

POLIOMYELITIS SURVEILLANCE REPORT

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REPORT NO. 206 bonds north at a AUGUST 12, 1960

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HEALTH, EDUCATION, AND WELFARE
PUBLIC HEALTH SERVICE COMMUNICABLE DISEASE CENTER Clarence A. Smith, Chief

Epidemiology Branch Alexander D. Langmuir, Chief and Junday

Surveillance Section E. Russell Alexander, Chief Atlanta 22, Georgia

SPECIAL NOTE

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, the National Office of Vital Statistics, 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

A decrease in paralytic poliomyelitis has been reported to the NOVS this week, although the total number of cases did not change appreciably. The paralytic number of cases is the lowest reported in four weeks, when the initial seasonal upturn of poliomyelitis took place.

A new concentration of cases has been reported in the Jersey City - Hoboken area in New Jersey. The new cases are not yet reflected in NOVS figures and involve the Puerto Rican population as did clusters of cases in Chicago and New York City.

The epidemic in Rhode Island and the outbreak in the tri-county area on the North Carolina - South Carolina State line continues to decline.

Narrative reports from Rhode Island, New York City, New Jersey, North Carolina-South Carolina and Puerto Rico are presented.

1. CURRENT POLIOMYELITIS MORBIDITY TRENDS

(Note: The preliminary figures of 108 total cases, 78 paralytic, reported to NOVS last week have been revised to 111 total cases, 81 paralytic - SEE TABLE I.)

A total of 110 cases, 67 paralytic, was reported to the National Office of Vital Statistics during the 31st week of 1960, ending August 6. Although the total number of cases did not differ from the 111 total cases reported last week, there was a 17 percent decrease in paralytic cases. In contrast to the decrease seen this week in paralytic cases, there was a 34 percent increase in paralytic cases during the corresponding week in 1959 when 432 cases, 245 paralytic, were reported to NOVS.

The 1960 cumulative total now stands at 951 cases, of which 673 (70.8 percent) are paralytic. Cumulative totals for the past five years are presented below:

	1960	1959	1958	1957	1956
Paralytic	673	1,600	622	906	2,685
Total	951	2,451	1,254	2,567	5,380

New England is the only region with a six-week total higher than the corresponding period in 1959. This is due to the Rhode Island epidemic which is now waning. Increases seen this week in Ohio, Minnesota, North Dakota, North Carolina, and California reflect some delayed reporting in addition to cases widely scattered throughout these States.

REPORTS 2.

This histogram presented this week includes Rhode Island

Dr. R.F. McAteer, Medical Director, Division of Communicable Diseases, Rhode Island Department of Health, reports an additional 3 cases of paralytic poliomyelitis during the past week in the Metropolitan Providence area. This brings the total number of cases reported to the State Health Department through August 11, to 79, of which 64 are paralytic. In addition to these 79 cases, Dr. Joseph Oren, Chief, Poliomyelitis Surveillance Unit, CDC, assisting Dr. McAteer, cites another 15 cases under investigation.

investigation, thich are mostly noncaralytic.

All but 4 of the 64 paralytic cases are under 10 years of age with the pre-school age group accounting for 59 percent of the cases. The paralytic cases are presented below by age group and vaccination status:

Age		Doses	of Va	ccine		18 -
Group	OV	lv	2V	3V	4+V	Total
0-4	18	12	7	0	1	38
5-9	8	6	3	4	1	22
10-19	1	0	1	1	0	3
20+	_1_	0	0	0	0	111
Total	28	18	11	5	2	64

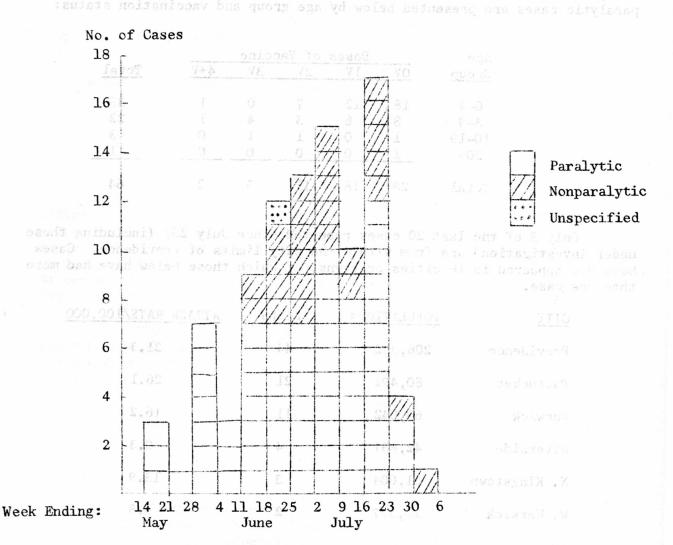
Only 5 of the last 20 cases reported since July 25, (including those under investigation) are from within the city limits of Providence. Cases have now appeared in 16 cities or towns, of which those below have had more than one case.

