# polomyelitis Suvelllance rppori 

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U. S. DEPARTMENT OF

HEALTH, EDUCATION, AND WELFARE PUBLIC HEALTH SERVICE COMMUNICABLE DISEASE CENTER

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## SPECIAL NOTE

This report is intended for the information and administrative use of those involved in the investigation and control of poliomyelitis and polio-like diseases. It presents a summary of provisional information reported to CDC from State Health Departments, the National Office of Vital Statistics, Virology Laboratories, Epidemic Intelligence Service Officers, and other pertinent sources. Since much of the information is preliminary in nature, confirmation and final interpretation should be determined in consultation with the original investigators prior to any further use of the material.

There was a sharp decrease in total cases of poliomyelitis reported to NOVS this week with a concurrent drop of paralytic cases of lesser proportions. This is in contrast to the substantial increase seen last week in both total and paralytic cases. The total for the current week was 154 cases of which 105 were paralytic. For the previous week, the total was 217, including 118 paralytic.

A cluster of cases have had onset recently in Cumberland (Portland) and Androscoggin Counties, Maine. In Wyoming, a concentration of cases has been noted in the Gas Hills Uranium Mining District between Casper and Riverton. No other areas have had any concentration of recent origin.

Narrative reports are included from Maine, New Jersey, Indiana, Wyoming and Puerto Rico.

1. CURREIVT POLIOMYELITIS MORBIDITY TRENDS
(Note: The preliminary figures of 210 total cases, 116 paralytic, reported to NOVS last week have been revised to 217 total cases, 118 paralytic - SEE TABLE I.)

A total of 154 cases, 105 paralytic, was reported to the National Office of Vital Statistics during the 36th week of 1960, ending September 10. This represents a decrease in both total and paralytic poliomyelitis compared to figures for the previous week. During the corresponding week in 1959, a total of 508 cases, 273 paralytic, was reported to the NOVS. The 1960 cumulative total now stands at 1,753 cases of which 1,182 are paralytic.

As can be seen in Figure $I$, there was a sharp drop in total cases with only a slight decrease in paralytic cases. This may suggest that reporting during last week reached a peak for total cases which will precede a later peak week for paralytic cases. This pattern was seen in 1959. The peak week for the past five years is as follows:

Peak Week as Reported to NOVS for Past Five Years

|  | $\frac{1955}{2}$ |  | 1956 |  | 1957 |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Paralytic | 34 | 33 | 39 | 38 |  |
| Total Cases | 34 | 37 | 34 | 38 | 37 |
|  |  | 34 | 359 |  |  |

Although there was a substantial decline in cases this week, slight increases were reported in four of the nine geographic regions. Maine, New Jersey and Wyoming were responsible for the rise in cases in their respective regions while the West North Central region had scattered small increases.
A. Maine

Dr. Dean H. Fisher, Director, Communicable Disease Control, Maine Department of Health and Welfare, reports that the 12 paralytic cases of poliomyelitis reported over the past 3 weeks have had onset in Cumberland and Androscoggin Counties since the beginning of August.

The 7 cases in Cumberland County are centered in Portland and vicinity and 3 of 5 cases in Androscoggin County are from the small town of Durham. These cases, the majority of which are unvaccinated, are presented below:

| City | Age | Race | Sex | Onset | Vaccination Status | Comments |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Cumberland County |  |  |  |  |
| Portland | 39 | W | M | 8-5 | OV |  |
| Westbrook | 4 | W | F | 8-21 | 2 V |  |
| Portland | 4 | W | M | 8-28 | OV |  |
| South Portland | 7 | W | M | 9-3 | OV | Bulbo-Spinal |
| Westbrook | 22 | W | F | 9-3 | OV | Fatality |
| Portland | 8 | W | M | 9-7 | 3V? | Bulbo-Spinal |
| Westbrook | 29 | W | M | Wk. End. 9-10 | ? |  |

## Androscoggin County

| Lewiston | I | $W$ | $M$ | $8-3$ | OV |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Poland | 23 | $W$ | $M$ | $8-12$ | $0 V$ |

Durham 4 W $M$ Late Aug. OV Fatality

Durham 2 W M Late Aug. OV
Durham I $W \quad M$ Iate Aug. OV
Prior to August, there had been only 5 cases of poliomyelitis in Maine with onset in 1960. These 5 cases were from Aroostook County, scene of a mixed types I and III epidemic in late 1959. Specimens are being obtained from current cases and sent to the Communicable Disease Center for study.

