

COMMUNICABLE DISEASE CENTER

POLIOMYELITIS

SURVEILLANCE

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U. S. DEPARTMENT OF
HEALTH, EDUCATION, AND WELFARE
PUBLIC HEALTH SERVICE

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.

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SUMMARY

A total of 29 cases of poliomyelitis, including 25 paralytic, has been reported for the three week period ending August 3. The largest concentration occurred in Alabama, with seven cases. A detailed description of the current Alabama situation appears in Section 2.

Vaccination status of the 1963 paralytic cases as well as information on poliovirus isolations are presented in Section 3. Data on reported cases of polio occurring within 30 days of receiving the polio vaccines are summarized in Section 4. No cases have been reported to date during 1963 following Inactivated Polio Vaccine. Six cases have been reported during the past 3 weeks with onsets of illness within 30 days of receiving Oral Polio Vaccine; however, 5 of the cases are from the Carlisle area of Pennsylvania where there has recently been an outbreak of Type I poliomyelitis.

I. CURRENT POLIOMYELITIS MORBIDITY TRENDS

During the three week period ending August 3, 1963, there were 29 cases of poliomyelitis (25 paralytic) reported. A total of 82 cases, 65 with paralysis, was reported during the same period in 1962.

Alabama accounted for 7 of the 25 paralytic cases. No more than 3 paralytic cases have been reported by any other State during this period.

The cumulative totals for 1963 and the preceding four years are presented below. The total for the current year remains considerably lower than in any previous year.

Poliomyelitis (Cumulated Weekly) through the 31st Week for 1963 and the Past Four Years

	<u>1963</u>	<u>1962</u>	<u>1961</u>	<u>1960</u>	<u>1959</u>
Paralytic	118	254	239	680	1600
Total	142	334	362	948	2451

The six week totals for the current year and the past four years are shown in the following table. These totals are also much lower than for any previous year.

Six Week Totals (26th through 31st Week) for 1963 and the Past Four Years

	<u>1963</u>	<u>1962</u>	<u>1961</u>	<u>1960</u>	<u>1959</u>
Paralytic	55	110	95	368	1015
Total	61	148	145	520	1597

II. STATE REPORT - Alabama

Dr. W. H. Y. Smith, Director, Preventable Diseases, Alabama State Department of Public Health, reports that a total of 16 cases of paralytic poliomyelitis have occurred in Alabama through the 31st week. Seven paralytic cases have been reported from Walker County (see PSU 278). Type I poliovirus has been isolated from two of the cases as well as from a healthy sibling of one of the paralytic cases.

A mass county-wide immunization program utilizing Type I oral polio vaccine from the Communicable Disease Center epidemic reserve was conducted under the aegis of the Alabama State Health Department and the Walker County Medical Society. On Saturday, August 3, a total in excess of 44,000 persons (more than 80% of the county's 54,211 population) received the vaccine. There were twenty three vaccination centers in this rural county, and numerous community volunteer agencies contributed significantly to the success of the program. Vaccination will continue daily at the Walker County Health Clinic, where between 700 and 1000 persons received vaccine each day between August 5 and August 8.

There have been 3 paralytic cases in Jefferson County (Birmingham) which borders on Walker County on the south. Two cases have been reported from Winston County, which is adjacent to the northern part of Walker County. The remaining four cases are from Shelby, DeKalb, Baldwin and Houston Counties.

III. 1963 PARALYTIC POLIOMYELITIS REPORTED TO PSU

Of the 118 cases of paralytic poliomyelitis reported by weekly telegram through the week ending August 3, 1963, the Poliomyelitis Surveillance Unit has received individual case forms on 74. The inactivated vaccination status of the 74 paralytic cases by age group is presented below. Forty-five (63.4 percent) of the 71 cases with known vaccination history were not vaccinated. Sixteen (22.5 percent) had received 3 or more doses of inactivated vaccine.

Paralytic Poliomyelitis by Age Group and Inactivated Vaccination History Reported on PSU Forms (Through August 6, 1963)

Age Group	Doses of Inactivated Vaccine					Total	Percent
	0V	1-2V	3V	4+V	Unk.		
0-4	23	4	3	2	0	32	43.2
5-9	8	2	2	5	0	17	23.0
10-14	3	0	1	0	1	5	6.8
15-19	1	1	0	1	1	4	5.4
20-29	5	1	0	0	1	7	9.4
30-39	2	2	0	1	0	5	6.8
40+	3	0	0	1	0	4	5.4
Total	45	10	6	10	3	74	100.0
Percent							
Doses	63.4	14.1	8.4	14.1	--	100.0	

To date in 1963, the Poliomyelitis Surveillance Unit has received results of virological studies on 41 of the 74 paralytic cases. Poliovirus isolations have been reported on 29 (70.7 percent) of the 41 cases. Of these, 19 are Type I, 2 are Type II, and 8 are Type III polioviruses. The isolates have been reported from the following states.