CITY	POPULATION*	CASES	ATTACK RATE/100,000
Providence	206,352	44	21.3
Pawtucket	80,492	21	26.1
Warwick	68,042	11	16.2
Riverside	42,857	4	9.3 \$
N. Kingstown	21,604	3	13.9
W. Warwick	20,377 of 8	1 18 2 25 2	nding: 8.0 21 23 4 1

^{*}Preliminary 1960 census figures.

This histogram presented this week includes those cases under investigation, which are mostly nonparalytic. These cases were not included in previous histograms. There has not been a case with onset of symptoms since August 1. This emphasizes the abrupt fall-off in the epidemic curve with only 4 cases having onset since the peak week ending July 23.

Poliomyelitis - Rhode Island, 1960



B. New York City

Dr. Harold F. Fuerst, Bureau of Preventable Diseases, New York City Department of Health, reports 7 additional cases of poliomyelitis, 4 paralytic, during the past week. This brings the 1960 total in New York City to 28 cases, of which 21 are paralytic. Of 27 cases with known onset, 17 have occurred since the week ending June 25 as follows:

Week Ending:
$$\frac{6-25}{1}$$
 $\frac{7-2}{2}$ $\frac{7-9}{4}$ $\frac{7-16}{3}$ $\frac{7-23}{4}$ $\frac{7-30}{4}$

Of the 21 paralytic cases, ll are unvaccinated, 4 have received two doses of vaccine and the remaining 6 have had three or more doses. As reported last week, the majority of cases are among the Puerto Rican population. There have been numerous Type I poliovirus isolations and one Type II poliovirus isolation this year in New York City.

C. New Jersey

Dr. William J. Dougherty, Director, Preventable Disease Control, New Jersey State Department of Health reports a sudden cluster of 9 paralytic cases of poliomyelitis in a low socio-economic area within both Jersey City and Hoboken. All of the cases have occurred since July 15, and are under ten years of age. Of the 9 cases, 8 have had no vaccine. The outbreak involves the Puerto Rican population, as did the localized outbreak previously reported in Chicago (see PSU Report No. 204).

An intensive vaccination program has been set up in the lower socioeconomic areas, with 2,047 doses of vaccine given in Hoboken during the last 3 days. Of these, 1,003 - or almost half - were first doses for unimmunized persons.

Through August 11, there have been 24 paralytic cases in New Jersey. (This includes the 9 aforementioned cases.) Of these 24 cases, 20 are unvaccinated. Type I poliovirus has been isolated.

D. North Carolina - South Carolina

The following reports have been received from Dr. Fred T. Foard, Director, Division of Epidemiology, North Carolina State Board of Health, and Dr. G.E. McDaniel, Director, Communicable Disease Control, South Carolina State Board of Health.

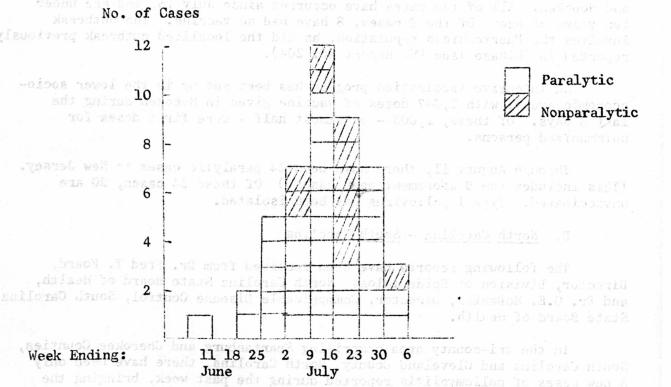
In the tri-county area comprising Spartanburg and Cherokee Counties, South Carolina and Cleveland County, North Carolina, there have been only 3 new cases of poliomyelitis reported during the past week, bringing the area total to 46 cases, 35 paralytic, since June 11. Of the 35 paralytic cases, only 3 (8.6 percent) have received three or more doses of vaccine while 23 are unvaccinated. The majority of cases (74 percent) are in the pre-school age group. The cases are distributed as follows:

	7	Cotal Cas	es	1960*	Attack Rate		
County	White	Negro	Total	Census	(100,000)		
Cherokee, S.C.	12	4	16	35,053	45.6		
Cleveland, N.C.	8	4	12	65,377	18.4		
Spartanburg, S.C.	14	4	18	155,274	11.6		
Total	34	12	46	255,704	18.0		

*Preliminary figures.

