COMMUNICABLE DISEASE CENTER

POLIOMYELITIS

SURVEILLANCE

TABLE OF CONTENTS

SUMMARY

- I. CURRENT POLIOMYELITIS MORBIDITY TRENDS
- II. STATE REPORTS
- III. 1963 PARALYTIC POLIOMYELITIS
 REPORTED TO PSU
- IV. ROUTINE SURVEILLANCE
- V. ENTEROVIRUS SURVEILLANCE
- VI. MASS ORAL POLIOMYELITIS VACCINE PROGRAMS

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.

Contributions to the Surveillance Report are most welcome. Please address to: Chief, Poliomyelitis Surveillance Unit, Communicable Disease Center, Atlanta, Georgia 30333

Communicable Disease Center

Epidemiology Branch

Statistics Section

Surveillance Section

Poliomyelitis Surveillance Unit

James L. Goddard, M.D., Chief

Alexander D. Langmuir, M.D., Chief

Robert E. Serfling, Ph.D., Chief

Donald A. Henderson, M.D., Chief Leo Morris, B.S., M.P.H., Statistician

John J. Witte, M.D., Chief Pierce Gardner, M.D.

Polio (Cumulated Weekly) through 92nd Week for Past Five VeyRAMMUS

A total of 96 cases of poliomyelitis, 80 paralytic, have been reported during the six week period ending October 19, 1963. The largest concentration of cases occurred in Pennsylvania (24) and Virginia (16). The only other States reporting more than 4 cases were Michigan (11), Alabama (9) and Georgia (8). State reports from Virginia, Michigan, Alabama and Georgia are presented in Section II.

Data on age and vaccination status for 1963 cases of paralytic poliomyelitis are included in Section III. Sixty-four percent of the cases with known vaccination status have never received any inactivated vaccine.

In Section IV, a summary of poliomyelitis cases occurring within 30 days of vaccine administration is presented. A tabulation of the 247 non-polio enterovirus isolates reported to the Polio Surveillance Unit thus far in 1963 is included in Section V. A high proportion of Coxsackie B₁ isolates have been reported.

Estimates of the amount of oral polio vaccine administered during known community-wide programs are also included in this report. To date, 48 million doses of Type I, 34 million doses of Type II and 30 million doses of Type III oral vaccine are known to have been administered.

during the six-week period ending October 12, 1963, by

I. CURRENT POLIOMYELITIS MORBIDITY TRENDS of classical to use and address to the state of the st

During the six-week period ending October 19, 1963, a total of 96 cases of poliomyelitis (80 paralytic) were reported. There were 198 cases reported during the same period in 1962.

The largest number of cases, 24, was reported from Pennsylvania. These cases were primarily from the metropolitan Philadelphia area where a mass community immunization campaign utilizing Type I oral poliomyelitis vaccine was carried out on September 22, and September 29, (see P.S.U. Report No. 280). Through October 19, 61 cases, including 48 paralytic, have been reported from the metropolitan Philadelphia area.

Sixteen cases were reported from Virginia and represent a localized outbreak in the Petersburg area, which is described in Section II. The only other States reporting more than 4 cases during this sixweek period were Michigan (11), Alabama (9), and Georgia (8). Reports from these States are included in Section II of this report.

The cumulative totals for 1963 and the preceding four years are presented on the following page. The total for the current year remains considerably below any previous year.

Polio (Cumulated Weekly) through 42nd Week for Past Five Years 1902

aralytic, have bee		1962	-	<u>1960</u> 1	1959
Paralytic Paralytic	285				4704
Total Total	336	702	1086		7199

The six-week totals for the current year and the past four years, presented in the following table, also reveals that current incidence is lower than in previous years.

Six-Week Totals (37th thru 42nd Week) for Past Five Years

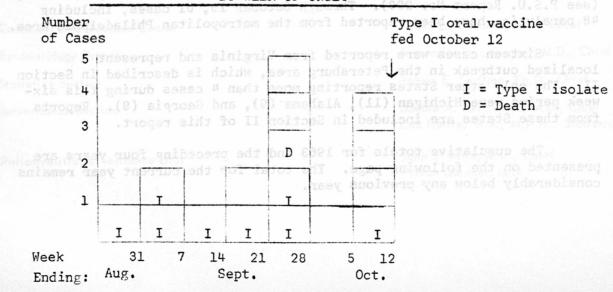
ases occurring wir tabulation of the Polic Surveilland	1963	1962	1961	1960	30 days 9291 a
Paralytic	A 80	161	5950 246 ak	650	Unit th 7821r Coreackie b,
Total	96	198	404	945	2248

II. STATE REPORTS and ni bebuloni cala era smargor più y inumuno nwomi

A. Virginia - A total of 16 cases (14 paralytic) of poliomyelitis, including one death, was reported from the Petersburg, Virginia area during the six-week period ending October 12, 1963, by Dr. James B. Kenley, Director, Bureau of Epidemiology, Virginia State Department of Health. This area had had no reported cases during the preceding four years.

