November 27, 1961

COMMUNICABLE DISEASE CENTER

# POLIOMYELITIS

## SURVEILLANCE

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

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This report presents a summary of provisional data reported to CDC from State Health Departments, Virology Laboratories, Epidemic Intelligence Service Officers, and other pertinent sources.

## SPECIAL NOTE:

Much of the information in this report is preliminary and is intended primarily for the use of those with responsibility for disease control activities. Anyone desiring to quote any part of this report is urged to consult the original investigator for confirmation and interpretation.

Communicable Disease Center, Atlanta 22, Ga. C.A. Smith, M.D., Chief

Epidemiology Branch
A.D. Langmuir, M.D., Chief

Surveillance Section
D.A. Henderson, M.D., Chief

Poliomyelitis Surveillance Unit
M.J. Regan, M.D., Chief
J.A. Bryan, II, M.D.
L. Morris

#### SUMMARY

The number of reported cases of poliomyelitis continued its seasonal decline during the week ending November 11, 1961. No further decline occurred during the week ending November 18, 1961. The number reported remains at record low levels. No case clusters have been noted.

A follow-up report is given on the rural outbreak of type III poliomyelitis in Newberry County, South Carolina. The single case which has occurred since the community vaccination with type III oral poliovaccine is described in detail.

The tabulation of reported isolates of nonpolio enteroviruses is given in Section 5. Coxsackie B-5 remains the most frequently isolated type reported this year.

A report on the poliomyelitis situation in England and Wales has been submitted by Dr. Reimert T. Ravenholt of the Division of Foreign Quarantine in Europe and is presented in Section 6.

## 1. CURRENT POLIOMYELITIS MORBIDITY TRENDS COMMON SESSEED TO THE STORY

A total of 30 cases, 23 paralytic, was reported for the forty-sixth week ending November 18, 1961. The week ending November 11, 1961, had a similar number with 29 total cases, 23 paralytic, while the forty-sixth week of 1960 showed 60 total cases, 46 paralytic.

and is intended primarily for the use of those with responsi-

Case clusters are singularly absent. Only three States reported over two cases: New York reported 9, Michigan 4, and Louisiana 3. Each case in these States had origin in a different county or parish.

The one case reported from South Carolina came from Newberry County, earlier the scene of a Type III poliomyelitis outbreak and scene of a mass immunization with Type III oral poliovirus vaccine. Further details will be given in Section 2.

The incidence of poliomyelitis during the past six weeks has followed the cumulative low total incidence. This is illustrated in the following tables.

Six Week Totals (41st through 46th Week) for Past Five Years

	1961	1960	1959	1958	1957
Paralytic	164	426	1021	793	332
Total	243	605	1372	1381	589

## Cumulative Cases of Poliomyelitis 41st Through 46th Week for Past Five Years

	1961	1960	1959	1958	1957
Paralytic	797	2101	5310	2790	2020
Total	1228	3025	8029	5520	5692

#### 2. REPORTS

#### South Carolina

On October 19th and October 20, 1961, 25,000 doses of type III oral poliovirus vaccine were administered to 21, 187 persons in Newberry County, South Carolina. Ninety-two percent of the white population and 88 percent of the Negro population under forty in this rural county received the agent. All of the vaccine was used.

At the time of the immunization 21 cases had been recognized in the county. Seventeen of these had been paralytic and two deaths had occurred. Sixteen of the 21 cases had followed the opening of school in September.  $0_n$ ly three cases of poliomyelitis had occurred in the white population.

Since the immunization campaign three additional cases have been associated with this outbreak, two of the three having onset prior to the campaign. A line listing of these three cases is given below showing onset of illness and paralytic status.

Case #	<u>Initials</u>	Age	Race	<u>Sex</u>	Onset	Inactivated	Vaccine	Paralytic Status
22	E. A.						9	NP
23	C. A.	21	W	M	10/16	0	The state of the s	P. A. Carrier A.
24	W. S.	7	N	F	10/23	0		<b>P</b>

The second case reported above resides in Columbus, Georgia, but visited Newberry, South Carolina, on September 30 and October 7, 1961. The third case represents the only case reported after the vaccination campaign and is the case included in the telegraphic report this week. She received the oral poliovaccine four days before onset of clinical illness.

