

COMMUNICABLE DISEASE CENTER

POLIOMYELITIS

SURVEILLANCE

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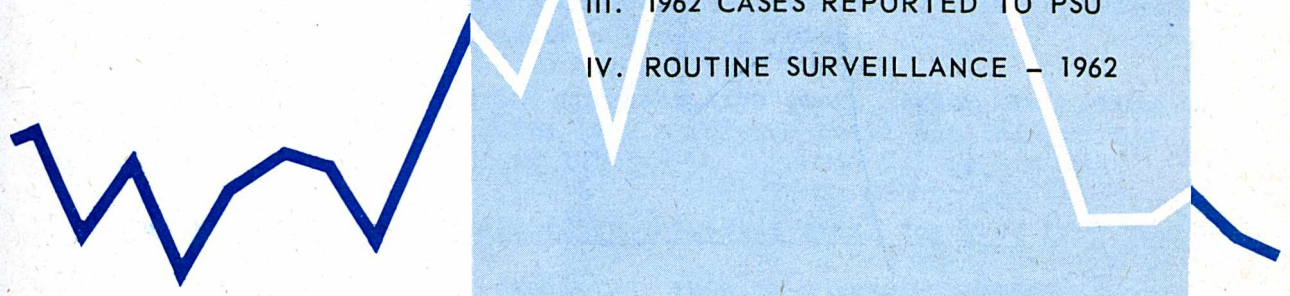


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PREFACE

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

Thirty-one cases of poliomyelitis, 24 paralytic, were reported for the 31st week of the year ending August 4. Consistent with an expected seasonal increase, this represents the largest number of cases to be reported for any one week in 1962.

Of the 31 cases this week, 10 were from Texas and 5 from Illinois. The remaining 16 cases were reported by 11 States, none of which reported more than two cases. Narrative reports concerning Texas and Illinois are included in Section 2.

A summary of 1962 cases submitted on individual case forms and routine surveillance are presented in Sections 3 and 4.

1. CURRENT MORBIDITY TRENDS

Thirty-one cases of poliomyelitis, 24 paralytic, were reported for the week ending August 4, while the preceding week accounted for 19 cases, 16 paralytic (See Figure 1). Thus, during the two-week period ending August 4, 40 paralytic cases were reported. The same two weeks in 1961 showed a total of 53 paralytic cases.

During the last two weeks, Texas reported the largest proportion of cases with 17, including 15 paralytic. A detailed description of the current situation in that State will be given in Section 2. Illinois reported 6 cases during this two-week period. California and Kentucky accounted for 3 each with no geographic concentration. Sixteen other States contributed to the nation's two-week total.

The six-week totals for the past five years, which are presented below, show that the cumulative 1962 paralytic total for this period exceeded that of 1961.

Six-Week Totals (26th thru 31st Week) for Past Five Years

	<u>1962</u>	<u>1961</u>	<u>1960</u>	<u>1959</u>	<u>1958</u>
Paralytic	107	95	368	1015	325
Total	142	145	520	1597	679

There now have been 327 cases, 250 paralytic, reported in the United States through August 4, (See Table I). More paralytic cases have been reported in 1962 than in 1961 to date.

Polio (Cumulated Weekly) thru 31st Week for Past Five Years

	<u>1962</u>	<u>1961</u>	<u>1960</u>	<u>1959</u>	<u>1958</u>
Paralytic	250	239	680	1600	622
Total	327	362	948	2451	1254

2. STATE REPORT

A. TEXAS

Fifteen cases of paralytic poliomyelitis have been reported by Texas for the two-week period ending August 4. Dr. Van C. Tipton, Chief, Communicable Disease Division, Texas State Department of Health, reports that the 15 cases are scattered throughout the State with no concentration except for the Dallas area. Only Dallas County and nearby Parker County reported more than one paralytic case in this two-week interval.