## B. New Jersey

Dr. William J. Dougherty, Director, Preventable Disease Control, New Jersey State Department of Health, reports that although 7 of the last 13 cases of poliomyelitis reported in New Jersey are from Jersey City, these cases have occurred throughout the month of August with no recent concentration. Through September 14, there have now been 52 cases, 44 paralytic, in New Jersey, with 19 cases occurring in Hudson County (Jersey City - Hoboken).

Of the 19 cases in Hudson County, 14 are from Jersey City and 4 from Hoboken. These cases have occurred as follows:

| Weck Ending: | $7-16$ | $\frac{7-23}{}$ | $\frac{7-30}{}$ | $\frac{8-6}{}$ | $\frac{8-13}{}$ | $\frac{8-20}{}$ | $\frac{8-27}{}$ | $\frac{9-2}{}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Paralytic | 1 | 0 | 5 | 4 | 2 | 1 | 2 | 1 |
| Nonparalytic | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 |
| Total Cases | 1 | 0 | 5 | 4 | 3 | 2 | 2 | 1 |

Twelve of the 16 paralytic cases are unvaccinated and only two have received three or more doses of vaccine.
C. Indiana

Dr. Louis W. Spolyar, Director, Bureau of Preventive Medicine, Indiana Department of Health, reports that the 16 cases of poliomyelitis reported to NOVS for the week ending September 10, occurred in 11 different counties throughout the State. There have been only two additional cases reported from populous Marion County (Indianapolis).

Of the 58 cases reported through September 10, in Indiana, 30 are paralytic, 14 nonparalytic and 14 unspecified as to paralytic status. Only 5 cases ( 8.6 percent) have received three or more doses of vaccine while 47 ( 81.0 percent) are unvaccinated.

## D. Wyoming

Dr. Cecil R. Reinstein, Director, Division of Preventive Medicine, Wyoming State Department of Health, reports the occurrence of 18 cases of poliomyelitis, of which 12 are paralytic, in Wyoming since late July. This total represents a greater number of cases than had occurred in either of the past three years. Figures for the past six years in Wyoming are as follows:

|  | $\frac{1959}{}$ | $\frac{1958}{2}$ |  | $\frac{1957}{}$ |  | 1956 |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1 | 5 | 7 | 18 | 17 | - |
| Paralytic | 1955 | $\underline{1954}$ |  |  |  |  |
| Total Cases | 2 | 13 | 12 | 36 | 37 | 276 |

Thirteen of the 18 cases have occurred in Natrona and Fremont Counties, with the majority of the Fremont County cases occurring in an area called the Gas Hills Uranium Mining District. This area is the site of uranium mines and oil fields with most of the residents living in trailers. The geographic distribution of the cases throughout the State is as follows by week of onset:

## Week Ending

| County | 7-30 | 8-6 | 8-13 | 8-20 | 8-27 | 9-3 | 9-10 | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Fremont | 1 | 0 | 0 | 0 | 1 | 4 | 1 | 7 |
| Natrona | 3 | 0 | 1 | 0 | 0 | 2 | 0 | 6 |
| Laramie | 0 | 0 | 0 | 0 | 2 | 0 | 1 | 3 |
| Campbell | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| Park | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| TOTAL | 4 | 0 | 1 | 1 | 3 | 7 | 2 | 18 |

Of the 12 paralytic cases, 7 have received no vaccine, 2 have had 1 dose and 2 have had 3 doses of vaccine. There have been 2 fatalities.

## E. Puerto Rico

Through September 13, Dr. Manuel Feliberti, Epidemiologist, Bureau of Acute Communicable Disease Control, Puerto Rico Department of Health, reports a total of 427 cases of poliomyelitis in 1960. Of these, 422 are paralytic. This represents an inerease of 28 paralytic cases during the past two weeks, a majority of which are appearing sporadically in the western part of the island.

