

POLIOMYELITIS SURVEILLANCE REPORT

FOR ADMINISTRATIVE USE

REPORT NO. 218

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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.

SUMMARY

The declining trend of poliomyelitis incidence during the past month has continued with the reporting of 60 cases, 46 paralytic, to the National Office of Vital Statistics during the 46th week ending November 19.

An account of a rural concentration of poliomyelitis in Virginia, and a further report of the Baltimore epidemic are presented.

The results of the 1960 National Poliomyelitis Vaccination Survey conducted in September are presented along with comparable results of the 1959 survey.

An analysis of virus isolations by state in 1959 and preliminary results of laboratory investigations in 1960 are also included.

1. CURRENT POLIOMYELITIS MORBIDITY TRENDS

During the 46th week ending November 19, a total of 60 cases of poliomyelitis, 46 paralytic, was reported to the National Office of Vital Statistics, continuing the downward trend of disease incidence during the past month illustrated in Figure I.

A comparison of cumulative poliomyelitis case reporting to date in 1960 with similar reporting in the past 5 years indicates the generally lower incidence of total and paralytic disease in 1960. As shown in Figure I and the table below, reports of total disease occurrence during this year to date make up a much lower total than any other in recent years. The current incidence of paralytic poliomyelitis, on the other hand, though lower than in most years, essentially equals that of 1957.

HOMA LALEVANS BITL POLIOMYELITIS OF

TOTAL (CUMULATED WEEKLY) THROUGH THE 46th WEEK FOR THE PAST FIVE YEARS

| | 1960 | 1959 | 1958 | 1957 | 1956 |
|-----------|-------|-------|-------|-------|--------|
| Paralytic | 2,089 | 5,310 | 2,790 | 2,020 | 6,370 |
| Total | 3,033 | 8,029 | 5,520 | 5,692 | 14,774 |

Aside from slight increases in the East Central and Pacific Regions, regional reports of poliomyelitis during the 46th week reflect the declining nationwide trend.

REPORTS

A. Virginia

According to Dr. Mason Romaine, Director, Bureau of Communicable Disease Control, a concentration of 6 cases of paralytic poliomyelitis has occurred in Rockingham County, scene of an epidemic in 1958. The present localization has mainly involved poorly immunized school-age children as shown below.

| Age | Race | Sex | Date of Onset | Vaccination Sta | tus | Remarks |
|-----|------|-----|---------------|-----------------|-----|----------|
| 6 | W | М | 9-22 | ov |) | Son |
| 28 | W | М | 9-2 6 | OV |) | Father |
| 7 | W | М | 10-15 | 1V | | |
| 7 | W | F | 11-8 | OV |) | Siblings |
| 10 | W | М | 11-11 | OV |) | |
| 9 | W | М | 11-13 | 2V(?) | | |

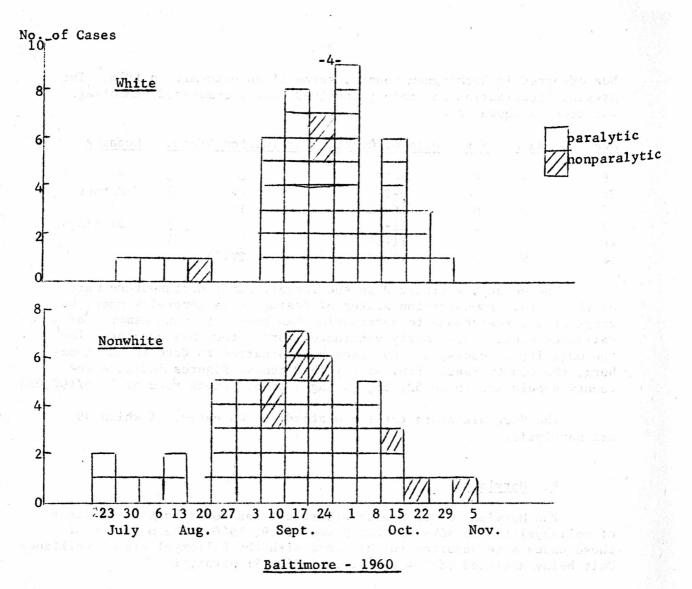
The county is situated in the largely rural northwestern part of the state. Immunization status of residents is generally good, but considerable resistance to vaccination has been met among members of a religious sect. This poorly vaccinated rural group has accounted for the majority of cases, and no cases have occurred to date in Harrisonburg, the County Seat. Preliminary 1960 census figures indicate the county population to be 52,355, giving a crude attack rate of 11.5/100,000.

The Virginia state total now stands at 43 cases, of which 39 are paralytic.

B. Maryland

The Maryland State Health Department has now reported 150 cases of poliomyelitis to NOVS through November 19, 1960. The majority of these cases have occurred in Baltimore with the Poliomyelitis Surveillance Unit being notified of 104 cases, including 91 paralytic.

As seen in the histogram on the following page, the epidemic is waning with the latest case having onset on November 1. The earlier incidence in the Negro population is also evident.



Paralytic Cases by Race and Week of Onset

While approximately half of the paralytic cases among both white and nonwhite persons are unvaccinated, there is a greater proportion of cases with three or more doses of vaccine among the white population. This is shown with corresponding paralytic attack rates in the table below:

| | PARALYT | IC | CASES | BY RAC | CE AND | VACC | INATION | STATUS |
|----------|---------|----|-------|--------|--------|------|---------|---------------------|
| | | | Doses | of Vac | ccine | | | Paralytic Attack |
| | 0 | 1 | 2 | 3 | 4+ | Unk | Total | Rate |
| White | 23 | 4 | 5 | 10 | 5 | 2 | 49 | 7.8 |
| Nonwhite | 20 | 2 | 9 | 9 | 1 | 1 | 42 | 14.4 |
| TOTAL | 43 | 6 | 14 | 19 | 6 | 3 | 91 | 9.9 |

This has been a type III epidemic with isolation of type III poliovirus from 35 cases and type I poliovirus from only 2 cases in Baltimore.

3A. 1960 POLIOMYELITIS CASES REPORTED ON PSU FORMS

During the 3-week period from October 30 to November 19, 1960, 301 cases of poliomyelitis were reported to the Poliomyelitis Surveillance Unit on individual case forms. This brings the 1960 total reported to PSU to 2,455 cases of which 1,851 are paralytic, 547 nonparalytic and 57 unspecified as to paralytic status.