Following the initial case with onset on August 28, 3 cases occurred during the first half of September. During the last two weeks of September and first two weeks of October, 12 additional cases occurred as shown on the following histogram.

POLIOMYELITIS IN PETERSBURG, VIRGINIA AREA - 1963
BY WEEK OF ONSET



A tabulation of the cases by age and inactivated vaccine status appears below. Thirteen of the sixteen cases were unvaccinated, 2 had received one dose of IPV and one case received single doses of IPV in 1956, 1957, 1959 and 1961. All cases occurred in Negroes, although this group comprises only 50% of the population. Ten of the 16 cases were among school children, 3 were pre-school age and 3, including the death, were 20 years of age or older.

POLIOMYELITIS	BY	AGE	AND	INACTIVATED	VACCINE	STATUS**
O PET	ERS	BURG	VII	RGINIA AREA.	1963	Peters

days b	a dec		12.63%	0.08083	zema lila	inad to pre-with:	
Age		OV 9	1-2V	<u>3V</u>	<u>4+V</u>	Total	
0-4		2 94	1.1	V 0	80	grudstersburg	100
5-9	9-25	3*	0	0	0	Reteraburg	
10-19		5* gM	1	0		.i. T etërsburg	
20+		3 q	0	0	3.0	8etersburg	
TOTAL	85-6	13	2	0	13	oibbiwaid 16	. !

^{*}Includes one non-paralytic case.

It is interesting to note the low proportion of paralytic cases in pre-school age children, 21.5% (3/14), as compared to the national average of 51.3%. A similar distribution was noted in the 1961 poliomyelitis outbreak in Newberry County, South Carolina (see P.S.U. Report No. 243) where 18 of the 21 cases reported were among Negroes and only 23.5% (4/17) of the paralytic cases were in pre-school age children.

Because of the unusual incidence of poliomyelitis cases in the Petersburg area, a mass community program utilizing Type I monovalent oral poliomyelitis vaccine from the Communicable Disease Center epidemic reserve was carried out on October 12. Although enough vaccine was provided for the 80,000 people in the Petersburg area, the demand for vaccine from those coming to the clinics from surrounding areas was such that the vaccine supply was quickly exhausted. Additional vaccine from CDC's epidemic reserve was made available and on October 16, approximately 23,000 more people received the vaccine. No new cases of poliomyelitis have been reported from the Petersburg area since October 12. A line listing of the 16 cases is shown on the following page.

^{**}None of these cases are known to have received oral polio vaccine.

Butsta POLIOMYELITIS CASES IN PETERSBURG, VIRGINIA AREA, 1963

Case	Initial	single doses de Location La Maria Location La	Age	Race	Sex	Status	Onset	IPV	Isolation
1		Petersburg		en Me	94 E .	ne Piline	9-70108	grom	s orlow
2	R.M.	Petersburg	10	N	F	ge to en	8-28	0	I I
3	A.P.	Petersburg				PETI q ise		0	I
4	J.H. <u>1</u>	Chester	V- 17	<u>v</u> n	1- M V	P VO	9-3	1 9A	I
5	P.G.	Petersburg	0 9	0 N	F	NP S	9-16	0-0	I
6	W.B.	Petersburg	0 6	o N	M	P #8	9-25	0-3	I
7	T.M.	Petersburg	11	0 N	М	NP *d	10-8	0-01	-
8*	R.M.	Petersburg	35	0 N	F	рε	9-26	200	_
9	J.G.	Dinwiddie	13	N	M	P	9-26	0	I
10	J.B.	Dinwiddie	8	N	М	13 P paralyt	10-7	JATOT	I
11	W.D.	Dinwiddie b	v ii osa						
12	L.W.	Dinwiddie	39	N	F	P	9-29	0	-
13	isJakton	Petersburg and	128 .	IN)	M. S	hildgen	9-23	000	in_pre
14	THOOHAF.U.	Dinwiddie	outhic	N	TOO FY TO	red Polini	9-23	tu u ai	#11evm
15	and only	Dinwiddie	ad t ur a. aen pal	te N ses rodeu s	cic M ca	tyl p ing :	10-12	(L_0/h)	No. 24 23-5%
16	novelent	Petersburg mol	am util	L PLOSE	Ti dum	mass con	B . BOT	burg &	Peters

provided for noitarenegability and roinstand bework yaqotusd- 8-01 no beid * vaccine from those coming to the clinics from surrounding areas was such that the vaccine supply was quickly exhausted. Additional vaccine from CDC's epidemic reserve was made available and on October 18, approximately 23,000 more people received the vaccine. No new cases of poliomyelitis

reserve was carried out on October 12. Although enough vaccine was

have been reported from the Petersburg area since October 12. A line listing of the 16 cases is shown on the following page.