Of the paralytic cases with known vaccination status, over 80 percent have received no vaccine while less than 5 percent have received three or more doses. Eighty-five percent of the cases are in pre-school age children and 98 percent are under ten years of age. The vaccination status of the paralytic cases is as follows:

| Doses of Vaccine: | $\underline{O V}$ | $\underline{1 V}$ | $\underline{2 V}$ | $\underline{3+V}$ | Unk. | Total |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| No. of Cases | 326 | 25 | 21 | 18 | 32 | 422 |
| Percent | 83.6 | 6.4 | 5.4 | 4.6 | - | 100.0 |

3. 1960 POLIOMYELITIS CASES REPORTED TO PSU

During the week ending September 12,132 cases of polionyelitis were reported to PSU on individual case forms bringing the 1960 total to 1,139 cases. Of these cases, 835 are paralytic, 277 nonparalytic, and 27 unspecified as to paralytic status. Thus, 70.6 percent of the paralytic cases reported to NOVS through September 10 , have been reported to PSU.

These cases are presented below:

TABLE 3
POLIOMYELITIS CASES BY PARALYTIC STATUS, AGE GROUP AND VACCINATION HISTORY REPORTED ON PSU FORMS
(Through September 12, 1960)
Paralytic

| Age Group | Paralytic |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Doses of Vaccine |  |  |  |  |  |  |
|  | 0 | 1 | 2 | 3 | $4+$ | Unk | Tot |
| 0-4 | 212 | 51 | 39 | 44 | 12 | 20 | 378 |
| 5-9 | 71 | 15 | 20 | 47 | 25 | 9 | 187 |
| 10-14 | 22 | 5 | 6 | 27 | 9 | 9 | 78 |
| 15-19 | 26 | 5 | 4 | 8 | 1 | 7 | 51 |
| 20-29 | 48 | 6 | 7 | 7 | 2 | 5 | 75 |
| 30-39 | 30 | 5 | 4 | 3 | 2 | 2 | 46 |
| 40+ | 17 | - | - | 1 | - | 2 | 20 |
| unk. | - | - | - | - | - | - | - |
| Total | 426 | 87 | 80 | 137 | 51 | 54 | 835 |
| PER | 54.5 | 11.1 | 10.2 | 17.5 | 6.5 | - | 100.0 |
| CENT |  |  |  |  |  |  |  |
| DOSES |  |  |  |  |  |  |  |

Nonparalytic

| Age <br> Group | Doses of Vaccine |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 0 | 1 | 2 | 3 | $4+$ | Unk | Tot |
| 0-4 | 32 | 6 | 8 | 14 | 9 | 5 | 74 |
| 5-9 | 10 | 7 | 6 | 19 | 23 | 8 | 73 |
| 10-14 | 4 | 5 | - | 17 | 14 | - | 40 |
| 15-19 | 4 | - | 4 | 10 | 9 | 1 | 28 |
| 20-29 | 11 | 2 | 4 | 12 | 4 | 5 | 38 |
| 30-39 | 5 | 2 | 2 | 4 | 3 | 1 | 17 |
| 40+ | 5 | - | 1 | - | - | 1 | 7 |
| unk. | - | - | - | - | - | - | - |
| Total | 71 | 22 | 25 | 76 | 62 | 21 | 277 |
| PER | 27.7 | 8.6 | 9.8 | 29.7 | 24.2 | - | 100.0 |
| CENT |  |  |  |  |  |  |  |
| DOSES |  |  |  |  |  |  |  |

## 4. ROUTINE POLIOMYELITIS SURVEILLANCE

A. Cases with Onset within 30 Days of Vaccination

During the week ending September 12, the Poliomyelitis Surveillance Unit was notified of 11 cases of poliomyelitis, 8 paralytic, with onset within 30 days of vaccination. The 1960 total now stands at 71 , of these, 55 are paralytic ( 7 correlated) and 16 nonparalytic.

The paralytic cases reported this week are presented in Table II. Additional information on previously reported cases, which is also included in this table, reveals that the two fatal cases from Bristol County, Massachusetts receiving the same vaccine were not correlated.
B. Vaccine Distribution

The summary of current and cumulative data concerning poliomyelitis vaccine and quadruple antigen vaccine shipped is presented in Table III.
(This report was prepared by Mr. Leo Morris, Statistician, of the Poliomyelitis and Polio-like Diseases Surveillance Unit, with the assistance of Statistics Section, CDC.)

