 | 2 | – | 1 | – | 1 | 12 | – | – | – |
| Colorado | – | 3 | 212 | – | – | 2 | – | 1 | 142 | 3 | – | – |
| New Mexico | – | 3 | 209 | 2 | – | 4 | – | 3 | 99 | – | – | 7 |
| Arizona | – | 11 | 373 | – | – | 6 | – | – | 96 | 3 | – | 36 |
| Utah | – | 3 | 50 | 2 | – | – | – | – | 64 | – | – | 3 |
| Nevada | – | 2 | 61 | 1 | – | – | – | – | 56 | 2 | – | – |
| PACIFIC | 14 | 83 | 4,518 | 3 | – | 112 | – | 8 | 2,524 | 50 | 6 | 419 |
| Washington | 3 | 7 | 346 | 1 | – | 7 | – | 5 | 245 | – | – | 9 |
| Oregon | – | 4 | 241 | 1 | – | 2 | – | 2 | 170 | 1 | – | 8 |
| California | 11 | 63 | 3,553 | 1 | – | 98 | – | 1 | 1,998 | 48 | 6 | 394 |
| Alaska* | – | – | 105 | – | – | 4 | – | – | 79 | – | – | 8 |
| Hawaii | – | 9 | 273 | – | – | 1 | – | – | 32 | 1 | – | – |
| Guam * | – | – | 39 | – | – | – | – | – | – | – | – | – |
| Puerto Rico | 9 | 9 | 487 | – | – | 11 | – | – | 64 | 13 | 1 | 54 |
| Virgin Islands | – | – | 2 | – | – | – | – | – | 5 | – | – | – |