B. <u>Michigan</u> - Dr. George H. Agate, Director of Epidemiology, Michigan Department of Health, reports the occurrence of 7 cases of poliomyelitis, 5 with paralysis, in Grand Rapids during August and September as shown below. Type I poliovirus was isolated from stool specimens on each of the cases.

Week Ending:
$$\frac{8-10}{1}$$
 $\frac{8-17}{0}$ $\frac{8-24}{0}$ $\frac{8-31}{2}$ $\frac{9-7}{1}$ $\frac{9-14}{1}$ $\frac{9-21}{1}$ $\frac{9-28}{1}$

The cases were clustered in lower socioeconomic areas south of the business district. With the exception of a case in a 26 year old female clerk in a department store, cases were limited to pre-school age Negro children who were inadequately immunized.

A mass community program utilizing Type I oral polio vaccine from the CDC epidemic reserve was held in Grand Rapids and Kent County on September 21. Approximately 348,000 people (93.9% of the population based on the 1960 census) received the vaccine. No new cases have been reported from the Grand Rapids - Kent County area since September 23. A line listing of the 7 cases is shown below.

POLIOMYELITIS CASES IN GRAND RAPIDS, MICHIGAN, 1963

Case	Initials	Age Race	Sex	Onset	Paralytic	Status	IPV OPV	Virus Isolation
1	м.н.	2 N	М	8-10	F	É	0 0	15~19
2	¿.vL.C.	2 N	F	8-27	e F	0	0 0	20-29
3	A.T.	3 N	F	8-28	. F	εľ	0 0	I ec-08
4	D.S.	2 N	F	9-1	NF	, 0	0 0	I +0#
5 -	B.R.	26 W	F	9-10	mark to the state of the state	e encodes	3 0	I
6	0.0G.F.	2 TEIN	F	9-19	NF	21	0120 2	airor
7	D.W.	1 0.001	F	9-23	€.B €.	1,7° 12	0 I 9-21-	PERTONT

- C. Alabama Dr. W.H.Y. Smith, Director, Preventable Diseases,
 Alabama State Department of Public Health, reports a total of 9 cases
 from Alabama over the past six weeks. The cases were scattered over the
 northern part of the State, with no clustering of cases in any particular
 area. No more than 3 cases were reported during any single week in this
 period.
- D. Georgia There were 8 cases reported by Dr. W.J. Murphy, Director, Epidemiologic Investigations, Georgia Department of Public Health, over the past 4 weeks. Four of the cases with onsets of illness in late August and early September, were reported from Lowndes County (Valdosta). There was no other case concentration noted during this period.

III. 1963 PARALYTIC POLIOMYELITIS REPORTED TO THE POLIO SURVEILLANCE UNIT

Of the 285 cases of paralytic poliomyelitis reported by weekly telegram through the week ending October 19, 1963, the Poliomyelitis Surveillance Unit has received individual case forms on 187. The inactivated vaccination status of these 187 paralytic cases is presented below by age group.

One-hundred twenty (64.2 percent) of the 187 cases with known vaccination history were unvaccinated. Thirty-eight (20.3 percent) had received 3 or more doses of inactivated vaccine.

PARALYTIC POLIOMYELITIS BY AGE GROUP AND INACTIVATED VACCINATION HISTORY REPORTED ON PSU FORMS (through Oct. 19, 1963)

Age	Dose	s of I	nactiva	ated Va	ccine	us) received th	
Group	ov	1-2V	37	4+V	Unk.	<u>Total</u>	Percent
0-4	7201	, KA91	OIM 7	IIIA5	IN CRANI	MYELIPES CASES	51.3
5-9-1V	15	5	5	6	1	32	17.1
10-14	13	tus i	ric Sta	2	resido en	Age Race Sex	11.2
15-19	0 bin0	3	1	1	0.1-8	10	5.3
20-29	0 Din0	0	3	1	2	14	7.5
30-39	3	3	2	0	0	8	4.3
40+	5	0	0	1	0	6 A	3.2
I A.J	0 01-6	4416	9 4		01-6	25 H F	13 17
TOTAL	0120 0	21	22	16	e1-8	187 g	100.0
PERCENT DOSES 88	67.0	11.7	12.3	8.9	89-8	100.0	D.W.

IV. ROUTINE SURVEILLANCE

A. Cases Occurring Within 30 Days Following Inactivated Vaccine.

Alabama - Dr. W.H.Y. Smith, Director,

To date in 1963, there has been one reported case of paralytic poliomyelitis occurring within 30 days following inactivated vaccine. This patient, a 3 year old female from Monroe County, Michigan, had onset on 4-28-63 following her fourth dose of inactivated vaccine on 4-23-63.

ver the past 4 weeks. Four of the cases with onsets of illness in late uguet and early September, were reported from Loundes County (Valdosta).