Thus, 81 percent of the 3,033 cases reported to NOVS through November 19 have been reported on PSU forms. In addition, the 1,851 paralytic cases reported represent 89 percent of the 2,089 paralytic cases reported to NOVS at that date. At this time last year, PSU had also received individual case forms on 89 percent of the paralytic cases reported to NOVS and as many as 86 percent of the total cases reported. The cases reported to PSU thus far in 1960 are presented below in Table 3A.

TABLE 3A

POLIOMYELITIS CASES BY PARALYTIC STATUS, AGE GROUP AND VACCINATION HISTORY REPORTED ON PSU FORMS (Through November 19, 1960)

| Rue - Biskinski - C | uste t _{e t} e | 1 19903 | o distric | Paraly | tic | 61761081 | 1975 E.A | IN Stang |
|---------------------|-------------------------|----------------------|-----------|-------------|-------------------|----------|--|------------------------|
| Age | artin ordan. | i unit el | D | oses of | Vaccine | 4 80833 | Keener Strange | 3011 - 3 8731 2 |
| Group | 0, | 1 | 2 | | 4+ | Unk | 2 929 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | Tot |
| 0-4 | 452 | 84 | 100 | 101 | 41 | 36 | | 814 |
| 5-9 | 182 | 28 | 45 | 107 | 54 | 18 | | 434 |
| 10-14 | 36 | 13 | 11 | 50 | 22 | 11 | | 143 |
| 15-19 | 59 | 8 | 6 | 17 | 4 | 5 | | 99 |
| 20-29 | 140 | 18 | 13 | 14 | 8 | 8 | 116 1. | 201 |
| 30-39 | 84 | - ^{calle} 7 | 7 | 9 | 5 | 4 | 117 A. | 116 |
| 40+ | 38 | 4 9 N 1 | | 1 | nd gra <u>r</u> h | 4 | | 43 |
| Unk | 1 | - | - | - | | - | | 1 |
| Total | 992 | 158 | 182 | 299 | 134 | 86 | | 1,851 |
| PERCENT | | $ F \subseteq S$ | sta 1 | 0.00016.000 | 1.1.9.1 | 260 | | |
| DOSES | 56.2 | 9.0 | 10.3 | 16.9 | 7.6 | - | | 100.0 |
| | | | | | | | | |

| | on an endored | n an | here here | Nonpar | alytic | | and the second | | | |
|------------------|---------------|--|-----------|--------|-----------------------|----------------|--|--|--|--|
| Age | 10 / m | Doses of Vaccine | | | | | | | | |
| Group | 0 | 1 | 2 | 3 | 4+ | Unk | Tot | | | |
| 0-408 | 63 | 13 | 12 | 21 | 16 | | 133 | | | |
| 5-9 | 30 | 14 | 17 | 43 | 36 | 11 | 151 | | | |
| 10-14 | 8 | 7 | 1 | 27 | 27 | 2 | 72 | | | |
| 15-19 | 16 | 1 | 9 | 22 | 13 | | 61 | | | |
| 20-29 | 27 | 8 | 5 | 27 | 12 | 8 | 87 | | | |
| 30-39 | 10 | 2 | 5 | 6 | 7 | 3 | 33 | | | |
| 40+ | 6 | 3005000 | 2 | 20.00 | Conser a e | | 8 | | | |
| Unk | - | CHERTAN | 1.12 ° | 1 | 1 | ALL (1993 ALL) | 2 | | | |
| Total | 160 | 45 | 51 | 147 | 112 | 32 | 547 | | | |
| PERCENT DOSES | 31.1 | 8.7 | 9.9 | 28.5 | 21.7 | - | 100.0 | | | |

3B. VIRUS ISOLATIONS FROM CASES REPORTED TO PSU

In Table 3B are presented by states the results of laboratory studies on cases diagnosed as poliomyelitis in 1959 as reported to the Poliomyelitis Surveillance Unit. Last year 4,222 of 8,635 cases (49 percent) were studied virologically, and 2,775 of those studied (65.7 percent) had poliovirus isolations. The percentage of cases with laboratory studies reported varied markedly from state to state, but these data are more complete than in any previous year and a pattern of prevalence is evident. Type I poliovirus predominated in most areas, accounting for 88.8 percent of the isolations. Type III poliovirus was isolated from 10.8 percent, and type II was recovered from only 11 cases or less than one percent. Despite the relatively low incidence of type III, this virus tended to be concentrated in several areas, notably in Massachusetts, Maine, Pennsylvania and Nebraska. Although not the dominant poliovirus, type III was also isolated frequently in New York, Ohio, North Carolina, and Kentucky.

Comparable reports of laboratory studies on 1960 poliomyelitis cases are being submitted to the PSU by the state health departments. This reporting is only in its early stages for this year pending completion of diagnostic testing currently in progress in the many laboratories participating in this work. However, a preliminary evaluation of the small percentage of virus isolations reported through October 29, 1960, yields several interesting contrasts with the 1959 results. As the laboratory reporting becomes more complete it will be interesting to see whether these trends are maintained. As seen in the following Table studies were completed on 392 cases of which 69.9 percent had poliovirus isolation. Poliovirus was isolated much more frequently in paralytic than in non-paralytic cases, 77.3 percent versus 51.5 percent. Of great interest is the frequency with which type III poliovirus has been recovered thus far in 1960, more than 25 percent of all cases. As in 1959 these type III isolations have been primarily in the eastern part of the nation, including outbreaks in New York, Pennsylvania and Maryland (described in previous PSU Reports).

| | | October | 1.000 | | <u></u> |
|-----|----------|---------|-------|-----|---------|
| POI | LIOVIRUS | 0.at | | 0.8 | 56.2 |

VIEUS ISOLATIONS REPORTED TO

| Paralytic Status | Type I | | Type III | Multiple types | Other* Virus | Neg. | TOTAL | % POLIO ISOLATIONS |
|---------------------|-----------|------|-------------|-------------------------|-----------------|----------|-------------|-----------------------|
| Paralytic | 167 | 0 | 55 | 3 | 201 3 , | 63 | 291 | 77.3 |
| Non-paralytic | 36 | 1001 | 13 | 0 | 6 | 41 | 97 | 51.5 |
| Unspecified | 1 | 0 | 1. | 0 | 1 | <u> </u> | 4 | 50.0 |
| TOTAL | 204 | 1 | 69 | 3 ^{6,4} | 10 | 105 | 3 92 | 69.9 |