An additional 4 paralytic cases in Dallas County bring the yearly total to 16 in that county. These cases have occurred as follows:

Week Ending:	Week of Onset								
	6/9	6/16	6/23	6/30	7/7	7/14	7/21	7/28	8/4
Dallas County*	2	1	0	4	2	1	2	0	1

* Three cases with unknown onset not shown (1 reported week ending 7/14, 1 reported week ending 7/21 and 1 reported week ending 8/4).

Since May 27, over 3 million persons have been fed Type I oral vaccine in 29 Texas counties. This includes the Dallas and North Central Texas areas which conducted programs on July 29 and August 5. Preliminary results of the vaccination programs are as follows:

Area	Date	Number Vaccinated (Estimated)
Webb and Zapata County	5/27-28	63,400
Bexar County (San Antonio)	5/31 and 6/3	602,160
Frio County	5/31 and 6/5	9,300
LaSalle County	6/4	4,100
Guadalupe County	6/6	11,900
Harris County (Houston)	7/22 and 7/29	1,137,874
Brazoria, Montgomery, and Matagorda Counties	7/22 and 7/29	125,000
Dallas County (Dallas)	7/29 and 8/5	918,220
Tarrant County (Ft. Worth)	7/29 and 8/5	485,000
17 Counties in North Central Texas	7/29 and 8/5	220,000
TOTAL		3,576,894

Ten other Texas counties, with a population of 315,000, were to hold programs on August 5.

Area	Date	Number Vaccinated (Estimated)
10 other counties	8/5	315,000
Total		3,891,894

B. Illinois

Dr. Norman J. Rose, Chief, Bureau of Epidemiology, Illinois Department of Public Health, reports that only one of the 5 cases reported this week was paralytic. Two of the 4 nonparalytic cases occurred in McLean County and 2 in Rockford County. The paralytic case was from Chicago and represented the third such case in that city this year. These 3 paralytic cases, all under 2 years of age, are listed below.

<u>Age</u>	<u>Race</u>	<u>Sex</u>	<u>Onset</u>	<u>Vaccination</u>		<u>Poliovirus Isolated</u>
				<u>IPV</u>	<u>OPV</u>	
16 mos.	W	F	6-14	?	No	Type I
18 mos.	W	M	7-?	?	No	Type III
1 yr.	?	F	7-4	?	No	Type I

3. 1962 POLIOMYELITIS REPORTED TO PSU

Of the 250 cases of paralytic poliomyelitis reported through the week ending August 4, 229 had onset in 1962. Twenty-one cases represent delayed reports with onsets of illness in 1961.

To date in 1962, there have been 83 poliovirus isolates reported from the 229 paralytic cases. Of these, 69 are Type I, and 14 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:

<u>State</u>	<u>Poliovirus</u>			<u>Total</u>
	<u>I</u>	<u>II</u>	<u>III</u>	
Alabama	1	0	0	1
Arizona	2	0	0	2
California	1	0	2	3
Colorado	1	0	0	1
Georgia	0	0	1	1
Illinois	1	0	1	2
Kentucky	3	0	2	5
Louisiana	2	0	0	2
Massachusetts	2	0	0	2
Minnesota	2	0	0	2
Mississippi	0	0	1	1
Montana	1	0	0	1
New York	4	0	0	4
Ohio	0	0	2	2
Oregon	0	0	3	3
Texas	47	0	2	49
Utah	1	0	0	1
Wyoming	1	0	0	1
TOTAL	69	0	14	83

The Poliomyelitis Surveillance Unit has received individual case forms on 177 of the 229 paralytic cases with onset in 1962. The vaccination status of the 177 paralytic cases by age group is shown below. Sixty-three (70 percent) of the 90 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 August 6, 1962)**

Age Group	Doses of Inactivated Vaccine					Total	Percent
	OV	1-2V	3V	4+V	Unk.		
0-4	63	18	4	5	7	97	54.8
5-9	12	3	5	9	2	31	17.5
10-14	7	0	5	0	0	12	6.8
15-19	3	1	3	0	0	7	4.0
20-29	8	3	1	1	2	15	8.5
30-39	5	0	0	2	1	8	4.5
40+	6	1	0	0	0	7	4.0
TOTAL	104	26	18	17	12	177	100.0
PERCENT DOSES	63.0	15.8	10.9	10.3	-	100.0	

