



POLIOMYELITIS SURVEILLANCE REPORT

FOR ADMINISTRATIVE USE

REPORT NO. 202 July 15, 1960

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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

Poliomyelitis incidence, both total and paralytic cases, continues to remain at low levels with only an expected slight increase reported this week.

There is no change in the geographic distribution throughout the country with over half the total cases being reported from Rhode Island and California. Narrative reports are presented from California and the continuing epidemics in Rhode Island and Puerto Rico.

1. CURRENT POLIOMYELITIS MORBIDITY TRENDS

A total of 49 cases, 39 paralytic, was reported to the National Office of Vital Statistics during the 27th week of 1960, ending July 9. This represents a slight increase over the 44 total cases, 35 paralytic, reported last week to NOV5 (See Table I).

The 1960 cumulative total has now reached 526 cases of which 388 or 73.8 percent are paralytic. This high percentage of paralytic cases during 1960 most likely reflects greater accuracy in the reporting of poliomyelitis. These figures compared with the past four years are as follows:

	<u>Total through 27th Week for Five Years</u>				
	<u>1960</u>	<u>1959</u>	<u>1958</u>	<u>1957</u>	<u>1956</u>
Paralytic	388	805	368	678	1,572
Total	526	1,203	710	1,567	2,990
% Paralytic	73.8	66.9	51.8	43.3	52.6

Paralytic and total cases for the past six-week period remain below those for any recent year.

	<u>Total for 22nd - 27th Week for Five Years</u>				
	<u>1960</u>	<u>1959</u>	<u>1958</u>	<u>1957</u>	<u>1956</u>
Paralytic	162	435	170	230	597
Total	211	673	331	657	1,194

The geographic pattern throughout the nation remains the same with 55 percent of the total cases reported from California and Rhode Island. (See Section 2 - Reports) Seven cases reported from Louisiana during the past two weeks were scattered throughout the State. Of seven cases reported from Texas for the same period, five were nonparalytic.

2. REPORTS

A. Rhode Island

Dr. R.A. McAteer, Medical Director, Division of Communicable Diseases, Rhode Island Department of Health, reports 20 new cases of poliomyelitis during the past week in the metropolitan Providence area. This sharp rise brings the Rhode Island total of reported cases to 50, of which 40 are paralytic. In addition, to these 50 cases, Dr. Joseph Oren, Chief, Poliomyelitis Surveillance Unit, CDC, assisting Dr. McAteer, cites another 11 cases under investigation.

Only 3 (7.5 percent) of the 40 paralytic cases have received three or more inoculations of Salk vaccine, while 20 are unvaccinated. Over 90 percent of the paralytic cases are under 10 years of age with 50 percent in the pre-school age group. The paralytic cases are presented below by age group and immunization status:

Age Group	Vaccination Status						Total
	0V	1V	2V	3V	4+V	Unk.	
0-4	11	4	4	0	1	0	20
5-9	7	4	3	2	0	1	17
10-19	1	0	1	0	0	0	2
20+	<u>1</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>1</u>
Total	20	8	8	2	1	1	40

Dr. Oren reports the following geographic distribution which includes those cases under investigation.