* ECHO and Coxsackie as yet not typed

PERCENT DISTRIBUTION - POLIOVIRUS

| Carlo al construir e construir | | S. S. S. S. S. S. | CAS. | in the second | FA Dia | Î | 16758 |
|--|------|-------------------|------|---|--------|-----|--------------------|
| Type I | 74.4 | Type | II | 0.4 | Туре | III | 25.2 |
| | | | | | | | 2 Contract Land A. |

It is evident that study of laboratory isolations on a nationwide scale by the PSU can yield much valuable surveillance information which may be of predictive help for the next polio season. The usefulness of these data increases progressively as reporting becomes increasingly complete, with the eventual participation of all virus diagnostic laboratories and the careful follow-up of all cases by the 50 state departments of health. Furthermore, these data on laboratory confirmation becomes most meaningful as it is correlated with the final evaluation of morbidity included in the 60-day follow-up reports now being received. This reporting has been excellent; due to the cooperation of the many state and local health officers 89% of all cases received such follow-up in 1959.

4. ROUTINE POLIOMYELITIS SURVEILLANCE

During the period from October 30 through November 19, the Poliomyelitis Surveillance Unit received reports of 5 cases of poliomyelitis, 4 paralytic, with onsets within 30 days after inoculation. None of these were correlated. Thus, the reporting of under 30-day cases has decreased markedly during November as has the occurrence of poliomyelitis. The yearly total now stands at 128 cases of which 100 are paralytic (9 correlated).

These newly reported cases and additional information on previously reported cases are presented in Table II.

(This report was prepared by the Poliomyelitis and Polio-like Disease Surveillance Unit, Joseph Oren, M.D., Chief, Michael J. Regan, M.D. and Mr. Leo Morris, Statistician, with the assistance of Statistics Section CDC).

POLIOMYELITIS BY STATE - 1959 LABORATORY STUDIES AND POLIOVIRUS ISOLATIONS

| State | haritanan beritanan | Total | etternig rasilio | | iovi | | -iba [ə |
|--------------------|------------------------|-----------------------|--------------------------|----------------------|---------------|--------------------|--------------------------------|
| and Region | Total Cases* | Cases Lab Studied | % Studied | $\frac{1sc}{I}$ | lati II | ons III | % 11] |
| UNITED STATES | 8635 | 4222 | 49 | 2464 | 11 | 300 | 11 |
| NEW ENGLAND | | | SURVETT LAMES | SITURN | 101.10 | | <i>.</i> 57 . 44 |
| Maine | 94 | 27 | 29 | 3 | 0 | 17 | 85 |
| New Hampshire | 10010 | dyss 2 tdt 08 | nedo.20 morti | 0.10 | 0 O | Sup. O.C. | - |
| Vermont | | | or boylgoon s | | | | ti faya |
| Massachusetts | 154 | eni 90 die e | veb 0858 thit iw | 2703/4 | 0 | 48 | 92 |
| Rhode Island | 10 - | 08 m3 ma 10 | 30 or or | 0 | 0 | orf late | |
| Connecticut | 125 | 82 | 66 | 51 | 0 | 1995 V E | ososie at g oteracio |
| MIDDLE ATLANTIC | | UPAL 1917-12-12-12-12 | ng konstan isada si T | 19 - 63 (1949-9 1 | 6 - 6728 7 | e dan ar kak | ti ti kasar iy |
| New York | 522 | 312 tibhs | bm. 60:00 bs | 185 | 2.1 | 32 | 15 |
| New Jersey | 122 | - | 80 | | | | |
| Pennsylvania | 212 | 156 | 74 | 27 | 0 | 57 | 68 |
| EAST NORTH CENTRAL | | | | | | | |
| Ohio | 290 | 198 | 68 | 85 | 1 | 11 | 1] |
| Inciana | 153 | 12 | 8 | 8 | 0 | 0 | Ċ |
| Illinois | 309 | 146 | 47 | 82 | 0 | 4 | 5 |
| Mich. gan | 448 | 7 | 2 | 3 | 0 | 0 | C |
| Wisconsin | 58 | 22 | 38 | 14 | 0 | 3 | 18 |
| WEST NORTH CENTRAL | | | | | | | |
| Mirnesota | 247 | 214 | 87 | 167 | 0 | 8 | 5 |
| Inwa | 471 | 220 | 47 | 131 | 0 | 6 | 4 |
| Missouri | 509 | 324 | 64 | 21? | 0 | 1 | נ |
| Nor the Dakota | | cleym g tfol o | | I SEW1 | | 1 2LO | C |
| South Dakota | D.e Whie | | | 2 | | 1 1 Tool 1 1 | 50 |
| Netraska | 132 | .21739 | · 101 / 30 · 10 · 11 | - ⁴⁶³ 13 | 0 | 18 | 58 |
| Kansas | 189 | 137 | 2 ani 72 14648 | 20 79 | 0 | 8 G (S 1 7 | 1 |

* Cases reported to PSU as Poliomyelitis on preliminary PSU forms.