The following histogram depicts the symmetrical nature of the cases by week of onset. The apparent waning of the outbreak is evident after reaching a peak the week ending July 16. No new case has been reported from Cherokee County, which was hardest hit early in the outbreak. As the outbreak diminishes, a few scattered cases have occurred in surrounding counties.

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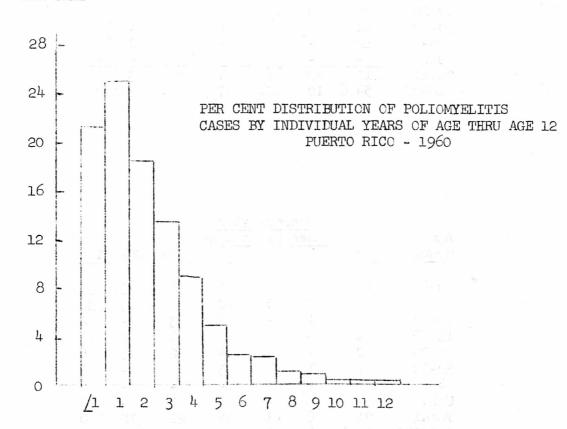
E. Puerto Rico

Through August 6, 1960, Dr. Manuel Feliberti, Epidemiologist, Bureau of Communicable Disease Control, Puerto Rico Department of Health, reports a total of 358 cases of poliomyelitis with onset in 1960. Of these, 353 are paralytic. This represents an increase of 6 paralytic cases since the last report.

Of 289 cases with known vaccination status, only 16 (5.5 percent) have received three doses of Salk vaccine. Conversely, 239 (82.7 percent) have had no vaccine. The remaining 34 cases have received one or two doses.

The epidemic has remained one in which the pre-school age group has been hit the hardest. Of the 358 cases reported, 87 percent have been in this age group. The percent distribution of the cases by individual years of age through age 12 are presented in the histogram below. Two cases over 15 years of age are not included.





3. 1960 POLIOMYELITIS CASES REPORTED TO PSU

Through August 8, there have been 540 cases of poliomyelitis with onset in 1960 reported to PSU on individual case forms. Of these cases, 411 are paralytic, 110 nonparalytic and 19 unspecified These cases are presented below in Table 3:

Lara received rares done of Salk of Half Conversity, 130 (12.7 percent)

POLIOMYELITIS CASES BY PARALYTIC STATUS, AGE GROUP AND VACCINATION STATUS REPORTED ON PSU FORMS (Through August 8, 1960)

		D901102	19 THE					
		. bebr	aralyt	ic			e ary	
Age		Doses	of Va	accine				
Group	0	1	2	3	4.	Unk	r Tot	:
0-4	110	23	24	23	5	9	194	_
5-9	35	6	12	19	10	6	88	
10-14	10	2	4	14	3	2	35	
15-19	9	<u> 1</u>	3	5	1	1	23	
20-29	24	3	2	5	1	2	37	
30-39	12	2	λĻ	1	-	1	20	
74O+	12	-	-	-	-	2	14	
Unk.		-		_	-	-	-	
Total	212	40	49	67	20	23	411	
% DOSES	54.	6 10.	3 12.6	17.3	3 5.2	-	100	.0

Age		Nong Doses	oaraly				
Group	0	1	2	3	4+	Unk	Tot
0-4 5-9 10-14 15-19 20-29 30-39 40+ Unk.	11 4 1 1 2 1	3 2 1 - 1 1	4 5 - 1 2	5 10 7 6 4 3	4 6 3 4 2 1	3 3 - 1 5	30 30 12 13 16 7
		£ € 0	4	-	1		77
Total	21	8	13	35	21	12	110
% DOSES	21.4	3.2	13.3	35.7	21.4		2.00.0

4 ROUTINE POLIOMYELITIS SURVEILLANCE

A. Cases with Onset Within 30 Days of Vaccination

During the past week, there have been no new cases of poliomyelitis, occurring within 30 days of vaccination, reported to the Poliomyelitis Surveillance Unit. Thus, the total reported for the year 1960 remains at 17. Of these, 11 are paralytic (3 correlated) and 6 nonparalytic.