The onset of cases since September now assumes the following distribution:

			A PERSONAL PROPERTY AND A PROPERTY AND A PERSONAL PROP						
	9/2	9/9	9/16	9/23	9/30	10/7	10/14	10/21	10/28
Paralytic	1	1	3	3*	iations	2	0	2*	1
Nonparalytic	0	0	0	2	0 0	<b>. 1</b>	100 at	0	0

<sup>\*</sup> Denotes one fatal case.

## 3. 1961 POLIOMYELITIS REPORTED TO PSU

## A. Poliomyelitis Surveillance Case Records

Through November 18, there have been 991 cases of poliomyelitis with onset in 1961 submitted on individual case forms to the Poliomyelitis Surveillance Unit. Of the 993 cases, 720 (73 percent) are paralytic, 230 nonparalytic and 41 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 November 18, 1961)

Table 3A

-94 Ka	mioo Ti	FILL S	LEGIS	Para	Lytic	nu couss	Trided o.139#	
Age	Para Maria	3.78	line e	Doses	of Vac	cine	Gras au amai	* 3 13 12 12 12 12 12 12 12 12 12 12 12 12 12
Group	0	1	2	3	4+	Unk	TOTAL	Percent
0-4	155	25	22	30	22	18 h	272	37.8
5-9	53	10	16	38	33	6	156	21.7
10-14	23	5	13	17	21	4	83	11.5
15-19	13	1	6	15	3	2	40	5.6
20-29	53	5	6	12	4	2	82	11.4
30-39	39	5	4	3	3	10 000	61	8.5
40+	20	0	0	1	101	4	. 26	3.6
TOTAL	356	51	67	116	87	43	720	100.0
PERCEN DOSES	T 52.6	7.5	9.9	17.1	12.9	entO gas	100.0	Initials

	tea ba	d or		Non	paralyt	ic		A . D
Age				Doses	of Va	ccine	7/5 40	\$ 100 M
Group	0	<u> </u>	2	3	4+	Unk	TOTAL	Percent
0-4	17	2	9	odmu£	00 ni a	ohizari s	vods bartogs	18.3
5-9	11	0	7	16	27	4	65	28.3
10-14	3,00	3	6	15	15	5	47	20.4
15-19	3	0	4	5	6		19	8.3
20-29	8	0	5	14	8	4	39	16.9
30-39	10	0	0	4	1	1.	16	6.9
40+	0.0	0	0	0	2	<b>0</b> 91	nra asalo lo	0.9
TOTAL	52	5	31	62	63	17	230	100.0
PERCENT DOSES	24.4	2 3	14.6	20.1	29.6	Week	100.0	ender!

water to be a first transfer that the case of the case

## B. Poliovirus Isolations

Of the 991 cases reported to PSU, laboratory reports of attempted viral isolation have been received on 333 cases. Seventy-four percent (245 out of 333) have yielded a poliovirus isolation with the numbers of type I and type III isolations approximately equal. Of the 245 poliovirus isolation reported, 129 were type I, and 114 were type III. There have

been two type II isolations. The isolations are shown below by state.

New York and Louisiana continue to account for one-half of the type I isolations; one-half of the type III isolations are from four states: Maryland, South Carolina, Georgia and Washington.

Policy be the 1961 for all and are partial ending Foundation 18. This brings the 1961 for all of the under-3D-day cases to 2), of which is are partially to (to \*ATATE YE ROLITAIOS ISUNIVOIO