State	Poliovirus Isolations			Total
	I	II	III	
California	0	0	2	2
Florida	1	0	1	2
Idaho	1	0	0	1
Indiana	1	0	0	1
Louisiana	2	0	2	4
Michigan	1	0	0	1
New York	0	1	0	1
Ohio	0	0	1	1
Pennsylvania*	9	0	0	9
Tennessee	1	0	0	1
Texas	0	0	1	1
Virginia	1	0	0	1
Washington	1	0	0	1
West Virginia	0	1	0	1
Wisconsin	1	0	1	2
TOTAL	19	2	8	29

* Cases from both the Carlisle area and Philadelphia. (See special state report PSU 278)

IV. ROUTINE SURVEILLANCE

A. Cases Occurring Within 30 Days Following Inactivated Vaccine

To date in 1963, there have been no reported cases of poliomyelitis occurring within 30 days following inactivated vaccine.

B. Cases Occurring Within 30 Days Following Oral Vaccine

During the three week period ending August 3, 1963, 6 cases of poliomyelitis (5 paralytic), occurring within 30 days following oral poliovaccine, were reported to the Poliomyelitis Surveillance Unit on individual case forms. Five cases from the epidemic area in Cumberland County, Pennsylvania had received Type I oral poliovaccine prior to onset. The remaining case from Montgomery County, Tennessee had taken Type III vaccine 10 days before illness occurred.

A line listing of these 6 cases appears on the following page.

<u>State</u>	<u>County</u>	<u>Age</u>	<u>Sex</u>	<u>Onset</u>	<u>Date Fed</u>	<u>Interval Days</u>	<u>Type Fed</u>	<u>Doses IPV</u>	<u>Para. Status</u>
Pennsylvania	Cumberland	9	M	6-23	6-22	1	I	0	P
Pennsylvania	Cumberland	4	F	6-27	6-22	5	I	4	P
Pennsylvania	Cumberland	6	F	6-29	6-22	7	I	0	P
Pennsylvania	Cumberland	4	M	6-26	6-22	4	I	0	NP
Pennsylvania	Cumberland	4	F	7-2	6-22	12	I	0	P
Tennessee	Montgomery	11/12	M	6-16	6-6	10	III	0	P

Thus far in 1963, individual case forms have been received on 16 cases of poliomyelitis (15 paralytic) with onsets following within 30 days of oral poliovaccine administration.