Additional information received on Oregon case T. R. (Deschutes County), which was listed in PSU Report No. 205, indicates site of injection and site of paralysis: right arm; manufacturer and lot number: Wyeth 35303.

B. Vaccine Distribution

The summary of current and cumulative data concerning poliomyelitis vaccine and quadruple antigen vaccine shipped is presented in Table II. The format of this weekly table has been slightly changed as the vaccine exported has been removed from the weekly total, which now represents the domestic total only. The quadruple antigen vaccine shipped, formerly represented by cc's, is now shown by 1000 cc's as is the poliomyelitis vaccine shipped.

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

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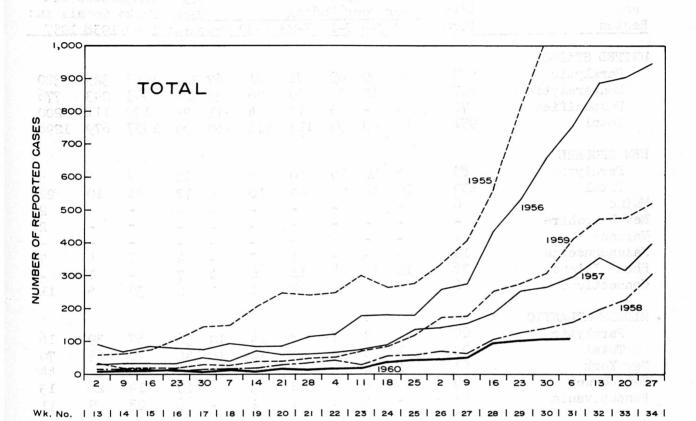
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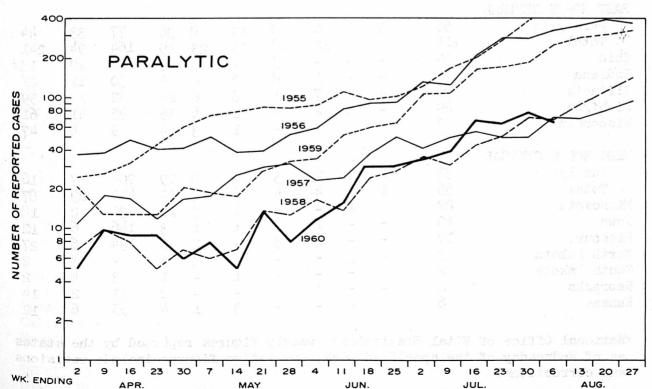
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Figure I CURRENT U.S. POLIO INCIDENCE
COMPARED WITH YEARS 1955-1959; APRIL-AUGUST, BY WEEK