State Wolf more stam	Type I	Type II	Type III	TOTAL
ne arm on October 2				Courty, Maryland.
Alabama	deald Tidaw	Artimothy.	n the lower c	and had puralysis i
Arkansas	3	-	_	3
California	a Victiona	ort budge	-day cate rep	Of ashin 917
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Florida	Δ.		3	7
Florida (1870) moller Georgia	LODAY TLO E	Asir or or	as two search un	10
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Idaho	2	radmerred	oluy Teasquan	5
Indiana 81 redmoved	2	Haaa gan	( VIU - SELDOD	2 1510 313/13/91/16
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Kentucky	e remover as move in tales	as k <del>e</del> l ku	c far <b>l</b> ful co	actions I be the second
Louisiana	26	-	9 40 - <del>2</del> 0 - 0 - 110 - 3	32
Maryland	ak-OF- <del>r</del> alami	ven-la i	26.00	26
Minnesota	1	-		vistag at 2 % Moldw
Mississippi	7	_	2	9
<del></del>				
Missouri	1	_	VI <del>N</del> VACETIEV	5. ENTERBYIKUS SUR
New Hampshire	_ 1	_	The second of th	1 in the second
New Jersey assains	terc <b>3</b> irus	re o <del>r</del> icom	on 61 <b>4</b> 3d Iso	7
New York	39	er av ar f <del>- f</del> f av ar ar	and a fill townson to	40
North Carolina	d nak <del>s</del> auon	as a <del>s</del> anlm	niusa a <b>2</b> na Usana	1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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Oregon	1	. toreyou	.best 2n masd	wad and 3 stines have
Pennsylvania	9	_	6	15
Rhode Island	uns f <b>l</b> ow 19a	lso <del>i</del> stin	o later <del>o</del> virus	i in i-moli 1
South Carolina	1	-	17	18
m		sckie	акоЭ	The second
Tennessee	ong red	t0 -	1	3
Texas IstoT	± gonti	₹-8	0# B=Z B-4	HOE 1 RESTE
Utah	-	-	1	1
Vermont	5 2	<u>-3</u>		5 cmais A
Virginia	- 100		2	_ 2 asausita
Washington	1		10	11
West Virginia	1 E	_3	i <u></u>	Timmilia.
Wisconsin	2	$1^{\mathbb{S}}$	4	7 olareled
Enrich er en en		-61	08 1	Competition
TOTAL	129	2	114	245
PERCENT	52.7	0.8	46.5	100.0
1 W. weoluringe			*	

<sup>\*</sup> From cases reported on PSU forms through November 18.

## 4. ROUTINE POLIOMYELITIS SURVEILLANCE and a smoldefoot II aggs own mead

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

Two cases of poliomyelitis, one paralytic, with onset within 30 days of receiving inactivated vaccine (IPV) have been reported to the Poliomyelitis Surveillance Unit during the two week period ending November 18. This brings the 1961 total of IPV under-30-day cases to 23, of which 16 are paralytic (two correlated).

The paralytic case reported was a 31 year old male from Howard County, Maryland. This patient was inoculated in the arm on October 2 and had paralysis in the lower extremity with first symptoms on October 28.

The under-30-day case reported from Virginia in PSU Report No. 246 received vaccine after onset of symptoms and has been deleted from the list of under-30-day cases.

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

One case of nonparalytic poliomyelitis with onset within 30 days of receiving oral vaccine (OPV) has been reported to the Poliomyelitis Surveillance Unit during the two week period ending November 18. This case, an eight year old male from Onondaga County, New York, was fed Type I oral vaccine on 8-31-61 and had onset of symptoms on 9-23-61.

This brings the 1961 total of OPV under-30-day cases to 29, of which 22 are paralytic.

## 5. ENTEROVIRUS SURVEILLANCE

To date a total of 915 nonpolio enterovirus isolates has been reported to the Poliomyelitis Surveillance Unit. Throughout the nation Coxsackie B-5 continues to predominate accounting for 55 percent of all isolates. Also, a sizable number of ECHO 11 isolates has been reported by the Minnesota State Laboratories; no localized outbreaks or family concentrations have been noted, however.

New Hampshire

Non-Polio Enterovirus Isolations from 1961 Specimens

70.30			Coxsa	ckie			
State	ECHO*	B-2	<u>B-4</u>	<u>B-5</u>	Other and Unsp.	Total	Reported By
Alabama	1		-	2	3	6	W. Smith & T. Hosty
Arkansas	4 4 4	12	1	- 15 - 144 50 - 144	10	0.0 1	CDC Virus Refer-
7.7		0.0					ence Unit
California	7	5	1	6	3	22	E. Lennette
Colorado	3	-,	-	2		5	C. Mollohan
Connecticut	1 2 1	1	30	16	1 007	49	G. D. Hsiung, G. Borman &
(2.43 - Winn f							J. Hart
D. C.	100 TA			40 46	That 1 1 hon	<b>1</b> • •	W. Wooldridge
Florida	1. A.L. 20	adais v o	n-4gp	00x <b>1</b> 2	an PSU-forms	bedx2jeg	J. Bond T.