FIG. 1
CURRENT U.S. POLIO INCIDENCE
COMPARED WITH YEARS 1955-1959, APR.-DEC., BY WEEK

PROVISIONAL DATA SUPPLIED BY NATIONAL OFFICE OF VITAL STATISTICS




Table 1
Trend of 1960 Poliomyelitis Incidence

| State | Cumula | Cases Reported to NOVS* | Six | Comparable Six |
| :---: | :---: | :---: | :---: | :---: |
| and | tive | For Week Ending | Week | Weeks Totals in: |
| Region | 1960 | $8-6$ | $8-138-208-27$ | $9-3$ |

UNITED STATES

| Paralytic | 1,182 | 69 | 96 | 97 | 89 | 118 | 105 | 574 | 1,780 | 712 | 470 |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Nonparalytic | 387 | 33 | 25 | 36 | 41 | 52 | 27 | 214 | 896 | 579 | 1,068 |
| Unspecified | 184 | 10 | 7 | 21 | 17 | 47 | 22 | 124 | 240 | 214 | 354 |
| Total | 1,753 | 112 | 128 | 154 | 147 | 217 | 154 | 912 | 2,916 | 1505 | 1,892 |

## IIEW ENGIAND

| Paralytic | 124 | 6 | 3 | 6 | 7 | 10 | 13 | 45 | 99 | 11 | 5 |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| $\quad$ Total | 158 | 6 | 5 | 9 | 11 | 15 | 18 | 64 | 150 | 36 | 30 |
| Maine | 18 | - | - | - | 2 | 2 | 8 | 12 | 6 | - | 4 |
| New Hampshire | - | - | - | - | - | - | - | - | 3 | 4 | 3 |
| Vermont | 3 | - | - | 1 | - | - | 2 | 3 | 1 | 1 | 2 |
| Massachusetts | 25 | - | 4 | 3 | 2 | 4 | 2 | 15 | 67 | 12 | 5 |
| Khade Island | 94 | 4 | 1 | 1 | 6 | 5 | 3 | 20 | 1 | 1 | - |
| Connecticut | 18 | 2 | - | 4 | 1 | 4 | 3 | 14 | 72 | 18 | 16 |
|  |  |  |  |  |  |  |  |  |  |  |  |
| MIDDIE ATIANIIC |  | 171 | 18 | 18 | 27 | 19 | 16 | 22 | 112 | 133 | 129 |
| $\quad$Paralytic 171 |  |  |  |  |  |  |  |  |  |  |  |
| $\quad$ Total | 225 | 14 | 22 | 35 | 26 | 23 | 26 | 146 | 248 | 229 | 142 |
| New York | 127 | 11 | 5 | 20 | 12 | 16 | 10 | 74 | 139 | 88 | 80 |
| New Jersey | 48 | 3 | 11 | 3 | 8 | 1 | 9 | 35 | 55 | 108 | 40 |
| Pennsylvania | 50 | - | 6 | 12 | 6 | 6 | 7 | 37 | 54 | 33 | 22 |

EAST NORTH CENIRAL

| $\quad$ Paralytic | 144 | 8 | 9 | 18 | 14 | 27 | 19 | 95 | 193 | 212 | 127 |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| $\quad$ Total | 279 | 23 | 16 | 28 | 26 | 56 | 35 | 184 | 496 | 554 | 729 |
| Ohio | 68 | 6 | 1 | 5 | 7 | 19 | 6 | 44 | 111 | 92 | 125 |
| Indiana | 60 | 4 | 4 | 11 | 5 | 8 | 16 | 48 | 57 | 41 | 62 |
| Illinois | 91 | 6 | 9 | 10 | 9 | 22 | 5 | 61 | 118 | 71 | 170 |
| Michigan | 45 | 4 | 2 | 2 | 3 | 5 | 4 | 20 | 190 | 331 | 239 |
| Wisconsin | 15 | 3 | - | - | 2 | 2 | 4 | 11 | 20 | 19 | 133 |
|  |  |  |  |  |  |  |  |  |  |  |  |
| WEST NORTH CENIRAL |  |  |  | 4 | 1 | 1 | 3 | 10 | 27 | 301 | 52 |
| $\quad$ Paralytic | 51 | 9 |  |  |  | 29 |  |  |  |  |  |
| $\quad$ Total | 95 | 13 | 8 | 5 | 4 | 8 | 15 | 53 | 592 | 109 | 185 |
| Minnesota | 31 | 7 | 2 | - | 1 | 2 | 4 | 16 | 92 | 8 | 21 |
| Iowa | 17 | 1 | 1 | 1 | 1 | 1 | 3 | 8 | 177 | 27 | 33 |
| Missouri | 15 | 1 | - | - | 1 | 2 | 2 | 6 | 173 | 42 | 51 |
| INorth Dakota | 7 | 3 | - | 2 | 1 | 1 | - | 7 | 5 | 21 | 7 |
| South Dakota | 3 | - | 1 | - | - | - | - | 1 | 9 | 1 | 26 |
| Nebraska | 10 | - | 2 | 1 | - | 1 | 4 | 8 | 48 | 2 | 18 |
| Kansas | 12 | 1 | 2 | 1 | - | 1 | 2 | 7 | 88 | 8 | 29 |