* Delayed Reports: TB: Me. delete 1, Ohio delete 4, Alaska 2
Gonorrhea: Guam 8

Week No. 50

## TABLE IV. DEATHS IN 121 UNITED STATES CITIES FOR WEEK ENDING DECEMBER 15, 1973

(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 | 761 | 464 | 17 | 27 | SOUTH ATLANTIC | 1,331 | 755 | 48 | 40 |
| Boston, Mass. | 213 | 121 | 5 | 8 | Atlanta, Ga. | 148 | 81 | 5 | 4 |
| Bridgeport, Conn. | 44 | 24 | 1 | 3 | Baltimore, Md. | 211 | 106 | 12 | 2 |
| Cambridge, Mass. | 24 | 16 | 1 | 2 | Charlotte, N. C. | 45 | 29 | 3 | – |
| Fall River, Mass. | 25 | 14 | – | – | Jacksonville, Fla. | 110 | 66 | 6 | 1 |
| Hartford, Conn. | 122 | 61 | 2 | – | Miami, Fla. | 129 | 75 | 5 | 8 |
| Lowell, Mass. | 28 | 21 | – | 2 | Norfolk, Va. | 62 | 28 | 3 | 2 |
| Lynn, Mass. | 20 | 16 | – | 1 | Richmond, Va. | 81 | 42 | 1 | 2 |
| New Bedford, Mass. | 29 | 22 | 1 | – | Savannah, Ga. | 46 | 26 | – | 6 |
| New Haven, Conn. | 52 | 33 | 3 | – | St. Petersburg, Fla. | 108 | 89 | 1 | 2 |
| Providence, R. I. | 72 | 44 | 2 | 4 | Tampa, Fla. | 77 | 45 | 5 | 6 |
| Somerville, Mass. | 4 | 3 | – | – | Washington, D. C. | 252 | 127 | 6 | 7 |
| Springfield, Mass. | 55 | 35 | – | 1 | Wilmington, Del. | 62 | 41 | 1 | – |
| Waterbury, Conn. | 23 | 19 | 1 | – | | | | | |
| Worcester, Mass. | 50 | 35 | 1 | 6 | EAST SOUTH CENTRAL | 632 | 355 | 35 | 20 |
| | | | | | Birmingham, Ala. | 104 | 58 | 9 | 2 |
| MIDDLE ATLANTIC | 3,209 | 1,976 | 112 | 120 | Chattanooga, Tenn. | 38 | 15 | 3 | 1 |
| Albany, N. Y. | 46 | 24 | 1 | 1 | Knoxville, Tenn. | 20 | 13 | – | – |
| Allentown, Pa. | 30 | 20 | 1 | 2 | Louisville, Ky. | 119 | 69 | 4 | 4 |
| Buffalo, N. Y. | 167 | 102 | 3 | 12 | Memphis, Tenn. | 142 | 87 | 11 | 4 |
| Camden, N. J. | 39 | 25 | 3 | 2 | Mobile, Ala. | 71 | 42 | 1 | 2 |
| Elizabeth, N. J. | 25 | 16 | – | – | Montgomery, Ala. | 34 | 15 | 1 | 3 |
| Erie, Pa. | 41 | 27 | 2 | 4 | Nashville, Tenn. | 104 | 56 | 6 | 4 |
| Jersey City, N. J. | 45 | 28 | 1 | – | | | | | |
| Newark, N. J. | 83 | 46 | 10 | 4 | WEST SOUTH CENTRAL | 1,239 | 686 | 59 | 38 |
| New York City, N. Y. † | 1,595 | 986 | 50 | 55 | Austin, Tex. | 46 | 29 | 1 | 4 |
| Paterson, N. J. | 35 | 18 | 3 | 4 | Baton Rouge, La. | 50 | 29 | 1 | 3 |
| Philadelphia, Pa. | 515 | 314 | 21 | 6 | Corpus Christi, Tex. | 50 | 25 | 3 | 3 |
| Pittsburgh, Pa. | 184 | 108 | 7 | 11 | Dallas, Tex. | 156 | 91 | 10 | 1 |
| Reading, Pa. | 42 | 30 | 1 | 1 | El Paso, Tex. | 42 | 21 | 3 | 2 |
| Rochester, N. Y. | 120 | 83 | 5 | 9 | Fort Worth, Tex. | 83 | 37 | 2 | 1 |
| Schenectady, N. Y. | 28 | 15 | 2 | – | Houston, Tex. | 261 | 137 | 9 | 8 |
| Scranton, Pa. | 43 | 27 | – | 2 | Little Rock, Ark. | 76 | 43 | 7 | 3 |
| Syracuse, N. Y. | 71 | 46 | 1 | 2 | New Orleans, La. | 171 | 95 | 11 | 4 |