doube contained and from a Table 3B doub biely and He's out of rises

It is evident that study of laboratory isolations on a mationwide

insmt*

Table 3B (Continued)

| State | na na sana na sana Tana na sana sana | Total | | | liov | | 1.616.2 | |
|--------------------|---|--|---------|-----------------|--------------|-----|-------------------|---|
| and | Total | Cases Lab | % | | solat | | - | % |
| Region | Cases* | Studied | Studied | I | II | III | | III |
| SOUTH ATLANTIC | 994 N.S. N | | | | | | | |
| Delaware | 9 | 5 | 56 | 2 | 0 | 0 | | 0 |
| Maryland | 41 | 32 | 78 | 14 | 0 | 6 | | 30 |
| D.C. | 7 | 7 | 100 | 6 | 0 | 1 | | 14 |
| Virginia | 330 | 162 | 49 | 98 | . 0 | 4 | | 4 |
| West Virginia | 195 | 146 | 75 | 23 | 0 | 1 | | 4 |
| North Carolina | 323 | 114 | 35 | 85 | 0 | 17 | | 17 |
| South Carolina | 83 | 42 | 51 | 30 | 0 | 0 | | 0 |
| Georgia | 179 | 50 | 28 | 39 | 0 | 1 | | 2 |
| Florida | 271 | 145 | 54 | 88 | 1 | 15 | | 14 |
| EAST SOUTH CENTRAL | | | | SUPPLY . | | | | |
| Kentucky | 111 | 39 | 35 | 25 | 0 | 7 | | 22 |
| Tennessee | 401 | 255 | 64 | 193 | i | 6 | | 3 |
| Alabama | 259 | 127 | 49 | 115 | ō | ĩ | | ĩ |
| Mississippi | 116 | 51 | 44 | 15 | 0 | ī | | 6 |
| WEST SOUTH CENTRAL | | | | | | | | |
| Arkansas | 304 | 234 | 77 | 135 | 0 | 1 | | 1 |
| Louisiana | 143 | 113 | 79 | 74 | 2 | ī | | i |
| Oklahoma | 150 | 87 | 58 | 61 | õ | ō | | ō |
| Texas | 526 | 135 | 26 | 61 | 3 | ĭ | | ĩ |
| | 020 | | | V. | | | | - |
| MOUNTAIN | | | | ana Sector S | | | **** | |
| Montana | 18 | 3 | 17 | 3 | 0 | 0 | | 0 |
| Idaho | 7 | 4 | 57 | 3 | 0 | 0 | | ō |
| Wyoming | 2 | 0 | 0 | Ō | Ō | Ō | | _ |
| Colorado | 26 | 3 | 12 | 1 | 0 | ì | | 50 |
| New Mexico | 41 | 3 | 7 | 3 | 0 | ō | | 0 |
| Arizona | 87 | 3 | 3 | 3 | 0 | 0 | | 0 |
| Utah | 12 | 2 | 17 | 2 | 0 | 0 | | Ō |
| Nevada | 3 | 1 | 33 | 0 | 0 | 0 | | 1 . |
| PACIFIC | itera) Mula Agi | | | | 11533 400 | | | |
| Washington | 240 | 87 | 36 | 69 | 0 | 2 | ्रम्ब इ.स.च्या | 3 |
| Oregon | 197 | 137 | 70 | 104 | ĩ | 3 | | 3 |
| California | 439 | 126 | 29 | 80 | ō | 8 | | 9 |
| Alaska | 19 | 1 | 5 | ĩ | ŏ | õ | | 0 |
| Hawaii | 3 | ō | ŏ | ō | ŏ | õ | | _ |
| all part in | - 1920 - M. 11 | an a | | the part of | | v | | 1994 - 1 994 - 1997 - |
| | | | | | | | | |

* Cases reported to PSU as Poliomyelitis on preliminary PSU forms.

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5. POLIOMYELITIS VACCINATION SURVEY RESULTS

In collaboration with the Communicable Disease Center, the National Office of Vital Statistics has been technically responsible during the past several years for estimates, derived from sample surveys, of the national population's participation in the Salk poliomyelitis inoculation program. Dr. Monroe G. Sirken, Chief, and Dr. Leona L. Davis, statistician, of the Actuarial Analysis and Survey Methods Section, National Office of Vital Statistics, report the following results based on estimates from the 1960 and 1959 surveys.

According to the results derived from the 1960 National Poliomyelitis Vaccination Survey, 40.2 percent of the population under 60 years of age, or more than 62 million persons, have not yet received any Salk polio vaccine inoculations. One-half of the population under 60 have received less than three inoculations, (i.e., two, one or no inoculations), whereas only one-fourth have received four or more inoculations. These figures are based on a national household sample survey conducted during September 1960 by the Bureau of the Census as a supplement to the Current Population Survey.*

The study reveals striking variations between children and adults in polio inoculation status. For the population under 20 years, 13 percent have never been vaccinated, one-quarter have received less than three inoculations, and 40 percent have received four or more inoculations. For the population between 20 and 59 years of age, over three-fifths have not received any inoculations, 71 percent have received less than three inoculations, and only 12 percent have received four or more inoculations.

The 1960 data also reveal substantial variations within the broad age groups, those under 20 and those 20 to 59 (Table 5A). School children within the ages 5 to 14 years have the highest level of participation in the inoculation program. Of these school children, only 7 percent have received no inoculations and 15 percent have received less than three inoculations, whereas about half have received four or more inoculations. Of the pre-school children in the age group 1 to 4 about 13 percent have received no inoculations; about 28 percent have received less than three inoculations, and only 35 percent have received four or more inoculations. Participation levels for teenagers 15 to 19 years old are comparable to those for preschool children. Of the infants under one year, 45 percent are reported as having no inoculations. Within the broad age group 20 to 59, the highest proportion of persons with fewer than three inoculations (95 percent) is in the 50 to 59 year group and the lowest proportion (51 percent) is in the 20 to 29 year group. nnua d'O

* The Current Population Survey uses a probability sample design covering the noninstitutionalized cililian population of the United States. The sample is spread over 330 sample areas comprising 638 counties and independent cities with coverage of about 35,000 households. The 1960 National Poliomyelitis Survey is the latest in a series of United States Public Health Service-sponsored surveys, conducted annually since 1957. Prior to the present investigation, estimates of the polio inoculation status of the population were based on the survey conducted during September 1959 (Table 5B). During the past twelve months, the proportion of persons under 60 with no inoculations has decreased by 4 percentage points from 44 to 40 percent. In the age group 20 to 59, the decrease has also amounted to 4 percentage points; in the age group under 20, the decrease has amounted to about 3 percentage points. The proportion of persons with four or more inoculations has increased by about 16 percentage points for the population under 20 and by about 6 percentage points for the adult population in the age group 20 to 59.