* National Office of Vital Statistics: weekly figures reported by the states as of Wednesday of the specified week; cmmative figmes inclunte revisjons and corrections.

Table 1 (Continued)

| State and | $\begin{aligned} & \text { Cumula- Cases Reported to NOVS } \\ & \text { tive } \quad \text { For Week Ending } \\ & \hline \end{aligned}$ |  |  |  |  |  |  | Six Week Total | Comparable Six <br> Weeks Totals in: |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Region | 1960 | 8-6 | 8-13 | 8-20 | 8-27 | 9-3 | 9-10 |  | 1959 | 1958 | 1957 |
| SOUTH ATLANTIC |  |  |  |  |  |  |  |  |  |  |  |
| Paralytic | 194 | 15 | 21 | 11 | 20 | 24 | 11 | 102 | 351 | 100 | 98 |
| Total | 282 | 22 | 26 | 17 | 33 | 35 | 16 | 149 | 442 | 196 | 239 |
| Delaware | - | - | - | - | - | - | - | - | 1 | 9 | 2 |
| Maryland | 23 | 1 | 1 | 4 | 10 | 4 | 2 | 22 | 11 | 8 | 4 |
| D. C. | - | - | - | - | - | - | - | - | 5 | - | 34 |
| Virginia | 11 | 1 | 3 | 1 | 1 | 1 | 2 | 9 | 128 | 45 | 32 |
| West Virginia | 29 | - | 3 | 1 | 3 | 9 | - | 16 | 68 | 52 | 10 |
| North Carolina | 63 | 9 | 4 | 2 | 11 | 8 | 5 | 39 | 95 | 31 | 91 |
| South Carolina | 98 | 11 | 12 | 8 | 5 | 8 | 4 | 48 | 25 | 2 | 18 |
| Georgia | 12 | - | - | 1 | 3 | - | 3 | 7 | 72 | 15 | 24 |
| Florida | 46 | - | 3 | - | - | 5 | - | 8 | 37 | 34 | 24 |
| EAST SOUTH CENTRAL |  |  |  |  |  |  |  |  |  |  |  |
| Paralytic | 57 | 2 | 8 | 3 | 4 | 5 | 2 | 24 | 230 | 32 | 36 |
| Total | 114 | 3 | 8 | 18 | 15 | 29 | 5 | 78 | 327 | 97 | 100 |
| Kentucky | 57 | - | - | 14 | 10 | 22 | 3 | 49 | 20 | 4 | 37 |
| Tennessee | 20 | 1 | 3 | 3 | 4 | 4 | 1 | 16 | 162 | 40 | 33 |
| Alabama | 11 | - | 1 | - | - | 1 | 1 | 3 | 113 | 16 | 8 |
| Mississippi | 26 | 2 | 4 | 1 | 1 | 2 | - | 10 | 32 | 37 | 22 |
| WEST SOUTH CENTRAL |  |  |  |  |  |  |  |  |  |  |  |
| Paralytic | 111 | 6 | 8 | 5 | 1 | 12 | 6 | 38 | 228 | 108 | 74 |
| Total | 192 | 13 | 10 | 9 | 2 | 25 | 8 | 67 | 351 | 165 | 224 |
| Arkansas | 20 | 1 | - | 3 | - | 5 | 1 | 10 | 99 | 3 | 12 |
| Louisiana | 40 | 3 | 1 | 3 | - | - | - | 7 | 39 | 18 | 40 |
| Oklahoma | 10 | 1 | - | - | - | - | 2 | 3 | 63 | 18 | 40 |
| Texas | 122 | 8 | 9 | 3 | 2 | 20 | 5 | 47 | 150 | 126 | 132 |
| Mountain |  |  |  |  |  |  |  |  |  |  |  |
| Paralytic | 22 | - | 2 | - | - | 2 | 1 | 5 | 33 | 15 | 21 |
| Total | 54 | 2 | 5 | 2 | 1 | 4 | 10 | 24 | 55 | 41 | 56 |
| Montana | 13 | - | 1 | - | - | - | - | 1 | 3 | 14 | 5 |
| Idaho | 5 | - | 1 | - | - | - | - | 1 | - | 4 | 7 |
| Wyoming | 16 | 2 | 2 | 1 | - | 1 | 8 | 14 | - | 2 | 4 |
| Colorado | 7 | - | - | 1 | - | 1 | 1 | 3 | 8 | 4 | 10 |
| New Mexico | 5 | - | - | - | 1 | 1 | 1 | 3 | 11 | 6 | 18 |
| Arizona | 4 | - | 1 | - | - | - | - | 1 | 27 | 8 | 8 |
| Utah | 4 | - | - | - | - | 1 | - | 1 | 4 | 2 | 4 |
| Nevada | - | - | - | - | - | - | - | - | 2 | 1 | - |
| PACIFIC |  |  |  |  |  |  |  |  |  |  |  |
| Paralytic | 308 | 14 | 23 | 26 | 23 | 19 | 21 | 126 | 212 | 53 | 50 |
| Total | 354 | 16 | 28 | 31 | 29 | 22 | 21 | 147 | 255 | 78 | 187 |
| Alaska | 2 | - | - | - | - | - | - | - | 6 | - | 1 |
| Washington | 20 | - | 5 | 1 | 1 | 3 | - | 10 | 66 | 5 | 7 |
| Oregon | 26 | - | 1 | - | 2 | 4 | - | 7 | 70 | 14 | 6 |
| California | 299 | 16 | 21 | 30 | 26 | 14 | 21 | 128 | 113 | 42 | 171 |
| Hawaii | 7 | - | 1 | - | - | 1 | - | 2 | - | 17 | 2 |
| TERRItories |  |  |  |  |  |  |  |  |  |  |  |
| Puerto Rico | 418 | 12 | 10 | 20 | 11 | 14 | 7 | 74 | - | 9 | 18 |