4. ROUTINE POLIOMYELITIS SURVEILLANCE - 1962

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

During the past two weeks, there has been one paralytic case of poliomyelitis with onset within 30 days of vaccination with inactivated vaccine reported to the Poliomyelitis Surveillance Unit. This patient, a 22-month old female from Tuscaloosa County, Alabama, had been vaccinated on June 29, and had experienced first symptoms of illness on July 8. She previously had been given three doses of inactivated polio vaccine.

To date in 1962, there have been 9 under-30-day cases reported, six are paralytic.

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

Four under-30-day paralytic cases of poliomyelitis were submitted to the Poliomyelitis Surveillance Unit during the two-week period ending August 4. Two cases were reported from Ventura County, California. These two cases had received Type I oral vaccine in Frio County, Texas and moved to California prior to onset of illness (See PSU Report No. 263). Onondaga County, New York and Cuyahoga County, Ohio accounted for one case each. Details concerning these cases are shown on the following page.

<u>State</u>	<u>County</u>	<u>Age</u>	<u>Sex</u>	<u>Onset</u>	<u>Date Fed</u>	<u>Type Fed</u>	<u>Onset Interval</u>
California	Ventura	2	F	6-22	6-2	I	20 days
California	Ventura	13 mos.	M	6-26	6-2	I	24 days
New York	Onondaga	49	M	6-17	5/21-5/25	III	23-27 days
Ohio	Cuyahoga	35	M	7-18	6-24	III	24 days

To date in 1962, there have been 19 under-30-day cases, 18 paralytic, reported. Nine of these cases were fed in areas of Texas in community vaccination programs.

