CENTER FOR DISEASE CONTROL

# Morbidity and Mortality

Vol. 20, No. 13

WEEKLY REPORT

For Week Ending April 3, 1971

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

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## SURVEILLANCE SUMMARY
## MEASLES – United States, 1970-71

In the past 4 weeks, 11,214 cases of measles were reported in the United States, more cases than in any other 4-week period since 1967. The 30,900 cases reported to date in this epidemiologic year (EY)* represent an increase of 175 percent over the total reported for the same period in EY 1969-70 and 360 percent over that for EY 1968-69 (Figure 1).

The largest number of cases were reported from the northeastern, mid-Atlantic states, and central states. Only Arizona, Delaware, Hawaii, Illinois, Maryland, Nebraska, Nevada, New Jersey, North Dakota, and Pennsylvania have reported fewer cases so far this EY than they did for the same period in EY 1969-70 (Table 1).

Measles vaccine efficacy has been evaluated in seven outbreaks this EY. Vaccine failure rates have been high only for children who received the vaccine with measles immune globulin before the age of 1. This high failure rate was noted in outbreaks in Greenwood, Illinois, and Jefferson County, Alabama (MMWR, Vol. 20, No. 13). In all other outbreaks investigated, the failure rate was considerably lower because there were fewer children exposed with a history of improper vaccination. In these latter outbreaks, vaccine efficacy was 96 percent or higher (Table 2).

In urban areas, preschool children were most frequently affected, while in suburban and rural areas, school-aged children were most affected. The critical factor underlying the spread of measles is inadequate vaccination of susceptibles. *(Reported by the Field Services Branch, Epidemiology Program, and the Immunization Branch, State and Community Services Division, CDC.)*

*The measles epidemiologic year (EY) begins with the calendar week 41 and ends with week 40 of the following year.

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Figure 1
REPORTED CASES OF MEASLES, BY 4-WEEK PERIODS, USA, EPIDEMIOLOGIC YEAR 1970-71, COMPARED WITH 1966-67, 1967-68, 1968-69, 1969-70

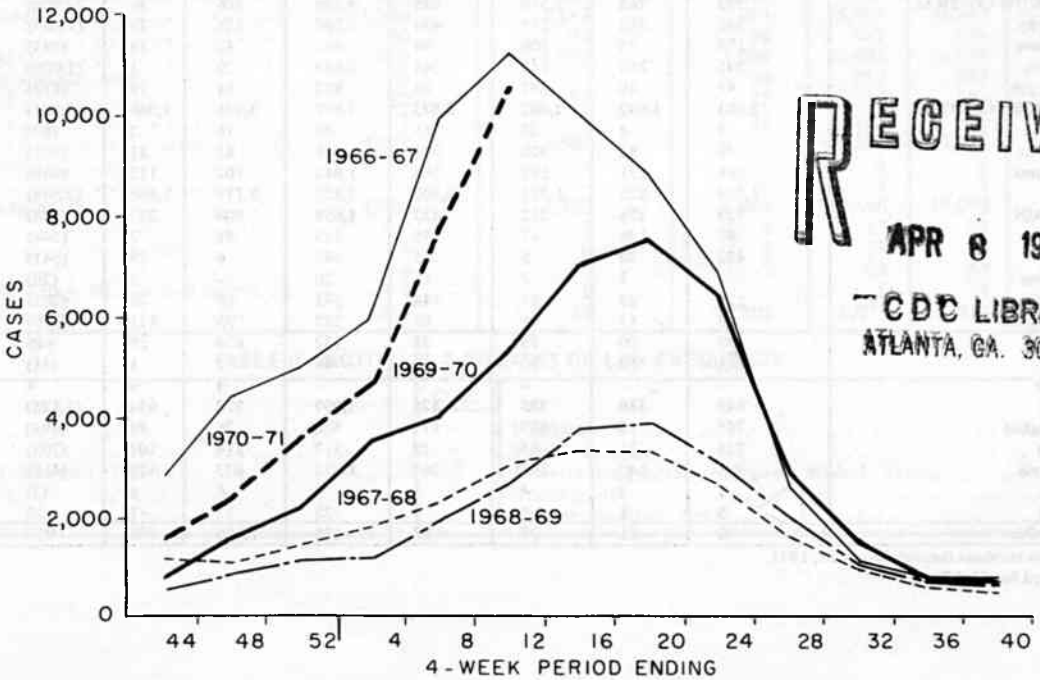


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**Table 1**
**Reported Cases of Measles by State, Geographic Divisions, United States**
**First 24 Weeks Epidemiologic Year 1970-71**
**and Comparable Periods Epidemiologic Years 1968-69 and 1969-70**

| Division | Total 12 Weeks Oct. 11, 1970 Through Jan. 2, 1971 | Number Cases Per Four-Week Period Ended* | | | Total First 24 Weeks Epid. Yr. Oct. 11, 1970 Through Mar. 27, 1971 | Comparable 24 Weeks Total | | Epid. Yr. 1970-71 Decrease (Increase) from 1969-70 | Epid. Yr. 1969-70 Decrease (Increase) from 1968-69 |
|---|---|---|---|---|---|---|---|---|---|
| | | Jan. 30, 1971 | Feb. 27, 1971 | Mar. 27, 1971 | | 1969-70** | 1968-69 | | |
| **UNITED STATES** | 7,300 | 4,775 | 7,611 | 11,214 | 30,900 | 17,697 | 8,518 | (13,203) | (9,179) |
| **NEW ENGLAND** | 391 | 159 | 200 | 410 | 1,160 | 274 | 463 | (886) | 189 |
| Maine | 272 | 92 | 128 | 188 | 680 | 4 | 2 | (676) | (2) |
| New Hampshire | 6 | 3 | 13 | 7 | 29 | 20 | 69 | (9) | 49 |
| Vermont | 1 | 1 | 2 | 34 | 38 | 1 | 3 | (37) | 2 |
| Massachusetts | 87 | 41 | 38 | 98 | 264 | 165 | 57 | (99) | (108) |
| Rhode Island | – | 19 | 3 | – | 22 | 20 | 95 | (2) | 75 |
| Connecticut | 25 | 3 | 16 | 83 | 127 | 64 | 237 | (63) | 173 |
| **MIDDLE ATLANTIC** | 534 | 481 | 864 | 1,210 | 3,089 | 2,480 | 2,426 | (609) | (54) |
| New York City | 242 | 283 | 557 | 712 | 1,794 | 387 | 1,417 | (1,407) | 1,030 |
| New York Up-State | 159 | 63 | 96 | 52 | 370 | 97 | 334 | (273) | 237 |
| New Jersey | 21 | 21 | 58 | 142 | 242 | 1,119 | 406 | 877 | (713) |
| Pennsylvania | 112 | 114 | 153 | 304 | 683 | 877 | 269 | 194 | (608) |
| **EAST NORTH CENTRAL** | 1,015 | 867 | 1,336 | 2,448 | 5,666 | 4,065 | 1,092 | (1,601) | (2,973) |
| Ohio | 234 | 476 | 545 | 710 | 1,965 | 1,072 | 111 | (893) | (961) |
| Indiana | 7 | 8 | 37 | 492 | 544 | 147 | 254 | (397) | 107 |
| Illinois | 238 | 141 | 457 | 591 | 1,427 | 2,154 | 203 | 727 | (1,951) |
| Michigan | 98 | 53 | 76 | 185 | 412 | 374 | 154 | (38) | (220) |
| Wisconsin | 438 | 189 | 221 | 470 | 1,318 | 318 | 370 | (1,000) | 52 |
| **WEST NORTH CENTRAL** | 76 | 228 | 452 | 1,270 | 2,026 | 2,381 | 289 | 355 | (2,092) |
| Minnesota | 2 | 14 | 7 | 14 | 37 | 24 | 4 | (13) | (20) |
| Iowa | 35 | 38 | 156 | 323 | 552 | 71 | 168 | (481) | 97 |
| Missouri | 6 | 143 | 181 | 400 | 730 | 218 | 11 | (512) | (207) |
| North Dakota | 2 | 7 | 32 | 47 | 88 | 150 | 12 | 62 | (138) |
| South Dakota | 10 | 18 | 42 | 38 | 108 | 89 | – | (19) | (89) |
| Nebraska | 18 | 4 | 4 | 3 | 29 | 1,778 | 94 | 1,749 | (1,684) |
| Kansas | 3 | 4 | 30 | 445 | 482 | 51 | – | (431) | (51) |
| **SOUTH ATLANTIC** | 693 | 717 | 760 | 1,131 | 3,301 | 2,579 | 1,348 | (722) | (1,231) |
| Delaware | 8 | 4 | 2 | 5 | 19 | 271 | 29 | 252 | (242) |
| Maryland | 16 | 8 | 10 | 29 | 63 | 311 | 13 | 248 | (298) |
| District of Columbia | 2 | 1 | 1 | 2 | 6 | 411 | – | 405 | (411) |
| Virginia | 349 | 418 | 144 | 158 | 1,069 | 615 | 551 | (454) | (64) |
| West Virginia | 33 | 30 | 44 | 86 | 193 | 96 | 146 | (97) | 50 |
| North Carolina | 136 | 147 | 271 | 450 | 1,004 | 305 | 125 | (699) | (180) |
| South Carolina | 49 | 73 | 110 | 78 | 310 | 181 | 67 | (129) | (114) |
| Georgia | 4 | 1 | 18 | 84 | 107 | 2 | 1 | (105) | (1) |
| Florida | 96 | 35 | 160 | 239 | 530 | 387 | 416 | (143) | 29 |
| **EAST SOUTH CENTRAL** | 933 | 768 | 1,510 | 895 | 4,106 | 206 | 56 | (3,900) | (150) |
| Kentucky | 320 | 368 | 598 | 494 | 1,780 | 111 | 25 | (1,669) | (86) |
| Tennessee | 173 | 78 | 100 | 94 | 445 | 52 | 14 | (393) | (38) |
| Alabama | 391 | 282 | 115 | 241 | 1,029 | 29 | 1 | (1,000) | (28) |
| Mississippi | 49 | 40 | 697 | 66 | 852 | 14 | 16 | (838) | 2 |
| **WEST SOUTH CENTRAL** | 2,081 | 1,092 | 1,882 | 2,842 | 7,897 | 3,936 | 1,986 | (3,961) | (1,950) |
| Arkansas | 3 | 4 | 22 | 55 | 84 | 16 | 2 | (68) | (14) |
| Louisiana | 236 | 92 | 300 | 318 | 946 | 41 | 11 | (905) | (30) |
| Oklahoma | 518 | 171 | 187 | 166 | 1,042 | 102 | 113 | (940) | 11 |
| Texas | 1,324 | 825 | 1,373 | 2,303 | 5,825 | 3,777 | 1,860 | (2,048) | (1,917) |
| **MOUNTAIN** | 729 | 275 | 222 | 432 | 1,658 | 904 | 227 | (754) | (677) |
| Montana | 47 | 126 | 67 | 95 | 335 | 91 | 3 | (244) | (88) |
| Idaho | 433 | 50 | 9 | 55 | 547 | 6 | 29 | (541) | 23 |
| Wyoming | – | 3 | 2 | 15 | 20 | – | 3 | (20) | 3 |
| Colorado | 123 | 23 | 51 | 144 | 341 | 80 | 26 | (261) | (54) |
| New Mexico | 83 | 43 | 46 | 65 | 237 | 98 | 111 | (139) | 13 |
| Arizona | 39 | 20 | 35 | 38 | 132 | 620 | 50 | 488 | (570) |
| Utah | 4 | 10 | 12 | 20 | 46 | 5 | 1 | (41) | (4) |
| Nevada | – | – | – | – | – | 4 | 4 | 4 | – |
| **PACIFIC** | 848 | 188 | 385 | 576 | 1,997 | 872 | 631 | (1,125) | (241) |
| Washington | 245 | 16 | 137 | 172 | 570 | 76 | 94 | (494) | 18 |
| Oregon | 224 | 21 | 43 | 29 | 317 | 114 | 101 | (203) | (13) |
| California | 373 | 140 | 196 | 369 | 1,078 | 623 | 429 | (455) | (194) |
| Alaska | 1 | 3 | 4 | 1 | 9 | 6 | 6 | (3) | – |
| Hawaii | 5 | 8 | 5 | 5 | 23 | 53 | 1 | 30 | (52) |
| Puerto Rico | 70 | 11 | 27 | 23 | 131 | 1,110 | 236 | 979 | (874) |