PARALYTIC POLIOMYELITIS OCCURRING WITHIN 30 DAYS OF LAST VACCINE INOCULATION (Cases Reported to PSU from September 6 through September 12, 1960)

| State | County | $\begin{aligned} & \text { Ini- } \\ & \text { tials } \end{aligned}$ | Age | Sex | Date <br> Inoc. | Mfr. Lot No. | Date <br> First <br> Symp. | Site <br> Inoc. | Site First Para. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Calif. | Orange | R.E. | $\begin{gathered} 3 \\ \text { mos. } \end{gathered}$ | M . | 7-18-60 | unk. unk. | 8-11-60 | right buttock | spine |
| New <br> Mexico | Curry | C. M. | 4 | F. | 4-25-60 | unk. unk. | 5-9-60 | left arm | unk. |
| South Carolina | $\begin{aligned} & \text { Greene- } \\ & \text { ville } \end{aligned}$ | G. C. | $\begin{aligned} & 10 \\ & \text { mos. } \end{aligned}$ | M. | $7-25-60$ | Pfizer unk. or Wyeth | 8-10-60 | left arm | right <br>  <br> left <br> leg |
| South Carolina | Oconee | J. C. | $\begin{aligned} & 20 \\ & \text { mos. } \end{aligned}$ | M. | 7-4-60 | unk. unk. | 7-24-60 | left arm | shoulder <br> \& neck |
| Tenn. | Gibson | R. S. | $\begin{gathered} 9 \\ \operatorname{mos} . \end{gathered}$ | F. | 7-6-60 | unk. unk. | 8-2-60 | hip | both lower extremities \& gluteal muscle |
| Utah | Cache | J. S. | 5 | F. | 6-29-60 | P-D vink. | 7-2-60 | arm | arm |
| W. Va. | Nicholas | J. N. | 8 | F. | 8-2-60 | unk. unk. | 8-28-60 | unk. | unk. |
| Wisconsin | Brown | S. S. | 14 | F. | 8-9-60 | unk. unk. | 8-17-60 | unk. | legs \& chest |

Additional information received on Kentucky Case S. S. listed in Report 209 indicates Vaccine Manufacturer and Lot Number - Merck, Sharp \& Dohme, 63787.

