

POLIOMYELITIS SURVEILLANCE REPORT

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REPORT NO. 243

October 20, 1961

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A preliminary report of collogina (solations from 186

- CURRENT POLIOMYELITIS MORBIDITY TRENDS
- REPORTS

This represents a sharp decrease

- 1961 POLIOMYELITIS CASES REPORTED TO PSU
- ROUTINE POLIOMYELITIS SURVEILLANCE 1961
- ENTEROVIRUS SURVEILLANCE DE LA LACE DE LACE DE LA LACE DE LACE DEL LACE DE LACE



HEALTH, EDUCATION, AND WELFARE PUBLIC HEALTH SERVICE Communicable Disease Center Clarence A. Smith, Chief Epidemiology Branch Alexander D. Langmuir, Chief Surveillance Section D. A. Henderson, Chief Atlanta 22, Georgia

SPECIAL NOTE TO STORY STREET, SALE

U. S. DEPARTMENT OF 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, 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

There has been a sharp drop in the number of poliomyelitis cases reported for the current week ending October 14. A total of 35 cases, 20 paralytic, were reported compared to the 68 cases, including 45 paralytic, which were reported during the previous week.

The decrease in cases is evident throughout the nation. Only one additional paralytic case has occurred in Newberry County, South Carolina and no new paralytic cases have occurred in Windsor County, Vermont or adjoining Sullivan County, New Hampshire. Narrative reports are included from South Carolina, New York and Pennsylvania.

A preliminary report of poliovirus isolations from 1961 cases of poliomyelitis is presented in Section 3. Also included is a current summary of enterovirus isolations in Section 5.

1. CURRENT POLIOMYELITIS MORBIDITY TRENDS

A total of 35 cases, 20 paralytic, was reported for the 41st week of 1961, ending October 14. This represents a sharp decrease compared to the 68 cases, including 45 paralytic, which were reported during the previous week. (See Figure 1.) During the corresponding week in 1960, 122 cases, including 78 paralytic, were reported.

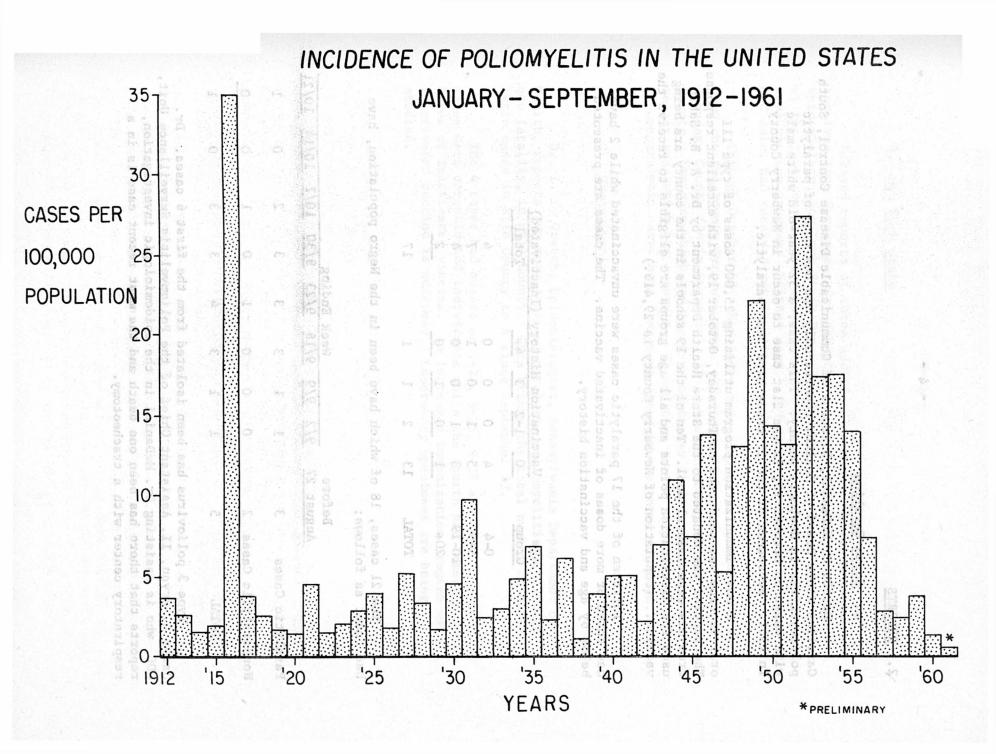
The figure on the opposite page depicts attack rates for total cases of poliomyelitis reported from January through September for each year since 1912. The current year, 1961, is the lowest year on record followed by 1938, 1960, 1922, 1920 and 1914 in that order.