*Includes revisions through March 27, 1971.
**Adjusted for 53rd Week.

Table 2
Measles Vaccine Efficacy in Seven Reported Measles Outbreaks
Epidemiologic Year 1970-71

| Location | Total Number of Cases | Number of Cases in Previously Vaccinated Children | | Vaccine Efficacy (Percent) |
|---|---|---|---|---|
| | | Total Number | Number Vaccinated Under 1 Year | |
| Bowie County, Texas | 606 | 27 | 7 | 96.2 |
| Aberdeen, South Dakota | 286 | 21 | 13 | 97.6 |
| Greenwood, Illinois | 44 | 9 | 5 | 92.0 |
| Waterbury, Connecticut | 106 | 4 | 3 | 97.4 |
| Neshoba County, Mississippi | 50 | 1 | 0 | 96.0 |
| Dover, Ohio | 55 | 7 | 3 | 98.0 |
| Jefferson County, Alabama | 37 | 25 | 15 | 84.8 |

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

| DISEASE | 13th WEEK ENDED | | MEDIAN | CUMULATIVE, FIRST 13 WEEKS | | |
|---|---|---|---|---|---|---|
| | April 3, 1971 | April 4, 1970 | 1966 - 1970 | 1971 | 1970 | MEDIAN 1966 - 1970 |
| Aseptic meningitis | 33 | 25 | 26 | 659 | 353 | 359 |
| Brucellosis | 4 | 5 | 5 | 26 | 39 | 39 |
| Diphtheria | 4 | 2 | 2 | 50 | 87 | 37 |
| Encephalitis, primary: | | | | | | |
| Arthropod-borne & unspecified | 13 | 26 | 21 | 269 | 251 | 259 |
| Encephalitis, post-infectious | 2 | 9 | 10 | 78 | 98 | 115 |
| Hepatitis, serum | 158 | 164 | 89 | 2,125 | 1,669 | 915 |
| Hepatitis, infectious | 1,149 | 1,142 | 881 | 15,831 | 14,048 | 10,792 |
| Malaria | 50 | 72 | 56 | 952 | 866 | 587 |
| Measles (rubeola) | 2,803 | 1,598 | 1,598 | 26,403 | 14,726 | 14,726 |
| Meningococcal infections, total | 61 | 57 | 89 | 857 | 885 | 1,009 |
| Civilian | 52 | 57 | 73 | 732 | 804 | 917 |
| Military | 9 | – | 11 | 125 | 81 | 92 |
| Mumps | 4,201 | 2,801 | - - - | 46,552 | 33,393 | - - - |
| Poliomyelitis, total | – | – | – | 4 | 1 | 3 |
| Paralytic | – | – | – | 3 | 1 | 3 |
| Rubella (German measles) | 1,996 | 1,980 | 1,961 | 15,546 | 19,092 | 14,263 |
| Tetanus | – | 3 | 1 | 17 | 21 | 24 |
| Tularemia | 1 | 6 | 1 | 23 | 23 | 24 |
| Typhoid fever | 4 | 3 | 7 | 63 | 57 | 57 |
| Typhus, tick-borne (Rky. Mt. spotted fever) | 1 | 1 | – | 5 | 1 | 4 |
| Rabies in animals | 112 | 85 | 101 | 1,075 | 861 | 966 |

**TABLE II. NOTIFIABLE DISEASES OF LOW FREQUENCY**

| | Cum. | | Cum. |
|---|---|---|---|
| Anthrax: | – | Psittacosis: | 8 |
| Botulism: | – | Rabies in Man: | – |
| Leprosy: Calif.-1, Hawaii-1, Tex.-1 | 33 | Rubella congenital syndrome: Mich.-1, Tex.-2 | 19 |
| Leptospirosis: | 8 | Trichinosis: | 25 |
| Plague: | – | Typhus, murine: Tex.-1 | 2 |

## CURRENT TRENDS
## IMMUNIZATION SURVEY – 1970

The 1970 United States Immunization Survey was conducted in September by the Bureau of the Census in cooperation with the Center for Disease Control *(1)*. Information was obtained on the measles, poliomyelitis, and diphtheria-tetanus-pertussis (DTP) immunization status of specified age groups. The data were collected by the Bureau through a supplemental questionnaire attached to their monthly Current Population Survey which regularly obtains information from 37,500 randomly selected households in the United States.

The trends for the immunization levels of preschool children (1-4 years of age) against measles, polio, and DTP are shown in Figures 2-4 and Tables 3-5. While DTP immunization levels remained relatively constant in 1970, those for polio and measles declined. Polio immunization levels have been decreasing steadily since 1964. Those for measles, which had been increasing since licensure of the vaccine in 1963, declined sharply in 1970.

As one part of the national survey, information was obtained regarding the immunization status of preschool children in central city poverty areas (population ≥250,000). These data indicate a significantly lower immunity level in preschool children in the poverty areas than in the nation as a whole (Table 6).