| Trenton, N. J. | 46 | 26 | – | – | San Antonio, Tex. | 141 | 78 | 7 | 6 |
| Utica, N. Y. | 27 | 15 | – | 4 | Shreveport, La. | 70 | 43 | – | 1 |
| Yonkers, N. Y. | 27 | 20 | 1 | 1 | Tulsa, Okla. | 93 | 58 | 5 | 2 |
| EAST NORTH CENTRAL | 2,514 | 1,445 | 117 | 74 | MOUNTAIN | 559 | 334 | 27 | 23 |
| Akron, Ohio | 67 | 33 | 4 | – | Albuquerque, N. Mex. | 64 | 35 | 4 | 5 |
| Canton, Ohio | 45 | 28 | 4 | 2 | Colorado Springs, Colo. | 41 | 29 | 1 | 6 |
| Chicago, Ill. | 691 | 378 | 30 | 15 | Denver, Colo. | 127 | 71 | 2 | 2 |
| Cincinnati, Ohio | 162 | 97 | 7 | 3 | Las Vegas, Nev. | 24 | 8 | 3 | – |
| Cleveland, Ohio | 184 | 96 | 6 | 6 | Ogden, Utah | 14 | 10 | – | 1 |
| Columbus, Ohio | 138 | 70 | 11 | 7 | Phoenix, Ariz. | 149 | 93 | 11 | 4 |
| Dayton, Ohio | 119 | 79 | 5 | 5 | Pueblo, Colo. | 15 | 12 | – | 3 |
| Detroit, Mich. | 322 | 164 | 26 | 8 | Salt Lake City, Utah | 50 | 33 | 5 | 1 |
| Evansville, Ind. | 35 | 21 | 2 | 3 | Tucson, Ariz. | 75 | 43 | 1 | 1 |
| Fort Wayne, Ind. | 43 | 28 | 2 | – | | | | | |
| Gary, Ind. | 35 | 17 | 1 | 1 | PACIFIC | 1,581 | 965 | 38 | 34 |
| Grand Rapids, Mich. | 48 | 30 | 1 | 3 | Berkeley, Calif. | 21 | 16 | – | – |
| Indianapolis, Ind. | 147 | 88 | 5 | – | Fresno, Calif. | 55 | 33 | 2 | 2 |
| Madison, Wis. | 37 | 22 | – | 4 | Glendale, Calif. | 20 | 15 | – | 1 |
| Milwaukee, Wis. | 142 | 98 | 1 | 3 | Honolulu, Hawaii | 43 | 21 | 1 | – |
| Peoria, Ill. | 53 | 34 | 2 | 3 | Long Beach, Calif. | 131 | 82 | 4 | 2 |
| Rockford, Ill. | 50 | 29 | 3 | 6 | Los Angeles, Calif. | 416 | 260 | 11 | 7 |
| South Bend, Ind. | 42 | 27 | 4 | 3 | Oakland, Calif. | 104 | 57 | 3 | 2 |
| Toledo, Ohio | 93 | 61 | 2 | – | Pasadena, Calif. | 29 | 18 | – | – |
| Youngstown, Ohio | 61 | 45 | 1 | 2 | Portland, Oreg. | 131 | 85 | 1 | 5 |
| | | | | | Sacramento, Calif. | 70 | 46 | 1 | 2 |
| WEST NORTH CENTRAL | 781 | 498 | 36 | 26 | San Diego, Calif. | 117 | 76 | 7 | 1 |
| Des Moines, Iowa | 49 | 31 | 6 | 2 | San Francisco, Calif. | 152 | 86 | 4 | 5 |
| Duluth, Minn. | 25 | 17 | 1 | 1 | San Jose, Calif. | 68 | 34 | 1 | 1 |
| Kansas City, Kans. | 31 | 21 | 2 | 2 | Seattle, Wash. | 138 | 78 | 2 | 2 |
| Kansas City, Mo. | 110 | 78 | 5 | 2 | Spokane, Wash. | 42 | 25 | 1 | 2 |
| Lincoln, Nebr. | 30 | 24 | – | 1 | Tacoma, Wash. | 44 | 33 | – | 2 |
| Minneapolis, Minn. | 122 | 88 | 3 | 5 | | | | | |
| Omaha, Nebr. | 94 | 56 | 8 | – | Total | 12,607 | 7,478 | 489 | 402 |
| St. Louis, Mo. | 217 | 113 | 11 | 9 | Expected Number | 12,808 | 7,594 | 466 | 456 |
| St. Paul, Minn. | 58 | 43 | – | 1 | Cumulative Total (includes reported corrections for previous weeks) | 634,830 | 373,487 | 23,868 | 24,857 |
| Wichita, Kans. | 45 | 27 | – | 3 | | | | | |