B. Cases Occurring Within 30 Days Following Oral Vaccine

Through October 19, 1963, 26 cases of poliomyelitis (24 paralytic) occurring within 30 days following oral polio vaccine have been reported to the Poliomyelitis Surveillance Unit on individual case forms.

Seven (6 paralytic) of the 26 cases have been reported since the last Poliomyelitis Surveillance Unit Report (No. 280, September 20, 1963) and are summarized in the line listing below. Four cases occurred following Type I oral polio vaccine and 3 cases following Type III oral polio vaccine. The two cases in Perry County, Pennsylvania received vaccine during a mass oral polio vaccine campaign during an outbreak of poliomyelitis.

State	County	Age	Sex	Onset	Date Fed	Interval (Days)	Type Fed	Doses IPV	Paralytic Status
Maine	Kennebec	43	М	5-8-63	4-21-63	17 T	I of po	0	P dolw
Mass.	Middlesex	27	F	6-7-63	5-19-63	19	III	4	P.M.W
Minn.	Anoka	24	2 M	9-15-63	9-1-63	14 4	I	8 2 8 2	Poido
Penn.	Schuykill	30	M _a	6-8-63	5-25-63	14	III	0	mogen0 P.sq
Penn.	Perry*	12 _	M	6-24-63	6-22-63	2	I	0	S.C. Tenn. 4
Penn.	Perry*	5	M	6-23-63	6-22-63	1 1	I	o	Texas qu
Wisconsin	LaCrosse	38	F	5-4-63	4-21-63	13	III	3	Wisconsin P

^{*} Epidemic area in which mass vaccine program was carried out.

V. ENTEROVIRUS SURVEILLANCE

Thus far in 1963, the Poliomyelitis Surveillance Unit has received reports on 247 non-polio enterovirus isolations. These are tabulated by State on the following page.

It is of interest to note that the 52 Coxsackie $\rm B_1$ isolates account for 21.5% of the total. This represents a sharp increase since 1962, when only 2.4% of the non-polio enterovirus isolates were Coxsackie $\rm B_1$.

Non-Poliovirus Isolations from 1963 Specimens

Through October 19

policy (24 paralytic)

	111	. samoì eECHO (sublvibal no 1					In some Coxsackie Llaymollog en					
State	4	9	11	14	Oth	er* Ag	B ₁	B ₂	Вз	B ₅	Other**	Tota
Calif.	1125	reline	Sept	0852	ot) 7			eilla		liti	Policmy	27
conn.	2	2	cafes	112	1		ne lis			n Zini	ure summa	5 DATS 7
la.	1 1		, burko				yaccin			. 1 D		1101
daho									he gtwo	4 41		ollog 2
11.		2			ar sout	accine ca	v 140	g law	mads c	2		30
ansas		1	12		2		15					30
у.	1	7							1			9
a.				1	2		4	3			6	19
lass.	er engel	2	D9 1	married	and the same	3	Children stores	side sussequen	The State of State of		AND	- 5
ich.	2	2		1	P. F.	24-21-63	2	M 5				7
inn.			1	7	2	5						15
lo. I.M.		44				5-19-63	-7-63			XS	Middles	1
.Y.	3	4	7	1	2	88-I-8	-15-63	2	24		4 Anoka	30
hio		2					1	5 24	1			4
regon		3			44.1	FA-20-8	88-8-				Sebuyici	3
a.		1	\mathbf{H}_1		1			5			1	9
.C. enn.	1	0				6-22-63	88-48-	a M	121		Perry	1 5
exas		7			., 1	2-22-63	9	2 M	1		. 2	27
ash.		4		1		3		1			a Kalimar	10
isconsi	.n		III.	1			-4-63				LaCross	rienos <mark>l</mark>

*ECHO virus isolations as follows: Calif. - $1E_8$, $2E_{10}$, $1E_{13}$, $1E_{22}$, $2E_{31}$; Ill. - $2E_6$, $2E_8$; Kansas - $2F_6$; La. - $2E_{17}$; Minn. - $2E_5$; N.Y. - $1E_7$, $1E_{10}$; Pa. - $1E_8$; Texas - $1E_5$.

**Coxsackie virus isolations as follows: Calif. - $1A_6$; La. - $5A_2$, $1B_4$; N.Y. - $1A_2$, $2A_{23}$, $1B_4$; Pa. - $1B_4$; Texas - $2B_4$; Wash. - $1B_4$.

VI. MASS ORAL POLIOMYELITIS VACCINE PROGRAMS

The following tables on pages 10, 11 and 12 show estimated amounts of Types I, II and III oral polio vaccines administered during known mass community-wide programs from dates of licensure through September 1963. Table I shows the number of doses given by month of administration and is followed by Table II which presents vaccine usage by State.

