## CDC LIBRARY

## CURRENT TRENDS

MEASLES - 1966

For the 52nd week (ending December 31, 1966), 1,080 cases of measles were reported, representing an increase of 132 cases over the preceding week but a decrease of 2,320 cases from the total of 3,400 for the 52 nd week in 1965 . The substantial decrease in numbers of reported measles cases in 1966, particularly during the month of December, is compared to the numbers reported for the previous 4 years in Figure 1. The States recording the highest numbers of measles cases for the 52nd week are Texas with 219 cases and Arkansas with 207.

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A total of 23 counties reported "outbreaks" of measles from October 15 through December 24 (Table 1). The weeks in which certain counties have undertaken special control measures are indicated in the Table. (Reported by the Childhood Viral Diseases Unit, Epidemiology Branch, CDC.)
(Table 1 on page 450)


CURRENT TRENDS - MEASLES - 1966 (Continued from front page)
Table 1. - Counties Reporting 'Outbreaks'" of Measles*

| State | County | $\begin{aligned} & \text { Pop. } \\ & (1,000 \text { 's }) \end{aligned}$ | November |  |  |  | December |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | 5 | 12 | 19 | 26 | 3 | 10 | 17 | 24 |
| Arkansas | Ouachita | 32 |  |  | 10 | 3 |  | 119 | 35 |  |
| Colorado | Pueblo | 119 |  | 6 | 26 | 11 | 8 | 20 | 18 | 11 |
| Kentucky | Menifee | 4 | 1 |  | 15 |  | 16 | $11+$ |  | 1 |
| Michigan | Wayne | 2,666 | 10 | 71 | 16 | 30 | 35 | 13 | 30 | 32 |
| Mississippi | Oktibbeha | 26 |  |  | 59 |  | 99 | 73 | 58 |  |
| Nebraska | Richardson | 14 | 8 | 41 | 18 | 7 |  | 27 |  | 14 |
| North Carolina | Durham | 112 | 1 |  | 34 | 25 | 15 | 42 | 64 | 42 |
| Oklahoma | Kay | 51 |  |  |  |  | $40 \dagger$ | 35 | 9 |  |
| Oregon | Lane | 163 | 3 | 3 | 1 | 18 | 11 | 25 | 16 | 1 |
| Oregon | Washington | 92 | 12 | 69 | 56 | $65 \dagger$ | 83 | 33 | 31 | 10 |
| Tennessee | Maury | 42 |  | 25 |  | 14 | 24 | 8 | 13 |  |
| Texas | Brown | 25 | 3 |  | 17 | 13 | 44 | 7 | 18 |  |
| Texas | Hutchinson | 34 |  |  | 2 | 50 | 130 |  | 112 |  |
| Texas | Parker | 23 | 18 |  | 27 | 13 |  | 5 | 3 | 9 |
| Texas | Pecos | 12 |  | 6 | 7 | 14 | 12 | 7 | 4 |  |
| Texas | Red River | 16 |  | 14 | 11 | 26 | 12 | 10 | 19 | 11 |
| Texas | Travis | 212 | 3 | 1 | 5 | 20 | 22 | 30 | 36 | 41 |
| Washington | Benton | 62 | 6 | 6 |  |  | 15 | 5 | 30 | 15 |
| Washington | Franklyn | 23 | 2 | 1 |  |  | 8 | 4 | 15 | 12 |
| Washington | King | 935 | 41 | 6 | 48 | 38 | 38 | 29 | 50 | 15 |
| Washington | Snohomish | 172 | 60 | 3 | 89 | $25 \dagger$ | 44 | 21 | 23 | 8 |
| Washington | Spokane | 278 | 42 | 24 | 60 | 14 | 36 |  | 49 | 2 |
| Wisconsin | Waupaca | 35 | 3 | 4 | , | 4 | 2 | 12 | 12 | 4 |

*Criteria for "outbreaks":
Pop. at least 1.000,000: 25 cases for 2 consecutive weeks. Pop. 500,000-999,999: 20 cases for 2 consecutive weeks.

Pop. $100,000-499,999$ : 15 cases for 2 consecutive weeks. †Immunization program begun according to reports received by MMWR.

CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
(Cumulative totals include revised and delayed reparts through previous weeks)

| DISEASE | 52nd WEEK ENDED |  | $\begin{gathered} \text { MEDIAN } \\ 1961-1965 \end{gathered}$ | CUMULATIVE, FIRST 52 WEEKS |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \text { DECEMBER } 31, \\ 1966 \end{gathered}$ | $\begin{gathered} \text { JANUARY } 1 \\ 1966 \end{gathered}$ |  | 1966 | 1965 | $\begin{gathered} \text { MEDIAN } \\ 1961-1965 \end{gathered}$ |
| Aseptic meningitis | 25 | 47 | 27 | 2,933 | 2,145 | 2,135 |
| Brucellosis. | 5 | 16 | 9 | 240 | 261 | 400 |
| Diphtheria. | 9 | 4 | 5 | 204 | 165 | 298 |
| Encephalitis, primary: <br> Arthropod-borne \& unspecified | 29 | 23 | --- | 2,130 | 1.880 | . . . |
| Encephalitis, post-infectious | 6 | 13 | - - | 711 | 654 | -. |
| Hepatitis, serum | 21 | 674 | 808 | 1.483 | 33,648 | 42891 |
| Hepatitis, infectious. | 608 | 674 | 808 | 32,467 | 33,648 | 42,891 |
| Measles (rubeola) | 1,080 | 3,400 | 3.668 | 202,797 | 265,501 | 421,847 |
| Poliomyelitis, Total (including unspecified) | 2 | 7 | 10 | 99 | 67 | 446 |
| Paralytic | 2 | 4 | 10 | 93 | 50 | 382 |
| Nonparalytic | - | - | . . - | - | 9 | -. |
| Meningococcal infections, Total | 40 | 83 | 53 | 3,373 | 3,051 | 2,356 |
| Civilian | 34 | 78 | -.- | 3,042 | 2,835 | ... |
| Military | 6 | 5 | --- | 331 | 216 | --- |
| Rubella (German measles) | 234 | --- | -. - | 45,892 | -.- | -- |
| Streptococcal sore throat \& Scarlet fever | 8,551 | 7.759 | 6,094 | 421.688 | 389,813 | 339.479 |
| Tetanus. | 2 | 12 | - - | 194 | 285 | , |
| Tularemia | 8 | 9 | - - | 185 | 247 | - . |
| Typhoid fever | 3 | 19 | 13 | 369 | 461 | 528 |
| Typhus, tick-borne (Rky. Mt. Spotted fever). | - | 1 | --- | 249 | 262 | -.- |
| Rabies in Animals. | 84 | 85 | 61 | 3,984 | 4.248 | 3.711 |