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

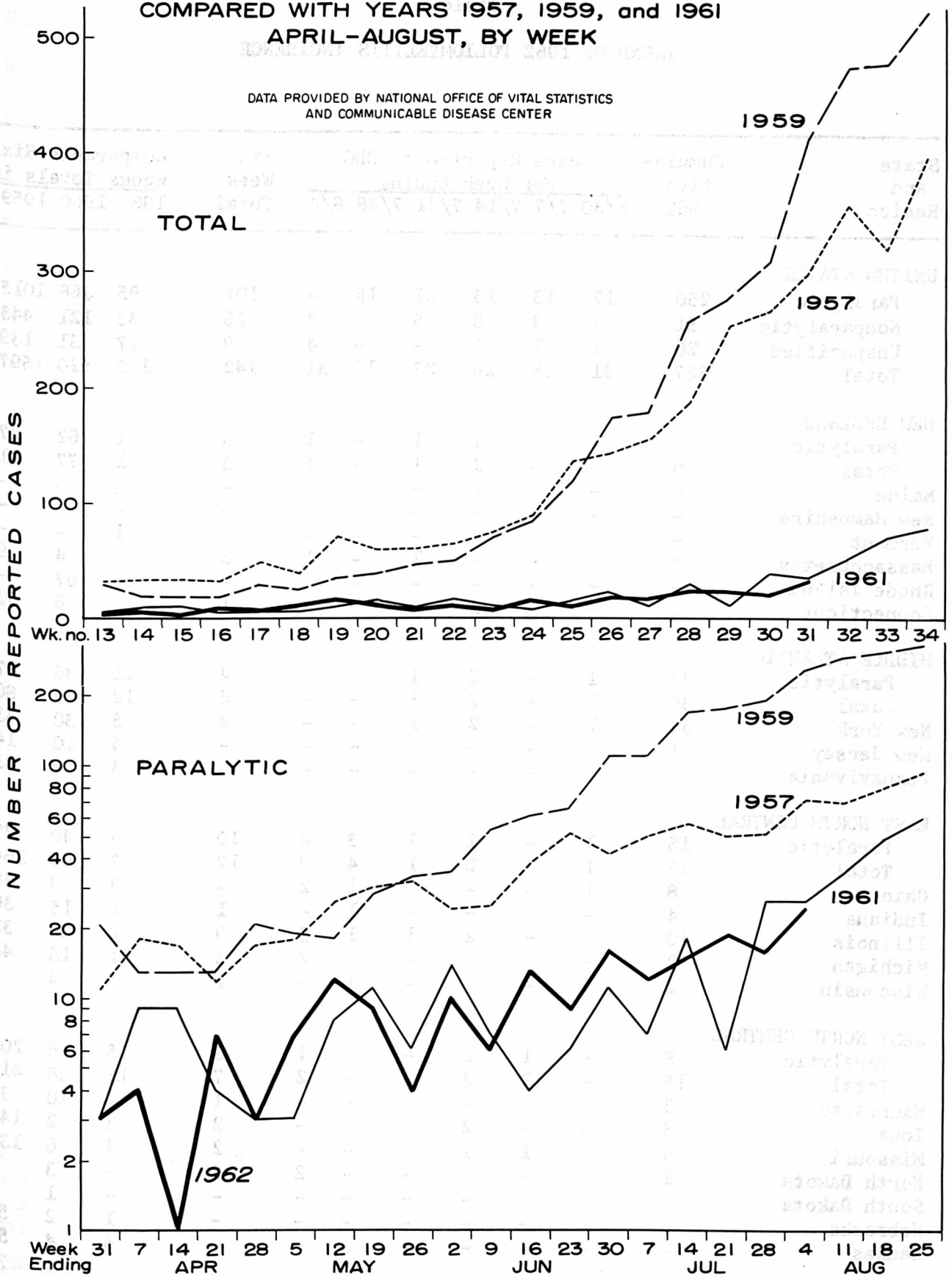


Table I

TREND OF 1962 POLIOMYELITIS INCIDENCE

State and Region	Cumulative 1962	Cases Reported to CDC For Week Ending						Six Week Total	Comparable Six Weeks Totals in		
		6/30	7/7	7/14	7/21	7/28	8/4		1961	1960	1959
UNITED STATES											
Paralytic	250	17	13	15	22	16	24	107	95	368	1015
Nonparalytic	51	3	4	8	5	3	3	26	33	121	443
Unspecified	26	1	1	3	-	-	4	9	17	31	139
Total	327	21	18	26	27	19	31	142	145	520	1597
NEW ENGLAND											
Paralytic	6	-	-	1	1	-	1	3	1	62	27
Total	6	-	-	1	1	-	1	3	1	77	41
Maine	-	-	-	-	-	-	-	-	-	-	-
New Hampshire	-	-	-	-	-	-	-	-	-	-	-
Vermont	-	-	-	-	-	-	-	-	1	-	-
Massachusetts	4	-	-	-	1	-	1	2	-	4	9
Rhode Island	-	-	-	-	-	-	-	-	-	67	-
Connecticut	2	-	-	1	-	-	-	1	-	6	32
MIDDLE ATLANTIC											
Paralytic	23	1	-	2	1	-	-	4	11	38	57
Total	36	1	-	2	1	-	-	4	12	48	80
New York	35	1	-	2	1	-	-	4	5	30	43
New Jersey	1	-	-	-	-	-	-	-	4	10	14
Pennsylvania	-	-	-	-	-	-	-	-	3	8	23
EAST NORTH CENTRAL											
Paralytic	16	1	-	1	1	3	4	10	3	40	77
Total	26	1	-	2	1	4	9	17	7	69	164
Ohio	8	1	-	-	-	1	2	4	3	9	48
Indiana	4	-	-	-	-	1	-	1	1	15	30
Illinois	10	-	-	2	1	1	5	9	2	26	32
Michigan	2	-	-	-	-	-	2	2	1	15	45
Wisconsin	2	-	-	-	-	1	-	1	-	4	9
WEST NORTH CENTRAL											
Paralytic	8	-	1	1	-	-	1	3	5	19	204
Total	15	-	2	3	-	-	2	7	12	28	419
Minnesota	3	-	1	-	-	-	-	1	-	10	30
Iowa	5	-	-	2	-	-	-	2	2	2	146
Missouri	5	-	1	1	-	-	-	2	4	6	134
North Dakota	2	-	-	-	-	-	2	2	-	3	-
South Dakota	-	-	-	-	-	-	-	-	-	1	3
Nebraska	-	-	-	-	-	-	-	-	1	2	51
Kansas	-	-	-	-	-	-	-	-	5	4	55