During the past twelve months, for preschool children aged 1 to 4, there has been an increase of about 13 percentage points among those with four or more inoculations, as compared with an increase of approximately 19 percentage points for children in the age group 5 to 14. At older ages, the size of the increase in the proportion of quadruply-vaccinated persons is smaller with advancing age. This increase has amounted to about 15 percentage points for the age group 15 to 19 years while it was less than one percentage point for the oldest age group, 50 to 59 years. TABLE 5A

POLIOMYELITIS VACCINATION STATUS OF THE CIVILIAN NONINSTITUTIONAL POPULATION UNDER 60 YEARS, BY AGE: UNITED STATES, SEPTEMBER 1960

| Age (Years) | あってがい パート・ 一般の かいしょうちょう すいすう | Population (1,000's) | | | | | | | | |
|-------------------|------------------------------|-------------------------|-------------|------------|---------|-----------------------------|-------------------|--|--|--|
| survey conduirees | | Total | 4+ | 3 . 239 | 2 | 0136103 392 1 369 | Inocu- lations | | | |
| A To assess " | tions has d | fironi a | NUMBER | IN THOU | SANDS | to acity | ⊺અવ્ | | | |
| aup an bo 59, abe | ಷ್ಟ ಎಂಕ ಅವರ ಗ | 1115/01 | ବର୍ଦ୍ଦ କର୍ପ | THA MICHTS | ACT COL | 9.812.08.0 9.812.08.0 | 190 006 | | | |
| Total, under 60 | 155,251 | 92,833 | 38,203 | 39,727 | 10,573 | 4,330 | 62,418 | | | |
| Under 20 | 70,569 | 61,152 | 27,932 | 25,204 | 5,808 | 2,208 | 9,417 | | | |
| Under 1 | 4,232 | 2,318 | 116 | 752 | 919 | 531 | 1,914 | | | |
| 1-4 | 16,679 | 14,445 | 5,775 | 6,268 | 1,797 | 605 | 2,234 | | | |
| 5-9 | 19,385 | 17,894 | 9,808 | 6,447 | 1,193 | 446 | 1,491 | | | |
| 10-14 | 17,308 | 16,041 | 8,145 | 6,622 | 947 | 327 | 1,267 | | | |
| 15-19 | 12,965 | 10,454 | 4,088 | 5,115 | 952 | 299 | 2,511 | | | |
| 20-59 | 84,682 | 31,681 | 10,271 | 14,523 | 4,765 | 2,122 | 53,001 | | | |
| 20-29 | 20,743 | 12,721 | 4,259 | 5,966 | 1,846 | 650 | 8,022 | | | |
| 30-39 | 23,623 | 12,176 | 4,195 | 5,477 | 1,738 | 766 | 11,447 | | | |
| 40-49 | 22,294 | 5,302 | 1,498 | 2,425 | 878 | 501 | 16,992 | | | |
| 50-59 | 18,022 | 1,482 | 319 | 655 | 303 | 205 | 16,540 | | | |
| | | + | P | ERCENT | | | | | | |
| Total, under 60- | 100.0 | 59.8 | 24.6 | 25.6 | 6.8 | 2.8 | 40.2 | | | |
| Under 20 | 100.0 | 86.7 | 39.6 | 35.7 | 8.2 | 3.1 | 13.3 | | | |
| Under 1 | 100.0 | 54.8 | 2.7 | 17.8 | 21.7 | 12.5 | 45.2 | | | |
| - 1-4 | 100.0 | 86.6 | 34.6 | 37.6 | 10.8 | 3.6 | 13.4 | | | |
| 5-9 | 100.0 | 92.3 | 50.6 | 33.3 | 6.2 | 2.3 | 7.7 | | | |
| 10-14 | 100.0 | 92.7 | 47.1 | 38.3 | 5.5 | 1.9 | 7.3 | | | |
| 15-19 | 100.0 | 80.6 | 31.5 | 39.5 | 7.3. | 2.3 | 19.4 | | | |
| 20-59 | 100.0 | 37.4 | 12.1 | 17.2 | 5.6 | 2.5 | 62.6 | | | |
| 20-29 | 100.0 | 61.3 | 20.5 | 28.8 | 8.9 | 3.1 | 38.7 | | | |
| 30-39 | 100.0 | 51.5 | 17.8 | 23.2 | 7.4 | 3.2 | 48.5 | | | |
| 40-49 | 100.0 | 23.8 | 6.7 | 10.9 | 3.9 | 2.2 | 76.2 | | | |
| 50-59 | 100.0 | 8.2 | 1.8 | 3.6 | 1.7 | 1.1 | 91.8 | | | |

-12-

TABLE 5B

POLIOMYELITIS VACCINATION STATUS OF THE CIVILIAN NONINSTITUTIONAL POPULATION UNDER 60 YEARS, BY AGE: UNITED STATES, SEPTEMBER 1959 (REVISED)