Additional information received on Illinois Case R. C. listed in Report 210 indicates Site of Inoculation - left deltoid, Site of First Paralysis - both lower extremities, upper left extremity and abdominal muscles, Vaccine Manufacturer and Lot Number - Lilly S8009-755925.

Additional information received on Massachusetts Case A. A. listed in Report 210 indicates Site of Inoculation - left arm, Site of First Paralysis - encephalitic symptoms, coma and convulsions.

Additional information received on Massachusetts Case J. A. listed in Report 210 indicates Site of Inoculation - left arm, Site of First Paralysis - respiratory muscle.

POLIOMYELITIS AND QUADRUPLE ANTIGEN VACCINE REPORTS (Data provided by the Polio Vaccine Activity, BSS, USPES, through September 2, 1960) POLIOMYELITIS VACCINE SHIPPED ( 1000 's cc 's)

| Period | National Foundation | Public Agencies | Commercial Channels | Domestic <br> Total | Export |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1955 | 13,541 | 7,893 | 6,223 | 27,657 | -- |
| 1956 | 194 | 45,588 | 24,784 | 70,566 | 6,477 |
| 1957 | 154 | 50,026 | 38,062 | 88,242 | 12,784 |
| 1958 | 203 | 18,533 | 28,319 | 47,055 | 33,571 |
| 1959 | 160 | 25,160 | 37,553 | 63,873 | 21,161 |
| 1960 |  |  |  |  |  |
| Jan-March | -- | 4,298 | 5,371 | 9,669 | 2,782 |
| April-June | -- | 6,149 | 9,763 | 15,912 | 3,498 |
| Week Ending |  |  |  |  |  |
| 7-8 | -- | 480 | 621 | 1,101 | 95 |
| 7-15 | -- | 1,175 | 500 | 1,675 | 106 |
| 7-22 | -- | 245 | 608 | 853 | 70 |
| 7-29 | -- | 839 | 553 | 1,392 | 158 |
| 8-5 | -- | 487 | 711 | 1,198 | 58 |
| 8-12 | 1 | 120 | 417 | 538 | 50 |
| 8-19 | -- | 1,376 | 473 | 1,849 | 47 |
| 8-26 | -- | 133 | 406 | 539 | 16 |
| 1960 Total to Date | 1 | 15,302 | 19,423 | 34,726 | 6,880 |
| Cumulative Total | 14,253 | 163,502 | 154,364 | 332,119 | 80,873 |
| QUADRUPLE ANTIGEN VACCINE SHIPPED (1000's cc's) |  |  |  |  |  |
| 1959 |  | 157 | 4,020 | 4,177 | 59 |
| 1960 |  |  |  |  |  |
| Jan-March |  | 118 | 1,308 | 1,426 | 65 |
| April-June |  | 165 | 1,928 | 2,093 | 62 |
| Week Ending |  |  |  |  |  |
| 7-8 |  | 14 | 148 | 162 | 2 |
| 7-15 |  | 9 | 124 | 133 | 13 |
| 7-22 |  | 13 | 149 | 162 | 1 |
| 7-29 |  | 10 | 169 | 179 | 3 |
| 8-5 |  | 42 | 155 | 197 | 10 |
| 8-12 |  | 23 | 153 | 176 | 4 |
| 8-19 |  | 36 | 150 | 186 | 3 |
| 8-26 |  | 18 | 161 | 179 | -- |
| 1960 Total to Date |  | 448 | 4,445 | 4,893 | 163 |
| Cumulative Total |  | 605 | 8,465 | 9,070 | 222 |
| GRand total | 14,253 | 164,107 | 162,829 | 341,189 | 81,095 |