## NOTIFIABLE DISEASES OF LOW FREQUENCY

|  | Cum. |  | Cum. |
| :---: | :---: | :---: | :---: |
| Anthrax: | 7 | Botulism: | 10 |
| Leptospirosis: Md.-1, NY UpS.-1 | 72 | Trichinosis: | 95 |
| Malaria: Ala.-1,Cal.-7, Mass.-1, Mich.-1,N.C.-4, W.Va.-1 | 517 | Rabies in Man: | 1 |
| Psittacosis: Minn.-1 | 47 | Rubella, Congenital Syndrome: | 23 |
| Typhus, murine: Ala.-1, Tex.-1 | 32 | Plague:. | 5 |

# EPIDEMIOLOGIC NOTES AND REPORTS TRANSFUSION INDUCED MALARIA - New York City 

A case of blood transfusion induced malaria in a 64-year-old man has recently been reported from New York City. The patient had onset of chills and fever on October 29, 1966; Plasmodium falciparum parasites were found in blood smears. He had not traveled outside the United States since he emigrated from Italy in 1913 and he did not have a history of self-inoculations. Because of continuous massive bleedings from the renal pelvis, the patient had received 70 units of blood over the 2-year period prior to onset of malaria.

During the 2 months preceding the onset of illness he received two units of blood on September 6 and 20, and on October 14, 1966. Five of the six blood donors were located and none of them had a history of malaria, overseas travel, blood transfusions or drug addiction. The sixth donor was identified as a 28 -year-old male Ghanaian who had resided in New York City from July through November 1966. He had donated blood on October 14. At the time of the investigation, the donor had returned to Ghana. The blood bank records do not indicate a history of malaria in this donor, but malaria is known to be endemic in Ghana.
(Reported by Dr. Tibor Fodor, Chief, Division of Epidemiology and Diagnosis, and Dr. Howard B. Shookhoff, Chief, Tropical Disease Division, both of the Bureau of Preventable Diseases, City of New York Department of Health; and Dr. Murray Wittner, Department of Pathology, Albert Einstein College of Medicine, Bronx, New York.)

## Editorial Note:

Since 1957, 10 cases of blood transfusion induced malaria have been reported to the Communicable Disease Center. Of these, 7 cases were due to $P$. malariae, one to $P$. vivax, one to a mixed infection of $P$. malariae and $P$. falciparum, and in one case the plasmodium species is unknown. In only one instance was the infectious blood donor identified (New York City, 1958). ${ }^{1}$

## Reference:

${ }^{1}$ Brady, Jacob A., and Dunn, Frederick L.: Malaria Surveillance in the United States, 1958. Amer J. Trop. Med. 8(6):635-639, (Nov.) 1959.

## CURRENT TRENDS MALARIA - 1966

A large increase in the number of cases of malaria in persons returning from overseas has been reported to the Parasitic Diseases Section of the Communicable Disease Center through November 1966. These imported* cases enhance the risk of focal re-establishment and transmission of malaria in this country and the subsequent occurrence of introduced cases. Similarly, the possibility of transmission of malaria through blood transfusions may result in induced cases of malaria. This report provides current surveillance information on malaria in the United States and is issued in an effort to alert public health officials and practicing physicians to the increasing likelihood that they may encounter this disease.

From January 1 to November 29, 1966, the Malaria Surveillance Unit received epidemiologic information on 390 cases of malaria with onsets in the United States. Although a substantial number of cases occurring during this period may still be reported, the current total is already more than twice the number reported during the whole of 1965 , and a larger total than for any year in the past decade (Figure 2). Seventy-eight of the cases with
onset in the United States occurred in civilians and 312 cases in military personnel. $\dagger$ The number of civilian cases thus far in 1966 is comparable to that reported in preceding years. The number of military cases with onsets through October 1966 has shown more than a ninefold increase compared with the same period in 1965. A rising trend has been apparent in the occurrence of military cases as the year has progressed. An additional 278 cases were diagnosed in American servicemen overseas who were subsequently transferred to the United States for treatment.

All but 4 of the 390 cases have been in persons who acquired their infection abroad. Two cases of Plasmodium vivax malaria from Fort Knox, Kentucky, in May were in 5 -and 3 -year-old siblings (MMWR, Vol. 15, No. 21). The diagnosis was confirmed by the Parasitology Unit of the Laboratory Branch, CDC, on the basis of examination of the blood slides. Such epidemiologic evidence as the children's negative history of travel and blood transfusions and their proximity to large numbers of personnel returning from malarious areas in Asia suggested

[^0]that the most probable mode of infection was by introduction. Transmission probably occurred during the late summer of 1965 with delayed primary attacks following a prolonged incubation period; however, the specific source of infection has not been identified. One case of congenital malaria due to $P$. malariae was detected in August in Chicago, a rare form of transmission not likely to be witnessed frequently in the United States (MMWR, Vol. 15, No. 34). A case of induced falciparum malaria occurred in a 64 -year-old man in New York City following a blood transfusion (MMWR, Vol. 15, No. 52).

Figure 2
MALARIA
MILITARY AND CIVILIAN, UNITED STATES 1956-1966*


## Editorial Note:

Several effects of the increased prevalence of malaria in the United States may be anticipated. These include the likelihood that physicians unfamiliar with malaria may encounter cases of either imported or introduced malaria and that these infections may be caused by drugresistant forms of $P$. falciparum.

Since the incubation period of malaria can be so much longer than international travel itineraries, physicians in private practice are increasingly likely to be consulted by a patient who has malaria. These may be servicemen who are often given prolonged home leave upon their return from overseas duty. Recently discharged veterans are also likely to be found infected; thus far in 1966, 62 persons had their onset of malaria after their discharge from military service.

The importance of an accurate diagnosis and the quality of the blood film on which it is inevitably based cannot be overemphasized. Because of the general lack of experience in malaria techniques, these films are often
of very poor quality. The following instructions may serve as a guide for the preparation of blood films for malaria diagnosis. The ideal smear is one which incorporates a thick and a thin film as illustrated in Figures 3 through 5.

## Guide for Preparation of Malaria Blood Films:

1. Manufacturers' "pre-cleaned" slides are not considered clean enough for use in malaria diagnosis. Prior to use, such slides should be washed in mild detergent, rinsed thoroughly in warm running water, then distilled water, and dipped in ethyl alcohol ( $90-95$ percent). Slides may then be wiped dry with a lintless cloth or tissue for immediate use or stored in 95 percent alcohol until needed.
2. The patient's finger should be cleaned with alcohol and wiped dry with a clean cloth or gauze.
3. After the finger is punctured with the blood lancet, allow a large globule of blood to form.
4. Place cleaned surface of slide against drop of blood and with a quick circular motion, make a film the size of a dime in the middle third of one end of the slide. Ordinary newsprint should be barely legible through such a wet drop (Figure 3). Excessive mixing or stirring with a second slide leads to distortion of blood cells and parasites.