The low incidence during 1961 compared to the past four years is shown in the table below. The number of paralytic cases through the 41st week in 1961 is only 37 percent of the number reported last year during the comparable period.

POLIO (CUMULATED WEEKLY) THROUGH THE 41st WEEK FOR FIVE YEARS

	1961	1960	1959	1958	<u>1957</u>
Paralytic	654	1752	4515	2156	1777
Total	1020	2840	6956	4454	5273

The current week's decrease in cases is evident throughout the nation. (See Table 1). Only New York, California and Pennsylvania reported as many as three paralytic cases. The five cases reported from Ohio are well scattered throughout the State.



2. REPORTS

A. South Carolina

Dr. G. E. McDaniel, Director of Communicable Disease Control, South Carolina State Board of Health, reports only one new case of paralytic poliomyelitis in Newberry County. This case, a 32 year-old white male with onset on October 16, is the 21st case to occur in Newberry County in 1961. Seventeen of the 21 cases have been paralytic.

A mass immunization program utilizing 25,000 doses of type III oral vaccine was conducted on Thursday, October 19, with excellent response. The vaccine was donated to the State Health Department by Dr. A. B. Sabin from his experimental pool. Ten of the 19 schools in the county are being used for distribution points and all age groups are eligible to receive the vaccine. (Population of Newberry County is 29,416.)

Thirteen of the 17 paralytic cases were unvaccinated while 2 have had three or more doses of inactivated vaccine. The cases are presented below by age and vaccination history.

Age	Vaco	inati	on H	istory	(Inactivated)
Group	0	1-2	3	4+	Total
0-4	4	0	0	0	4
5-9	5	1	0	1	7
10-19	3	1	0	0	4
20+	_1_	0	1	0	1 the <u>2</u> est
TOTAL	13	2	1	1	17

The 21 cases, 18 of which have been in the Negro population, have had onset as follows:

	Before			Week	Endin	g			
	August 27	9/2	9/9	9/16	9/23	9/30	10/7	10/14	10/21
Paralytic Cases	3	1'	1	3	3	3	2	0	1
Nonparalytic Case	es <u>2</u>	0	0	0	_1	0	1	0	_0_
TOTAL	5	1	1	3	4	3	3	0	1

Type 3 poliovirus has been isolated from the first 6 cases. Dr. James A. Bryan, II, Assistant Chief of the Poliomyelitis Surveillance Unit, CDC, who is assisting Dr. McDaniel in the epidemiologic investigation, reports that there has been one death and the most recent case is in a respiratory center with a tracheotomy.

B. New York State

Delayed reports of three additional paralytic cases have been received from Syracuse. Dr. Robert M. Albrecht, Director, Office of Epidemiology, New York State Department of Health, reports that two of the three cases were fatalities with onsets in August prior to the oral vaccine program. Neither case, a 60 year old male and a 6 year old male, had received any inactivated vaccine.

Through October 17, there have been 77 paralytic cases reported from the tri-county Syracuse area. Of these, 47 have occurred in Onondaga County (34 in Syracuse), 17 in Madison County and 13 in Oneida County. The case which had onset on September 24 is still the most recent case which has occurred. In addition to the 77 paralytic cases, 26 nonparalytic cases have been recognized in the three counties.

C. Pennsylvania

Dr. I. F. Gratch, Epidemiologist, Pennsylvania Department of Mealth, reports two more cases of paralytic poliomyelitis, including one fatality, in Erie County. This brings the total number of paralytic cases in Erie County to 4 since September 22.