*(Reported by the Field Services Branch, Epidemiology Program, and the Immunization Branch, State and Community Services Division, CDC.)*

**Figure 2**
**HISTORY OF MEASLES VACCINE, HISTORY OF MEASLES INFECTION, AND HISTORY OF MEASLES VACCINE AND/OR INFECTION, 1-4 YEAR AGE GROUP, UNITED STATES, 1964–1970**

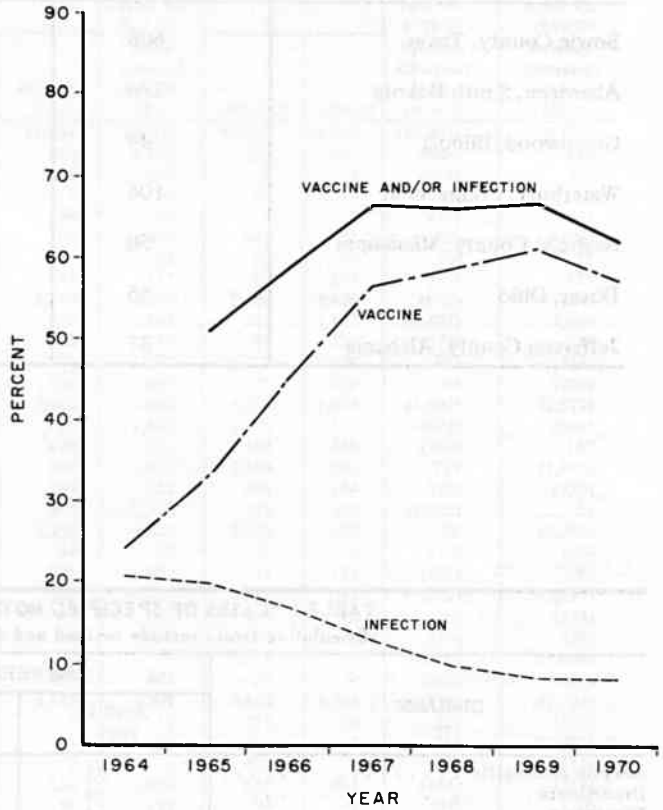



**Figure 3**
**POLIO IMMUNIZATION, 1-4 YEAR AGE GROUP UNITED STATES, 1959–1970**

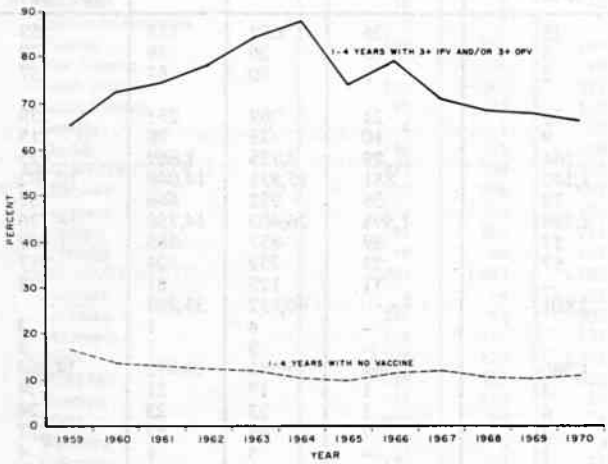



**Table 3**
**PERCENT OF POPULATION, 1-4 YEARS OF AGE, WITH MEASLES VACCINE, MEASLES INFECTION, MEASLES VACCINE AND/OR INFECTION UNITED STATES, 1964-1970**

| | 1964 | 1965 | 1966 | 1967 | 1968 | 1969 | 1970 |
|---|---|---|---|---|---|---|---|
| Vaccine | 24.0 | 33.2 | 45.5 | 56.4 | 58.8 | 61.4 | 57.2 |
| Infection | 20.5 | 19.7 | 16.7 | 12.8 | 9.7 | 8.3 | 8.1 |
| Vaccine and/or Infection | – | 51.0 | 59.0 | 66.2 | 66.0 | 66.9 | 62.3 |

**Table 4**
**PERCENT OF POPULATION, 1-4 YEARS OF AGE, RECEIVING SPECIFIED DOSES OF POLIO VACCINE UNITED STATES, 1959-1970**

| | 1959 | 1960 | 1961 | 1962 | 1963 | 1964 | 1965 | 1966 | 1967 | 1968 | 1969 | 1970 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3+ OPV and/or 3+ IPV | 65.0 | 72.2 | 74.3 | 78.4 | 84.1 | 87.6 | 73.9 | 78.9 | 70.9 | 68.3 | 67.7 | 65.9 |
| No Doses | 16.2 | 13.4 | 12.9 | 12.3 | 11.9 | 10.2 | 9.9 | 11.3 | 11.7 | 10.5 | 10.2 | 10.8 |

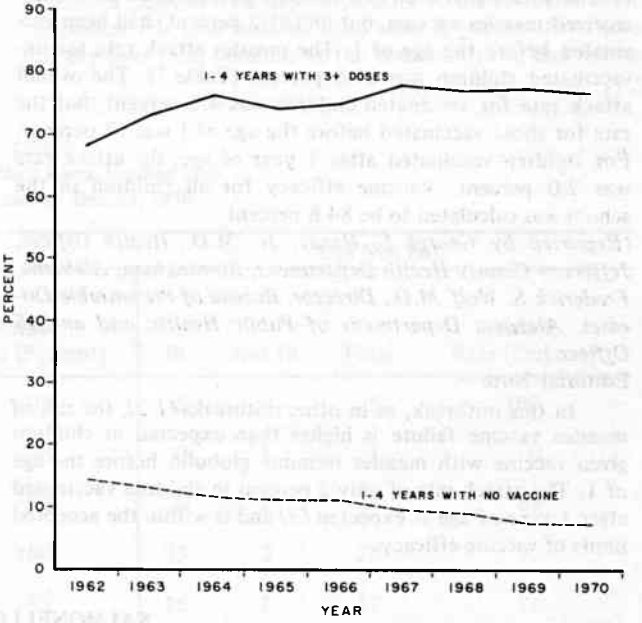
**Table 5**
**PERCENT OF POPULATION, 1-4 YEARS OF AGE, RECEIVING SPECIFIED DOSES OF DIPHTHERIA-TETANUS-PERTUSSIS VACCINE UNITED STATES, 1962-1970**

| | 1962 | 1963 | 1964 | 1965 | 1966 | 1967 | 1968 | 1969 | 1970 |
|---|---|---|---|---|---|---|---|---|---|
| 3+ Doses | 67.8 | 72.9 | 76.0 | 73.9 | 74.5 | 77.9 | 76.5 | 77.4 | 76.1 |
| No Doses | 14.1 | 12.7 | 11.4 | 10.9 | 10.8 | 9.3 | 8.6 | 7.2 | 7.0 |

**Table 6**
**PERCENT OF POPULATION, 1-4 YEARS OF AGE, IN POVERTY AREAS WITHIN CENTRAL CITIES ≥250,000 RECEIVING SPECIFIED VACCINES UNITED STATES, 1969-1970**

| VACCINE | 1969 | 1970 |
|---|---|---|
| Measles | 46.1 | 41.1 |
| Polio (3+OPV and/or 3+IPV) | 55.1 | 50.9 |
| DTP (3+ doses) | 65.1 | 55.8 |

**Figure 4**
**DIPHTHERIA-TETANUS-PERTUSSIS IMMUNIZATIONS, 1-4 YEAR AGE GROUP UNITED STATES, 1962–1970**




**Editorial Note**

These declining levels of immunization against poliomyelitis, measles, and diphtheria-tetanus-pertussis represent national averages. There are undoubtedly pockets of susceptible persons with even lower immunization levels. The recent rise in measles incidence in the United States is an indication of this declining immunity. There is also a threat of epidemic poliomyelitis to the central city areas unless vigorous vaccination efforts are carried out.

**Reference**

1. Center for Disease Control: United States Immunization Survey – 1970. in press

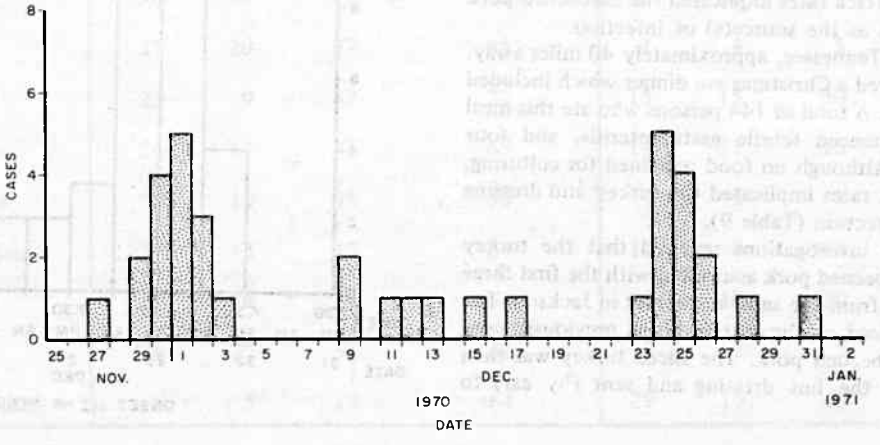
## EPIDEMIOLOGIC NOTES AND REPORTS
## MEASLES – Alabama

Between Nov. 27 and Dec. 31, 1970, 37 cases of measles (rubeola) occurred in an elementary school (enrollment, 707 students) in a suburb of Birmingham, Alabama. The cases occurred in three waves, with peaks 12 days apart (Figure 5).

Twenty-five of the 37 children had previously received live, attenuated measles-virus vaccine. Fifteen, however, had been inoculated before the age of 1, and 14 of these had also received measles immune globulin at the time of vaccination.