Figure 3

5. The finger should then be wiped dry and a small drop of blood gently squeezed from the puncture and placed at the edge of the middle third of the same slide (Figure 4).

6. Apply a clean "spreader" slide to the edge of the small drop at a $45^{\circ}$ angle and allow the blood to extend about two-thirds of the slide width; then
keeping even contact, push the spreader forward along the slide. This will produce an even layer of red blood cells with a "feathering" at the lower edge (Figure 5).

Figure 5

7. The blood film should be kept horizontal and protected from dust and insects while the thick film
dries (minimum of 6 hours at room temperature).
8. Label the slide in the upper part of the thin film with the date and the name or initials of the patient as illustrated (Figure 5).

It is requested that thick and thin blood smears for confirmation of the diagnosis of malaria be sent through the State Health Department Laboratories to the National Malaria Repository, Parasitology Section, Laboratory Branch, Communicable Disease Center, Atlanta, Georgia. Epidemiologic and therapeutic questions on malaria in the United States should be directed to: Parasitic Diseases Section (Malaria Surveillance Unit), Communicable Disease Center, Atlanta, Georgia 30333; telephone Area Code 404 633-3311, Extension 3676.

## EPIDEMIOLOGIC NOTES AND REPORTS SYLVATIC PLAGUE - New Mexico

On December 12, 1966, the New Mexico Department of Public Health was informed of a die-off of jack rabbits, cottontail rabbits, and pack rats in DeBaca County. A plague surveillance team sent to the area to collect specimens and to investigate the extent of the epizootic determined that the die-off extended at least 15 miles east and south of Fort Sumner. Reports now indicate that a major portion of the County is involved.

Pasteurella pestis was isolated from tissue of a cottontail rabbit that had recently died about 12 miles south of Fort Sumner. Identification was made by microbiologic reactions including positive fluorescent antibody inhibition test, lysis by phage at $37^{\circ} \mathrm{C}$ and $20-25^{\circ} \mathrm{C}$, positive agglutination test, biochemical reactions, and the demonstration of typical pathology in guinea pigs. By these same methods, P. pestis was isolated and identified from fleas (Thrasis fotus) obtained from a second cottontail rabbit trapped 8 miles south of Fort Sumner. Fleas (Hoplopsyllus glacialis affinis) combed from other cottontail rabbits were injected into guinea pigs; lesions
produced were characteristic of plague and were presumptively positive for $P$. pestis by fluorescent antibody test. Organisms compatible with $P$. pestis have been observed in tissues of other rabbits and pack rats trapped, shot, or found dead in the area. Laboratory studies are continuing on additional tissues and ectoparasites.

In DeBaca County, rabbits are trapped and netted for live shipment to other states by railway express or truck for use as fox food and the training of race dogs. On the day that plague was confirmed in the current epizootic, a shipment of rabbits awaiting transport to Florida was stopped. A shipment which had been made to Missouri 3 days previously is currently being traced. Unofficial information indicates that at times during the past few years shipments have also been made to New Jersey, Massachusetts, Indiana, and Wyoming.

Following confirmation of $P$. pestis infection, the New Mexico Department of Game and Fish issued an order
(Continued on page 460)

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CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
FOR WEEKS ENDED
DECEMBER 31, 1966 AND JANUARY 1, 1966 (52nd WEEK)

| AREA | ASEPTIC MENINGITIS |  | BRUCELLOSIS | ENCEPHALITIS |  |  | DIPHTHERIA |  | HEPATITIS |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Primary including unsp. cases | PostInfectious | Serum | Infectious |  |  | Both Types |
|  | 1966 | 1965 |  | 1966 | 1966 | 1965 | 1966 | 1966 | 1965 | 1966 | 1966 | 1965 |
| UNITED STATES... | 25 | 47 | 5 | 29 | 23 | 6 | 9 | 4 | 21 | 608 | 674 |
| NEW England. . . . . . . . . | - | 2 | - | 4 | - | - | - | - | 2 | 34 | 30 |
| Maine.............. | - | - | - | - | - | - | - | - | - | 1 | 8 |
| New Hampshire...... | - | - | - | 1 | - | - | - | - | - | 1 | 3 |
| Vermont............. | - | - | - | - | - | - | - | - | - | - | 1 |
| Massachusetts...... | - | 2 | - | 1 | - | - | - | - | - | 14 | 15 |
| Rhode Island....... | - | - | - | 2 | - | - | - | - | - | 8 | 1 |
| Connecticut........ | - | - | - | - | - | - | - | - | 2 | 10 | 2 |
| middle atlantic...... | 2 | 6 | - | 6 | 7 | - | 1 | - | 11 | 105 | 111 |
| New York City...... | 1 | 4 | - | 6 | 2 | - | - | - | 10 | 29 | 28 |
| New York, Up-State. | - | 1 | - | - | 1 | - | 1 | - | 1 | 34 | 36 |
| New Jersey.......... | - | 1 | - | - | 4 | - | - | - | - | 13 | 21 |
| Pennsylvania....... | 1 | - | - | - | - | - | - | - | - | 29 | 26 |
| EAST NORTH CENTRAL... | 2 | 6 | 1 | 7 | - | 2 | - | - | 1 | 95 | 125 |
| Ohio................ | - | - | - | 5 | - | - | - | - | 1 | 18 | 27 |
| Indiana............. | - | 5 | - | - | - | - | - | - | - | 9 | 12 |
| Illinois............ | 1 | - | 1 | - | - | - | - | - | - | 21 | 10 |
| Michigan............ | - | 1 | - | 1 | - | 2 | - | - | - | 38 | 65 |
| Wisconsin.......... | 1 | - | - | 1 | - | - | - | - | - | 9 | 11 |
| WEST NORTH CENTRAL... | - | 3 | 1 | 1 | 2 | - | - | - | - | 31 | 24 |
| Minnesota........... | - | - | - | 1 | - | - | - | - | - | 11 | 6 |
| Iowa............... | - | 3 | 1 | - | - | - | - | - | - | 8 | 4 |
| Missouri........... | - | - | - | - | 2 | - | - | - | - | 3 | 4 |
| North Dakota....... | - | - | - | - | - | - | - | - | - | 3 | 1 |
| South Dakota....... | - | - | - | - | - | - | - | - | - | - | 2 |
| Nebraska............ | - | - | - | - | - | - | - | - | - | 1 | 1 |
| Kansas.............. | - | - | - | - | - | - | - | - | - | 5 | 6 |
| SOUTH ATLANTIC....... | 2 | 4 | 2 | 3 | 2 | 1 | 1 | 1 | - | 54 | 95 |
| Delaware............ | - | - | - | - | - | - | - | - | - | 9 | 5 |
| Maryland........... | - | - | - | 1 | - | 1 | - | - | - | 13 | 44 |
| Dist. of Columbia.. | - | - | - | - | - | - | - | - | - | - | 7 |
| Virginia............ | - | - | 2 | - | - | - | - | - | - | 4 | 10 |
| West Virginia...... | - | - | - | - | - | - | - | - | - | 2 | 12 |
| North Carolina..... | - | 3 | - | - | 1 | - | - | - | - | 8 | 6 |
| South Carolina..... | - | - | - | - | - | - | 1 | - | - | - | 3 |
| Georgia............. | - | - | - | - | - | - | - | - | - | 9 | - |
| Florida............. | 2 | 1 | - | 2 | 1 | - | - | 1 | - | 9 | 13 |
| EAST SOUTH CENTRAL... | 1 | 1 | - | 3 | - | 1 | 1 | - | 1 | 30 | 35 |
| Kentucky............ | - | - | - | - | - | - | - | - | - | 6 | 17 |
| Tennessee........... | 1 | - | - | - | - | 1 | - | - | - | 15 | 13 |
| Alabama............. | - | - | - | - | - | - | 1 | - | 1 | 7 | 2 |
| Mississippi........ | - | 1 | - | 3 | - | - | - | - | - | 2 | 3 |
| WEST SOUTH CENTRAL... | 1 | 4 | 1 | - | 1 | - | 6 | 1 | - | 44 | 49 |
| Arkansas............ | - | - | 1 | - | - | - | - | - | - | 1 | 6 |
| Louisiana........... | - | - | - | - | 1 | - | - | 1 | - | 10 | 7 |
| Oklahoma............. | - | - | - | - | - | - | - | - | - | 3 | 5 |
| Texas............... | 1 | 4 | - | - | - | - | 6 | - | - | 30 | 31 |
| mountain.............. | - | 5 | - | 2 | 7 | - | - | 1 | 1 | 49 | 57 |
| Montana. ............ | - | 1 | - | - | 3 | - | - | 1 | - | - | 1 |
| Idaho............... | - | - | - | - | - | - | - | - | - | 3 | 4 |
| Wyoming. . . . . . . . . . | - | - | - | - | - | - | - | - | - | - | 6 |
| Colorado............ | - | 2 | - | - | 4 | - | - | - | - | 2 | 27 |
| New Mexico.......... | - | 1 | - | 2 | - | - | - | - | - | 11 | 7 |
| Arizona............. | - | - | - | - | - | - | - | - | - | 31 | 5 |
| Utah................ | - | 1 | - | - | - | - | - | - | 1 | 2 | 6 |
| Nevada.............. | - | - | - | - | - | - | - | - | - | - | 1 |
| PACIFIC............... | 17 | 16 | - | 3 | 4 | 2 | - | 1 | 5 | 166 | 148 |
| Washington......... | 1 | 4 | - | - | 1 | - | - | 1 | 2 | 18 | 12 |
| Oregon.............. | 1 | , | - | - | - | - | - | - | - | 35 | 11 |
| California......... | 14 | 12 | - | 3 | 3 | 2 | - | - | 3 | 112 | 115 |
| Alaska.............. | - | - | - | - | - | - | - | - | - | 1 |  |
| Hawail.............. | 1 | - | - | - | - | - | - | - | - | 1 | 1 |
| Puerto Rico........... | - | - | - | - | - | - | - | - | - | 17 | 21 |

CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
FOR WEEKS ENDED
DECEMBER 31, 1966 AND JANUARY 1., 1966 (52nd WEEK) - CONTINUED

| AREA | MEASLES (Rubeola) |  |  | MENINGOCOCCAL INFECTIONS, TOTAL |  |  | POLIOMYELITIS |  |  |  | RUBELLA |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Total | Paralytic |  |  |
|  | 1966 | Cumulative |  |  |  |  | 1966 | Cumulative |  | 1966 | 1965 | 1966 | $\begin{gathered} \text { Cumulative } \\ 1966 \end{gathered}$ | 1966 |
|  |  | 1966 | 1965 | 1966 | 1965 |  |  |  |  |  |  |
| UNITED STATES... | 1,080 | 202,797 | 265,501 | 40 | 3,373 | 3,051 | 2 | 7 | 2 | 93 | 234 |  |  |  |
| New england. . . . . . . . | 20 | 2,604 | 37,488 | 1 | 155 | 161 | - | - | - | - | 14 |  |  |  |
| Maine............... | 6 | 307 | 2,949 | - | 12 | 18 | - | - | - | - | 4 |  |  |  |
| New Hampshire...... | - | 80 | 2, 383 | - | 11 | 10 | - | - | - | - | - |  |  |  |
| Vermont. . . . . . . . . . | 3 | 348 | 1,457 | - | 4 | 9 | - | - | - | - | - |  |  |  |
| Massachusetts...... | 8 | 844 | 19,505 | - | 62 | 62 | - | - | - | - | 8 |  |  |  |
| Rhode Island....... | - | 75 | 3,972 | - | 21 | 18 | - | - | - | - | 2 |  |  |  |
| Connecticut........ | 3 | 950 | 9,222 | 1 | 45 | 44 | - | - | - | - | $-$ |  |  |  |
| middle atlantic. . . . . | 17 | 18,617 | 19,423 | 7 | 448 | 406 | - | - | - | 1 | 15 |  |  |  |
| New York City...... | 5 | 8,381 | 4,127 | 2 | 67 | 68 | - | - | - | - | 3 |  |  |  |
| New York, Up-State. | 7 | 2,687 | 4,512 | 1 | 115 | 118 | - | - | - | - | 9 |  |  |  |
| New Jersey......... | 5 | 2,033 | 4,140 | 3 | 140 | 107 | - | - | - | - | - |  |  |  |
| Pennsylvania....... | - | 5,516 | 6,644 | 1 | 126 | 113 | - | - | - | 1 | 3 |  |  |  |
| EAST NORTH CENTRAL... | 137 | 70,625 | 64,776 | 3 | 536 | 457 | - | 2 | - | 8 | 62 |  |  |  |
| Ohin................ | 40 | 6,511 | 9,277 | - | 158 | 126 | - | - | - | 2 | 7 |  |  |  |
| Indiana............ | 2 17 | 5,834 11,555 | 2,366 | 1 | 89 | 52 | - | - | - | 2 | 2 |  |  |  |
| Michigan........... | 35 | 15,221 | 4,565 28,161 | 1 | 97 135 | 121 | - | 2 | - | 3 | 3 |  |  |  |
| Wisconsin.......... | 43 | 31,504 | 20,407 | 1 | 57 | 49 | - | - | - | $-$ | 38 |  |  |  |
| WEST NORTH CENTRAL... | 42 | 9,386 | 17,578 | 2 | 179 | 148 | - | - | - | 1 | 28 |  |  |  |
| Minnesota........... | 2 | 1,690 | 950 | 1 | 41 | 35 | - | - | - | 1 | 1 |  |  |  |
| Iowa. ............... | 15 | 5,478 | 9,309 | - | 23 | 14 | - | - | - | - | 19 |  |  |  |
| Missouri........... North Dakota...... | - | 539 | 2,688 | - | 66 | 58 | - | - | - | - | - |  |  |  |
| North Dakota....... | 25 | 1,439 | 4,045 | - | 11 | 13 | - | - | - | - | 8 |  |  |  |
| Nebraska. . . . . . . . . | - | 200 | 470 | $\overline{1}$ | 13 | 11 | - | - | - | - | - |  |  |  |
| Kansas.............. | NN | NN | NN | - | 19 | 13 | - | - | - | - | - |  |  |  |
| South atlantic. . . . . . | 120 | 16,331 | 27,301 | 6 | 569 | 577 | - | 1 | - | 2 | 21 |  |  |  |
| Delaware... | 1 | 268 | 519 | - | 7 | 11 | - | - | - | $-$ | I |  |  |  |
| Maryland........... | 7 | 2,133 | 1,365 | 1 | 54 | 60 | - | - | - | - | 1 |  |  |  |
| Dist. of Columbia.. | - | 390 | 176 | - | 15 | 12 | - | - | - | - | $-$ |  |  |  |
| Virginia........... | 3 | 2,268 | 4,325 | - | 67 | 76 | - | - | - | - | 12 |  |  |  |
| West Virginia...... | 18 | 5,580 | 14,872 | 2 | 50 | 30 | - | - | - | 1 | 4 |  |  |  |
| North Carolina. . . . | 41 | 827 | 419 | - | 142 | 121 | - | - | - | - | - |  |  |  |
| South Carolina..... | - | 664 | 1,262 | - | 55 | 70 | - | - | - | - |  |  |  |  |
| Georgia............ | - | 244 | 655 | 2 | 79 | 63 | - | - | - | 1 | - |  |  |  |
| Florida............. | 50 | 3,957 | 3,708 | 1 | 100 | 134 | - | 1 | - | - | 4 |  |  |  |
| EAST SOUTH CENTRAL... | 92 | 20,837 | 16,356 | 4 | 288 | 233 | - | - | - | 4 | 20 |  |  |  |
| Kentucky.... . . . . . . . | 8 | 4,877 | 3,805 | - | 97 | 88 | - | - | - | - | 3 |  |  |  |
| Tennessee.. | 49 | 12,754 | 9,043 | 2 | 98 | 73 | - | - | - | - | 15 |  |  |  |
| Alabama..... | 34 | 1,842 | 2,358 | - | 62 | 45 | - | - | - | 1 | 2 |  |  |  |
| Mississippi........ | 1 | 1,364 | 1,150 | 2 | 31 | 27 | - | - | - | 3 | - |  |  |  |
| WEST SOUTH CENTRAL... | 441 | 27,609 | 32,207 | 4 | 448 | 380 | 2 | 4 | 2 | 74 | 1 |  |  |  |
| Arkansas........... | 207 | 1,389 | 1,195 | 1 | 38 | 19 | - | - | - | 1 | - |  |  |  |
| Louisiana. . . . . . . . | 5 | 108 | 134 | 1 | 171 | 203 | - | - | - | 1 | - |  |  |  |
| Oklahoma. . . . . . . . . | 10 | 672 | 244 | 1 | 24 | 23 | - | - | - | 1 | - |  |  |  |
| Texas.............. . . | 219 | 25,440 | 30,634 | 1 | 215 | 135 | 2 | 4 | 2 | 71 | 1 |  |  |  |
| mountain. . . . . . . . . . . | 73 | 12,785 | 21,100 | 1 | 95 | 113 | - | - | - | - | 21 |  |  |  |
| Montana............ | 2 | 1,935 | 3,928 | - | 5 | 3 | - | - | - | - | 21 |  |  |  |
| Idaho... | 4 | 1,715 | 3,119 | - | 5 | 14 | - | - | - | - | - |  |  |  |
| Wyoming . . . . . . . . . . . | 1 | 236 | 879 | - | 6 | 7 | - | - | - | - | - |  |  |  |
| Colorado. . . . . . . . . . | 32 | 1,467 | 6,009 | - | 49 | 30 | - | - | - | - | 6 |  |  |  |
| New Mexico. . . . . . . . | 13 | 1,282 | 694 | - | 10 | 11 | - | - | - | - | - |  |  |  |
| Arizona. . . . . . . . . . | 10 | 5,386 | 1,588 | 1 | 13 | 24 | - | - | - | - | 15 |  |  |  |
|  | 4 | 690 | 4,658 | 1 | 2 | 19 | - | - | - | - | - |  |  |  |
| Nevada............. | 7 | 74 | 225 | - | 5 | 5 | - | - | - | - | - |  |  |  |
| PACIficic. . . . . . . . . . . | 138 | 24,003 | 29,272 | 12 | 655 | 576 | - | - | - | 3 | 52 |  |  |  |
| Washington. . . . . . . . | 57 | 5,342 | 7,619 | - | 58 | 49 | - | - | - | 2 | 15 |  |  |  |
| Oregon............... | 49 | 2,596 | 3,520 | - | 42 | 38 | - | - | - | - | 10 |  |  |  |
| California......... | 32 | 15,254 | 13,864 | 12 | 533 | 460 | - | - | - | 1 | 24 |  |  |  |
| Haway............ | - | 646 165 | 215 4,054 | - | $\begin{array}{r}18 \\ 4 \\ \hline\end{array}$ | 20 9 | - | - | - | - | 3 |  |  |  |
| Puerto Rico......... | 79 | 3,588 | 3,009 | - | 19 | 11 | - | - | - | 1 | - |  |  |  |

CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES<br>FOR WEEKS ENDED<br>DECEMBER 31, 1966 AND JANUARY 1, 1966 (52nd WEEK) - CONTINUED