The 4 cases had onsets on 9-22, 9-25, 9-28 and 10-1. Three cases were unvaccinated individuals while the fourth had received four doses of inactivated vaccine. An increased immunization program with inactivated vaccine is underway. Laboratory specimens are being studied.

	and the second second			8980	0			Age
auzoq							0	Oroug
	3.5				1			4-0
	3.5	3 €	3.6		4		6.	5-9
					ð		2	10-14
				- 5	No.	0		15-19-
16.4	3.0				4	0		20-29
\$1.5	AI				5 Q		6	30-39
							0	+04
					25		43	JATOY
								PERCENT
		•		30.2	8.41	2,4	4.88	DOSES

Preliminary data regarding the cases of poliomyelitis reported a show the number of isoletions of type 1 and type 3 policyinus to be approximately equal. Of 149 policyinus isoleticum reported, 75 were type 3 and 72 were type 1. There has been one type 2 isoletication in isoleticare shows on the following page by state.

3. 1961 POLIOMYELITIS REPORTED TO PSU

Through October 14, there have been 758 cases of poliomyelitis with onset in 1961 submitted on individual case forms to the Poliomyelitis Surveillance Unit. Of the 758 cases, 546 (72 percent) are paralytic, 183 nonparalytic and 29 unspecified as to paralytic status. These cases are presented below in Table 3 by paralytic status, age group and vaccination history.

POLIOMYELITIS CASES BY PARALYTIC STATUS, AGE GROUP
AND VACCINATION HISTORY REPORTED ON PSU FORMS
(Through October 14, 1961)

colleami	e count	thre	odd n	Par	alytic	need by	180 A5880	nonparalytic
Age				Doses	of Vac	cine		
Group	0	1	2	3	44	Unk	TOTAL	Percent
0-4	125	21	18	23	17	13	217	39.7
5-9	27	8	9	27	27	5	103	18.9
10-140 des	19	5	VI 7	16	18	Epgdemi	. dod 68	12.5
15-1916010	10	0	6	11	Is 183 1	0-89150	31	miroger5.711
20-29	39	3	4	10	and 3 id	T .13m	60	11.0
30-39	29	5	2	2	2 003	4 V	45	1 11 8088.201
40+	17	0	0	1	1	3	22	4.0
TOTAL	266	42	46	90	72	30	546	100.0
PERCENT	ad tece	rth h	nog s	di si	lde els	ubiviha	cinated	
DOSES	51.6	8.1	8.9	17.4	14.0	A .onl:	100.0	es of insocir

				Nonp	aralyt	ic		
Age	l centes.	12.0		Ooses	of Vac	cine	Maritim and the	
Group	0	1	2	3	4+	Unk	TOTAL	Percent
0-4	15	1	7	7	2	3	35	19.1
5-9	9	0	4	14	16	3	46	25.1
10-14	2	3	6	12	14	4	41	22.4
15-19	2	0	4	5	4	0	15	8.2
20-29	6	0	4	9	8	3	30	16.4
30-39	9	0	0	4	0	1	14	7.7
40+	0	0	0	0	2	0	2	1.1
TOTAL	43	4	25	51	46	14	183	100.0
PERCENT DOSES	25.4	2.4	14.8	30.2	27.2	enga e	100.0	

Preliminary data regarding the cases of poliomyelitis reported to PSU show the number of isolations of type 1 and type 3 poliovirus to be approximately equal. Of 149 poliovirus isolations reported, 76 were type 3 and 72 were type 1. There has been one type 2 isolation. The isolations are shown on the following page by state.

Louisiana and New York account for the majority of the type 1 isolations. The Louisiania isolations largely represent cases from the New Orleans area and the tri-county outbreak in Upstate New York has been responsible for most type 1 isolations in that State. Three-fifths of the type 3 isolations are from five states: Maryland, Georgia, South Carolina, Pennsylvania and Washington.

