

COMMUNICABLE DISEASE CENTER

POLIOMYELITIS

SURVEILLANCE

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PREFACE

Summarized in this report is information received from State Health Departments, university investigators, virology laboratories and other pertinent sources, domestic and foreign. Much of the information is preliminary. It is intended primarily for the use of those with responsibility for disease control activities. Anyone desiring to quote this report should contact the original investigator for confirmation and interpretation.

Contributions to the Surveillance Report are most welcome. Please address to:
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SUMMARY

The report of 23 cases, 19 paralytic, for the week ending July 21, 1962, represents the largest number of paralytic cases to be reported for any single week in 1962. Eleven of the paralytic cases, over half, were from Texas and 3 were from Oregon.

A narrative report from Texas is presented in Section 2. The majority of Texas cases continue to be reported from the Dallas area.

A report on Poliomyelitis Surveillance forms submitted to the Poliomyelitis Surveillance Unit is included in Section 3.

1. CURRENT MORBIDITY TRENDS

Twenty-three cases of poliomyelitis, 19 paralytic, were reported for the week ending July 21. During this 29th week, the incidence exceeds that reported in the comparable week of 1961 (Figure 1). Texas reported the largest proportion of cases with 15, including 11 paralytic. Oregon accounted for 3 paralytic cases, all occurring in Multnomah County. California reported 2 paralytic cases, and Illinois, Massachusetts, and New York accounted for one each.

The six-week totals for the past five years which are presented below show that the cumulative 1962 totals for the 24th through the 29th week topped those of 1961.

Six-Week Totals (24th thru 29th Week) for Past Five Years

	<u>1962</u>	<u>1961</u>	<u>1960</u>	<u>1959</u>	<u>1958</u>
Paralytic	87	52	275	693	241
Total	114	92	374	1081	495

There now have been 270 cases, 206 paralytic, reported in the United States through July 21, 1962 (see Table 1). More paralytic cases have been reported in 1962 than in 1961 to date.

Polio (Cumulated Weekly) through 29th Week for Past Five Years

	<u>1962</u>	<u>1961</u>	<u>1960</u>	<u>1959</u>	<u>1958</u>
Paralytic	206	186	528	1151	475
Total	270	288	724	1723	949

2. STATE REPORT - TEXAS

For the week ending July 21, 15 cases of poliomyelitis, 11 paralytic, were reported by Texas. Dr. Van C. Tipton, Chief, Communicable Disease Division, Texas State Department of Health, states that the 11 paralytic cases originated in 8 counties.

The Dallas area remains the most active focus of poliomyelitis in the State with Dallas County reporting 3 more paralytic cases and nearby Collin, Ellis, and Parker Counties reporting one each. Other counties reporting single cases were Harris, Nueces, Grimes and Travis. The latter two counties along with Parker and Ellis County reported paralytic cases for the first time this year.

There have now been 12 paralytic cases in Dallas County. All 12 cases have been under 10 years of age; 8 have been preschool children. A vaccination program with Type I oral vaccine is planned for Sunday, July 29. The Dallas cases are shown below by week of onset:

<u>Week Ending:</u>	<u>6/2</u>	<u>6/9</u>	<u>6/16</u>	<u>6/23</u>	<u>6/30</u>	<u>7/7</u>
Dallas County*	0	1	1	0	4	2

* Four cases with unknown onset not shown; 1 reported week ending July 14, and 3 reported week ending July 21.

Harris County (Houston), which reported its seventh paralytic case, held a vaccination program with Type I oral vaccine on Sunday, July 22. An estimated 900,000 persons received the vaccine in Harris County and a similar program in nearby Brazoria, Matagorda, and Montgomery Counties reached about 125,000 persons.

3. 1962 POLIOMYELITIS REPORTED TO PSU

Of the 206 cases of paralytic poliomyelitis reported through the week ending July 21, 184 had onset in 1962. Twenty-two cases represent delayed reports with onsets of illness in 1961.