| AREA | STREPTOCOCCAL SORE THROAT \& SCARLET FEVER | TETANUS |  | TULAREMIA |  | TYPHOID |  | TYPHJS FEVER TICK-BORNE (Rky. Mt. Spotted) |  | RABIES IN ANIMALS |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1966 | 1966 | Cum. 1966 | 1966 | Cum. 1966 | 1966 | $\begin{aligned} & \hline \text { Cum. } \\ & 1966 \end{aligned}$ | 1966 | $\begin{aligned} & \text { Cum. } \\ & 1966 \end{aligned}$ | 1966 | $\begin{aligned} & \text { Cum. } \\ & 1966 \end{aligned}$ |
| UNITED STATES... | 8,551 | 2 | 194 | 8 | 185 | 3 | 369 | - | 249 | 84 | 3,984 |
| new england. . . . . . . . | 1,131 | - | 4 | 1 | 2 | - | 13 | - | 3 | 1 | 89 |
| Maine.............. | 32 | - | - | - | - | - | - | - | - | - | 26 |
| New Hampshire...... | 38 | - | - | - | - | - | - | - | - | - | 31 |
| Vermont............ | - | - | - | - | - | - | - | - | - | 1 | 27 |
| Massachusetts..... | 281 | - | 2 | 1 | 2 | - | 9 | - | 1 | - | 4 |
| Rhode Island....... | 83 | - | - | - | - | - | - | - | - | - | - |
| Connecticut........ | 697 | - | 2 | - | - | - | 4 | - | 2 | - | 1 |
| MIDDLE ATIANTIC...... | 331 | - | 15 | - | - | 1 | 62 | - | 49 | - | 232 |
| New York City...... | 12 | - | 5 | - | - | - | 25 | - | - | - | 1 |
| New York, Up-State. | 319 | - | 2 | - | - | - | 15 | - | 13 | - | 215 |
| New Jersey......... | NN | - | 3 | - | - | - | 8 | - | 16 | - | - |
| Pennsylvania....... | - | - | 5 | - | - | 1 | 14 | - | 20 | - | 16 |
| EAST NORTH CENTRAL... | 928 | - | 21 | 1 | 24 | - | 46 | - | 20 | 3 | 496 |
| Ohio................ | 134 | - | 5 | - | 3 | - | 21 | - | 9 | 2 | 206 |
| Indiana............ | 85 | - | 4 | - | 11 | - | 5 | - | - | - | 113 |
| I11inois........... | 169 | - | 4 | 1 | 9 | - | 7 | - | 11 | 1 | 75 |
| Michigan........... | 384 | - | 6 | - | - | - | 7 | - | - | - | 43 |
| Wisconsin.......... | 156 | - | 2 | - | 1 | - | 6 | - | - | - | 59 |
| WEST NORTH CENTRAL... | 363 | - | 15 | - | 20 | - | 34 | - | 4 | 18 | 926 |
| Minnesota.......... | 8 | - | 3 | - | 1 | - | 1 | - | - | 2 | 222 |
| Iowa................ | 137 | - | 2 | - | - | - | 5 | - | - | 2 | 168 |
| Missouri........... | - | - | 8 | - | 11 | - | 18 | - | 3 | 6 | 260 |
| North Dakota....... | 158 | - | - | - | - | - | 1 | - | - | 2 | 63 |
| South Dakota....... | 26 | - | - | - | 4 | - | - | - | - | 6 | 123 |
| Nebraska........... | 1 | - | 1 | - | 2 | - | 2 | - | - | - | 29 |
| Kansas............. . | 33 | - | 1 | - | 2 | - | 7 | - | 1 | - | 61 |
| SOUTH ATLANTIC....... | 751 | 1 | 38 | - | 16 | - | 70 | - | 114 | 6 | 508 |
| Delaware........... | 3 | - | - | - | - | - | 1 | - | 2 | - |  |
| Maryland........... | 162 | - | 3 | - | 5 | - | 12 | - | 27 | - | 3 |
| Dist. of Columbia.. | 11 | - |  | - | - | - | 2 | - | - | - | - |
| Virginia........... | 200 | - | 6 | - | 3 | - | 16 | - | 31 | 3 | 256 |
| West Virginia...... | 174 | - | - | - | 1 | - | 1 | - | 1 | $-$ | 60 |
| North Carolina..... | 34 | - | 4 | - | 3 | - | 6 | - | 27 | - | 4 |
| South Carolina..... |  | - | 2 | - | 1 | - | 15 | - | 5 | - | 1 |
| Georgia........... | 8 | 1 | 8 | - | 3 | - | 4 | - | 22 | - | 110 |
| Florida............ | 159 | 1 | 15 | - | - | - | 13 | - | - | 3 | 74 |
| EAST SOUTH CENTRAL... | 1,047 | - | 28 | 4 | 28 | - | 47 | - | 44 | 16 | 521 |
| Kentucky........... | 22 | - | 2 | - | 2 | - | 10 | - | 9 | 4 | 125 |
| Tennessee.......... | 897 | - | 9 | 4 | 18 | - | 24 | - | 26 | 12 | 353 |
| Alabama............ | 117 | - | 8 | - | 4 | - | 6 | - | 7 | - | 21 |
| Mississippi........ | 11 | - | 9 | - | 4 | - | 7 | - | 2 | - | 22 |
| WEST SOUTH CENTRAL... | 748 | - | 48 | 1 | 76 | - | 36 | - | 10 | 9 | 770 |
| Arkansas........... | 7 | - | 5 | 1 | 57 | - | 5 | - | 2 | 1 | 86 |
| Louisiana.......... | \% | - | 12 | - | 4 | - | 10 | - | 2 | 4 | 59 |
| Oklahoma........... | 61 | - | 3 | - | 8 | - | 10 | - | 7 | 1 | 185 |
| Texas.............. | 680 | - | 28 | - | 7 | - | 11 | - | 1 | 3 | 440 |
| mountain. . . . . . . . . . . | 1,908 | - | 2 | 1 | 15 | - | 16 | - | 4 | 8 | 107 |
| Montana. . . . . . . . . . | 47 | - | - |  | 2 | - | 16 | - | - |  | 7 |
| Idaho. . . . . . . . . . . | 99 | - | - | - | - | - | - | - | - | - | - |
| Wyoming. . . . . . . . . . | 44 | - | - | - | 6 | - | - | - | 1 | - | - |
| Colorado........... | 1,318 | - | 2 | - | 2 | - | 3 | - | 2 | - | 18 |
| New Mexico......... | 222 | - | - | - | 1 | - | 2 | - | 1 | 2 | 20 |
| Arizona............ | 109 | - | - | - | 1 | - | 5 | - | - | 6 | 50 |
| Utah............... | 66 | - | - | 1 | 3 | - | 5 | - | - | - | 3 |
| Nevada. . . . . . . . . . | 3 | - | - | - | - | - | 1 | - | - | - | 9 |
| PACIFIC. . . . . . . . . . . | 1,344 | 1 | 23 | - | 4 | 2 | 45 | - | 1 | 23 | 335 |
| Washington......... | 336 | - | - | - | - | - | 13 | - | - | 2 | 15 |
| Oregon. . . . . . . . . . . | 46 | 1 | 2 | - | - | - | 1 | - | - | - | 5 |
| California......... | 851 | - | 21 | - | 4 | 2 | 29 | - | 1 | 23 | 315 |
| Alaska............. Hawaii........... | 51 60 | - | - | - | - | - | 2 | - | - | - |  |
| Puerto Rico........... | 2 | - | 54 | - | - | - | 19 | - | - | - | 20 |