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## Non-Polio Enterovirus Isolations from 1961 Specimens (Cont'd)

			Coxsa				
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Reimer control	ECHO*	<u>B-2</u>	<u>B-4</u>	<u>B-5</u>	Unsp.	Total	Reported By
Georgia	io moje:	rvilli , i	oqoun.	i ,ani	gic Vensulta	oiotmabi	Ravenhold, M.D., Ep CharantiyAqruM.Wid
Hawaii	4		MOGIN 1.	K TEST	8	13.6	K. Wilcox
	_		_	6	_	6	K. Wilcox Assertuo D. Brock
Illinois	25	3	T	36	- Jan 1 - 3	67	D. Brock H. Shaughnessy R. Herren & T. Chin
Iowa	rances one	i de Sa. Parte en l'a	insngarezu oli F≢son	2	and farmable 10	2. 9.2	R. Herren & T. Chin
Kansas		2	P 12- 11-	24	Cana Care Ama	32	C. Hunter un brioga
Kentucky	ano n <b>i</b> s ou	aub.	el <del>e</del> gn	aľ-,ne	. Since the	eptamber	CDC Virus Refer-
occurrence	bettogen		destro	I , Bill.	I, East Ridi	foH of a	ence Unit
Louisiana	s Pani4 ni	ancly	o.i.3 <b>2</b> .m	gla b	ess introduc		J. Bruce & G.Hauser
Maryland	2 . Fine 1201		3			34	C. Perry & C. Silverman
Mass.	3	2	4	34	10		R. MacCready, T.
ogya Le sa		en Fritzen	anda ing tala Talah	en - gerioù i en en e	on ke au harawa Tan		Chang & J.Enders
Michigan	tout gen	en di 🗕 el		5	E-1 L 190	o nassu se	
Minnesota	75	15	3	50		146	H. Bauer ( redoted
Miss.	-	-	- -	- 1	superior	600 <b>1</b> 008	CDC Virus Refer- ence Unit
Missouri	But a		m = 5	-1-		1.	
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Rhode Island		•	laa <del>r</del> qy	6	LIDHE OIL SEE	1.1266013	I. Gratch CDC Virus Refer-
· TOMENTE EXHA							ence Unit
S. C.	- nee		2	sq <b>-</b>	-		G. McDaniel
Tennessee	1961	2	6	11	1	20	G. Cameron & Argon
Texas	18	10	_	<b>3</b> 3	1	32	G. Irons
Utah	3	1	_	16	-	20	R. Fraser &
	1.4			15		51.78	A. Jenkins
Virginia	( <del>-</del> 1	-	-	27		27	W. Skinner
Washington	9.1	55	, <b>-</b>	ε <b>7</b>	-	62	K. Berquist & W. Giedt
Wisconsin	8		1	19	4	32	A. Evans
TOTAL	181	100	83	502	49	915	6/1

<sup>\*</sup> Specific types include sixty-six ECHO 11 in Minnesota; seventeen ECHO 9 in Texas, four in Ohio, three in California, two each in Louisiana, Massachusetts, Utah and Wisconsin, and one each in New Jersey and New York; three ECHO 19 in Colorado, two each in Kansas and Minnesota and one in California; five ECHO 10 in Illinois; four ECHO 1 in North Carolina. Other types reported include ECHO 2, 3, 5, 7, 11, 21, 22, and 25.

## 6. FOREIGN REPORTS - ENGLAND AND WALES

A report of poliomyelitis incidence in England and Wales, summarizing case morbidity through October 23, 1961, has been received from Reimert T. Ravenhold, M.D., Epidemiologic Consultant, Europe, Division of Foreign Quarantine. Included also is a preliminary report of the poliomyelitis outbreak in Hull, England.

Non-Polio Enterovirus Isolations i

"Since early July 1961 paralytic poliomyelitis has consistently occurred with greater frequency in England and Wales than during the corresponding weeks of 1960; but weekly occurrence (table) remained fairly uniform until mid-September. Since then, largely due to an outbreak of type I poliomyelitis in Hull, East Riding, Yorkshire, reported occurrence of paralytic poliomyelitis has increased significantly in England.