Approximately 48 million doses of Type I, 34 million doses of Type II, and 30 million of Type III oral vaccine are known to have been administered through September 1963. The great majority of the vaccine administered during the past three months has been in epidemic areas. Over one million doses of the Type I vaccine administered in September was fed in metropolitan Philadelphia where 61 cases of poliomyelitis have occurred through October 19.

nave occurred	turough october 19.	44,550	February
	121,088	668,108	
915,246	425,230	494,656	LingA
1,675,410	265,912	5,622,714	YaY
6,082,574	407,118	2,761,487	-ing-
1,911,858	1,886,591	1,515,532	YIDI
257,439	001,040	3,173,061	
#88,38F,I	1,953,290	0.860,870	
434,106	3,284,087	8,475,661	nedožo0
178,46	986,140,6	936,781	November
191,353	6,669,893	1,531,673	
1,986,964		1,928,057	January 1965
578,878,873	128,014	673,430	rebruary
6,680,265	2,602,694	2,776,129	
2/8/0/18/15	756,569	100,01	Linca
1,047,000	8_524		
	\$\$ \$\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	97,779	
		4,342	
EAT PAR		78,220	
000,88 Emanacky		1,507,242	
422,089	1,485,122	2,078,370	Unic, bomth 1962
		078,89121	Univ. Month 1983
44,539	1,276,932	191,004,161	

VI, MASS ORAL POLIOMYELITIS VACI SIDET

ORAL POLIO VACCINE ADMINISTERED IN MASS PROGRAMS BY MONTH OF ADMINISTRATION FROM DATES OF LICENSURE THROUGH SEPTEMBER, 1963

Month	Type I	Type II	Type III
August 1961	348,684		Approximate
September			Type II, and 30 mi
October	400	40,000	administered throu
November	147,863	111,000	administered durin
December	89,835	v I eqvI edt 100	Over one million d
January 1962	1,142,920	litan Philadelphia w	was fed in metropo
February	44,550	453,170	
March	601,833	680,121	
April	494,656	425,230	915,246
May	5,622,714	265,912	1,675,410
June	2,761,487	407,118	6,082,574
July	1,515,532	1,886,591	1,911,858
August	3,173,061	649,100	257,439
September	9,860,870	1,953,290	1,435,394
October	8,475,661	3,284,037	434,106
November	936,781	9,044,986	97,871
December	1,531,673	6,669,893	191,353
January 1963	1,928,057	1,489,481	1,986,964
February	673,430	120,014	3,878,973
March	2,776,129	2,602,634	6,680,265
April	19,097	756,569	270,645
May		8,524	1,047,000
June	97,779		
July	4,342		
August	78,220		
September	1,597,242		28,000
Unk. Month 1962	2,078,370	1,485,122	422,089
Unk. Month 1963	1,185,370		2,423,736
Unk. Month 1962-63		1,276,932	44,539
TOTAL	48,220,717	33,610,124	29,783,462

LIRRENT U.S. POLIO Table II

ORAL POLIO VACCINE ADMINISTERED IN MASS PROGRAMS BY STATE FROM DATES OF LICENSURE THROUGH SEPTEMBER, 1963

Mississippi	26,000	707 000 810	TATOT O
Minnesota	1,741,758	1,346,470	853,609
Michigan	104,399,200	9(0, 22,300	100,980
Massachusetts	2,364,128	2,140,150	2,935,640
Maryland	1,109,180	01,075,949	594,778
Maine	265,162	103,066	17,603
Louisiana	200,000	S #8 200,000	100,000
Kentucky	1,661,497	01,303,399	883,018
∂Kansas ु	1,038,882	1,102,000	709,142
) Iowa	370,876	302,399	252,900
(Indiana	230,925	020 184,830	stolad 96,958
Illinois	614,464	172,543	enilone 77,052
Idaho	383,269,081	118,819,837	O Rhode Island
Hawaii	see 483,883	478,419	0 Pennsylvania
Georgia	487,958	443,570	1,190
Florida	222,543	200,941	185,346
Dist. of Col.	0 5,480,505	0 £,028,348	oldo O
Delaware	273 uu 892	0 146,832	788orth Dakota
Connecticut	799,836	0 0	62,7th Carolina
Colorado	761,106	881,743,376	745,814
California	10,103,682	9,715,637	9,882,657
Arkansas	689,845	92,106	V987 192,381
8 Arizona	a 4a 957 , 953	871 867,430	oringam 890,353
Alaska	912,72,617	18 248,391	O Mevada
Alabama	881 419,957	266,882	198,776
State	Type I	Type II	Type III

-12Table II (Continued)