*(Continued on page 116)*

**Figure 5**
**MEASLES CASES, BY DATE OF ONSET, JEFFERSON COUNTY, ALABAMA, NOV. 25, 1970–JAN. 2, 1971**



## MEASLES – Alabama – *(Continued from page 115)*

An immunization survey of the school showed that 37 (6.1 percent) of the 605 children interviewed were susceptible to measles. A total of 505 (83.4 percent) had previously received measles vaccine, but 68 (11.2 percent) had been vaccinated before the age of 1. The measles attack rate for unvaccinated children was 27.8 percent (Table 7). The overall attack rate for vaccinated children was 4.2 percent, but the rate for those vaccinated before the age of 1 was 18 percent. For children vaccinated after 1 year of age, the attack rate was 2.0 percent. Vaccine efficacy for all children in the school was calculated to be 84.8 percent.

*(Reported by George E. Hardy, Jr., M.D., Health Officer, Jefferson County Health Department, Birmingham, Alabama; Frederick S. Wolf, M.D., Director, Bureau of Preventable Diseases, Alabama Department of Public Health; and an EIS Officer.)*

**Editorial Note**

In this outbreak, as in other outbreaks *(1,2)*, the risk of measles vaccine failure is higher than expected in children given vaccine with measles immune globulin before the age of 1. The attack rate of only 2 percent in children vaccinated after 1 year of age is expected *(3)* and is within the accepted limits of vaccine efficacy.

**Table 7**
**Measles Attack Rates, by Immunization Status, in an Elementary School Jefferson County, Alabama November and December 1970**

| Immunization Status | Number of Children | Number of Cases | Attack Rate (Percent) |
|---|---|---|---|
| Unvaccinated | 43 | 12 | 27.8 |
| Vaccinated | 590 | 25 | 4.2 |
| Total | 633 | 37 | 5.8 |

**References**

1. Baratta R et al.: Measles (rubeola) in previously immunized children. Ped 46:397-402, 1970
2. Krugman S: Present status of measles and rubella immunization in the United States: a medical progress report. J Pediat 78:1-16, 1971
3. Katz SL et al.: Studies on an attenuated measles-virus vaccine: VIII. General summary and evaluation of the results of vaccination. New Eng J Med 263:180-184, 1960

## SALMONELLOSIS – Tennessee

On Dec. 22, 1970, 42 persons in Jackson, Tennessee, attended a local hunting club supper. Approximately 24 hours later, 40 of them experienced symptoms of febrile gastroenteritis (Figure 6). The illness was characterized by fever (98 percent), diarrhea (98 percent), cramps (98 percent), nausea (92 percent), and vomiting (70 percent). Four persons were hospitalized. Food specific attack rates implicated the barbecued pork (Table 8), and *Salmonella typhimurium* was isolated from leftover barbecue.

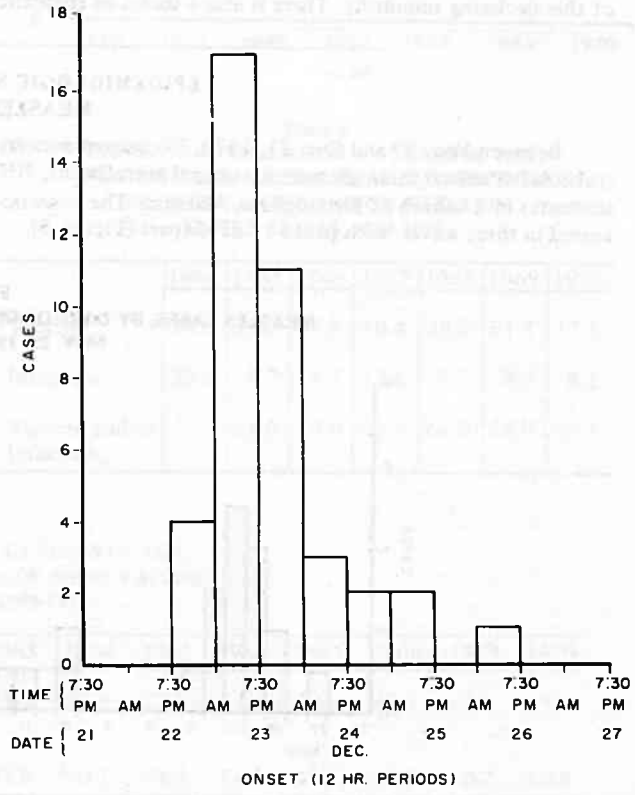
On December 24, 11 of 12 employees of a Jackson department store became ill with febrile gastroenteritis after a lunch consisting of barbecued pork, potato salad, cole slaw, and baked beans. Although no food remained, everyone who ate barbecue became ill, including one person who reported eating only barbecue.

Twelve of 17 persons attending another luncheon on December 24 experienced febrile gastroenteritis approximately 24 hours later (Figure 7). No food was leftover; however, food specific attack rates implicated the barbecued pork and/or baked beans as the source(s) of infection.

In Middleton, Tennessee, approximately 40 miles away, 165 people were served a Christmas eve dinner which included turkey and dressing. A total of 144 persons who ate this meal subsequently experienced febrile gastroenteritis, and four were hospitalized. Although no food remained for culturing, food specific attack rates implicated the turkey and dressing as the vehicles of infection (Table 9).

Epidemiologic investigations revealed that the turkey dinner and the barbecued pork associated with the first three outbreaks all came from the same restaurant in Jackson. The turkey had been sliced on the cutting board previously used to prepare the barbecued pork. The sliced turkey was then placed on top of the hot dressing and sent (by car) to Middleton.

**Figure 6**
**Cases of Gastroenteritis, by Onset, Following Evening Meal Jackson, Tennessee – Dec. 22, 1970**



A survey of the local Jackson hospital on December 28 showed that 25 persons had been hospitalized in the preceding week with febrile gastroenteritis. All of these patients had eaten barbecue from the implicated restaurant approximately 24 hours prior to the onset of their illnesses. The first person known to have been ill had eaten barbecued pork at this restaurant on December 21 and had become ill with salmonellosis the following morning. Approximately 30 persons were hospitalized in all; there were no deaths.

*S. typhi-murium* was isolated from stool specimens of persons in each outbreak and from stool specimens of the hospitalized persons who had eaten only at the restaurant. This organism was also isolated from stool specimens from three of the four food handlers at the restaurant; two had become

*(Continued on page 122)*

**Table 8**
**Food Specific Attack Rates, Hunting Club**
**Jackson, Tennessee—Dec. 22, 1970**

| | Ate | | | | Did Not Eat | | | |
|---|---|---|---|---|---|---|---|---|
| Food | Ill | Not Ill | Total | Attack Rate (Percent) | Ill | Not Ill | Total | Attack Rate (Percent) |
| Baked Beans | 35 | 2 | 37 | 95 | 5 | 0 | 5 | 100 |
| Barbecued Pork | 40 | 1 | 41 | 98 | 0 | 1 | 1 | 0 |
| Light Bread | 32 | 1 | 33 | 97 | 8 | 1 | 9 | 89 |
| Pound Cake | 17 | 0 | 17 | 100 | 23 | 2 | 25 | 92 |
| Peach Halves | 24 | 1 | 25 | 92 | 16 | 1 | 17 | 94 |
| Chocolate Cake | 21 | 0 | 21 | 100 | 19 | 2 | 21 | 90 |
| Potato Salad | 30 | 1 | 31 | 97 | 10 | 1 | 11 | 91 |
| Slaw | 29 | 1 | 30 | 97 | 11 | 1 | 12 | 92 |
| Pecan Pie | 2 | 0 | 2 | 100 | 38 | 2 | 40 | 95 |

**Table 9**
**Food Specific Attack Rates**
**Middleton, Tennessee—Dec. 24, 1970**

| | Ate | | | | Did Not Eat | | | |
|---|---|---|---|---|---|---|---|---|
| Food | Ill | Not Ill | Total | Attack Rate (Percent) | Ill | Not Ill | Total | Attack Rate (Percent) |
| Baked Ham | 21 | 14 | 35 | 60 | 16 | 10 | 26 | 62 |
| Turkey | 36 | 11 | 47 | 76 | 2 | 13 | 15 | 13 |
| Dressing | 37 | 20 | 57 | 65 | 1 | 4 | 5 | 20 |
| Gravy | 23 | 9 | 32 | 72 | 15 | 15 | 30 | 50 |
| Green Beans | 24 | 13 | 37 | 65 | 14 | 11 | 25 | 56 |
| Potato Salad | 34 | 18 | 52 | 66 | 4 | 5 | 9 | 44 |
| Cranberry Sauce | 27 | 15 | 42 | 64 | 10 | 8 | 18 | 56 |
| Pickles | 19 | 14 | 33 | 58 | 20 | 10 | 30 | 67 |
| Rolls | 36 | 22 | 58 | 62 | 2 | 3 | 5 | 40 |
| Banana Pudding | 9 | 5 | 14 | 64 | 29 | 19 | 48 | 60 |