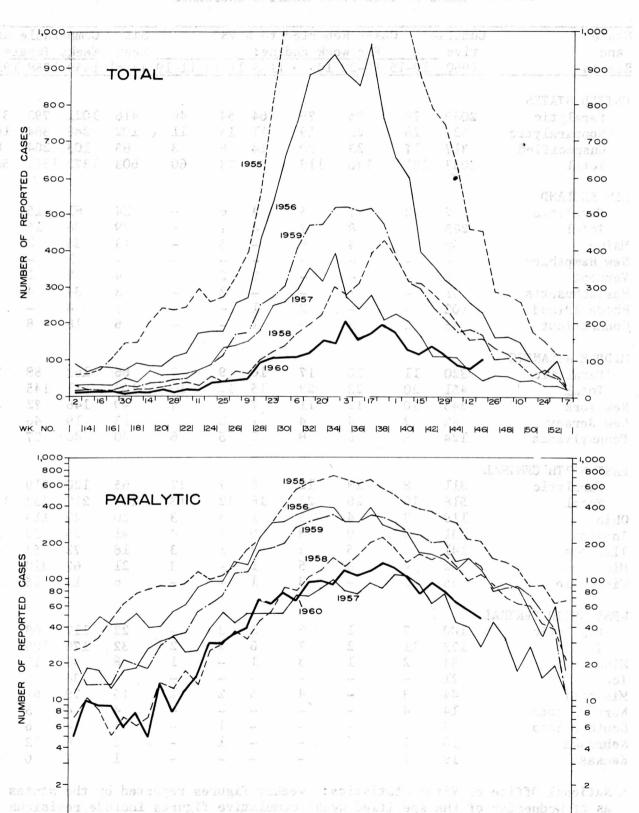
| | Denul ati an | Distrib | ution by | Number | of Inocu | lations | Received No | | | | | |
|----------------|-------------------------|---------------------|----------|----------|----------|----------|----------------|--|--|--|--|--|
| Age (Years) | Population (1,000's) | 1 | r more I | noculati | ong | | Inocu- | | | | | |
| | (1,000-3) | Total | 4+ | 3 | 2 | 1 | lations | | | | | |
| | | Illian | 47 | 3 | 4 | <u> </u> | Tacrons | | | | | |
| | | NUMBER IN THOUSANDS | | | | | | | | | | |
| Total under 60 | 152,133 | 84,914 | 21,580 | 45,084 | 13,217 | 5,033 | 67,219 | | | | | |
| Under 20 | 68,311 | 56,878 | 16,230 | 30,574 | 7,469 | 2,605 | 11,433 | | | | | |
| Under 1 | 4,251 | 2,201 | 33 | 359 | 1,263 | 546 | 2,050 | | | | | |
| 1-4 | 16,416 | 13,759 | 3,611 | 7,067 | 2,368 | 713 | 2,657 | | | | | |
| 5-9 | 18,598 | 16,596 | 5,954 | 8,568 | 1,578 | 496 | 2,002 | | | | | |
| 10-14 | 16,516 | 14,826 | 4,574 | 8,806 | 1,054 | 392 | 1,690 | | | | | |
| 15-19 | 12,530 | 9,496 | 2,058 | 5,774 | 1,206 | 458 | 3,034 | | | | | |
| 20-59 | 83,822 | 28,036 | 5,350 | 14,510 | 5,748 | 2,428 | 55,786 | | | | | |
| 20-29 | 20,532 | 11,532 | 2,042 | 6,164 | 2,456 | 870 | 9,000 | | | | | |
| 30-39 | 23,656 | 10,948 | 2,314 | 5,594 | 2,138 | 902 | 12,708 | | | | | |
| 40-49 | 22,006 | 4,338 | 836 | 2,118 | 868 | 516 | 17,668 | | | | | |
| 50-59 | 17,628 | 1,218 | 158 | 634 | 286 | 140 | 16,410 | | | | | |
| | | | PI | ERCENT | | | | | | | | |
| Total under 60 | 100.0 | 55.8 | 14.2 | 29.6 | 8.7 | 3.3 | 44.2 | | | | | |
| Inder 20 | 100.0 | 83.3 | 23.8 | 44.8 | 10.9 | 3.8 | 16.7 | | | | | |
| Under 1 | 100.0 | 51.8 | 0.8 | 8.4 | 29.7 | 12.8 | 48.2 | | | | | |
| 1-4 | 100.0 | 83.8 | 22.0 | 43.0 | 14.4 | 4.3 | 16.2 | | | | | |
| 5_9 | 100.0 | 89.2 | 32.0 | 46.1 | 8.5 | 2.7 | 10.8 | | | | | |
| 10-14 | 100.0 | 89.8 | 27.7 | 53.3 | 6.4 | 2.4 | 10.2 | | | | | |
| 15-19 | 100.0 | 75.8 | 16.4 | 46.1 | 9.6 | 3.7 | 24.2 | | | | | |
| .0-59 | 100.0 | 33.4 | 6.4 | 17.3 | 6.9 | 2.9 | 66.6 | | | | | |
| 20-29 | 100.0 | 56.2 | 9.9 | 30.0 | 12.0 | 4.2 | 43.8 | | | | | |
| 30-39 | 100.0 | 46.3 | 9.8 | 23.6 | 9.0 | 3.8 | 53.7 | | | | | |
| 40-49 | 100.0 | 19.7 | 3.8 | 9.6 | 3.9 | 2.3 | 80.3 | | | | | |
| 50-59 | 100.0 | 6.9 | 0.9 | 3.6 | 1.6 | 0.8 | 93.1 | | | | | |

| havisosA of -ucco? éncidai | anoisel I | | nsdmili dine Frace t | f 9190 7 | | replictin (1, Could) | Ago (Yénre) |
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| an de fact - an le Reas ann Generation e go | | ANES | 2031. ZI | READE | - yaran ara | Subada in provinsi in sura deservativa of | |
| els, 13 | 8,60,8 | 12.61 | 43,084 | 18× | 1 | 182, 133 | 00 rehau foror |
| 11,433 | 2,605 | 2,469 | 10,574 | 15,230 | 878,878 | 178.87 | |
| 2,050 | 546 | 1.201 | 088 | | 3,201 | 1.85 .1- 1 | TODAT. |
| 1,657 | 6.63 | 2, 168 | 1 2,067 | 13,613 | 227 | 19.416 | and a figure a second s |
| | | 878.1 | 8,568 | 182 | 322.34 | 698;81 i | (1,1,2,2,2) = (1,1,2,2,2) = (1,1,2,2,2) = (1,1,2,2,2) = (1,1,2,2,2) = (1,1,2 |
| 1,690 | 3:02 | 1.054 | 800,a. | 1,574 | 0\$8,14 | | |
| 466,810 | 458 | 1,305,1 | 5,274 | 2,038 | 6,496 | 12,530 | and the second sec |
| 55.786 | 815.0 | 845,7 | 14,510 | 085,81 | 25, 195 | P2,522 1 | and the contract of the second se |
| 000,9 | 870 | 2,456 | 6,164 | \$10.2 | 11,5321 | | 20-29 |
| 207,21 7 | S06. | 21.136 | 5,694 | 2,314 | 344.01 | | an a state of the second s |
| 603.71 | 8.12 | 262 | 811.2 | 836 | 888.00 | | (() () () () () () () () () () () () () |
| 012.01 | | 145 | 634 | 1.58 | PLAT | | 50-39 |
| ; | | | THREE | 11 | | | |
| 3,14 | 3.3 | 8.7 | 29.6 | and a faile of the | 55.8 | 2.00,00 | Od rabau fatoT |
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| 1. 3E . | B.E. J. | (19.9. | 44.8 | 8.42 | 6.88 | 100.47 | and the second sec |
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| Ever. | E a F | 1.4.4 | 0.54 | 22.0 | 8.88 | Ø.ÂG | the next new concerns, or the first first and the second sec |
| 8.0L | No Star | 3.8 | $f = O^{2}_{1}$ | 0.58 | - 4.88 | 100.0 | $\frac{1}{2} (\mathbf{r}_{1,2}) = -\frac{1}{2} (\mathbf{r}_{1,2}) + \frac{1}{2} (\mathbf{r}_{2,2}) = \frac{1}{2} (\mathbf{r}_{2,2}) + \frac{1}{2} (\mathbf{r}_{2,2}$ |
| 2.001 | 4.8 | \$.3.1 Y | 5.10 | | 8.63 | 0.001 | $\label{eq:product} (\mathbf{x}_1, \mathbf{x}_2, \mathbf{x}_3, $ |
| S. S. Sala | 7.0 | 9.6 | 10.2 | 4.62 | 78.8 | 1.00,0 | 1.5 - 1. 9 |
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| 66.6 | 1 249 | 6.6 | 5.75 6 Ac | 6.4 | N. E.E] | 0.001 | an 5.9 million and a second |
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FIG. I CURRENT U.S. POLIO INCIDENCE COMPARED WITH YEARS 1955-1959, APR.-DEC., BY WEEK