Week No.
DEATHS IN 122 UNITED STATES CITIES FOR WEEK ENDED DECEMBER 31, 1966
(By place of occurrence and week of filing certificate. Excludes fetal deaths)

| Area | All Causes |  | Pneumonia and Influenza All Ages | Under <br> 1 year <br> A11 <br> Causes | Area | All Causes |  | Pneumonia and <br> Influenza <br> All Ages | Under <br> 1 year <br> A11 <br> Causes |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \text { All } \\ & \text { Ages } \end{aligned}$ | 65 years and over |  |  |  | A11 <br> Ages | 65 years and over |  |  |
| NEW ENGLAND: | 783 | 488 | 37 | 38 | SOUTH ATLANTIC: | 1,138 | 614 | 58 | 47 |
| Boston, Mass | 239 | 134 | 10 | 18 | Atlanta, Ga.----------- | 105 | 45 | 5 | 4 |
| Bridgeport, Conn.* | 44 | 27 | 1 | 3 | Baltimore, Md.--------- | 280 | 149 | 3 | 8 |
| Cambridge, Mass.----- | 29 | 20 | - | - | Charlotte, N. C.------- | 62 | 25 | 3 | 3 |
| Fall River, Mass.---- | 41 | 33 | 1 | - | Jacksonville, Fla.----- | 65 | 29 | 6 | 5 |
| Hartford, Conn.------ | 71 | 37 | 4 | 2 | Miami, Fla.---.-------- | 87 | 50 | 2 | 3 |
| Lowe 11, Mass.-.------- | 51 | 28 | 4 | 2 | Norfolk, Va.----------- | 51 | 30 | 4 | 1 |
| Lynn, Mass.----------- | 24 | 17 | 1 | - | Richmond, Va.---------- | 91 | 41 | 4 | 4 |
| New Bedford, Mass*---- | 30 | 21 | 4 | 1 | Savannah, Ga.---------- | 28 | 12 | 3 | 4 |
| New Haven, Conn.------ | 32 | 20 | - | 4 | St. Petersburg, Fla...- | 72 | 59 | 6 | 3 |
| Providence, R. I.----- | 81 | 58 | 4 | 4 | Tampa, Fla.------------ | 83 | 55 | 13 | 5 |
| Somerville, Mass.---- | 14 | 10 | 2 | - | Washington, D. C.-.---- | 186 | 107 | 8 | 3 |
| Springfield, Mass.---- | 52 | 35 | 2 | 2 | Wilmington, Del.-...--- | 28 | 12 | 1 | 4 |
| Waterbury, Conn.------ | 21 | 14 | - | 1 |  |  |  |  | . |
| Worcester, Mass.----- | 54 | 34 | 4 | 1 | EAST SOUTH CENTRAL: | 550 | 279 | 27 | 30 |
|  |  |  |  |  | Birmingham, Ala.------- | 85 | 42 | 4 | 2 |
| Albany, N. Y.--------- | 3,610 67 | 2,093 34 | 135 3 | 153 3 | Chattanooga, Tenn.------ | 25 | 16 | 2 | 1 |
| Allentown, Pa.------- | 45 | 26 | 2 | 1 | Louisville, Ky. | 88 | 16 56 | 2 | 2 |
| Buffalo, N. Y.------- | 153 | 83 | 6 | 8 | Memphis, Tenn.- | 136 | 60 | 5 | 13 |
| Camden, N. J.--------- | 52 | 38 | 1 | 1 | Mobile, Ala.----------- | 45 | 23 | 2 | 4 |
| Elizabeth, N. J.----- | 51 | 31 | 3 | 1 | Montgomery, Ala.------- | 41 | 20 | 2 |  |
| Erie, Pa,-----.-.---- | 32 | 19 | 2 | 2 | Nashville, Tenn.---.--- | 97 | 46 | 5 | 4 |
| Jersey City, N. J.---- | 88 | 56 | 3 | 6 |  |  |  |  |  |
| Newark, N. J.--------- | 87 | 34 | 10 | 8 | WEST SOUTH CENTRAL: | 970 | 499 | 33 | 57 |
| New York City, N. Y.-- | 1,828 | 1,053 | 66 | 77 | Austin, Tex.----------- | 31 | 12 | 2 | 2 |
| Paterson, N. J.-.---- | 45 | 32 | 2 | 1 | Baton Rouge, La.------- | 30 | 10 | - | 7 |
| Philadelphia, Pa*----- | 549 | 312 | 13 | 23 | Corpus Christi, Tex.--- | 23 | 13 | 2 | - |
| Pittsburgh, Pa.--- | 190 | 100 | 1 | 8 | Dallas, Tex.------.-.-- | 118 | 69 | 4 | 9 |
| Reading, Pa.---------- | 63 | 42 | 3 | 3 | El Paso, Tex.---------- | 39 | 24 | 7 |  |
| Rochester, N. Y.------ | 105 | 72 | 6 | 3 | Fort Worth, Text------ | 67 | 36 | 2 | 4 |
| Schenectady, N. Y.---- | 18 | 14 | - | - | Houston, Tex.---------- | 167 | 74 | 1 | 9 |
| Scranton, Pa.--------- | 42 | 24 | 1 | 2 | Little Rock, Ark.------ | 38 | 18 | 3 | 1 |
| Syracuse, N. Y.------- | 52 | 32 | 1 | 2 | New Orleans, La.------- | 189 | 106 | 5 | 8 |