POLIOVIRUS ISOLATIONS BY STATE*

State barroger maed	. Fi-1900030U		EDV SPESIELLS	ATOT Clitis Surv	o i onis
Alabama ni mwode	for these as	her nucled	owed 5 kinu	of to solutate 5	
California	stal colutes	22 [0 1000.	ren Očarevo	gu sestam č-d ejo	
Connecticut	2	_		2	
. Illinois Denorther	Epidemiology	to uneque	ose, Chief,	A . L CHEER ON . TO	
Equipment tis chicagni	es of aseptic		rts actotal	ager , dibled of	
Georgia	lut sopia Joi	ano bad our	these 30 ha	10	
Georgia Hawaii	a eno 2 c-E es	r Constant	isolafions c	seriff need 0.72°	
Idaho : wollo?	n females as	ni berrupo:	o over <mark>z</mark> eoeso	and to where $\frac{2}{4}$	
Indiana	2	_	1 -	2	
Louisiana	22	PEMALE	6	28	
Maryland	_	— 1	14	14	
Minnesota	1	+.	1		
Missouri	81	72	±	1	
New Jersey	2	4_4	2 3	5	
New York	18	12:	<u> </u>	18	
Ohio	2	<u>_</u> 2	- S <u>-</u>	2	
Oregon		_0		108 2	
Pennsylvania	3	_	7	10	
South Carolina	A-E_	23	8	8	
Tennessee	-	_	2	2	
Texas week vo wole	d myour eas.	ce July 21	dis Joseo di	The state of the s	
Utah	-	-	1 1	1	.Jerwo
Vermont	3		o molectern A	3	
Virginia		MINTROTEL		2	
Washington	1 SIO	HILL (VIV)	HOD ALTORY	8	
Wisconsin	2	_		2	
3		17.7%			
TOTAL	72	1	76	149	
PERCENT	48.3	0.7	51.0	100.0	

^{*} From cases reported to PSU through October 14.

4. ROUTINE POLIOMYELITIS SURVEILLANCE

A. Cases With Onset Within 30 Days of Vaccination (Inactivated)

No additional cases of poliomyelitis with 30 days of receiving inactivated vaccine (IPV) have been reported to the Poliomyelitis Surveillance Unit during the past week ending October 14. Thus, the 1961 total remains at 15 cases, of which ll are paralytic (two correlated).

B. Cases With Onset Within 30 Days of Vaccination (Oral)

No additional cases of poliomyelitis within 30 days of receiving oral vaccine (OPV) have been reported to the Poliomyelitis Surveillance Unit during the past week ending October 14. Thus, the 1961 total remains at 26 cases, of which 21 are paralytic.

5. ENTEROVIRUS SURVEILLANCE

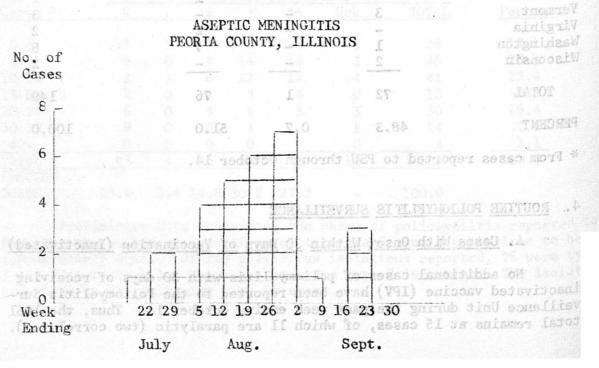
A total of 563 nonpolio enterovirus isolates has been reported to the Poliomyelitis Surveillance Unit through October 14. Thirty-three States and the District of Columbia have accounted for these as shown in Table 5. Coxsackie B-5 makes up over 50 percent of total isolates reported.

Carolina, Pennsylvania and Veshingtons

Dr. Norman J. Rose, Chief, Bureau of Epidemiology, Illinois Department of Public Health, reports a total of 34 cases of aseptic meningitis occurring in Peoria County. Of these, 30 have had onset since July 21. Thus far, there have been three isolations of Coxsackie B-5, one ECHO 6 and one ECHO 7. A majority of the cases have occurred in females as follows:

AGE GROUP	MALE	FEMALE	TOTAL	Indiana Louistana
0-4 5-9	3	4	7	Maryland Minnebora
10-14 15-19	ε 2 ε 3	4	6	Missouri New Jersey
20-29	2	5_	8.4 5.7	New York Ohio
30+ Total	11	23	34	Oregon Permsylvania South Carolina

The 30 cases with onset since July 21 are shown below by week of onset.



No other outbreaks or epidemics have been reported. Reports of additional B-5 isolates in Minnesota and Pennsylvania have been received, but no localization is evident. ECHO ll has also been isolated frequently in Minnesota.