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12 26

NOV.

OCT.

SEP.

AUG.

1 121

WK. ENDING

16 30 14 28 11 25 9 23 6 20 3 17 1 15 29

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JUL.

PROVISIONAL DATA SUPPLIED BY NATIONAL OFFICE OF VITAL STATISTICS

Table 1

| State | Cumula | - C | ases R | Six | Comparable Six Weeks Totals i | | | | | | |
|--------------------|--------|----------|--------|---------|----------------------------------|------------|------------|-------|------|--------|-----------------------|
| and | tive | | | eek End | | | | Week | Week | s Tota | 1 <u>s</u> 1 <u>n</u> |
| Region | 1960 | 10-15 | 10-22 | 10-29 | 11-5 | 11-12 | 11-19 | Total | 1959 | 1958 | 1957 |
| UNITED STATES | | | | | | | | | | | |
| Paralytic | 2089 | 78 | 95 | 79 | 64 | 54 | 46 | 416 | 1021 | 793 | 332 |
| Nonparalytic | 627 | 26 | 22 | 19 | 11 | 13 | 11 | 102 | 248 | 384 | 169 |
| Unspecified | 317 | 17 | 23 | 20 | 14 | 8 | 3 | 85 | 103 | 204 | 88 |
| Total | 3033 | 121 | 140 | 118 | 89 | 75 | 60 | 603 | 1372 | 1381 | 589 |
| NEW ENGLAND | | | | | | | | | | | |
| Paralytic | 177 | 2 | 7 | 5 | 4 | 6 | - | 24 | 81 | 15 | 5 |
| Total | 225 | 3 | 8 | 7 | 4 | 7 | - | 29 | 98 | 15 | 8 |
| Maine | 46 | 1 | 4 | 5 | - | 3 | - | 13 | 34 | 2 | 2 |
| New Hampshire | | - | | - | - | - | - | - | . 1 | - | - |
| Vermont | 11 | - | - | - | 2 | 2 | - | 4 | 7 | 1 | - |
| Massachusetts | 31 | - | 1 | - | - | 2 | - | 3 | 34 | 4 | 2 |
| Rhode Island | 102 | _ | _ | 2 | 1 | - | - | 3 | 4 | - | . – |
| Connecticut | 35 | 2 | 3 | - | 1 | - | - | 6 | 18 | 8 | 4 |
| MIDDLE ATLANTIC | | | | | | | | | | | |
| Paralytic | 320 | 11 | 10 | 17 | 10 | 9 | 9 | 66 | 163 | 88 | 23 |
| Total | 451 | 20 | 22 | 23 | 15 | 12 | 10 | 102 | 211 | 145 | 46 |
| New York | 245 | 10 | 12 | 11 | 7 | 5 | 4 | 49 | 146 | 72 | 31 |
| New Jersey | 82 | 2 | 4 | 4 | 1 | 2 | - | 13 | 19 | 46 | 6 |
| Pennsylvania | 124 | 8 | 6 | 8 | 7 | 5 | 6 | 40 | 46 | 27 | 9 |
| EAST NORTH CENTRA | L | • | | | | | | | | | |
| Paralytic | 311 | 8 | 18 | 12 | 8 | 7 | 12 | 65 | 120 | 219 | 76 |
| Total | 518 | 16 | 26 | 23 | 16 | 12 | 13 | 106 | 217 | 532 | 177 |
| Ohio | 119 | 3 | 4 | 5 | 1 | 4 | 3 | 20 | 40 | 115 | 37 |
| Indiana | 131 | 4 | 9 | 8 | 9 | 7 | 4 | 41 | 25 | 39 | 35 |
| Illinois | 141 | 3 | 5 | 2 | 4 | 1 | 3 | 18 | 72 | 53 | 40 |
| Michigan | 92 | 4 | 8 | 5 | 1 | - | 3 | 21 | 67 | 310 | 58 |
| Wisconsin | 35 | 2 | - | 3 | 1 | | · · · · | 6 | 13 | 15 | 7 |
| WEST NOR TH CENTRA | L | | | | | | | | | | |
| Paralytic | 100 | 7 | 1 | 6 | 5 | 3 | - | 22 | 117 | 68 | 17 |
| Total | 173 | 11 | 1 2 | 7 | 6 | 4 | 2 | 32 | 176 | 106 | 28 |
| Minnesota | 54 | 2 | 1 | 3 | 1 | - , | 1 | 8 | 46 | 11 | 3 |
| Iowa | 21 | <u> </u> | - | - | - | - | - | - | 34 | 5 | 4 |
| Missouri | 44 | 3 | - | 4 | 5 | 2 | 1 | 15 | 79 | | 11 |
| North Dakota | 14 | 4 | - | - | - | - | . <u>.</u> | 4 | 4 | | - |
| South Dakota | 5 | - | , - | _ | - | 1 | - | 1 | - | 6 | 2 |
| Nebraska | 16 | 1 | 1 | - | - | 1 | - | 3 | 6 | | 3 5 |
| Kansas | 19 | 1 | - | _ | - | - | - n | 1 | 7 | 6 | 5 |