To date in 1962, there have been 66 poliovirus isolates reported from the 184 paralytic cases. Of these, 56 are Type I, and 10 are Type III poliovirus. Texas has accounted for more than half of the isolates which have been reported. The isolates have been reported from the following States:

State	Poliovirus			Total
	I	II	III	
Alabama	1	0	0	1
Arizona	2	0	0	2
Arkansas	0	0	1	1
California	0	0	1	1
Georgia	0	0	1	1
Illinois	2	0	0	2
Kentucky	2	0	1	3
Louisiana	2	0	0	2
Massachusetts	2	0	0	2
Minnesota	2	0	0	2
Montana	1	0	0	1
New York	4	0	0	4
Ohio	0	0	2	2
Oregon	0	0	3	3
Texas	36	0	1	37
Utah	1	0	0	1
Wyoming	1	0	0	1
TOTAL	56	0	10	66

The Poliomyelitis Surveillance Unit has received individual case forms on 149 of the 184 paralytic cases with onset in 1962. The vaccination status of the 149 paralytic cases by age group is shown below. Sixty (73 percent) of the 82 paralytic cases with known vaccination history in the 0-4 age group have been unvaccinated.

**Paralytic Poliomyelitis by Age Group
And Vaccination History Reported on PSU Forms
(Through July 23, 1962)**

Age Group	Doses of Inactivated Vaccine					Total	Percent
	OV	1-2V	3V	4+V	Unk.		
0-4	60	16	2	4	1	83	55.7
5-9	11	3	3	6	1	24	16.1
10-14	6	0	5	0	0	11	7.4
15-19	3	0	3	1	0	7	4.7
20-29	7	3	1	1	1	13	8.7
30-39	5	0	0	0	1	6	4.0
40+	5	0	0	0	0	5	3.4
TOTAL	97	22	14	12	4	149	100.0
PERCENT DOSES	66.9	15.2	9.7	8.3	-	100.0	

4. ROUTINE POLIOMYELITIS SURVEILLANCE - 1962

A. Cases with Onset Within 30 Days of Vaccine (Inactivated)

During the week ending July 21, there have been no poliomyelitis cases with onset within 30 days of vaccination with inactivated vaccine reported to the Poliomyelitis Surveillance Unit.

The total number of under-30-day cases still remains at 8 including 5 paralytic.

B. Cases with Onset Within 30 Days of Vaccine (Oral)

Three delayed reports of under-30-day paralytic cases (OPV) were submitted to the Poliomyelitis Surveillance Unit during the week ending July 21. All 3 cases were from Multnomah County, (Portland) Oregon, where mass community oral vaccine programs have been undertaken. Type I vaccine was administered on March 31, and April 1, Type III vaccine on April 28, and Type II vaccine approximately one month later. In the Portland area, approximately 400,000 persons participated from an estimated total group of 600,000 eligibles. All age groups participated. Details concerning these cases are shown below:

County	Age	Sex	Onset	Date Fed	Type Fed	Onset Interval	Poliovirus Isolated	Mfr. No.	Lot
Multnomah	11	F	5-7	4-28	III	9 days	III	Pf.	*
Multnomah	39	M	5-22	4-28	III	24 days	III	Pf.	*
Multnomah	6	M	5-25	4-28	III	27 days	III	Pf.	*

* 203-1148-2

Two previous under-30-day (OPV) paralytic cases have been reported from Oregon (See PSU Report Nos. 257 and 262).

To date in 1962, there have been 15 under-30-day cases, 14 paralytic, reported.

Age Group	1-4	5-9	10-14	15-19	20-29	30-39	40+	TOTAL
Paralytic	1	1	1	1	1	1	1	7
Non-paralytic	1	1	1	1	1	1	1	7
Total	2	2	2	2	2	2	2	14
Percent	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001