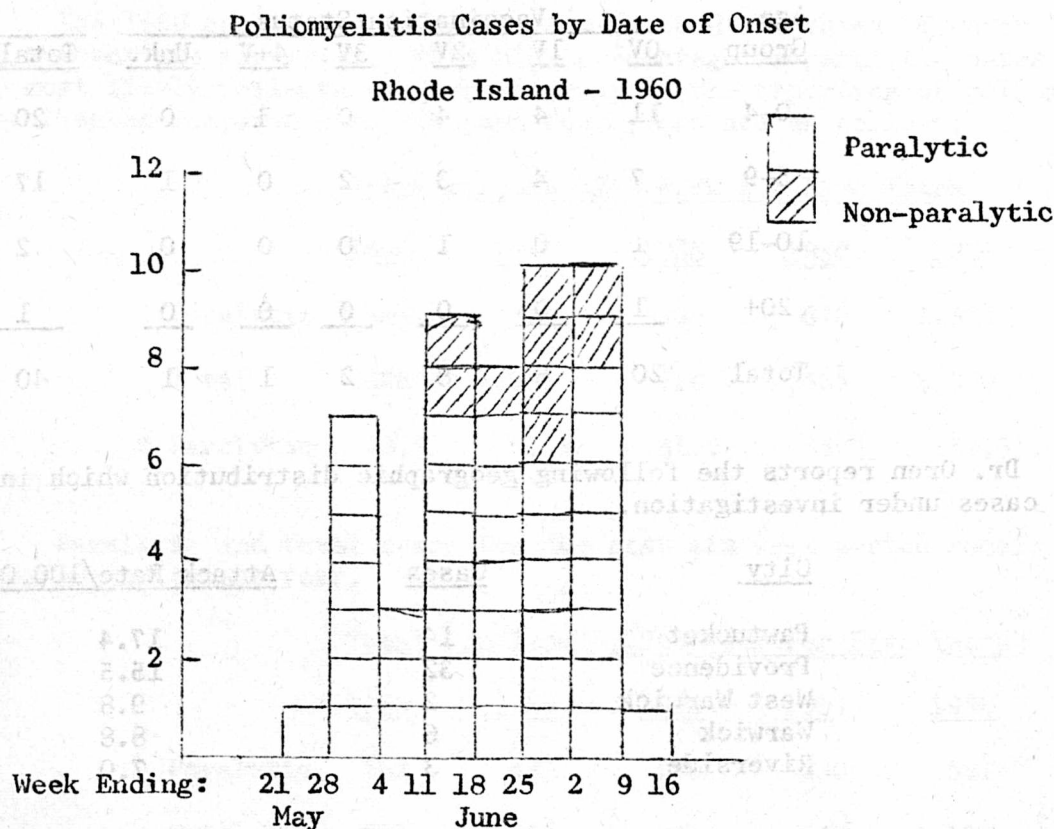
<u>City</u>	<u>Cases</u>	<u>Attack Rate/100,000</u>
Pawtucket	14	17.4
Providence	32	15.5
West Warwick	2	9.8
Warwick	6	8.8
Riverside	3	7.0

There has also been one case each reported from the towns of East Greenwich, Pascoag, Smithfield, and Woonsocket. All 14 cases occurring in Pawtucket are centered in one housing project of low socioeconomic status. Within the city limits of Providence, there has been no marked geographic concentration of low socioeconomic cases such as occurred last year in the Des Moines and Kansas City epidemics. However, there is no large and concentrated slum area in Providence, but rather a number of scattered small depressed areas. Visits to the homes of cases reveal that the large majority have occurred among families in the lower socioeconomic groups and in low cost housing developments.

There are now 12 cases reported with bulbar involvement. One more death in an 8 year-old white male has been reported which brings the fatality total to two.

Great expansion in the vaccination program has occurred since the start of the epidemic. There have been 135,000 doses of vaccine supplied by the State Health Department for use by clinics, health departments, the medical society, newspapers, and other local agencies. In addition, vaccine is being given by private physicians. The reported cases with known onset are presented in the histogram below, which indicates that the peak of this outbreak has not yet been reached.

Figure 2A



B. California

Dr. Henry A. Renteln, Surveillance Unit, Bureau of Acute Communicable Diseases, California State Department of Public Health, reports a total of 109 cases of paralytic poliomyelitis in California through July 2, 1960. This total represents an increase of 20 cases over the 89 paralytic cases reported at this time last year.

Southern California, which experiences an earlier polio season than other parts of the State, has accounted for 73 or 67 percent of the cases reported at this date. The increase for the State as a whole is reflected in this area's incidence for 1960 as compared to 1959:

Cumulative Total through 26th Week

<u>County</u>	<u>1960</u>	<u>1959</u>
Kern	2	5
Imperial	1	0
Los Angeles City	21	14
Los Angeles County	25	25
Orange	3	3
Riverside	1	0
San Bernadino	5	4
San Diego	13	1
San Luis Obispo	0	3
Santa Barbara	1	0
Ventura	<u>1</u>	<u>0</u>
Total	73	55