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED

APRIL 3, 1971 AND APRIL 4, 1970 (13th WEEK)

| AREA | ASEPTIC MENINGITIS | BRUCELLOSIS | DIPHTHERIA | ENCEPHALITIS Primary including unsp. cases | | ENCEPHALITIS Post Infectious | HEPATITIS Serum | HEPATITIS Infectious | | MALARIA | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1971 | 1971 | 1971 | 1971 | 1970 | 1971 | 1971 | 1971 | 1970 | 1971 | Cum. 1971 |
| UNITED STATES | 33 | 4 | 4 | 13 | 26 | 2 | 158 | 1,149 | 1,142 | 50 | 952 |
| NEW ENGLAND | – | – | – | 1 | 1 | – | 5 | 79 | 71 | 8 | 36 |
| Maine | – | – | – | – | – | – | – | 6 | 11 | – | 2 |
| New Hampshire* | – | – | – | – | – | – | 1 | 4 | 3 | – | 1 |
| Vermont | – | – | – | – | – | – | – | 6 | 3 | – | 1 |
| Massachusetts | – | – | – | 1 | – | – | 1 | 36 | 32 | 8 | 26 |
| Rhode Island | – | – | – | – | – | – | – | 8 | 12 | – | 3 |
| Connecticut | – | – | – | – | 1 | – | 3 | 19 | 10 | – | 3 |
| MIDDLE ATLANTIC | 3 | – | – | – | 3 | – | 63 | 250 | 233 | 10 | 103 |
| New York City | – | – | – | – | – | – | 17 | 49 | 87 | – | 10 |
| New York, Up-State | 1 | – | – | – | – | – | 11 | 26 | 38 | 2 | 23 |
| New Jersey | 1 | – | – | – | 2 | – | 11 | 81 | 43 | 7 | 48 |
| Pennsylvania | 1 | – | – | – | 1 | – | 24 | 94 | 65 | 1 | 22 |
| EAST NORTH CENTRAL | 4 | 2 | – | 5 | 4 | 1 | 15 | 210 | 215 | 3 | 41 |
| Ohio | – | – | – | 1 | – | – | 2 | 38 | 75 | 1 | 10 |
| Indiana | – | – | – | – | – | – | – | 14 | 6 | – | 2 |
| Illinois | 2 | – | – | 2 | 2 | 1 | 1 | 36 | 39 | 1 | 10 |
| Michigan | 2 | 2 | – | 2 | – | – | 12 | 111 | 83 | 1 | 12 |
| Wisconsin | – | – | – | – | 2 | – | – | 11 | 12 | – | 7 |
| WEST NORTH CENTRAL | 2 | – | – | 1 | 1 | – | 3 | 43 | 47 | 2 | 74 |
| Minnesota | – | – | – | 1 | 1 | – | 1 | 6 | 8 | – | 5 |
| Iowa | – | – | – | – | – | – | – | 4 | 8 | – | 8 |
| Missouri | – | – | – | – | – | – | 2 | 20 | 18 | – | 17 |
| North Dakota | 1 | – | – | – | – | – | – | 1 | 1 | – | – |
| South Dakota | 1 | – | – | – | – | – | – | – | – | – | – |
| Nebraska | – | – | – | – | – | – | – | – | 2 | – | 5 |
| Kansas | – | – | – | – | – | – | – | 12 | 10 | 2 | 39 |
| SOUTH ATLANTIC | 2 | 1 | 1 | 4 | 2 | 1 | 18 | 154 | 130 | 12 | 154 |
| Delaware | – | – | – | – | – | – | – | 2 | 3 | – | – |
| Maryland | – | – | – | 1 | – | – | 2 | 23 | 7 | – | 26 |
| Dist. of Columbia | – | – | – | – | – | – | – | 2 | 1 | – | – |
| Virginia | 1 | 1 | – | 1 | – | – | 1 | 36 | 9 | 1 | 19 |
| West Virginia | – | – | – | – | – | 1 | – | 18 | 11 | – | 6 |
| North Carolina | – | – | – | – | – | – | 5 | 23 | 8 | 6 | 49 |
| South Carolina | – | – | 1 | 2 | 1 | – | – | 6 | 13 | 1 | 8 |
| Georgia | – | – | – | – | – | – | – | 6 | 31 | – | 24 |
| Florida | 1 | – | – | – | 1 | – | 10 | 38 | 47 | 4 | 22 |
| EAST SOUTH CENTRAL | 7 | – | – | – | 3 | – | 3 | 55 | 60 | 2 | 95 |
| Kentucky | 1 | – | – | – | – | – | – | 22 | 21 | – | 80 |
| Tennessee | 2 | – | – | – | 2 | – | 3 | 23 | 24 | – | – |
| Alabama | 2 | – | – | – | – | – | – | 9 | 5 | – | 13 |
| Mississippi | 2 | – | – | – | 1 | – | – | 1 | 10 | 2 | 2 |
| WEST SOUTH CENTRAL | 2 | 1 | 3 | – | 4 | – | 1 | 53 | 69 | – | 189 |
| Arkansas | – | – | – | – | 1 | – | – | – | 3 | – | 5 |
| Louisiana* | – | – | 3 | – | 1 | – | 1 | 11 | 8 | – | 23 |
| Oklahoma* | – | – | – | – | 2 | – | – | 3 | 6 | – | 36 |
| Texas | 2 | 1 | – | – | – | – | – | 39 | 52 | – | 125 |
| MOUNTAIN | 1 | – | – | – | 4 | – | 4 | 67 | 70 | – | 65 |
| Montana | – | – | – | – | 4 | – | – | 3 | 1 | – | 1 |
| Idaho | – | – | – | – | – | – | – | – | 12 | – | 2 |
| Wyoming | – | – | – | – | – | – | – | – | 3 | – | 1 |
| Colorado | – | – | – | – | – | – | 1 | 13 | 35 | – | 46 |
| New Mexico | – | – | – | – | – | – | – | 15 | 10 | – | 5 |
| Arizona* | 1 | – | – | – | – | – | – | 22 | 7 | – | 7 |
| Utah | – | – | – | – | – | – | 3 | 14 | 2 | – | 3 |
| Nevada | – | – | – | – | – | – | – | – | – | – | – |
| PACIFIC | 12 | – | – | 2 | 4 | – | 46 | 238 | 247 | 13 | 195 |
| Washington | 2 | – | – | – | – | – | – | 15 | 16 | – | 1 |
| Oregon | – | – | – | 1 | – | – | 2 | 14 | 18 | – | 6 |
| California | 10 | – | – | 1 | 4 | – | 44 | 204 | 209 | 12 | 165 |
| Alaska* | – | – | – | – | – | – | – | 2 | 2 | 1 | 2 |
| Hawaii* | – | – | – | – | – | – | – | 3 | 2 | – | 21 |
| Puerto Rico* | — | — | — | — | – | — | — | — | 27 | — | 2 |
| Virgin Islands | – | – | – | – | – | – | – | – | – | – | – |

*Delayed reports: Aseptic meningitis : N.H.4(1970), Ariz. 1
Encephalitis, primary: N.H. 2(1970)
Hepatitis, serum: Hawaii 1
Hepatitis infectious: La. delete 1, Alaska 1, Hawaii 1, P.R. 3
Malaria: Okla. 1(1970)