100.0 0.001 0.001 0.001 0.001 0.001 0.001 0.001 100.0

Figure 1
CURRENT U.S. POLIO INCIDENCE
COMPARED WITH YEARS 1957, 1959, and 1961
APRIL-AUGUST, BY WEEK

DATA PROVIDED BY NATIONAL OFFICE OF VITAL STATISTICS
 AND COMMUNICABLE DISEASE CENTER

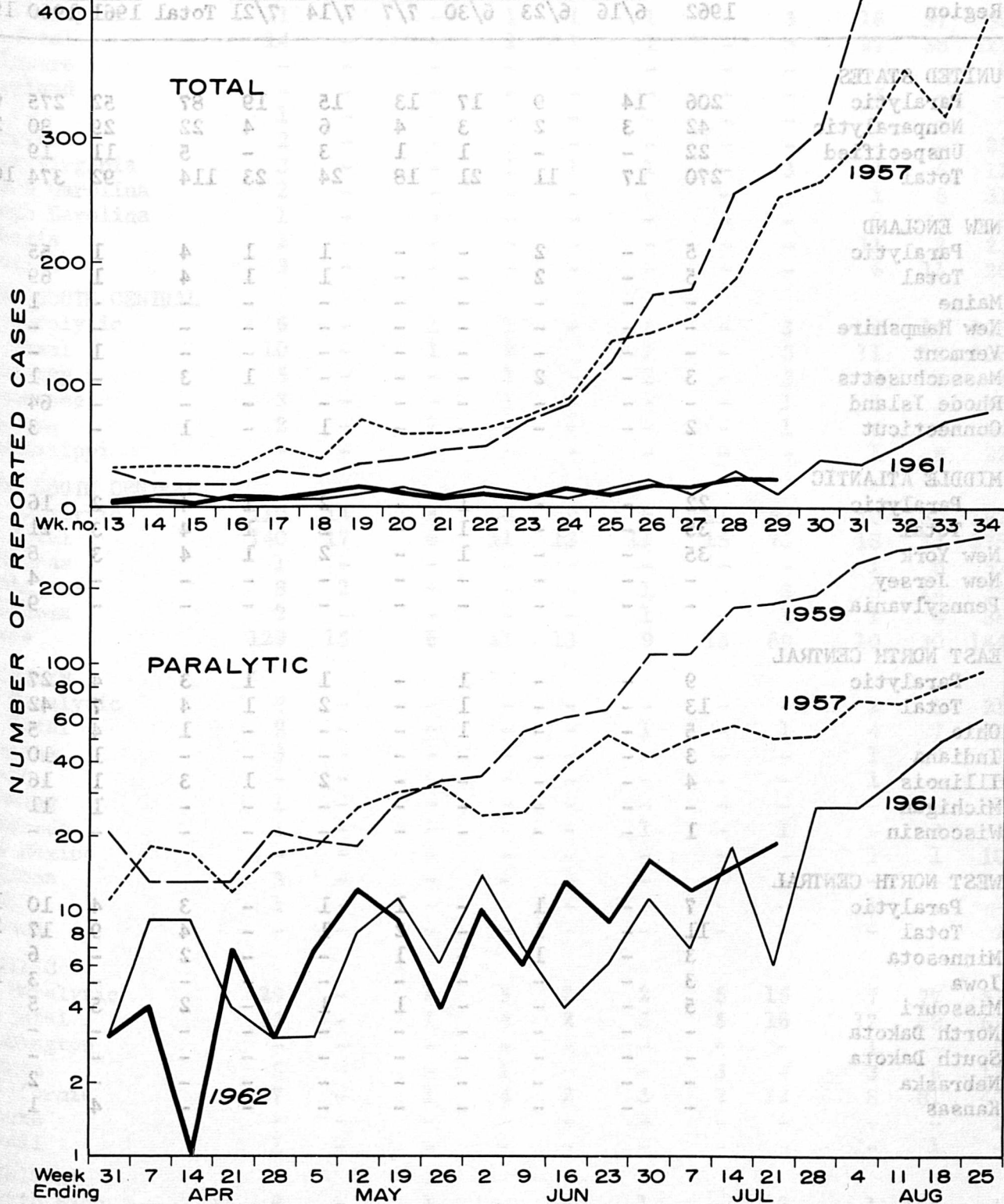


TABLE I
TREND OF 1962 POLIOMYELITIS INCIDENCE

State and Region	Cumula- tive 1962	Cases Reported to CDC For Week Ending						Six Week Total	Comparable Six Weeks Totals in		
		6/16	6/23	6/30	7/7	7/14	7/21		1961	1960	1959
UNITED STATES											
Paralytic	206	14	9	17	13	15	19	87	52	275	693
Nonparalytic	42	3	2	3	4	6	4	22	29	80	289
Unspecified	22	-	-	1	1	3	-	5	11	19	99
Total	270	17	11	21	18	24	23	114	92	374	1081
NEW ENGLAND											
Paralytic	5	-	2	-	-	1	1	4	1	55	7
Total	5	-	2	-	-	1	1	4	1	69	9
Maine	-	-	-	-	-	-	-	-	-	1	-
New Hampshire	-	-	-	-	-	-	-	-	-	-	-
Vermont	-	-	-	-	-	-	-	-	1	-	-
Massachusetts	3	-	2	-	-	-	1	3	-	1	4
Rhode Island	-	-	-	-	-	-	-	-	-	64	-
Connecticut	2	-	-	-	-	1	-	1	-	3	5
MIDDLE ATLANTIC											
Paralytic	22	-	-	1	-	2	1	4	2	16	36
Total	35	-	-	1	-	2	1	4	3	21	49
New York	35	-	-	1	-	2	1	4	3	8	31
New Jersey	-	-	-	-	-	-	-	-	-	4	8
Pennsylvania	-	-	-	-	-	-	-	-	-	9	10
EAST NORTH CENTRAL											
Paralytic	9	-	-	1	-	1	1	3	4	27	43
Total	13	-	-	1	-	2	1	4	7	42	95
Ohio	5	-	-	1	-	-	-	1	4	5	34
Indiana	3	-	-	-	-	-	-	-	1	10	14
Illinois	4	-	-	-	-	2	1	3	1	16	17
Michigan	-	-	-	-	-	-	-	-	1	11	27
Wisconsin	1	-	-	-	-	-	-	-	-	-	3
WEST NORTH CENTRAL											
Paralytic	7	-	1	-	1	1	-	3	4	10	152
Total	11	-	1	-	2	1	-	4	9	17	292
Minnesota	3	-	1	-	1	-	-	2	-	6	15
Iowa	3	-	-	-	-	-	-	-	-	3	126
Missouri	5	-	-	-	1	1	-	2	5	5	81
North Dakota	-	-	-	-	-	-	-	-	-	-	-
South Dakota	-	-	-	-	-	-	-	-	-	-	1
Nebraska	-	-	-	-	-	-	-	-	-	2	38
Kansas	-	-	-	-	-	-	-	-	4	1	31