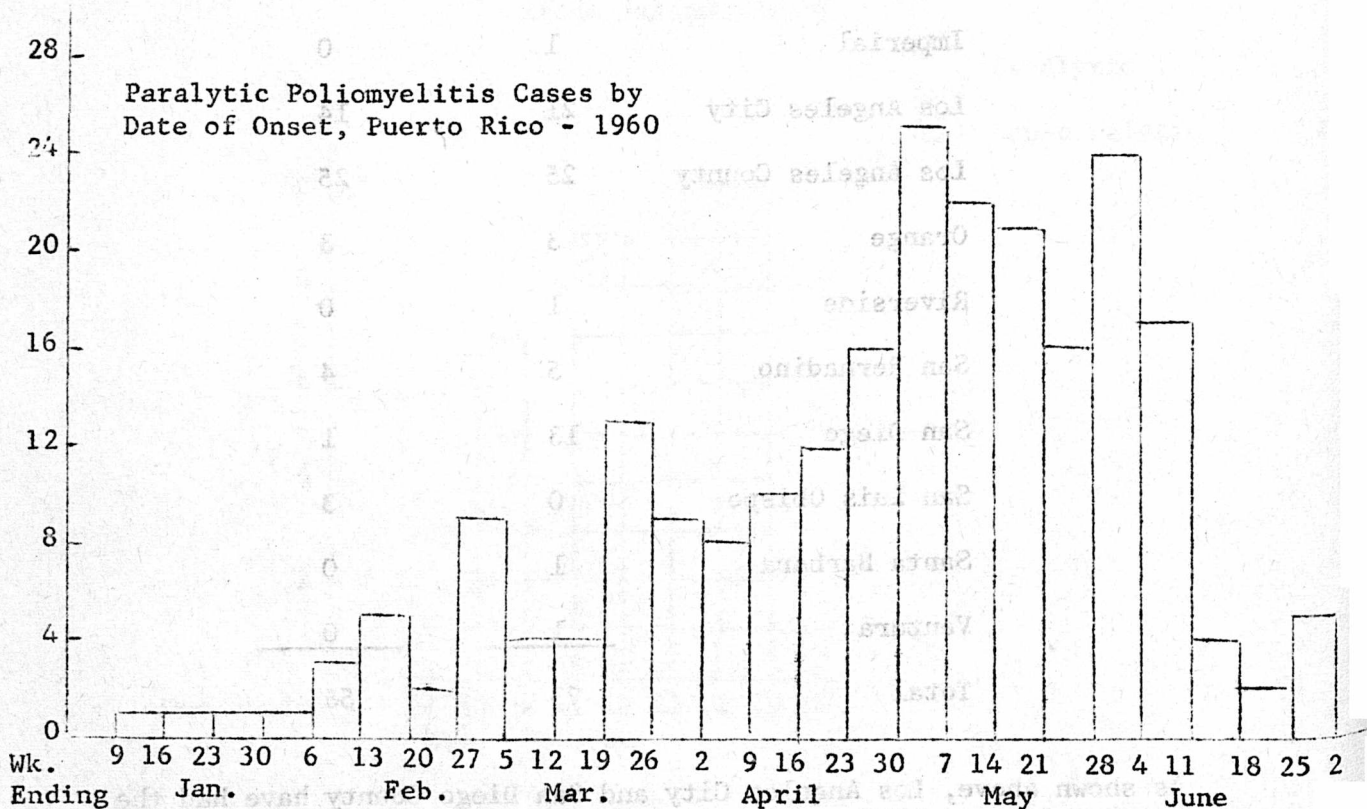
As shown above, Los Angeles City and San Diego County have had the greatest increase over 1959. These two areas have a large population and no unusual concentration of cases has been noted. There has been very few cases reported from Northern California. The remainder of the cases reported are scattered throughout several small rural counties surrounding the San Francisco Bay area.

C. Puerto Rico

The epidemic in Puerto Rico continues at a steady pace. Through July 13, 1960, Dr. Manuel Feliberti, Epidemiologist, Bureau of Communicable Disease Control, Puerto Rico Department of Health, reports the occurrence of 299 cases of poliomyelitis with onset in 1960. Of these cases, 294 are paralytic. This represents an increase of 24 paralytic cases during the past week.

The date of onset is now known for 235 paralytic cases and is presented in Figure 2C. The occurrence of cases reached a high during the week ending May 7 and continued with high weekly incidence through June 4. Thus, the histogram gives the appearance of a plateau during the month of May rather than a peak. It must be noted that onset of symptoms is not known for 57 of the more recently reported cases which indicates a continued high incidence during the entire month of June.

Figure 2C



3. 1960 POLIOMYELITIS CASES REPORTED TO PSU

Through July 11, there have been 270 cases of poliomyelitis with onset in 1960 reported to PSU on individual case forms. Of these cases, 202 or 75 percent are paralytic.

These cases are presented in Table 3 by paralytic status, age group and vaccination history for the initial time this year.