† Delayed Report for Week ending December 8, 1973

## CURRENT TRENDS

### PRIMARY AND SECONDARY SYPHILIS – United States, November 1973

In November 1973, physicians, clinics, and hospitals in the United States reported 2,097 cases of infectious syphilis compared with 2,306 in November 1972, a decrease of 9.1%. Infectious syphilis cases increased steadily in the United States from 1969 through March 1973. Since March, reported cases have remained essentially level. During the 8-month period April through November 1973, a total of 16,960 cases were reported, a decrease of 21 cases or 0.1% from the same 8-month period in 1972.

*(Reported by the Venereal Disease Branch, Bureau of State Services, CDC.)*

### SUMMARY OF REPORTED CASES OF INFECTIOUS SYPHILIS

CASES OF PRIMARY AND SECONDARY SYPHILIS: BY REPORTING AREA – NOVEMBER, 1973 and NOVEMBER, 1972 – PROVISIONAL DATA

| Reporting Area | November | | Cumulative January – November | |
|---|---|---|---|---|
| | 1973 | 1972 | 1973 | 1972 |
| NEW ENGLAND | 69 | 75 | 1,008 | 805 |
| Maine | 1 | 3 | 23 | 26 |
| New Hampshire | 1 | – | 9 | 8 |
| Vermont | – | – | 20 | 14 |
| Massachusetts | 54 | 48 | 706 | 469 |
| Rhode Island | – | 1 | 18 | 42 |
| Connecticut | 13 | 23 | 232 | 246 |
| MIDDLE ATLANTIC | 481 | 557 | 5,242 | 5,526 |
| Upstate New York | 45 | 35 | 397 | 392 |
| New York City | 271 | 360 | 3,171 | 3,792 |
| Pa. (Excl. Phila.) | 28 | 19 | 250 | 175 |
| Philadelphia | 47 | 27 | 487 | 309 |
| New Jersey | 90 | 116 | 937 | 858 |
| EAST NORTH CENTRAL | 201 | 210 | 2,097 | 2,393 |
| Ohio | 20 | 19 | 252 | 285 |
| Indiana | 23 | 37 | 267 | 250 |
| Downstate Illinois | 25 | 9 | 190 | 127 |
| Chicago | 89 | 67 | 852 | 968 |
| Michigan | 35 | 65 | 462 | 702 |
| Wisconsin | 9 | 13 | 74 | 61 |
| WEST NORTH CENTRAL | 39 | 17 | 354 | 266 |
| Minnesota | 9 | 9 | 92 | 55 |
| Iowa | 4 | – | 53 | 48 |
| Missouri | 24 | 6 | 167 | 104 |
| North Dakota | 1 | – | 3 | 2 |
| South Dakota | – | – | 5 | 2 |
| Nebraska | – | – | 13 | 17 |
| Kansas | 1 | 2 | 21 | 38 |
| SOUTH ATLANTIC | 633 | 555 | 6,677 | 5,971 |
| Delaware | 12 | 6 | 89 | 55 |
| Maryland | 75 | 41 | 808 | 772 |
| District of Columbia | 58 | 78 | 709 | 790 |
| Virginia | 71 | 71 | 742 | 528 |
| West Virginia | 4 | 2 | 20 | 32 |
| North Carolina | 76 | 59 | 625 | 512 |
| South Carolina | 55 | 58 | 694 | 462 |
| Georgia | 80 | 106 | 1,148 | 1,304 |
| Florida | 202 | 134 | 1,842 | 1,516 |
| EAST SOUTH CENTRAL | 117 | 200 | 1,250 | 1,437 |
| Kentucky | 30 | 60 | 345 | 355 |
| Tennessee | 46 | 91 | 419 | 508 |
| Alabama | 17 | 17 | 177 | 204 |
| Mississippi | 24 | 32 | 309 | 370 |
| WEST SOUTH CENTRAL | 176 | 253 | 2,426 | 2,735 |
| Arkansas | 9 | 8 | 124 | 167 |
| Louisiana | 49 | 62 | 741 | 810 |
| Oklahoma | 11 | 15 | 154 | 104 |
| Texas | 107 | 168 | 1,407 | 1,654 |
| MOUNTAIN | 51 | 56 | 524 | 481 |
| Montana | – | – | 3 | 7 |
| Idaho | – | 2 | 10 | 8 |
| Wyoming | – | 1 | 4 | 11 |
| Colorado | 14 | 18 | 182 | 81 |
| New Mexico | 13 | 9 | 75 | 98 |
| Arizona | 16 | 19 | 170 | 180 |
| Utah | 1 | 2 | 13 | 19 |
| Nevada | 7 | 5 | 67 | 77 |
| PACIFIC | 330 | 383 | 3,922 | 3,294 |
| Washington | 8 | 10 | 143 | 116 |
| Oregon | 2 | 1 | 41 | 37 |
| California | 316 | 367 | 3,675 | 3,103 |
| Alaska | 1 | – | 15 | 13 |
| Hawaii | 3 | 5 | 48 | 25 |
| U.S. TOTAL | 2,097 | 2,306 | 23,500 | 22,908 |
| TERRITORIES | 62 | 68 | 759 | 804 |
| Puerto Rico | 59 | 56 | 726 | 717 |
| Virgin Islands | 3 | 12 | 33 | 87 |

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

## INTERNATIONAL NOTES

### INFLUENZA – Africa, New Zealand, Thailand, United Kingdom

**Central African Republic**

The Pasteur Institute in Bangui isolated 1 strain of virus A during the week ending November 11 (among 24 throat specimens examined), and 2 during the week ending November 18 (among 32 throat specimens examined). No isolate of influenzavirus was obtained from the 9 throat specimens examined during the week ending November 4.

**International Influenza Centre for the Americas, Atlanta**

The 1973-1974 commercial bivalent vaccine (A/England/42/72 and B/Massachusetts/1/71) was tested in November 1973 on a group of 49 persons in order to determine the rise of hemagglutination-inhibition antibodies to A/England/42/72 and to the new A strains from New Zealand, which are slightly different antigenically from A/England. Approximately 82% of the vaccinees responded with titers ≥80 to A/England/42/72, and approximately 66% responded with similar titers to the New Zealand strains. Geometric mean titers were 177 for A/England, 90 for A/Port Chalmers (New Zealand), and 107 for A/Dunedin (New Zealand).

INFLUENZA – Continued

**New Zealand**

In Wellington and its suburbs, the influenza epidemic associated with virus A, which started about September 7, ended about November 3 after reaching its peak approximately September 25. The isolates of virus A showed, like other strains from New Zealand, some antigenic differences from A/England/42/72, but are still related to this virus.

**Thailand**

Since the last week of October 1973, there has been some increase in the incidence of influenza-like illness in Bangkok and surrounding areas. All age groups are affected. The disease is not clinically severe (the patients usually are seen in outpatient departments).

Four strains of virus A, antigenically related to A/England/42/72, have been isolated from patients with high fever.

**United Kingdom**

On the whole, the weekly influenza incidence is presently low. During the week ending December 7, however, an influenza outbreak associated with virus B/Hong Kong/5/72 was reported in another school in the west of England; outbreaks associated with virus B "intermediate" were observed in 3 schools in a town in the Midlands, and an outbreak associated with virus A occurred in a hospital in the south of England. In the latter outbreak, the strains of virus A which were isolated were antigenically close to the recent isolates from New Zealand.

*(Reported by the World Health Organization:* Weekly Epidemiological Record *48:473-474, 14 Dec 1973)*

**Note to Readers**

Because 2 federal holidays occur in each of the next 2 weeks, issues No. 51 and 52 will be combined, and this combined issue will be released on January 4, 1974. States are being asked to submit their weekly data as soon as possible after reports are received in each of the 2 weeks in the usual fashion.

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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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