PROVISIONAL DATA SUPPLIED BY NATIONAL OFFICE OF VITAL STATISTICS





TREND OF 1960 POLIOMYELITIS INCIDENCE

State and	Cumula- tive			eport ek En	ed to	NOVS	,	Six Week	Compa		Six
Region	1960	7 - 2	7-9	7-16	7 - 23	7-30	8-6	veek Cotal	1959		
UNITED STATES											
Paralytic	673	34	39	69	71	81	67	361	1015	325	320
Nonparalytic	207	8	10	21	29	26		126	443	243	776
Unspecified	71	_	_	5	13	4	11		139	111	200
Total	951	42	49	95	113	111	110	33 520	1597	679	1296
NEW ENGLAND											
Paralytic	85	8	10	19	10	0	6	62	27	8	
Total	100	10	12	25	14	9			41		5
Maine	6			رے -		10	6	77	41	10	22
New Hampshire	_	_		_	-	-	-	-	-	-	2
Vermont	_	_	_	_	-	-	-	-	-	-	2
Massachusetts	10	_		-	-	-	_	-	-	- 1 1.	
Rhode Island	78	10	12	24	1	3 6	- \	4	9	4	7
Connecticut	6	-	75	1	11	6	4 2	67 6	32	1 5	11
MIDDLE ATLANTIC											
Paralytic	69	1	3	7	2	14	10	20	E77	20	o 16
Total	93	1	3	10	3 4	16	10 14	38	5 7 80	39	
New York	64	ī	2	3	1	12		48		65	70
New Jersey	16	Ţ	_	2	5		11	30	43	28 28	44
Pennsylvania	13	-	1	5	1	3	3	10	14 23	9	15 11
EAST NORTH CENTRAL											
Paralytic	55	3	1	6	8	3.0	0	26	77	22	1.1.
Total	118	4.	1	10	18	10	8	36	7 7 164	33	44
Ohio	30	_	-			13	23	69	48	94	241
Indiana	16	_	_	ī	3	-	6	9		19	53
Illinois	36	4	_		1	2	4	15	30	11	21
Michigan	29		1	7 2	6	8	6	26	32	15	59
Wisconsin	7	` _	-		_ O	2	4	15 4	45 9	41 8	61 47
WEST NORTH CENTRAL											on i
Paralytic	32	1	1	2	2	٠,	0	3.0	001		- (
Total	55	î	ì	4	3 4	4	8	19	204	7	16
Minnesota	22	1	i	- 1 -	4	6	13	29	419	29	87
Iowa	10	_	_ _	1		1	7	10	30	6	18
Missouri	10	_	_	2	3	7	1	3	146	6	12
North Dakota	3	_	_	-	5	130	1 3	6	134	6	27
South Dakota	2		-	-	•			3	-	3 4	2
Nebraska	2		_	1	ī	1	-	Ţ	3		2
Kansas	6		_	Τ.	T	3	-	2	51 55	6	14

*National Office of Vital Statistics: weekly figures reported by the states as of Wednesday of the specified week; cumulative figures include revisions and corrections.

State and	Cumula-				ed to			Six		rable		
	tive 1960				nding		0	Veek	Weeks	Total	s in:	
Region	1900	(-2	1-9	1-10	7-23	7-30	0-0	Total	1959	1958	1957	
SOUTH ATLANTIC	1 6 10											
Paralytic	107	2	5	9	13	14	15	58	155	63	-0	
Total	155	3	5	15	26	24	22	95	204	152	58	
Delaware	- 0	105-	_	_		_	_	-	1		205	
Maryland	2			_		_	11	1	i	1 2	1	
D. C.	-	_	_	_	_	_	_	_	_	4	2	
Virginia	3	i	-	_	8.	2	1	3	52	24	7 20	
West Virginia	13	2	1	1	2	3		9	13	18		
North Carolina	33	1	200	_	4	2	9	16	55	12	7 83	
South Carolina	61	_	2	12	15	14	11	54	14		39	
Georgia	Pg .5	-	-	_	1	_	` <u> </u>	1	35	5 6	15	
Florida	38	-	2	2	4	3	_	11	33	80	31	
									33	00	JI	
EAST SOUTH CENTRAL		-		_								
Paralytic	33	1	3	6	7	5 5	-	22	150	16	27	
Total	37	1	3	6	7	5	1	23	1 7 5	56	125	
Kentucky Tennessee	8	-	-	-	-	-	-	-	7	5	26	
Alabama	5 8		1	1,	1	-	1	4	53	17	55	
Mississippi	16	1	1	1	1	1	-	7	88	7	10	
MISSISSIPPI	10	1	1	1	5	4	-	12	27	27	34	
WEST SOUTH CENTRAL												
Paralytic	79	5	3	7	13	12	6	46	225	80	100	
Total	140	5 8	9	12	22	23	13	87	358	89 157	109	
Arkansas	13	2	í	3	2	2	1	11	84	4	329	
Louisiana	36	3	4	3	4	4	3	21	38	17	20	
Oklahoma	8	_		1	3	, <u>i</u>	ĭ	5	56	. 20	45 48	
Texas	83	3	4	5	13	17	8	50	180	116	216	
1						•					210	
MOUNTAIN	1.07	,			1			_				
Paralytic	17	1	-	-	4	-	-	5	24	12	7	
Total Montana	30	1	-	-	4	1	2	8	41	41	44	
Idaho	12 4	-	-	-	2	-	-	2	2	25	1	
Wyoming	4		-	-	-	-	-	-	2	3	7	
Colorado	4	-	-	-	-	1	2	3	1	A, 🗖 19.4	4	
New Mexico	2	1	-	-	2	-	-	3	5	2	4	
Arizona	3	- P.	-	-	-	-	-	-	13	7	13	
Utah	3 1	-	-	-	-	-	-	-	16	2	8	
Nevada	_	_	_	_	_	-	-	_	-	2	13 8 5 2	
		_	, Ž	_		-	_	-	2		2	
PACIFIC												
Paralytic	196	12	13	13	10	13	14	75	96	58	38	
Total	223	13	15	13	14	13	16	84	115	7 5		
Alaska	2	-	_	-	-		_	_	7	-	173	
Washington	10	÷./*!	_	-	20_ 9	3	_ '	3	18	5		
Oregon	19	_	_	-	2	ĭ	_	3	26	5	12	
California	187	13	15	12	12	9	16	77	64	43	160	
Hawaii	5	-	-	1	-	_	-	i	-	21	±00	
MITTO THE ODIE												
TERRITORY	200	ol.								_		
Puerto Rico	370	24	25	19	31	16	12 .	127	-	6	9	