"The outbreak in Hull began about September 20, 1961 and has mounted rapidly, with 47 cases reported by October 19, 1961. In an attempt to check the outbreak a mass immunization program, utilizing attenuated type 2 oral vaccine produced by Pfizer Ltd. of Sandwich, Kent, was happen on October 17. An attempt is being made to feed the vaccine to the entire population of about 300,000 persons.

"Other earlier foci of poliomyelitis in England and Wales during 1961 have been Atherton (40.4 cases/100,000 pop.), Ipswich (29.7), West Bromwick (16.0), Bootle (15.7), Stafford (13.5), Port Talbot (12.3), Oldham (8.5) and Liverpool (7.8 cases/100,000).

"Also, thirteen paralytic cases of poliomyelitis have occurred in Sheffield from September 25 to October 22, and oral vaccine for that community has been requested from the Ministry of Health.

"Meanwhile, Salk vaccine has been in short supply in England, despite importation of 250,000 doses from Canada, and plans are being made for greater use of oral vaccine."

busetts, Grah and Wisconsin, and one cach in New Jersey and New York; hree ECHC 19 in Colorado, two each in Kansas and Minneseta and one in Elifornia: Tive ECHO 10 in Illinois: four ECHO 1 in Worth Carolina. Other

## POLIOMYELITIS IN ENGLAND AND WALES\*

	G. McDen	2	440	Paralytic Cases				
PIOHELI	₩e. Gamer C. Tuc	ek 202	ise Isera	1960	25	1961		
June	anovI 5/28	- 6/3	the Boar	€ 5	10	17		
3 1	6/4	- 6/10	*	<b>4</b> ~	I	15		
	6/11	- 6/17		15		14		
Ta	6/18	-6/24	**	7	-	10		
181 2	6/25	5 - 7/1	• 3	13	55	12		
July	2054 7/2	- 7/8	42	67 1	No.	20		
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	7/23			anda <b>7</b> mi	eatut eata ei	22		

## POLIOMYELITIS IN ENGLAND AND WALES\* (Continued)

		Paralytic	Paralytic Cases				
Month	Week	1960	1961				
August	7/30 - 8/5	4	14				
	8/6 - 8/12	7	19				
	8/13 - 8/19	3	19				
	8/20 - 8/26	10	14				
	8/27 - 9/2	9	12				
September	9/3 - 9/9	5	17				
	9/10 - 9/16	13	24				
	9/17 - 9/23	3	23				
	9/24 - 9/30	12	28				
October	10/1 - 10/7	14	35				
	10/8 - 10/14	8	49				
TOTAL	5/28 - 10/14	157	383				

<sup>\*</sup> From POLIOMYELITIS WEEKLY PROCRESS REPORT of the Ministry of Health.

## 7. ORAL POLIOVIRUS VACCINE PROGRAMS

Recently a tabular summary of all oral poliovirus vaccine programs conducted in the United States was presented in these pages (See PSU Report No. 245). Inadvertently, the continuing 1961 oral vaccine program in Cincinnati was omitted. In this program, 52,000 doses of Type I, and approximately 48,000 doses each of Types II and III vaccines were administered. In addition, a smaller trial in Atlanta, Georgia, accounting for 5,000 doses of Type I oral vaccine, was omitted.

Thus the corrected total amounts of vaccines administered in this country stand at 1,455,000 doses of Type I, 974,000 doses of Type II, and 1,305,000 doses of Type III.

(This surveillance report was prepared by the Poliomyelitis and Poliolike Diseases Surveillance Unit, Michael J. Regan, M.D., Chief, James A. Bryan, II, M.D. and Mr. Leo Morris, Statistician, with the assistance of Statistics Section, CDC.)

#### POLICOMYETATIS IN ENGLAND AND WALKEST (Continued)

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## GRAL FOLIOVIEUS VACCINE PROGRAMS

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(This surveillance report was prepared by the Polionyelitis and Polio- Lake Diseases Surveillance Unit, Michael J. Regan, M.D., Chief, James T. M.D. and Mr. Leo Morris, Statistician, with the assistance os Section, CDC.)