TREND OF 1960 POLIOMYELITIS INCIDENCE

* National Office of Vital Statistics: weekly figures reported by the states as of Wednesday of the specified week; cumulative figures include revisions and corrections.

| State | Cumula | Six Week | Comparable Six Weeks Totals in | | | | | | | | |
|----------------------------|--------|----------------|-----------------------------------|----------|--------------|-------|---------------|-------|--------|---------|-----------|
| and | tive | 10.10 | For We | ek End | 11 <u>-5</u> | 11 12 | 11 10 | | | 1958 | |
| Region | 1960 | 10-13 | 10-22 | 10-29 | 11-3 | 11-14 | 11-19 | IUtal | 1939 | 1930 | 1351 |
| SOUTH ATLANTIC | | | | | | | | | | | |
| Paralytic | 440 | 26 | 33 | 19 | 19 | 19 | 9 | 125 | 191 | 116 | 62 |
| Total | 570 | 27 | 41 | 22 | 24 | 23 | 13 | 150 | 221 | 189 | 95 |
| Delaware | - | _ | - | | - | - | - | - | 2 | 7 | 1 |
| Maryland | 150 | 15 | 18 | 7 | 8 | 3 | 6 | 57 | 12 | 11 | 11 |
| D.C. | 5 | 2 | | 3 | - | - | - | 5 | | - | 9 |
| Virginia | 44 | 1 | 7 | 3 | 3 | 5 | 2 | 21 | 50 | 41 | 14 |
| West Virginia | 58 | 2 | 6 | 4 | 5 | 2 | 1 | 20 | 36 | 56 | 8 |
| North Carolina | 94 | 3 | 4 | i | ĩ | 7 | i i | 17 | 64 | 13 | 18 |
| South Carolina | 129 | ž | i | 1 | 2 | i | 2 | 7 | 9 | 8 | 9 |
| Georgia | 23 | 2 | - | ī | ī | 3 | | 7 | 26 | 17 | 13 |
| Florida | 67 | 2 | 5 | 2 | 4 | 2 | ī | 16 | 22 | 36 | 12 |
| EAST SOUTH CENTR | AL | | | | | | | | | | |
| Paralytic | 100 | 3 | 7 | 7 | 1 | 1 | 6 | 25 | 97 | 65 | 21 |
| Total | 242 | 20 | 17 | 16 | 5 | 4 | 7 | 69 | 124 | 96 | 49 |
| Kentucky | 130 | 14 | 10 | 7 | 4 | 2 | - | 37 | 25 | 30 | 18 |
| Tennessee | 48 | 5 | 1 | 3 | 1 | 1 | 3 | 14 | 61 | 28 | 16 |
| Alabama | 23 | _ | 6 | _ | - | _ | 2 | 8 | 19 | 17 | 9 |
| Mississippi | 41 | 1 | - | 6 | - | 1 | 2 | 10 | 19 | 21 | 6 |
| WEST SOUTH CENTR | AL | | | | ά. | | | | | | |
| Paralytic | 176 | 11 | 5 | 3 | 4 | 6 | 5 | 34 | 71 | 115 | 47 |
| Total | 279 | 14 | 6 | 5 | 4 | 8 | 6 | 43 | 102 | 144 | 68 |
| Arkansas | 32 | 4 | - | 2 | - | 1 | - | 7 | 25 | 7 | 2 |
| Louisiana | 50 | _ | 1 | _ | 1 | _ | 1 | 3 | 17 | 13 | 17 |
| Oklahoma | 17 | 2 | - | - | ī | | ee# 📕 | 3 | 16 | 5 | 6 |
| Texas | 180 | 8 | 5 | 3 | 2 | 7 | 5 | 30 | 44 | 119 | 43 |
| MOUNTAIN | | | | | | | | | | lara Li | |
| Paralytic | 48 | 2 | 3 | - | 6 | 2 | 1 | 14 | 13 | 18 | 13 |
| Total | 92 | 2 | 5 | 4 | 7 | 2 | 4 | 24 | 27 | 42 | 22 |
| Montana | 21 | - | 2 | 2 | 1 | - | - | 5 | 4 | 5 | 2 |
| Idaho | 9 | - | 2 | | 1 | - | - | 4 | 1 | 1 | -, |
| Wyoming | 20 | 181 <u>-</u> 9 | 2 1 | 1 | 1 - C 1 - | B | 1 | 2 | 162.33 | 8 | 14 E 17 F |
| Colorado | 19 | 2 | | - | 4 | - | _ | 6 | 4 | 3 | 7 |
| New Mexico | 9 | _ | 2000 a | e | - <u>1</u> | 2 | 8 <u>-</u> | 2 | 4 | 12 | 4 |
| Arizona | 8 | _ | _ | _ | 1 | _ | 3 | 4 | 10 | 11 | 8 |
| Utah | ő | 150 | _ <u>_</u> | 1 | _ | - | - | i | 3 | 1 | ĩ |
| Nevada | - | - | - | - | - | - ' | 19 <i>1</i> 1 | - | ĩ | ī | - |
| PACIFIC | | | | | | | | | | | |
| Paralytic | 417 | 8 | 11 | 10 | 7 | 1 | 4 | 41 | 168 | 89 | 68 |
| Total | 483 | 8 | 13 | ñ | 8 | 3 | 5 | 48 | 196 | 112 | 96 |
| Alaska | 2 | _ | - | _ | _ | _ | - | - | - 8 | | _ |
| Washington | 37 | | ī | ī | ī | 1 | 1 | 5 | 58 | 12 | 6 |
| Oregon | 36 | ī | - - | i | i | 2 | - | 5 | 34 | 4 | 7 |
| California | 400 | 7 | 12 | 9 | 6 | - | 3 | 37 | 96 | 88 | 82 |
| Hawaii | 400 | 4 | 14 | 9 | 0 | _ | 1 | 1 | 90 | 8 | 1 |
| | O | - | _ | - | - | - | T | Т | | 0 | 1 |
| TERRITORIES Puerto Rico | 486 | 2 | 2 | 2 | e i | 5 | 1 | 20 | | | 3 |
| LUGLTO KTCO | 480 | 3 | 3 | 3 | 5 | 5 | T | 20 | - | 2 | 3 |

Table 1 (Continued)

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