Table 5

Non-Polio Enterovirus Isolations from 1961 Specimens

. Tucker	0 01		Co	xsacki			
frons					Other and		_ derU
State 9 19281	ECHO*	<u>B-2</u>	<u>B-4</u>	<u>B-5</u>	Unsp.	Tota	1 Reported By
Alabama Tombia	27 1	_	=	2	3	6	W. Smith & T. Hosty
California	1 00	1	_		1	3	E. Lennette
Colorado	3	_	_	2	_	5	C. Mollohan
Connecticut	13 1		19	11		32	G. D. Hsiung, G.
							Borman & J. Hart
D.C.	63	_	SE.	_ 06	2 G	1	W. Wooldridge
Florida	1	_	_		_	1	J. Bond
Georgia	-	_	4		no - .	4	W. Murphy
Hawaii	45	sio -8:	1	II 6 88	8	13	K. Wilcox
Idaho ii ono bae		50 n <u>r</u> 5		3	J RE EL UNG	3	D. Brack
Illinois	20	1 0130	r and	28	3	54	H. Shaughnessy
Kansas	2	_	_	17	2	21	C. Hunter
Kentucky	1	-	_	-		1	CDC Virus Reference
			•			Shelps or the second	Unit
Louisiana	1	_	2	-		3	J. Bruce & G.Hauser
Maryland	2		1	22		25	C. Perry & C. Silverman
Mass.	-	-	-	14		14	R. MacCready & T. Chang
Minnesota	47	11	2	32	1	93	H. Bauer
Miss.	_	-ll-	2	32	1	1	CDC Virus Reference
.1135					-	_	Unit
Montana	-	-	-	3	-	3	M. Soules
N. H.	-	1	_	_	_	1	R. Miliner
N. J.	3	-	7	33	-	42	M. Goldfield & W. Dougherty
N. Y.	- L	_	4	4	2	10	R. Albrecht
N. C.	5	_	2		ĩ	8	L. Maddry
Ohio	2	_	ĩ	7	9	19	L. Ey
Oklahoma	5/4/18	-		4	ĭ	5	F. Hassler
Oregon		_		6	_	6	G. Brandon &
-1 egon		A	, s	Ü		U	M. Skinner
Pennsylvania		_	1	34	_	35	K. Humeler &
g, ef				osu . Th		ng Teo.	I. Gratch
Rhode Island	opposition (S Supr	ection ection	6	and my no-	6	Total Street Street and Street

(Continued on next page)

Non-Polio Enterovirus Isolations from 1961 Specimens (Continued)

requently	DSSINE	20 au . 0	Cox	ksacki	e e	Market Co.	in Hinnesote.
		. 120 17	All of Philadelphia		Other and		
State	ECHO*	B-2	B-4	<u>B-5</u>	Unsp.	Total	Reported by
S. C.		And the second	1	eri Too	T orr V ivrottat	not olto	G. McDaniel
Tennessee	mrosec 10e	2	5	4		11	G. Cameron & C. Tucker
Texas	13	- 3		2	25.00	19	G. Irons
Utah	<u>legol</u>	1	ganil ganil	16	E LEE SEE	17	R. Fraser & A. Jenkins
Virginia		-		27	as L evelana	27	W. Skinner
Washington	s E. Le	54	1	6		60	K. Berquist & M. Giedt
Wisconsin	32 0 0 0		=	7	_1_1	13	A. Evans
TOTAL	112	76	49	290	36	563	.0.0

^{*} Specific types include twelve ECHO 9 in Texas, one in New Jersey and one in Louisiana; three ECHO 19 in Colorado, one in California and one in Kansas; 41 ECHO 11 in Minnesota; five ECHO 10 in Illinois; 4 ECHO 1 in North Carolina.

(This report was prepared by Mr. Leo Morris, Statistician, of the Poliomyelitis and Polio-like Diseases Surveillance Unit, with the assistance of Statistics Section, CDC.)