Table I (Continued)

State and Region	Cumulative 1962	Cases Reported to CDC For Week Ending						Six Week Total	Comparable Six Weeks Totals in		
		6/30	7/7	7/14	7/21	7/28	8/4		1961	1960	1959
SOUTH ATLANTIC											
Paralytic	14	1	1	1	-	2	1	6	28	59	155
Total	17	1	1	1	-	2	1	6	40	95	204
Delaware	-	-	-	-	-	-	-	-	-	-	1
Maryland	-	-	-	-	-	-	-	-	8	1	1
D. C.	1	-	-	-	-	-	-	-	1	-	-
Virginia	3	-	-	-	-	1	-	1	1	3	52
West Virginia	3	1	1	1	-	-	-	3	4	9	13
North Carolina	2	-	-	-	-	-	-	-	3	16	55
South Carolina	2	-	-	-	-	1	-	1	3	54	14
Georgia	2	-	-	-	-	-	-	-	10	1	35
Florida	4	-	-	-	-	-	1	1	10	11	33
EAST SOUTH CENTRAL											
Paralytic	12	1	-	1	-	4	2	8	11	24	150
Total	16	2	-	2	-	4	2	10	15	25	175
Kentucky	8	1	-	2	-	1	2	6	3	-	7
Tennessee	3	1	-	-	-	-	-	1	6	4	53
Alabama	3	-	-	-	-	1	-	1	4	7	88
Mississippi	2	-	-	-	-	2	-	2	2	14	27
WEST SOUTH CENTRAL											
Paralytic	131	8	9	6	14	6	12	55	12	46	225
Total	165	11	13	11	19	8	13	75	26	84	358
Arkansas	2	-	-	-	-	-	1	1	2	8	84
Louisiana	10	-	-	1	-	1	1	3	6	21	38
Oklahoma	3	-	-	1	-	-	1	2	2	5	56
Texas	150	11	13	9	19	7	10	69	16	50	180
MOUNTAIN											
Paralytic	8	-	-	-	-	-	1	1	7	5	24
Total	10	-	-	1	-	-	1	2	12	10	41
Montana	3	-	-	-	-	-	-	-	2	2	2
Idaho	1	-	-	-	-	-	1	1	5	-	2
Wyoming	1	-	-	-	-	-	-	-	-	3	1
Colorado	1	-	-	1	-	-	-	1	-	3	5
New Mexico	-	-	-	-	-	-	-	-	2	-	13
Arizona	3	-	-	-	-	-	-	-	2	-	16
Utah	1	-	-	-	-	-	-	-	1	2	-
Nevada	-	-	-	-	-	-	-	-	-	-	2
PACIFIC											
Paralytic	32	5	2	2	5	1	2	17	17	75	96
Total	36	5	2	3	5	1	2	18	20	84	115
Washington	-	-	-	-	-	-	-	-	4	3	18
Oregon	5	1	-	-	3	-	-	4	3	3	26
California	30	4	2	3	2	1	2	14	13	77	64
Alaska	-	-	-	-	-	-	-	-	-	-	7
Hawaii	1	-	-	-	-	-	-	-	-	1	-
TERRITORY											
Puerto Rico	8	-	-	1	-	-	-	1	1	117	-