# 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

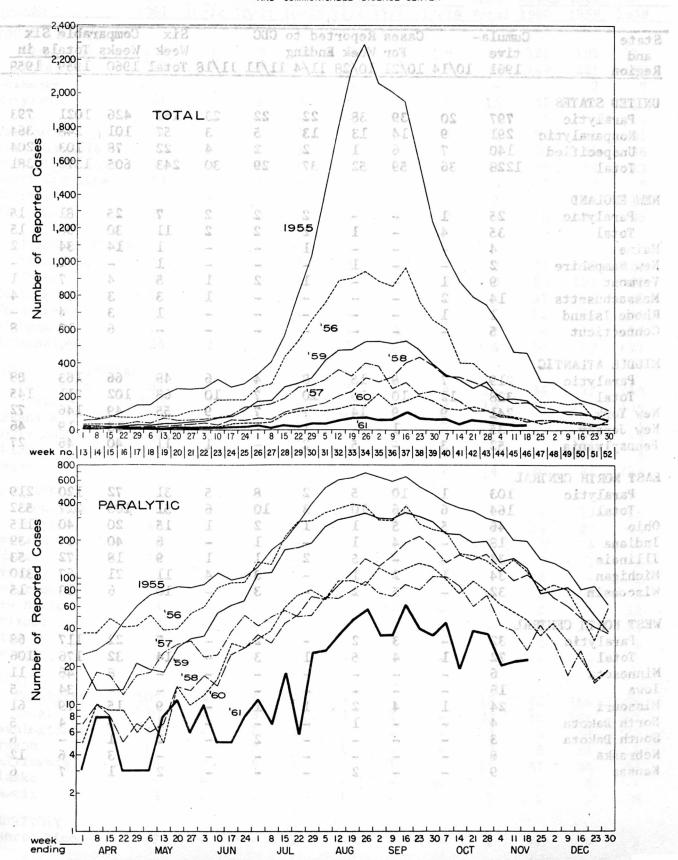


Table 1
TREND OF 1961 POLIOMYELITIS INCIDENCE

State	Cumula	i <del>-</del>	Cases Reported to CDC					Six	Comparable Six		
and	tive		For	Week Ending				Week	Weeks Totals		
Region	1961	10/14	10/21	10/28	11/4	11/11	11/18	Total	1960	1959	1958
UNITED STATES											
Paralytic	797	20	39	38	22	22	23	164	426	1021	793
Nonparalytic	291	9	14	13	13	5	3	57	101	248	384
Unspecified	140	7	6	1	2	2	4	22	78	103	204
Total	1228	36	59	52	37	29	30	243	605	1372	1381
NEW ENGLAND											
Paralytic	25	1	_	_	2	2	2	7	25	81	15
Total	35	4	_	1	2 2	2	2	11	30	98	15
Maine	4		_	_	ī	_	_	1	14	34	2
New Hampshire	2	7_	_	1		_	_	ī	_	-000	3
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Rhode Island	1	1	-	-				-	6	18	8
Connecticut	5	· /-			-	\ -			0	10	
MIDDLE ATLANTIC			4-00		Ken	1/				1008	88
Paralytic	219	7	8	15	8	4	_ 6	48	66	163	14
Total	328	12	10	19	10	7	10	68	102	211	
New York	241	9	9	14	7	7	9	<b>5</b> 5	49	146	7
New Jersey	35	-	1	-	1			2	13	19	4
Pennsylvania	52	3	elas ne Tei	5	2	alaja 6	1	13 05 11	40	46	2'
EAST NORTH CENT	RAL									(054) (354)	
Paralytic	103	1	10	5	2	8	5	31.	72	120	21
Total	164	6	16	10	3	10	6	51.	105	217	532
Ohio	46	5	5	1	1	2	1	15	20	40	11:
Indiana	18		4	1	1	1	_	6	40	25	3
Illinois	34		7	5	2	1	1	9	18	72	5
Michigan	34	1	2	1	_	3	4	11	21	67	310
Wisconsin	32	<b>^</b> -	5	2	\- <del>-</del> \	3	-	10	6	13	1
WEST NORTH CENT	RAL							38			
Paralytic	32	7 /-	3	2	_	2	1 -	7	22	117	68
Total	72	1	4	5	1	3		14	32	176	106
Minnesota	6	- Y <u>-</u>	_	_	Ţ.	_	1 -	St. C	8	46	1
Iowa	18		<u> </u>	_	. <u>I</u> )	\ _	11/2	300 107 <b>1</b> ( -	WZ	34	
Missouri	24	ī	4	2	ī	1	08/5	9	15	79	63
		Τ.	4	í		1/4	19' 7	/ i	4	4	
North Dakota	4			1	T.	2	\ . T	2	vî.	1-4-5	. !
South Dakota	3	17/5	-	-	- T	4	Second .			-	1
Nebraska	8		-	Ţ	. 1	-		7	3	6	1
Kansas	9	-	-	2	-	-	•	2	1	7	