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(Continued on next page)

CURRENT U.S. POLIO INCIDENCE COMPARED WITH YEARS 1955-1960, April - December, by week

PROVISIONAL DATA SUPPLIED BY NATIONAL OFFICE OF VITAL STATISTICS
AND COMMUNICABLE DISEASE CENTER

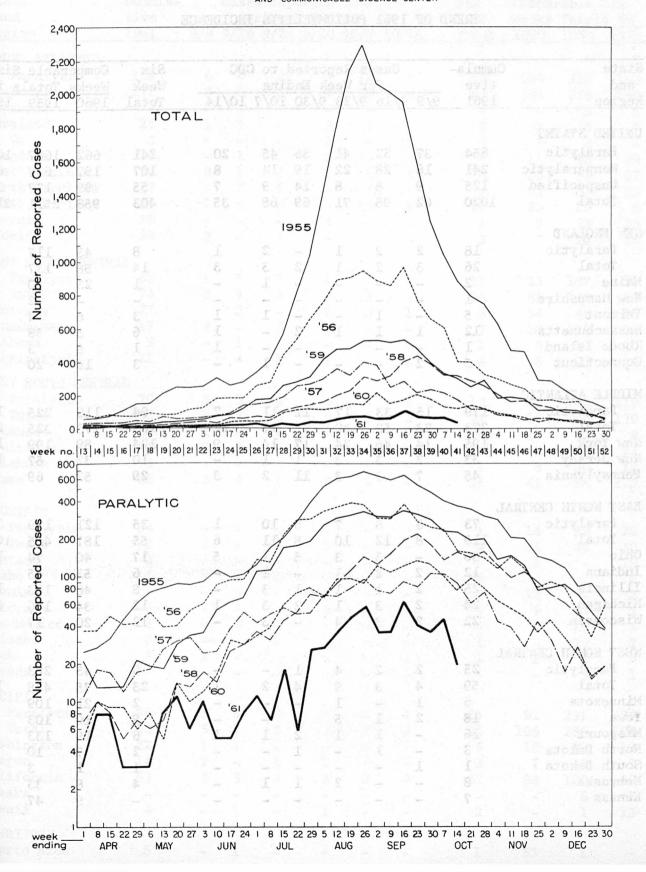


Table 1
TREND OF 1961 POLIOMYELITIS INCIDENCE

State	Cumula-										Comparable Six			
and	tive		For	r Weel	k End	ing			Week	Weeks	Total	s in		
Region	1961_	9/9					10/14		Total	1960	1959	1958		
UNITED STATES														
												1048		
Paralytic	654	37	62	41	36	45	20		241	662	1687			
Nonparalytic	241	16	28	22	19	14	8		107	197	647	822		
Unspecified	125	9	8	8	14	9	7		55	99	177	303		
Total	1020	62	98	71	69	68	35		403	958	2511	2173		
NEW ENGLAND														
Paralytic	18	2	2	1	_	2	1		8	43	117	24		
Total	26	3	2	ī	2	3	3		14	58	137	3]		
Maine	2	_				ĭ			1	23	50			
New Hampshire	ĩ			- 5	_ [_	_				2			
Vermont	5	\mathbb{Z}		_		ī	ī		- 2	6	4	4		
Massachusetts	12	ī	1	ī	2		i		3 6	5	58	13		
Rhode Island		7	 .	1	2	4 70	The state of the s		0		3]		
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Connecticut	5	2	-		_	1	_		3	16	20	-		
MIDDLE ATLANTIC														
Paralytic	179	15	33	17	11	11	7		94	116	225	154		
Total	273	23	52	30	29	17	12		163	173	325	295		
New York	195	14	46	24	17	14	9		124	89	199	107		
New Jersey	33	2	3	3	1	1	25 FX CG (38)		10	32	57	138		
Pennsylvania	45	7	3	3	11	2	3		29	52	69	50		
EAST NORTH CENTR	AT													
Paralytic	73	2	8	7	6	10	- 1		35	121	179	365		
Total	119	3 8	12	10	8	11	1			187	455	1038		
Ohio							6		55		74	178		
	36	_	3	3	5	1	5		17	40		4		
Indiana	12	2	2	1	-	1	-		6	53	45	118		
Illinois	25	2	1	1	1	3	\		8	40	123	675		
Michigan	24	2	. 3	. 1	2	3	1		12	34	196	20		
Wisconsin	22	2	3	4	-	3			12	20	17			
WEST NORTH CENTR	AL											_,		
Paralytic	25	2	2	4	1	_	4_		9	45	263	76		
Total	59	4	3	9	1 4	2	1		23	75	438	156		
Minnesota	6	i	_	í	L.	10			2	21	109	12		
Iowa	18	2	1		<u> </u>	NZ.	10 1/1			10	103	35		
Mîssouri	16	_	i	5 1	2	1	1		8	19	133	60		
North Dakota	3		i	1	2 1	-			2	7	10	20		
South Dakota	1	ī		A. T. N. W.	1	SET P	on, The		1	1	3	20 15 13		
Nebraska	8	Т		2	7	7					33	15		
		-	-	2	1	1	-		4	8	47	13		
Kansas	7	-	-		-	-			-	9	41			