State grate va a	MARDORA Type I	Type II	Type III
Missouri 8881	ROOM SEPTEMBER,	ATTO OF LICENSURE TH	O FROM D
Montana	II agyT o	O Type I	O State
Nebraska	911,356	816,133	931,422
Nevada	18 248,391	718 228,519	133,000
New Hampshire	138,178	116,645	108,498
New Jersey	001,28,100	0 689,845	o Arkansas
New Mexico	TE 578,123	\$80 543,830	sia 397,292
New York	917,158	301 181,792	779,273
North Carolina	01,142,020	0 799,836	O Connecticut
North Dakota	146,332	98 44,672	erawal 964
Ohio	6,028,548	5,480,505	5,335,407
Oklahoma	946,039	S#3 392,690	113,227
Oregon	0 443,570	0 .487,958	804,239
Pennsylvania	3,048,169	88,902	91,144
Rhode Island	678,811	180 635,686	onsbI o
South Carolina	25,550	24,083	24,365
South Dakota	609,650	0 230,925	80 10,000
Tennessee	0 302,399	0 370,876	O lowa
Texas	6,599,959	3,678,417	2,071,469
Utah 8	800,000	Z64° T99° T 0	O Kentucky
Vermont	000,00,843	0 200,000	34,522
Virginia	aa0,801,235	000,165,162	2,500
Washington	949 320,888	191,190	bas 83,000
West Virginia	081.358,393	82,012	81195mioesse600
Wisconsin	482,076	296,401	nsg192,013
Wyoming	074.079,403	887 40,362	5708-44,210
TOTAL	48,220,717	33,610,124	29,783,462