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED

APRIL 3, 1971 AND APRIL 4, 1970 (13th WEEK) - CONTINUED

| AREA | MEASLES (Rubeola) | | | MENINGOCOCCAL INFECTIONS, TOTAL | | | MUMPS | | POLIOMYELITIS | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Cumulative | | | Cumulative | | | Cum. | Total | Paralytic | |
| | 1971 | 1971 | 1970 | 1971 | 1971 | 1970 | 1971 | 1971 | 1971 | 1971 | Cum. 1971 |
| UNITED STATES | 2,803 | 26,403 | 14,726 | 61 | 857 | 885 | 4,201 | 46,552 | - | - | 3 |
| NEW ENGLAND | 135 | 904 | 208 | 2 | 36 | 37 | 258 | 2,914 | - | - | - |
| Maine* | 81 | 489 | 2 | - | 5 | - | 68 | 548 | - | - | - |
| New Hampshire | 15 | 38 | 13 | - | 4 | 3 | 85 | 343 | - | - | - |
| Vermont | 2 | 39 | 1 | - | - | 3 | - | - | - | - | - |
| Massachusetts* | 6 | 183 | 146 | 1 | 14 | 14 | 7 | 718 | - | - | - |
| Rhode Island | - | 22 | 14 | - | 2 | 3 | 51 | 665 | - | - | - |
| Connecticut | 31 | 133 | 32 | 1 | 11 | 14 | 47 | 640 | - | - | - |
| MIDDLE ATLANTIC | 256 | 2,811 | 2,186 | 5 | 109 | 144 | 308 | 3,313 | - | - | - |
| New York City | 170 | 1,722 | 333 | - | 14 | 37 | 68 | 572 | - | - | - |
| New York, Up-State | 9 | 220 | 78 | 2 | 34 | 26 | NN | NN | - | - | - |
| New Jersey* | 42 | 263 | 891 | - | 29 | 51 | 84 | 960 | - | - | - |
| Pennsylvania | 35 | 606 | 884 | 3 | 32 | 30 | 156 | 1,781 | - | - | - |
| EAST NORTH CENTRAL | 568 | 5,219 | 3,216 | 2 | 93 | 108 | 1,732 | 18,847 | - | - | - |
| Ohio | 154 | 1,885 | 1,051 | - | 22 | 49 | 337 | 3,208 | - | - | - |
| Indiana | 114 | 651 | 131 | 2 | 6 | 10 | 224 | 2,671 | - | - | - |
| Illinois | 139 | 1,328 | 1,482 | - | 33 | 25 | 128 | 1,926 | - | - | - |
| Michigan | 61 | 375 | 308 | - | 25 | 20 | 495 | 4,856 | - | - | - |
| Wisconsin | 100 | 980 | 244 | - | 7 | 4 | 548 | 6,186 | - | - | - |
| WEST NORTH CENTRAL | 122 | 2,072 | 1,545 | 9 | 79 | 47 | 409 | 2,774 | - | - | - |
| Minnesota | 1 | 36 | 22 | 2 | 11 | 5 | 55 | 504 | - | - | - |
| Iowa | 46 | 563 | 48 | - | 6 | 4 | 123 | 1,499 | - | - | - |
| Missouri | 51 | 775 | 446 | 4 | 30 | 34 | 211 | 341 | - | - | - |
| North Dakota | 2 | 88 | 129 | - | 2 | 2 | 2 | 169 | - | - | - |
| South Dakota | 13 | 111 | 41 | - | 3 | - | 7 | 131 | - | - | - |
| Nebraska | 5 | 16 | 819 | 1 | 9 | 2 | 11 | 34 | - | - | - |
| Kansas | 4 | 483 | 40 | 2 | 18 | - | - | 96 | - | - | - |
| SOUTH ATLANTIC | 309 | 2,917 | 2,313 | 10 | 125 | 193 | 213 | 3,336 | - | - | 1 |
| Delaware | 1 | 12 | 144 | - | - | 2 | 4 | 62 | - | - | - |
| Maryland | 2 | 49 | 335 | 2 | 17 | 15 | 17 | 311 | - | - | - |
| Dist. of Columbia | - | 4 | 288 | - | 7 | 1 | 1 | 50 | - | - | - |
| Virginia | 44 | 764 | 587 | 2 | 14 | 16 | 33 | 432 | - | - | - |
| West Virginia | 29 | 189 | 95 | - | 2 | 4 | 53 | 995 | - | - | - |
| North Carolina | 132 | 1,000 | 265 | 2 | 20 | 35 | NN | NN | - | - | - |
| South Carolina | 52 | 313 | 200 | - | 11 | 11 | 59 | 427 | - | - | - |
| Georgia | 23 | 126 | 2 | - | 11 | 24 | - | 1 | - | - | 1 |
| Florida | 26 | 460 | 397 | 4 | 43 | 85 | 46 | 1,058 | - | - | - |
| EAST SOUTH CENTRAL | 420 | 3,593 | 206 | 6 | 65 | 56 | 281 | 3,779 | - | - | - |
| Kentucky | 273 | 1,733 | 108 | 1 | 18 | 17 | 111 | 1,408 | - | - | - |
| Tennessee | 20 | 292 | 58 | 1 | 22 | 27 | 162 | 1,827 | - | - | - |
| Alabama | 38 | 676 | 24 | 3 | 15 | 8 | 6 | 478 | - | - | - |
| Mississippi | 89 | 892 | 16 | 1 | 10 | 4 | 2 | 66 | - | - | - |
| WEST SOUTH CENTRAL | 635 | 6,451 | 3,618 | 8 | 80 | 138 | 328 | 3,382 | - | - | 1 |
| Arkansas | 103 | 184 | 18 | 1 | 3 | 14 | 15 | 34 | - | - | - |
| Louisiana | 185 | 895 | 38 | 2 | 25 | 33 | 37 | 59 | - | - | - |
| Oklahoma | 15 | 539 | 117 | - | 6 | 9 | 9 | 111 | - | - | - |
| Texas | 332 | 4,833 | 3,445 | 5 | 46 | 82 | 267 | 3,178 | - | - | 1 |
| MOUNTAIN | 207 | 1,136 | 679 | 1 | 26 | 14 | 116 | 1,875 | - | - | - |
| Montana | 88 | 376 | 13 | - | 1 | - | 15 | 244 | - | - | - |
| Idaho | 24 | 138 | 5 | - | 2 | 3 | 2 | 96 | - | - | - |
| Wyoming | 7 | 27 | - | - | - | 1 | 8 | 96 | - | - | - |
| Colorado | 51 | 269 | 80 | - | 4 | 5 | 16 | 503 | - | - | - |
| New Mexico | 10 | 164 | 79 | - | 2 | - | 24 | 308 | - | - | - |
| Arizona | 12 | 105 | 494 | - | 8 | 3 | 51 | 551 | - | - | - |
| Utah | 14 | 56 | 4 | 1 | 8 | 2 | - | 77 | - | - | - |
| Nevada | 1 | 1 | 4 | - | 1 | - | - | - | - | - | - |
| PACIFIC | 151 | 1,300 | 755 | 18 | 244 | 148 | 556 | 6,332 | - | - | 1 |
| Washington | 8 | 333 | 69 | - | 12 | 18 | 272 | 3,121 | - | - | - |
| Oregon | 22 | 115 | 112 | 1 | 14 | 11 | 32 | 562 | - | - | 1 |
| California | 107 | 812 | 529 | 17 | 216 | 118 | 210 | 2,268 | - | - | - |
| Alaska* | - | 8 | 1 | - | - | - | 3 | 48 | - | - | - |
| Hawaii* | 14 | 32 | 44 | - | 2 | 1 | 39 | 333 | - | - | - |
| Puerto Rico | --- | 61 | 599 | --- | - | 2 | --- | 289 | --- | --- | - |
| Virgin Islands | 1 | 5 | 4 | - | - | 1 | 1 | 2 | - | - | - |

*Delayed reports: Measles: Me. 5, Mass. delete 2, N.J. 1, Hawaii 1
Mumps: Me. 4, Alaska 4, Hawaii 17