TABLE I (Continued)

State and Region	Cumula- tive 1962	Cases Reported to CDC For Week Ending						Six Week Total	Comparable Six Weeks Totals in		
		6/16	6/23	6/30	7/7	7/14	7/21		1961	1960	1959
SOUTH ATLANTIC											
Paralytic	11	-	-	1	1	1	-	3	16	37	92
Total	14	-	-	1	1	1	-	3	27	58	127
Delaware	-	-	-	-	-	-	-	-	-	-	2
Maryland	-	-	-	-	-	-	-	-	3	-	-
D. C.	1	-	-	-	-	-	-	-	-	-	-
Virginia	2	-	-	-	-	-	-	-	-	-	25
West Virginia	3	-	-	1	1	1	-	3	4	6	11
North Carolina	2	-	-	-	-	-	-	-	1	6	31
South Carolina	1	-	-	-	-	-	-	-	2	33	9
Georgia	2	-	-	-	-	-	-	-	11	2	23
Florida	3	-	-	-	-	-	-	-	6	11	26
EAST SOUTH CENTRAL											
Paralytic	6	-	1	1	-	1	-	3	6	17	103
Total	10	-	1	2	-	2	-	5	11	18	126
Kentucky	5	-	-	1	-	2	-	3	2	1	4
Tennessee	3	-	-	1	-	-	-	1	4	3	36
Alabama	2	-	1	-	-	-	-	1	4	6	64
Mississippi	-	-	-	-	-	-	-	-	1	8	22
WEST SOUTH CENTRAL											
Paralytic	110	14	4	8	9	6	11	52	10	30	182
Total	140	17	6	11	13	11	15	73	18	54	278
Arkansas	1	-	-	-	-	-	-	-	1	6	57
Louisiana	8	2	-	-	-	1	-	3	6	14	39
Oklahoma	2	-	-	-	-	1	-	1	1	4	38
Texas	129	15	6	11	13	9	15	69	10	30	144
MOUNTAIN											
Paralytic	7	-	-	-	-	-	-	-	2	6	21
Total	9	-	-	-	-	1	-	1	4	7	40
Montana	3	-	-	-	-	-	-	-	1	3	1
Idaho	-	-	-	-	-	-	-	-	1	-	5
Wyoming	1	-	-	-	-	-	-	-	-	-	1
Colorado	1	-	-	-	-	1	-	1	-	3	4
New Mexico	-	-	-	-	-	-	-	-	1	1	10
Arizona	3	-	-	-	-	-	-	-	-	-	17
Utah	1	-	-	-	-	-	-	-	1	-	-
Nevada	-	-	-	-	-	-	-	-	-	-	2
PACIFIC											
Paralytic	29	-	1	5	2	2	5	15	7	77	57
Total	33	-	1	5	2	3	5	16	12	88	65
Washington	-	-	-	-	-	-	-	-	1	-	9
Oregon	5	-	-	1	-	-	3	4	3	6	15
California	27	-	1	4	2	3	2	12	8	81	40
Alaska	-	-	-	-	-	-	-	-	-	-	1
Hawaii	1	-	-	-	-	-	-	-	-	1	-
TERRITORY											
Puerto Rico	8	-	1	-	-	1	-	2	1	165	-

TABLE I (Continued)