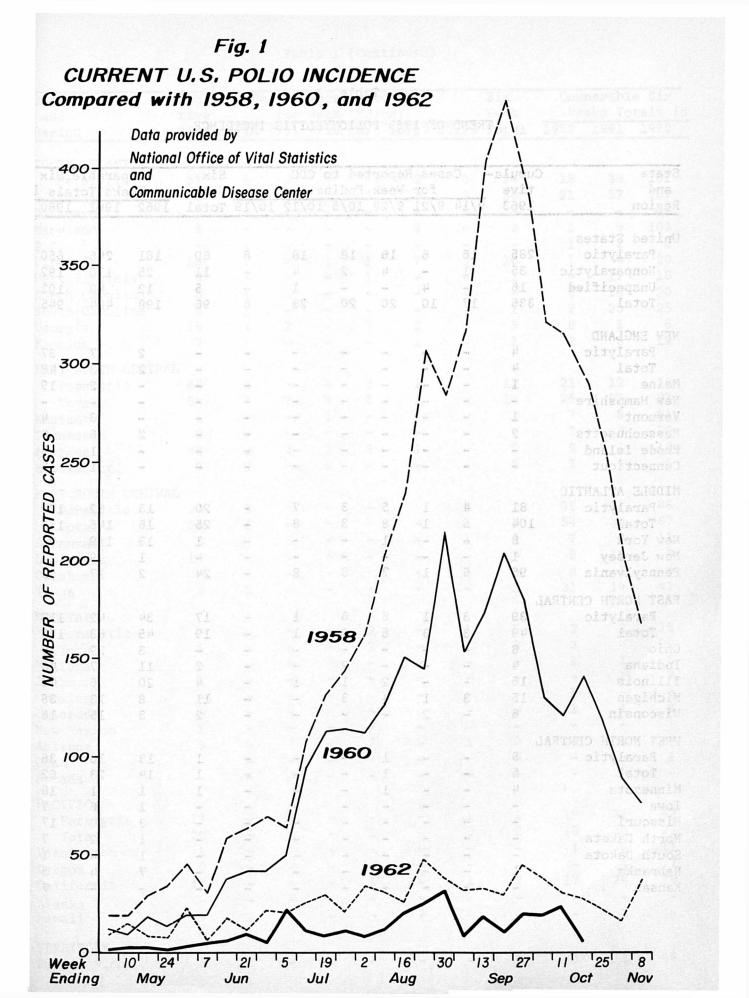


Table 1
TREND OF 1963 POLIOMYELITIS INCIDENCE

	Cumula- Cases Reported to CDC tive for Week Ending:								Comparable Six Weeks Totals in		
and Region	1963	9/14					10/19	Week Total	1962	1961	1960
NOB TON	1300	3/1.	3/21	3/20	10/0	10/12	10/13	TOTAL	1302	1301	1300
United States											
Paralytic	285	16	6	16	18	18	6	80	161	246	650
Monparalytic	35	1	-	4	2	4	-	11	25	110	192
Unspecified	16	1-	4	8.6	-	1	-	5	12	48	103
Total	336	17	10	20	20	23	6	96	198	404	945
NEW ENGLAND											
Paralytic	4	_		-	_	_		_	2	7	37
Total	4	_ \	74	_	_	_	_	_	2	13	48
Maine	i	_	1/4	ē _	_	_	_0	-	_	2	19
New Hampshire	_	-	¥ _}	_	_	_	_	_	_	_	
Vermont	1	_	184_8		_	_	4.82	_	_	3	4
Massachusetts	2	_	_ \	_	_	_	_	_	2	6	4
Rhode Island	_	- <u> </u>	:23 mi	43 <u> </u>	_	18. LB	90 , 4 <u>5</u> 7	_	_	ı	5
Connecticut	_		_	_	_	_		_		ı	16
	_	-	945, 23	ţn ¯			99,650	_	_	maja	
MIDDLE ATLANTIC			_	A _	•	_					- 01
Paralytic	81	4	1	5	3	7	-0	20	13	82	104
Total	104	5	1	8	3	8	_	25	16	145	169
New York	8	-	1 -	1	-	-	, s - 1	1	13	119	91
New Jersey	1/	-	A -	-	-	-			1	9	27
Pennsylvania	95	5	1	7	3	8	S4, 850	24	2	17	51
EAST NORTH CENTRA	L										
Paralytic	39	3	1	6	6	1	-	17	34	42	118
Total	49	3	. 3	6	6	1	-	19	45	63	178
Ohio	8	<u> 1</u>		-	-	-	-	-	3	22	38
Indiana	4	-	-	-	2	-	-	2	11	7	46
Illinois	16	-	-	2	1	1	-	Ţ i	20	6	40
Michigan	15	3	1	4	3	\	 .	11	8	13	38
Wisconsin	6	-	2	-\	-	-		2	3	15	16
WEST NORTH CENTRA	L										
Paralytic	5	-	_	1		-	_	1	13	10	36
Total	5	_	25_2	1	_	_	_ 0	1	14	23	62
Minnesota	4	_	_	1	_	1	_	1	1	1	18
Iowa	-	_	12.2		_	1	1.000	-	1	6	7
Missouri	_	_	_	_	_	4		_	3	10	17
North Dakota	_	_	120_H	3 _	_	_			1	2	7
South Dakota		- L	_	_		_1	_	1 -	1	1_0	1
Nebraska	4.7	_			1 _		N. 612	4 -4	7	4	5
											7

Table 1 (Continued)

State		Cumula- Cases Reported to CDC tive for Week Ending:							Comparable Six Weeks Totals in		
and Region	1963	0/1/1					10/19	Week	1962	1961	1960
Kegion	1300	3/14	3/21	3/20	10/3	10/12	10/13	TOTAL	1302	1301	1900
SOUTH ATLANTIC											
Paralytic	51	4	4	-	4	9	3	24	19	39	181
Total	60	4	4	1	5	13	3	30	21	57	207
Delaware	1	-	-	_	-	_	- 1		-	_	-
Maryland	3	-	_	-	_	3	-	3	1	5	103
D.C.		_	_	_	_	_	25, 24,	Salah Ho	1	2	2
Virginia	18	2	2	1	1	7	3	16	1	4	20
West Virginia	3	_		_	ī	_	A Division	i		12	19
North Carolina	3	_			_	_	The Co		6	10	20
	6		_					eas (a rea	2	20	25
South Carolina		1	2		-	-	75. 77.11	1			
Georgia	19	1	2	3.70	3	2	Dr. File	8	8	1	6
Florida	7	-	-			1	D. 7	1	2	3	12
EAST SOUTH CENTR	AL										
Paralytic	60	4	-	4	3	1	par del	12	21	12	28
Total	64	4	2	4	3	1	EAV (TYPE)	14	25	27	97
Kentucky	1	_		1	-	_	_	1	7	8	61
Tennessee	8	_	_	_	1	_		S. Marin	2	9	20
Alabama	48	2	2	1	3	1	100	9	9	1	10
		2	-	2	-	+	. De Jail	4	7	9	6
Mississippi	7	2		2			667 K. 765	erganiză Ma	Silveria	9	0
WEST SOUTH CENTR	AL										
Paralytic	24	1	-	-	-	-	1	2	39	21	48
Total	25	1	-	-	-	-	2.1	2	54	36	67
Arkansas	5	-	-	-	-		1	1	7	5	11
Louisiana	14						, Br., 5.	A. Eviden	8	16	9
Oklahoma		_		_			to bits that	y de beni	8	1	6
Texas	6	1		-	_	_	-	1	31	14	41
MOUNTAIN							-57. W	l. Dougha			
Paralytic	4	•	•	-	2	•	1	3	2	2	16
Total	5		-	-	2	•	1	3	3	4	20
Montana	•	-	-	-	-	-	-		1	1	5
Idaho	1	-	-		-	-			-	1	2
Wyoming	-	-	-	-	-	-	Die Tie		1	-	3
Colorado	_		-	-	-	-	ten 🗗	1. h 1.	1	1	8
New Mexico	1	_		-	-		1 0 K Drie	u Mirne	-	-	1
Arizona	3	-	-	_	2	_	1	3	-	1	-
Utah			_	_		_			_	_	1
Nevada			-		-	_	-	-	_	-	-
PACIFIC							Law E.	a Turk			
Paralytic	17	-	-	-	-	-	pr. 1 =	1	18	31	82
Total	20	-	-	-	1	-	1	2	18	36	97
Washington	1	_	-	-	-	-	-4	# 1. <u>4</u> 4	1	6	11
Oregon	2		_	_	-	•	-		-	4	7
California	17			_	1	-	1	2	17	24	79
		- I									
Alaska Hawaii				_			9 to 200	e = 50, 2000	-	2	
TERRITORY											
Puerto Rico	5	1					_	1	1	1	49