Table 1 (Continued)

State and	Cumula- tive	tive For Week Ending Week									Comparable Six Weeks Totals in			
Region	1961	9/9	9/16	9/23	9/30	10/7]	10/14	Total	1960	1959	1958			
SOUTH ATLANTIC														
	300		,	_		7.0			7.00	-7.0				
Paralytic	128	6	4	2	7	16	3	38	159	312	153			
Total	171	8	8	5	7	19	4	51	182	376	240			
Delaware	2	-		-	_	_	-	-	-	3	6			
Maryland	27	1	1	•	3	1	-	6.	87	25	7			
D. C.	3	-	-	_	1	-	1	2	2	3	-			
Virginia	10	-	1	1	1	-	-	3	15	88	4.9			
West Virginia	24	3	1	3	1	1	1	10	13	82	87			
North Carolina	17	-	2	1	-	3	-	. 6	21	88	23			
South Carolina	31	1	3	_	-	14	2	20	28	28	8			
Georgia	28	-	-	-	1	_	_	1	9	33	15			
Florida	29	3	-	_	_	_	_	3	7	26	45			
EAST SOUTH CENT	DAT													
	42	1	5	2	7		0	77	0.2	105				
Paralytic Total	74	3	7	4	1	_	2	11	23	187	56			
	27		2		4	3	3	24	85	232	89			
Kentucky		-		_	2	3	1	8	54	48	16			
Tennessee	17	3	7	3	1	-	-	7	20	117	35			
Alabama Mianimi	9	-	1	-	-	-	-	1	5	44	10			
Mississippi	21	-	4	1	1	_	2	8	6	23	28			
WEST SOUTH CENT	RAL													
Paralytic	70	3	3	3	4	4	2	19	49	145	119			
Total	133	6	7	5	9	8	2	37	69	244	170			
Arkansas	16	1	_	4	_	_	ī	6	12	92	8			
Louisiana	45	2	3		4	4	ī	14	8	24	23			
Oklahoma	4	_	_	<u> </u>	,	i		1	8	30	12			
Texas	68	3	4	1	5	3		16	41	98	127			
					ŭ	•		10	7.	30				
MOUNTAIN														
Paralytic	24	_	_	_	1	_	_	1	14	28	22			
Total	42	2	_	1	1	_		4	24	48	50			
Montana	3	-	_ `		_	_		\	3	_	19			
Idaho	14	1	_	1	_	_	_	2	_	*1	6			
Wyoming	_	_	_	_	_	_	_		10	Ξ	2			
Colorado	6	_	_		_	_		_	9	12	7			
New Mexico	3	_	_	_	_	_			1	10	4			
Arizona	8		_	_	1		_	1	_	19	7			
Utah	8	1	_	_	_			ī	1	3	4			
Nevada		_	_	_		_		_	_	3	i			
PACIFIC	0.5	_	· _	_	_	•		0.0	•••					
Paralytic	95	5	5	5	5	2 5	4	26	92	231	79			
Total	123	5	7	6	5		4	32	105	256	104			
Washington	22	1	1	1	_	2	-	5	10	80	12			
Oregon	14	1	-	1	1	-	-	3	7	49	9			
California	83	3	5	4	3	3	4	22	88	120	69			
Alaska		-	-	-	-	-	-	-	-	6	1			
Hawaii	4	-	1	-	1	-	-)	2	-	1	13			
TERRITORY														
Puerto Rico	6		1					1	53	1				

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Comparable Six	SIZ	Cases Reported to CRC	-simmed ofs
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