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED

APRIL 3, 1971 AND APRIL 4, 1970 (13th WEEK) - CONTINUED

| AREA | RUBELLA | | TETANUS | | TULAREMIA | | TYPHOID FEVER | | TYPHUS FEVER TICK-BORNE (Rky. Mt. Spotted) | | RABIES IN ANIMALS | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1971 | Cum. 1971 | 1971 | Cum. 1971 | 1971 | Cum. 1971 | 1971 | Cum. 1971 | 1971 | Cum. 1971 | 1971 | Cum. 1971 |
| UNITED STATES..... | 1,996 | 15,546 | - | 17 | 1 | 23 | 4 | 63 | 1 | 5 | 112 | 1,075 |
| NEW ENGLAND..... | 76 | 562 | - | - | - | - | - | 2 | - | - | 15 | 90 |
| Maine.*..... | 10 | 124 | - | - | - | - | - | - | - | - | 14 | 84 |
| New Hampshire..... | 1 | 8 | - | - | - | - | - | - | - | - | - | - |
| Vermont..... | 3 | 17 | - | - | - | - | - | - | - | - | 1 | 6 |
| Massachusetts..... | 29 | 278 | - | - | - | - | - | 2 | - | - | - | - |
| Rhode Island..... | 5 | 31 | - | - | - | - | - | - | - | - | - | - |
| Connecticut..... | 28 | 104 | - | - | - | - | - | - | - | - | - | - |
| MIDDLE ATLANTIC..... | 180 | 1,012 | - | 4 | - | - | - | 6 | - | 1 | 3 | 57 |
| New York City..... | 18 | 140 | - | 4 | - | - | - | 3 | - | - | - | - |
| New York, Up-State.. | 12 | 224 | - | - | - | - | - | 2 | - | - | 3 | 56 |
| New Jersey..... | 17 | 148 | - | - | - | - | - | - | - | - | - | - |
| Pennsylvania..... | 133 | 500 | - | - | - | - | - | 1 | - | 1 | - | 1 |
| EAST NORTH CENTRAL.... | 524 | 3,231 | - | 1 | - | 1 | - | 4 | - | - | 9 | 67 |
| Ohio..... | 43 | 405 | - | 1 | - | 1 | - | 3 | - | - | - | 9 |
| Indiana..... | 56 | 619 | - | - | - | - | - | - | - | - | 2 | 6 |
| Illinois..... | 227 | 666 | - | - | - | - | - | - | - | - | 3 | 18 |
| Michigan..... | 140 | 983 | - | - | - | - | - | 1 | - | - | 4 | 18 |
| Wisconsin..... | 58 | 558 | - | - | - | - | - | - | - | - | - | 16 |
| WEST NORTH CENTRAL.... | 331 | 1,117 | - | - | - | 2 | - | - | - | - | 13 | 233 |
| Minnesota..... | 77 | 166 | - | - | - | - | - | - | - | - | 2 | 50 |
| Iowa..... | 94 | 322 | - | - | - | - | - | - | - | - | - | 68 |
| Missouri..... | 154 | 413 | - | - | - | 2 | - | - | - | - | 4 | 46 |
| North Dakota..... | 2 | 30 | - | - | - | - | - | - | - | - | 7 | 51 |
| South Dakota..... | 2 | 23 | - | - | - | - | - | - | - | - | - | - |
| Nebraska..... | 1 | 28 | - | - | - | - | - | - | - | - | - | - |
| Kansas..... | 1 | 135 | - | - | - | - | - | - | - | - | - | 18 |
| SOUTH ATLANTIC..... | 79 | 1,058 | - | 7 | - | 12 | - | 14 | - | 1 | 19 | 128 |
| Delaware..... | - | 10 | - | - | - | - | - | 1 | - | - | - | - |
| Maryland..... | 16 | 64 | - | - | - | 3 | - | 3 | - | - | - | - |
| Dist. of Columbia... | 1 | 2 | - | - | - | - | - | - | - | - | - | - |
| Virginia..... | 4 | 92 | - | - | - | 5 | - | 1 | - | - | 4 | 36 |
| West Virginia.*..... | 17 | 154 | - | - | - | - | - | 1 | - | - | 8 | 57 |
| North Carolina..... | 1 | 14 | - | - | - | 4 | - | 2 | - | 1 | - | - |
| South Carolina..... | 33 | 215 | - | - | - | - | - | - | - | - | - | - |
| Georgia..... | - | - | - | 2 | - | - | - | 1 | - | - | 4 | 18 |
| Florida..... | 7 | 507 | - | 5 | - | - | - | 5 | - | - | 3 | 17 |
| EAST SOUTH CENTRAL.... | 78 | 1,329 | - | 3 | - | 6 | - | 6 | 1 | 2 | 8 | 128 |
| Kentucky..... | 27 | 593 | - | - | - | 2 | - | 2 | - | - | 4 | 72 |
| Tennessee..... | 43 | 616 | - | 1 | - | 2 | - | 2 | 1 | 1 | 4 | 33 |
| Alabama..... | 8 | 75 | - | 1 | - | 2 | - | 2 | - | - | - | 23 |
| Mississippi..... | - | 45 | - | 1 | - | - | - | - | - | 1 | - | - |
| WEST SOUTH CENTRAL.... | 257 | 2,451 | - | - | - | - | - | 5 | - | 1 | 39 | 257 |
| Arkansas.*..... | 19 | 243 | - | - | - | - | - | - | - | - | 3 | 23 |
| Louisiana..... | 42 | 94 | - | - | - | - | - | 3 | - | - | 1 | 9 |
| Oklahoma.*..... | - | 30 | - | - | - | - | - | - | - | 1 | 18 | 135 |
| Texas..... | 196 | 2,084 | - | - | - | - | - | 2 | - | - | 17 | 90 |
| MOUNTAIN..... | 41 | 1,043 | - | - | 1 | 2 | - | 2 | - | - | 2 | 3 |
| Montana..... | 15 | 85 | - | - | - | 1 | - | - | - | - | - | - |
| Idaho..... | 3 | 25 | - | - | - | - | - | - | - | - | - | - |
| Wyoming..... | - | 552 | - | - | - | - | - | - | - | - | - | - |
| Colorado..... | 4 | 121 | - | - | - | - | - | - | - | - | - | - |
| New Mexico..... | 13 | 118 | - | - | - | - | - | - | - | - | 2 | 2 |
| Arizona..... | 4 | 118 | - | - | - | - | - | 2 | - | - | - | 1 |
| Utah..... | 1 | 23 | - | - | 1 | 1 | - | - | - | - | - | - |
| Nevada..... | 1 | 1 | - | - | - | - | - | - | - | - | - | - |
| PACIFIC..... | 430 | 3,743 | - | 2 | - | - | 4 | 24 | - | - | 4 | 112 |
| Washington..... | 27 | 637 | - | - | - | - | - | - | - | - | - | - |
| Oregon..... | 20 | 271 | - | - | - | - | - | - | - | - | - | - |
| California..... | 378 | 2,731 | - | 2 | - | - | 4 | 24 | - | - | 4 | 86 |
| Alaska.*..... | 1 | 30 | - | - | - | - | - | - | - | - | - | 26 |
| Hawaii.*..... | 4 | 74 | - | - | - | - | - | - | - | - | - | - |
| Puerto Rico..... | --- | 1 | --- | 1 | --- | - | --- | 1 | --- | - | --- | 16 |
| Virgin Islands..... | - | - | - | - | - | - | - | - | - | - | - | - |

*Delayed reports: Rubella: Me. 3, Alaska 4, Hawaii 1
Tularemia: Okla. 1 (1970)
Rabies in animals: W.Va. delete 1, Ark. 3

Week No. 13

## TABLE IV. DEATHS IN 122 UNITED STATES CITIES FOR WEEK ENDED APRIL 3, 1971

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

| Area | All Causes | | Pneumonia and Influenza | Under 1 year |
|---|---|---|---|---|
| | All Ages | 65 years and over | All Ages | All Causes |
| NEW ENGLAND: | 713 | 451 | 47 | 30 |
| Boston, Mass. | 216 | 119 | 23 | 13 |
| Bridgeport, Conn. | 56 | 32 | 3 | 2 |
| Cambridge, Mass. | 25 | 20 | 3 | - |
| Fall River, Mass. | 25 | 22 | - | 1 |
| Hartford, Conn. | 62 | 38 | 1 | 3 |
| Lowell, Mass. | 34 | 26 | 3 | 1 |
| Lynn, Mass. | 17 | 13 | - | - |
| New Bedford, Mass. | 26 | 24 | 1 | - |
| New Haven, Conn. | 48 | 20 | - | 1 |
| Providence, R. I. | 72 | 43 | 8 | 5 |
| Somerville, Mass. | 9 | 8 | - | - |
| Springfield, Mass. | 41 | 29 | 1 | 2 |
| Waterbury, Conn. | 33 | 22 | - | 1 |
| Worcester, Mass. | 49 | 35 | 4 | 1 |
| MIDDLE ATLANTIC: | 3,301 | 2,016 | 176 | 103 |
| Albany, N. Y. | 46 | 27 | 3 | - |
| Allentown, Pa. | 47 | 31 | 8 | - |
| Buffalo, N. Y. | 132 | 80 | 4 | 6 |
| Camden, N. J. | 44 | 24 | 1 | 4 |
| Elizabeth, N. J. | 45 | 26 | 1 | 4 |
| Erie, Pa. | 27 | 12 | 1 | 2 |
| Jersey City, N. J. | 60 | 43 | 4 | 1 |
| Newark, N. J. | 79 | 38 | 4 | 4 |
| New York City, N. Y. | 1,728 | 1,076 | 80 | 52 |
| Paterson, N. J. | 45 | 26 | 3 | - |
| Philadelphia, Pa. | 389 | 229 | 9 | 9 |
| Pittsburgh, Pa. | 197 | 107 | 17 | 8 |
| Reading, Pa. | 63 | 43 | 2 | 2 |
| Rochester, N. Y. | 113 | 72 | 18 | 5 |
| Schenectady, N. Y. | 32 | 20 | 5 | - |
| Scranton, Pa. | 52 | 31 | 4 | 1 |
| Syracuse, N. Y. | 85 | 56 | 3 | 5 |
| Trenton, N. J. | 58 | 35 | - | - |
| Utica, N. Y. | 27 | 19 | 7 | - |
| Yonkers, N. Y. | 32 | 21 | 2 | - |
| EAST NORTH CENTRAL: | 2,529 | 1,450 | 116 | 136 |
| Akron, Ohio | 54 | 31 | - | 1 |
| Canton, Ohio | 38 | 27 | 1 | 1 |
| Chicago, Ill. | 738 | 406 | 31 | 45 |
| Cincinnati, Ohio | 151 | 82 | 6 | 2 |
| Cleveland, Ohio | 169 | 93 | 4 | 5 |
| Columbus, Ohio | 91 | 43 | 1 | 9 |
| Dayton, Ohio | 94 | 58 | 2 | 3 |
| Detroit, Mich. | 318 | 185 | 11 | 15 |
| Evansville, Ind. | 38 | 28 | 3 | 2 |
| Flint, Mich. | 55 | 27 | 3 | 6 |
| Fort Wayne, Ind. | 39 | 23 | 2 | 2 |
| Gary, Ind. | 36 | 22 | 2 | 1 |
| Grand Rapids, Mich. | 45 | 29 | 2 | 3 |
| Indianapolis, Ind. | 164 | 97 | 7 | 7 |
| Madison, Wis. | 48 | 27 | 12 | 5 |
| Milwaukee, Wis. | 146 | 79 | 7 | 12 |
| Peoria, Ill. | 43 | 23 | 5 | 4 |
| Rockford, Ill. | 51 | 34 | 6 | 3 |
| South Bend, Ind. | 32 | 16 | 3 | 2 |
| Toledo, Ohio | 110 | 77 | 6 | 3 |
| Youngstown, Ohio | 69 | 43 | 2 | 5 |
| WEST NORTH CENTRAL: | 896 | 545 | 31 | 52 |
| Des Moines, Iowa | 54 | 35 | 2 | 3 |
| Duluth, Minn. | 32 | 22 | 4 | 1 |
| Kansas City, Kans. | 34 | 19 | 2 | 5 |
| Kansas City, Mo. | 143 | 83 | 2 | 12 |
| Lincoln, Nebr. | 27 | 18 | 3 | 1 |
| Minneapolis, Minn. | 115 | 66 | 1 | 5 |
| Omaha, Nebr. | 74 | 49 | - | 6 |
| St. Louis, Mo. | 262 | 156 | 8 | 12 |
| St. Paul, Minn. | 91 | 59 | - | 5 |
| Wichita, Kans. | 64 | 38 | 9 | 2 |
| Las Vegas, Nev.* | 37 | 17 | 4 | - |