| Trenton, N. J.-------- | 67 | 32 | 3 | 2 | Oklahoma City, Okla.--- | 76 | 36 | - | 3 |
| Utica, N. Y.----------- | 39 | 30 | 6 | 2 | San Antonio, Tex.------ | 106 | 58 | 4 | 4 |
| Yonkers, N. Y.-------- | 37 | 29 | 3 | - | Shreveport, La.-------------- Tulsa, | 37 | 16 | 1 | 4 |
| EAST NORTH CENTRAL: | 2,651 | 1,485 | 72 | 162 | Tulsa, Okla.----------- | 49 | 27 | 2 | 3 |
| Akron, Ohio----------- | 72 | 46 | - | 6 | MOUNTAIN: | 512 | 303 | 29 | 21 |
| Canton, Ohio---------- | 34 | 18 | 1 | 2 | Albuquerque, N. Mex.--- | 66 | 36 | 6 | 3 |
| Chicago, Ill.--------- | 790 | 405 | 33 | 40 | Colorado Springs, Colo. | 22 | 18 | 4 | 3 |
| Cincinnati, Ohio------ | 148 | 97 | - | 6 | Denver, Colo.---------- | 137 | 87 | 6 | 4 |
| Cleveland, Ohio------- | 210 | 115 | 1 | 11 | Ogden, Utah------------ | 18 | 8 | 1 | 1 |
| Columbus, Ohio-------- | 137 | 77 | 5 | 3 | Phoenix, Ariz.--------- | 133 | 79 | 10 | 5 |
| Dayten, Ohio---------- | 105 | 55 | 1 | 14 | Pueblo, Colo.---------- | 26 | 12 | 1 | 2 |
| Detroit, Mich.-------- | 354 | 193 | 7 | 24 | Salt Lake City, Utah--- | 62 | 33 | 1 | 4 |
| Evansville, Ind......- | 47 | 25 | 2 | 4 | Tucson, Ariz.---------- | 48 | 30 | 1 | 2 |
| Flint, Mich.---------- | 52 | 25 | 2 | 7 |  |  |  |  |  |
| Fort Wayne, Ind.------ | 38 | 24 | 2 | 4 | PACIFIC: | 1,441 | 867 | 43 | 66 |
| Gary, Ind.------------- | 29 | 11 | 1 | 3 | Berkeley, Calif.------- | 29 | 22 | 1 | 1 |
| Grand Rapids, Mich.--- | 56 | 39 | 4 | 2 | Fresno, Calif.----------- | 43 | 19 | 2 | 6 |
| Indianapolis, Ind.---- | 147 | 80 | 6 | 12 | Glendale, Calif.-...---- | 40 | 26 | - | - |
| Madison, Wis.--------- | 31 | 19 | - | 1 | Honolulu, Hawaii------- | 51 | 22 | - | 3 |
| Milwaukee, Wis.-.----- | 112 | 76 | 2 | 9 | Long Beach, Calif.----- | 78 | 52 | 4 | 3 |
| Peoria, I11.---------- | 49 | 25 | - | 4 | Los Angeles, Calif.---- | 308 | 177 | 9 | 11 |
| Rockford, Ill.-------- | 40 | 28 | - | 2 | Oak1and, Calif.--------- | 66 | 37 | - | 4 |
| South Bend, Ind.------ | 36 | 27 | 1 | - | Pasadena, Calif.------- | 25 | 16 | 1 | 1 |
| Toledo, Ohio---------- | 105 | 69 | 4 | 3 | Portland, Oreg.-------- | 119 | 73 | 4 | 2 |
| Youngstown, Ohio------ | 59 | 31 | - | 5 | Sacramento, Calif..---- <br> San Diego, Calif. | 91 91 | 67 48 | - | 1 |
| WEST NORTH CENTRAL: | 778 | 458 | 29 | 37 | San Francisco, Calif.-- | 91 218 | 48 122 | 9 | 10 |
| Des Moines, Iowa------ | 43 | 26 | 2 | 1 | San Jose, Calif.------- | 66 | 48 | 9 | 3 |
| Duluth, Minn.--------- | 19 | 12 | 2 | 1 | Seattle, Wash.--------- | 132 | 82 | 2 | 11 |
| Kansas City, Kans.---- | 40 | 23 | 2 | 3 | Spokane, Wash.--------- | 51 | 35 | 2 | 1 |
| Kansas City, Mo.-.---- | 144 | 78 | 9 | 7 | Tacoma, Wash. | 33 | 21 | - | 2 |
| Lincoln, Nebr.-------- | 17 | 12 | 1 | 1 |  |  |  |  |  |
| Minneapolis, Minn.---- | 101 | 61 | - | 2 | Total | 12,433 | 7,086 | 463 | 611 |
| Omaha, Nebr.----------- | 62 | 34 | 3 | 2 |  |  |  |  |  |
| St. Louis, Mo.-------- | 209 | 122 | 6 | 12 | Cum | lative T | tals |  |  |
| St. Paul, Minn.------- | 93 | 62 | 3 | 6 | including reporte | correct | ons for pr | evious wee |  |
| Wichita, Kans.-------- | 50 | 28 | 1 | 2 |  |  |  |  |  |
|  |  |  |  |  | All Causes, All Ages | $r--$ |  | $\begin{array}{ll} -- & 650,41 \\ -- & 372,23 \end{array}$ |  |
|  |  |  |  |  | Pneumonia and Influenza, | All Ages | ------ | - 26,39 |  |
| *Estimate - based on av | ge perc | nt of div | sional tot |  | Al1 Causes, Under 1 Year | of Age-- | ----- | - 34,69 |  |