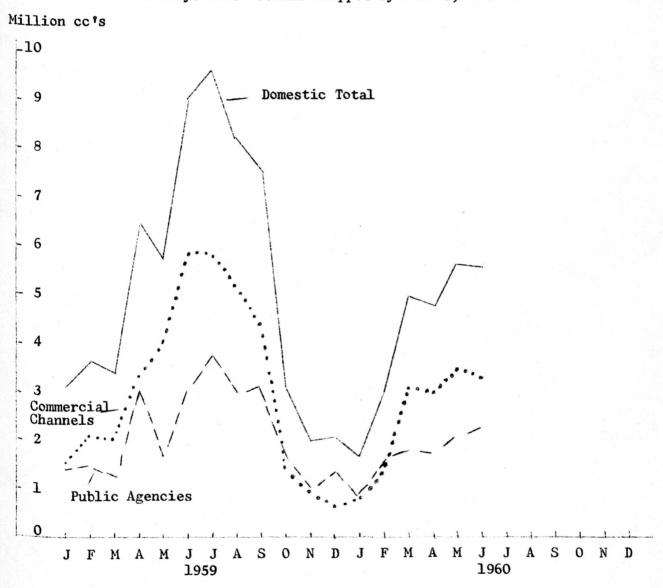
POLIOMYELITIS AND QUADRUPLE ANTIGEN VACCINE REPORTS
(Data provided by the Polio Vaccine Activity, BSS, USPHS, through July 29, 1960)

Table II

POLIOMYELITIS	VACCINE	SHIPPED	(1000's cc's))

	National	Public	Commercial	Domestic	
Period	Foundation	Agencies	Channels	Total	Expor
1055	12 541	7 803	6,223	27,657	a si
1955	13,541 194	7,893	•	•	6,477
1956		45,588	24,784	70,566	
1957	154	50,026	38,062	88,242	12,784
1958	203	18,533	28,319	47,055	33,571
L959	160	26,160	37,553	63,873	21,161
1960					
Jan-March		4,298	5,371	9,669	2,782
April-June	200 may 200	6,149	9,763	15,912	3,498
npi za ouno		Y) /3		,	favol
Week Ending					
7-8	\$00-\$000	480	621	1,101	95
7–15		1,175	500	1,675	106
7-22		245	608	853	70
The street of the second		240	000		, ,
1960 Total to Date		12,347	16,863	29,210	6,551
umulative Total	14,252	160,547	151,804	326,603	80,544
OUA	DOUBLE ANTIC	EN VACCINI	E SHIPPED (10	00's cc's)	
<u>₩</u> UA	DRUPLE ANTIG	VACCINI	E SHILLED (TO	00.5 (0.5)	
	5 180 C - XV				
959		157	4,020	4,177	59
			- F	fi nlm	
960		± -			
Jan-March		118	1,308	1,426	65
April-June		165	1,928	2,093	62
leek Ending					
7-8		14	148	162	2 2 2 2
7-15		9	124	133	13
7-22		13	149	162	1
.960 Total to Date		319	3,657	3,976	143
Cumulative Total		476	7,677	8,153	202
RAND TOTAL	14,252	161,023	159,481	334,756	80,746
MAND TOTAL	14,232	101,023	TO9, 401	334, 730	00,140

FIGURE II
Poliomyelitis Vaccine Shipped by Months; 1959-60



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Policmyelitis Vaccine Shipped by Months; 1959-60

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Domestic Total

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