| Area | All Causes | | Pneumonia and Influenza | Under 1 year |
|---|---|---|---|---|
| | All Ages | 65 years and over | All Ages | All Causes |
| SOUTH ATLANTIC: | 1,238 | 662 | 51 | 78 |
| Atlanta, Ga. | 132 | 62 | 5 | 8 |
| Baltimore, Md. | 218 | 117 | 4 | 9 |
| Charlotte, N. C. | 60 | 35 | - | 2 |
| Jacksonville, Fla. | 90 | 48 | 2 | 2 |
| Miami, Fla. | 115 | 68 | - | 3 |
| Norfolk, Va. | 55 | 21 | 10 | 2 |
| Richmond, Va. | 78 | 48 | 6 | 3 |
| Savannah, Ga. | 36 | 15 | 1 | 4 |
| St. Petersburg, Fla. | 103 | 82 | 9 | - |
| Tampa, Fla. | 76 | 45 | 6 | 2 |
| Washington, D. C. | 231 | 97 | 7 | 41 |
| Wilmington, Del. | 44 | 24 | 1 | 2 |
| EAST SOUTH CENTRAL: | 637 | 347 | 31 | 33 |
| Birmingham, Ala. | 85 | 45 | 3 | 4 |
| Chattanooga, Tenn. | 58 | 33 | 6 | 5 |
| Knoxville, Tenn. | 43 | 31 | - | - |
| Louisville, Ky. | 114 | 62 | 7 | 12 |
| Memphis, Tenn. | 139 | 77 | 4 | 7 |
| Mobile, Ala. | 53 | 20 | 1 | 1 |
| Montgomery, Ala. | 33 | 20 | 4 | 1 |
| Nashville, Tenn. | 112 | 59 | 6 | 3 |
| WEST SOUTH CENTRAL: | 1,232 | 619 | 36 | 73 |
| Austin, Tex. | 49 | 28 | 5 | 1 |
| Baton Rouge, La. | 47 | 23 | - | 7 |
| Corpus Christi, Tex. | 46 | 14 | - | 2 |
| Dallas, Tex. | 162 | 82 | 5 | 8 |
| El Paso, Tex. | 42 | 20 | 3 | 5 |
| Fort Worth, Tex. | 93 | 55 | 3 | 5 |
| Houston, Tex. | 255 | 109 | 5 | 16 |
| Little Rock, Ark. | 65 | 33 | 3 | 4 |
| New Orleans, La. | 149 | 70 | 4 | 8 |
| Oklahoma City, Okla. | 88 | 54 | 2 | 4 |
| San Antonio, Tex. | 112 | 57 | 2 | 10 |
| Shreveport, La. | 57 | 37 | 1 | 1 |
| Tulsa, Okla. | 67 | 37 | 3 | 2 |
| MOUNTAIN: | 486 | 295 | 22 | 20 |
| Albuquerque, N. Mex. | 47 | 27 | 4 | 3 |
| Colorado Springs, Colo. | 23 | 15 | 2 | 2 |
| Denver, Colo. | 124 | 64 | 5 | 7 |
| Ogden, Utah | 22 | 16 | 3 | - |
| Phoenix, Ariz. | 127 | 82 | - | 4 |
| Pueblo, Colo. | 14 | 9 | 1 | - |
| Salt Lake City, Utah | 50 | 35 | 3 | 3 |
| Tucson, Ariz. | 79 | 47 | 4 | 1 |
| PACIFIC: | 1,455 | 897 | 64 | 56 |
| Berkeley, Calif. | 24 | 16 | 1 | - |
| Fresno, Calif. | 53 | 23 | 1 | 8 |
| Glendale, Calif. | 19 | 14 | 1 | - |
| Honolulu, Hawaii | 59 | 35 | 6 | 3 |
| Long Beach, Calif. | 104 | 69 | 3 | 2 |
| Los Angeles, Calif. | 305 | 196 | 18 | 10 |
| Oakland, Calif. | 88 | 54 | 3 | 4 |
| Pasadena, Calif. | 41 | 29 | 6 | - |
| Portland, Oreg. | 132 | 85 | 4 | 7 |
| Sacramento, Calif. | 63 | 38 | 1 | - |
| San Diego, Calif. | 86 | 53 | - | 1 |
| San Francisco, Calif. | 185 | 105 | 9 | 6 |
| San Jose, Calif. | 51 | 31 | 1 | 3 |
| Seattle, Wash. | 155 | 90 | 9 | 9 |
| Spokane, Wash. | 51 | 35 | 1 | 2 |
| Tacoma, Wash. | 39 | 24 | - | 1 |
| Total | 12,487 | 7,282 | 574 | 581 |
| Expected Number | 13,195 | 7,709 | 516 | 523 |
| Cumulative Total (includes reported corrections for previous weeks) | 180,127 | 105,441 | 7,704 | 8,043 |

*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.

Delayed Report for week ended March 27, 1971

SALMONELLOSIS – *(Continued from page 117)*

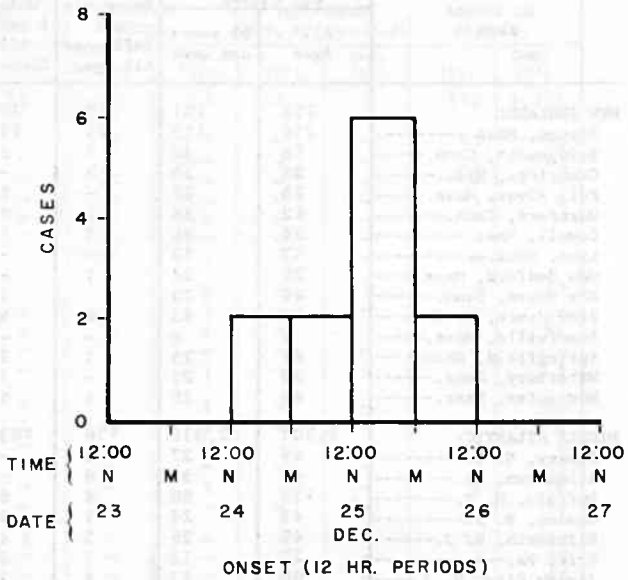
ill on December 22 and 24, the other remained asymptomatic. Environmental swabs obtained on December 30 after the restaurant had been cleaned were negative for salmonellae, as were remaining samples of barbecue sauce and raw turkey. Samples of three remaining raw pork shoulders, however, were cultured and yielded *S. typhi-murium.*

All of the isolates of salmonella were similar in that they were not lysed by available phages. In addition, the antibiograms of *S. typhi-murium* isolated from the raw pork shoulders, barbecued pork, the three food handlers, persons ill in each outbreak, and persons who ate only at the restaurant were all resistant to streptomycin and tetracycline, but were sensitive to 10 other antimicrobials tested.

Epidemiologic data suggested that the cutting board may have been contaminated directly or indirectly by the raw pork as early as December 21. The cutting board apparently remained contaminated through December 24, and it probably served as the source of salmonellae for the barbecued pork and turkey. The method of handling and storing the cooked meat may have permitted survival and dissemination of the salmonellae.

*(Reported by A. J. Mueller, M.D., Director, R. A. Rhodes, Chief Sanitarian, Jackson-Madison County Health Department; B. D. Hale, M.D., Director, Hardeman County Health Department; Mattie Pearl Henderson, M.S., Director, Jackson Branch Laboratory, Division of Laboratories, William H. Armes, M.D., Deputy Commissioner of Health and State Epidemiologist, Tennessee Department of Public Health; the Laboratory Division, CDC; and an EIS Officer.)*

**Figure 7**
**Cases of Gastroenteritis, by Onset, Following Noon Meal**
**Jackson, Tennessee – Dec. 24, 1970**




**Errata, Vol. 20, No. 12, p. 103**

In the article "Influenza – United States," under the heading, Pacific, correct the first paragraph, third sentence to read "California has had 49 Influenza A **seroconversions** . . . ."

In the article "Serogroup A Meningococcal Meningitis – Westminster, Massachusetts," correct the first sentence to read ". . .a 3-week-old infant. . . ."

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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.

Address all correspondence to

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