## SYLVATIC PLAGUE - New Mexico <br> (Continued from page 453)

on December 23, 1966, prohibiting the hunting and trapping of rabbits in DeBaca County. Other control measures include general publicity for personal protection and plans for a dusting program for communities in the area.

Including the recent epizootic in DeBaca County, $P$. pestis has now been isolated from wild rodents, rabbits, hares, and/or their fleas in 23 of New Mexico's 32 counties. The prairie dog and rabbit have been associated with cases of human plague most often. Since 1949 there have been 22 human cases, five of which are known to have developed infection following contact with rabbits.
(Reported by Dr. Thomas H. Tomlinson, Associate Director; Daniel E. Johnson, Ph.D., Chief, Public Health Laboratories; and Bryan Miller, M.S., Chief, Vector Control Division, all of the New Mexico Department of Public Health.)

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[^0]:    * Definitions of malaria terminology used:

    Imported - malaria acquired outside of a specific area (U.S.A. in this report).
    Introduced - malaria acquired by mosquito transmission contracted from an imported case in an area where malaria is not a regular occurrence.
    Induced-malaria acquired through artificial means, i.e., malariotherapy, blood transfusion, common syringes.
    tIncludes veterans discharged from the Armed Forces in 1965 or 1966.

[^1]:    THE MOREIDITY AND MORTALITY WEEKLY REPORT, WITH A CIRCULA TION OF 15,600, 15 PUBLISHED. AT THE COMMUNICABLE DISEASE CENTER, ATLANTA, GEORGIA
    CHIEF, COMMUNICABLE DISEASE CENTER CHIEF, EPIDEMIOLOGY BRANCH DAVID J. SENCER, M.D. ACTING CHIEF, STATISTICS SECTION A.D. LANGMUIR, M.D.

    IN ADOITION TO THE ESTABLISHED PROCEDURES FOR REPORTING MOREIDITY AND MORTALITY, THE COMMUNICAELE DISEASE CENTER WELCOMES ACCOUNTS OF INTERESTING OUTBREAKS OR CASE INVESTIGATIONS WHICH ARE OF CURRENT INTEREST TO HEALTH OFFICIALS AND WHICH ARE DIRECTLY RELATED TO THE CONTRC: OF COMMUNICA日LE DISEASES. SUCH COMMUNICATIONS SHOULD EE ADDRESSEL TO:

    THE EDITOR
    MOREIDITY AND MORTALITY WEEKLY REPORT
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    ATLANTA, GEORGIA 30333
    NOTE: THE DATA IN THIS REPORT ARE PROVISIONAL AND ARE GASED ON WEEKLY TELEGRAMS TO THE CDC BY THE INDIVIDUAL STATE HEALTH DEPARTMENTS. THE REPORTING WEEK CONGLUDES STATE HEALTH DEPARTMENTS. THE REPORTING WEEK CONCLUDES ON THE SUCCEEDING FRIDAY.