e Six	ldaraqa	100	Six	Contractor described	585	07 b	obrte	eA 203	150	-s.Lumui	5	19.]]
otals in												
1960	1961	1962	Total	61/0	1 2150	0/5 1	128 1	6 IC/1				
THE STATE OF THE STATE OF THE STATE OF	Karagorovico J., Korajini	econ relativistic reco		A CARLO STATE OF THE STATE OF T	ngga saking saking dan saking saki	a per settatore trackanajo	netto - dipotale accou	e ottoborosta svoj			teration and the second	
181								44				
	2.5	21										
				1000								
	Z a test	1		100								
	11		1.6									ginia
		-				1	-00			8		
	01		1.0	90	807							
		2	I	W-1								
				-01			(0.0	2				
12			I	ster		-	41.07	***				
											T.A. CHIMBERT	
			100									T SOUTH C
				-								Paralytic
				14						49		
				200		-	- I					tucky
				- San	-1							
				-								l smed
												sissippi
				. LL	1.5							
				1					1			Total
					1000	-		10.00				
			1									
				-			100					
				1	-				50			Reralytic
		8		1			30.7					
	+	I						-				
	4			7								6 ori
	7											1980ju
	ta.											
	-					-						
							-					
- Tota						-			-			
	31											Paralytic
					-							
							-					
			-					201				
												simoli
				_	-		-					

Key to all disease surveillance activities are those in each State who serve the function as State epidemiologists. Responsible for the collection, interpretation and transmission of data and epidemiological information from their individual States, the State epidemiologists perform a most vital role. Their major contributions to the evolution of this report are gratefully acknowledged.

STATE

Alabama Alaska Arizona Arkansas California Colorado Connecticut Delaware D. C. Florida Georgia Hawaii Idaho Illinois Indiana lowa Kansas Kentucky Louisiana Maine Maryland Massachusetts Michigan Minnesota Mississippi Missouri Montana Nebraska Nevada New Hampshire New Jersey New York State New York City New Mexico North Carolina North Dakota Ohio Oklahoma Oregon Pennsylvania Puerto Rico Rhode Island South Carolina South Dakota Tennessee Texas Utah Vermont Virginia

Washington

Wisconsin

Wyoming

West Virginia

NAME

Dr. W. H. Y. Smith Dr. Edwin O. Wicks Dr. Philip M. Hotchkiss Dr. Wm. L. Bunch, Jr. Dr. Philip K. Condit Dr. C. S. Mollohan Dr. James C. Hart Dr. Floyd I. Hudson Dr. William E. Lona Dr. Clarence M. Sharp Dr. W. J. Murphy Dr. James R. Enright Dr. John A. Mather Dr. Norman J. Rose Dr. A. L. Marshall, Jr. Dr. Ralph H. Heeren Dr. Don E. Wilcox Mr. J. Clifford Todd Dr. John M. Bruce Mrs. Margaret H. Oakes Dr. John H. Janney Dr. Nicholas J. Fiumara Dr. George H. Agate Dr. D. S. Fleming Dr. Durward L. Blakey Dr. E. A. Belden Dr. Mary E. Soules Dr. E. A. Rogers Dr. B. A. Winne Dr. William Prince Dr. W. J. Dougherty Dr. Robert M. Albrecht Dr. Harold T. Fuerst Dr. H. G. Doran, Jr. Dr. Jacob Koomen Mr. Kenneth Mosser Dr. Harold A. Decker Dr. F. R. Hassler Dr. Grant Skinner Dr. W. D. Schrack, Jr. Dr. Rafael A. Timothee Dr. James E. Bowes Dr. G. E. McDaniel Dr. G. J. Van Heuvelen Dr. C. B. Tucker Dr. Van C. Tipton Dr. Elton Newman Dr. Linus J. Leavens Dr. James B. Kenley Dr. E. A. Ager Dr. L. A. Dickerson Dr. Josef Preizler Dr. Helen A. Moore

to all disease specificate activities are there in case State errored to hearing as State epidemical research in the collection, interpretative and currents on at the and valdendatepied appropriate from their individual States, the State epidemic entry party of matrix talends. Then major the tree transfer as the activity of this regent are acquising actions to the available of this regent are acquising actions before legace.

Many Lawrence

3 thick is