Table 1 (Continued)

State	Cumula	-		Repor		Six	Comparable Six					
and	tive		For Week Ending					Week			Totals in	
Region	1961	10/14	10/21	10/28	11/4	11/11	11/18	Total	1960	1959	1958	
SOUTH ATLANTIC												
Paralytic	154	3	7	8	2	2	6	28	126	191	116	
Total	211	4	14	8	11	2	6	45	149	221	189	
Delaware	2		_	_	_	_	_	_	_	2	7	
Maryland	41		1	3	9	_	2	15	57	12	11	
D. C.	3	1	_	_	_	_	_	1	5			
	ıĭ	_	_	ī	_	_	_	ī	21	50	41	
Virginia	32	ī	5	i	ī	_	ī	9	20	36	56	
West Virginia North Carolina	21		4				_	4	16	64	13	
		_	1	ī	-	_	ī		7	9	8	
South Carolina	34	2			-	_		5		26	17	
Georgia	30	_	_	2	_	_	_	2	7			
Florida	37	-	3	-	1	2	2	8	16	22	36	
EAST SOUTH CENT	RAL											
Paralytic	48	2	_	1	3	1	۰ ـ	7	25	97	65	
Total	83	3	_	ī	3	ī	1	. 9	69	124	96	
Kentucky	27	ň	_	_	_	_	_	ì	37	25	30	
Tennessee	20	_	_	_	_	_	_	_	14	61	28	
Alabama	11	_		_	1	1	_	2	8	19	17	
Mississippi	25	2	_	ī	2	_	ī	6	10	19	21	
urasissibhi	25	2	<del>-</del> -	. •	2			0	10	13		
WEST SOUTH CENT					•			3.6	- 4		77.5	
Paralytic	83	2	5	1	2	2	4	16	34	71	115	
Total	150	2	5	2	3	2	5	19	43	102	144	
Arkansas	20	1		1	1	1	-	4	7	25	7	
Louisiana	54	1	4	1	1	1	3	11	3	17	13	
Oklahoma	4	-	-	_	-	_	-	-	3	16	5	
Texas	72	-	1		1	-	2	4	30	44	119	
MOUNTAIN				·								
Paralytic	26		1	_	_	1	_	2	14	13	18	
Total	45	_	2			ī	_	3	26	27	42	
Montana	4	_	ĩ			_		ĭ	5	4	5	
Idaho	14	-	_		_	_	_	_	5	i	ĭ	
Wyoming	14	_	_	_		_	_	_	2	-	8	
Colonedo	_	_	7	_	_	ī	_	_	6	4	3	
Colorado	8		1	-	_	T	_	2				
New Mexico	3	-	-	-	-	_	-	-	2	4	12	
Arizona	8	-	_	_	-	_		-	4	10	11	
Utah	8	-	_	-	_	_	-	-	2	3	1	
Nevada	-	<del>-</del>	-	_	-	-	-	-	-	1	1	
PACIFIC												
Paralytic	107	4	5	6	3	_	_	18	42	168	89	
Total	140	4	8	6	4	1	_	23	49	196	112	
Washington	25	_	ĭ	2	2	_	_	5	6	58	12	
regon	17	_	2	_	ī	_	_	3	5	34	4	
California	93	4	5	4	_	ī	_	14	37	96	88	
Alaska	33	-	3	-	_	_	NR			8		
Hawaii	5	<u> </u>		<del></del>	ī	-	M	ī	ī	0	8	
	3	-	-	•	1	-	_	1	1	-	٥	
TERRITORY												
Puerto Rico	7			1		_	-	1	32	_	2	

	× 72	e.EdsTe	Compa	320	acidenes reservoiros.	2007	or be	Promosi	Cases	and the contract of the second	-s.Lum	10	5363
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		64	16	2.76	3.0				1	-400	2.13	0.56	orth Carolin
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