Fig. 1

**CURRENT U.S. POLIO INCIDENCE
Compared with 1958, 1960, and 1962**

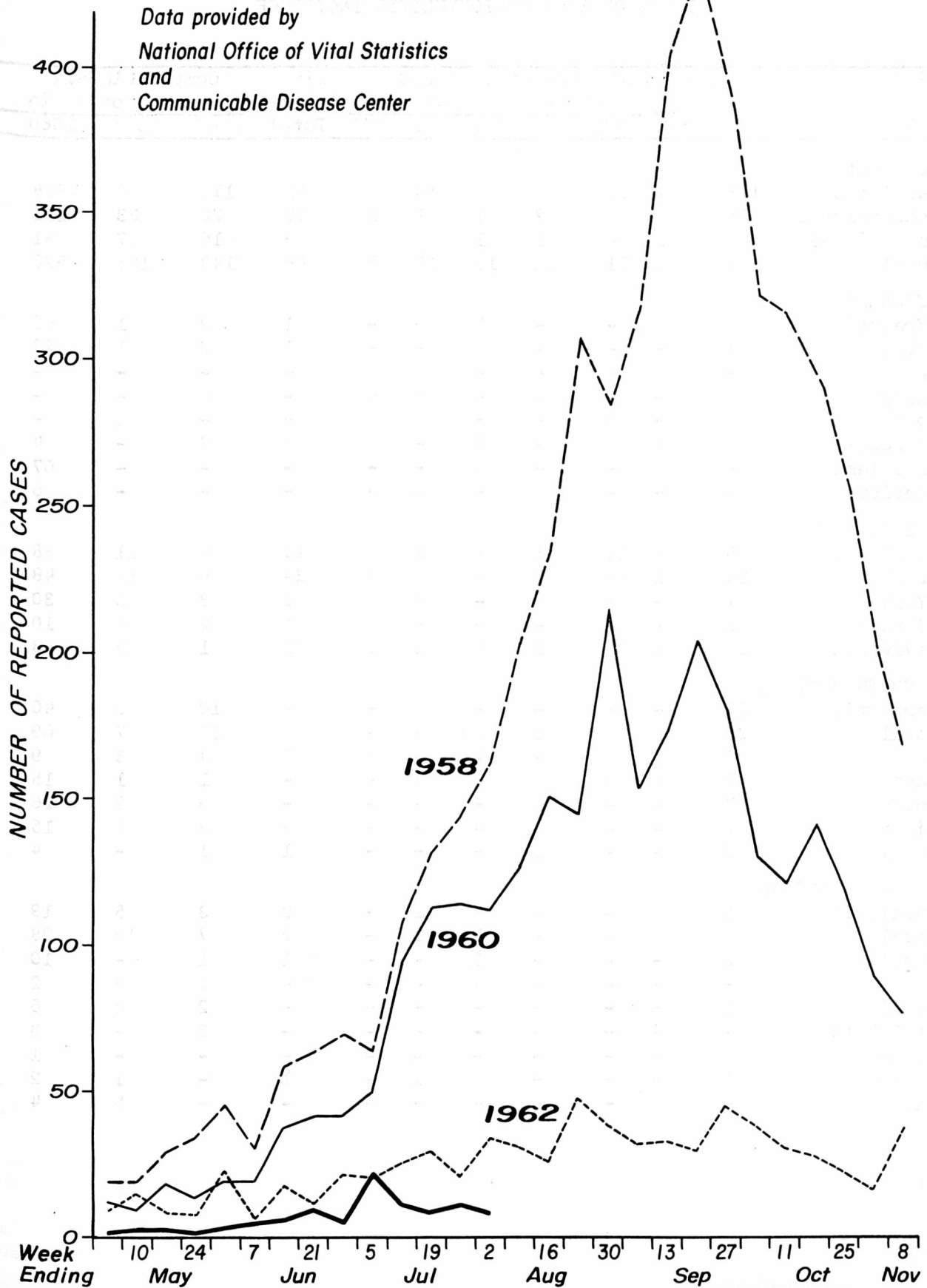


Table 1

TREND OF 1963 POLIOMYELITIS INCIDENCE

[illegible]

Table 1 (Continued)

State and Region	Cumulative 1963	Cases Reported to CDC for Week Ending:						Six Week Total	Comparable Six Weeks Totals in		
		6/29	7/6	7/13	7/20	7/27	8/3		1962	1961	1960
SOUTH ATLANTIC											
Paralytic	15	2	-	1	2	2	1	8	6	28	59
Total	18	3	-	1	2	2	1	9	8	40	95
Delaware	-	-	-	-	-	-	-	-	-	-	-
Maryland	-	-	-	-	-	-	-	-	-	8	1
D.C.	-	-	-	-	-	-	-	-	-	1	-
Virginia	2	-	-	-	-	-	-	-	1	1	3
West Virginia	1	-	-	-	-	-	-	-	3	4	9
North Carolina	3	1	-	-	-	-	-	1	-	3	16
South Carolina	3	2	-	1	-	-	-	3	1	3	54
Georgia	4	-	-	-	-	2	1	3	-	10	1
Florida	5	-	-	-	2	-	-	2	3	10	11
EAST SOUTH CENTRAL											
Paralytic	22	-	4	6	-	4	3	17	7	11	24
Total	24	-	5	6	-	4	3	18	10	15	25
Kentucky	-	-	-	-	-	-	-	-	7	3	-
Tennessee	4	-	-	2	-	-	-	2	1	6	4
Alabama	18	-	5	3	-	4	3	15	1	4	7
Mississippi	2	-	-	1	-	-	-	1	1	2	14
WEST SOUTH CENTRAL											
Paralytic	20	-	-	-	3	-	1	4	58	12	46
Total	20	-	-	-	3	-	1	4	78	26	84
Arkansas	2	-	-	-	-	-	1	1	1	2	8
Louisiana	14	-	-	-	1	-	-	1	3	6	21
Oklahoma	-	-	-	-	-	-	-	-	2	2	5
Texas	4	-	-	-	2	-	-	2	72	16	50
MOUNTAIN											
Paralytic	-	-	-	-	-	-	-	-	1	7	5
Total	-	-	-	-	-	-	-	-	2	12	10
Montana	-	-	-	-	-	-	-	-	-	2	2
Idaho	-	-	-	-	-	-	-	-	1	5	-
Wyoming	-	-	-	-	-	-	-	-	-	-	3
Colorado	-	-	-	-	-	-	-	-	1	-	3
New Mexico	-	-	-	-	-	-	-	-	-	2	-
Arizona	-	-	-	-	-	-	-	-	-	2	-
Utah	-	-	-	-	-	-	-	-	-	1	2
Nevada	-	-	-	-	-	-	-	-	-	-	-
PACIFIC											
Paralytic	14	-	1	-	-	2	-	3	17	17	75
Total	16	-	1	1	-	2	-	4	18	20	84
Washington	-	-	-	-	-	-	-	-	-	4	3
Oregon	2	-	-	1	-	-	-	1	4	3	3
California	14	-	1	-	-	2	-	3	14	13	77
Alaska	-	-	-	-	-	-	-	-	-	-	-
Hawaii	-	-	-	-	-	-	-	-	-	-	1
TERRITORY											
Puerto Rico	4	-	-	-	-	-	-	-	2	1	117