Table 3

Poliomyelitis Cases by Paralytic Status, Vaccination History and Age Group Reported on PSU Forms (through July 11, 1960)

Age Group	<u>Paralytic</u>							<u>Nonparalytic</u>							Unspecified Total	<u>TOTAL</u>
	<u>Doses of Vaccine</u>							<u>Doses of Vaccine</u>								
	0	1	2	3	4+	Unk	Tot	0	1	2	3	4+	Unk.	Tot		
0-4	51	5	8	14	5	3	86	6	-	-	4	2	2	14	4	104
5-9	13	2	7	10	5	3	40	-	1	-	6	2	1	10	2	52
10-14	6	1	3	9	1	1	21	-	-	-	5	1	-	6	3	30
15-19	7	3	1	3	-	-	14	1	-	1	3	2	1	8	3	25
20-29	13	1	1	4	1	1	21	1	1	2	3	1	3	11	1	33
30-39	7	1	3	1	-	1	13	1	-	1	2	1	-	5	-	18
40+	6	-	-	-	-	1	7	1	-	-	-	-	-	1	-	8
Unk.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	103	13	23	41	12	10	202	10	2	4	23	9	7	55	13	270

4. ROUTINE POLIOMYELITIS SURVEILLANCE - 1960

A. Cases with Onset Within 30 Days of Vaccination

There have been two additional under 30-day cases reported to the Polio Surveillance Unit during the past week. Both cases are nonparalytic. This brings the 1960 total to six cases, of which three are paralytic. The paralytic cases are presented in Table II which tabulates data pertinent to continued surveillance of vaccination safety.

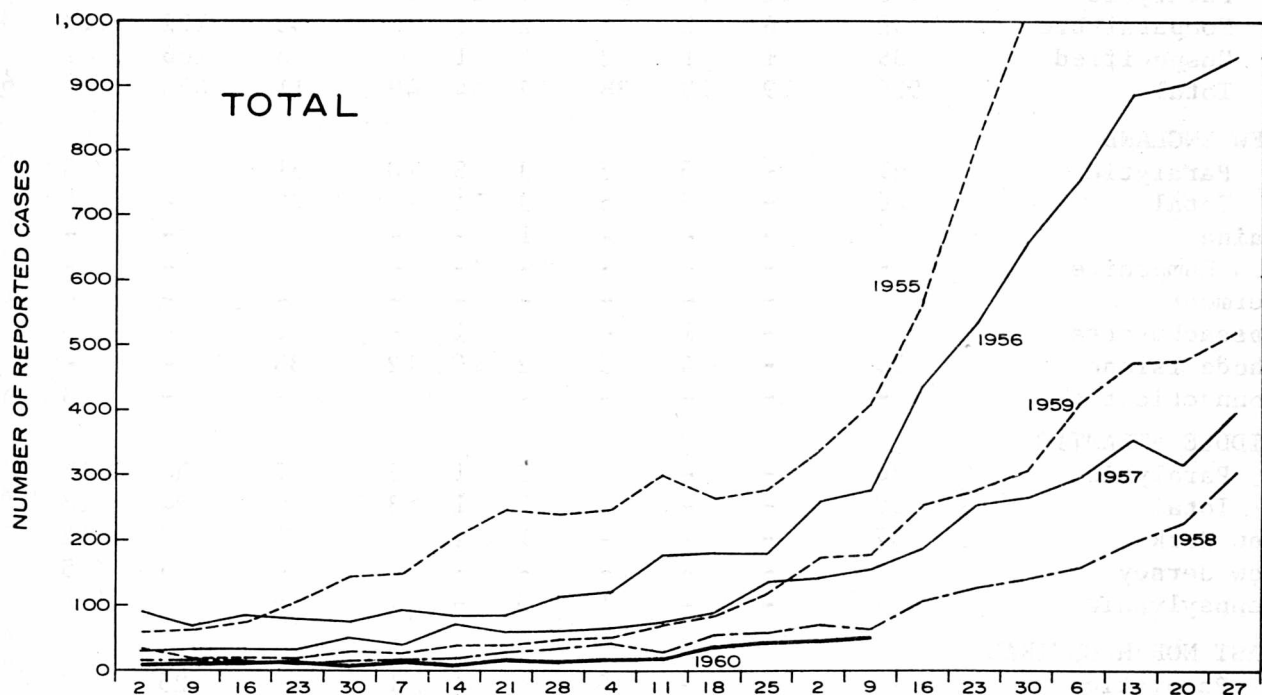
B. Vaccine Distribution

A summary of current and cumulative data concerning vaccine released, shipped and inventoried is presented in Table III. Also included are releases and shipments of quadruple antigen.

(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.)

Figure 1 CURRENT U.S. POLIO INCIDENCE
COMPARED WITH YEARS 1955-1959; APRIL-AUGUST, BY WEEK

PROVISIONAL DATA SUPPLIED BY NATIONAL OFFICE OF VITAL STATISTICS



Wk. No. | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 |

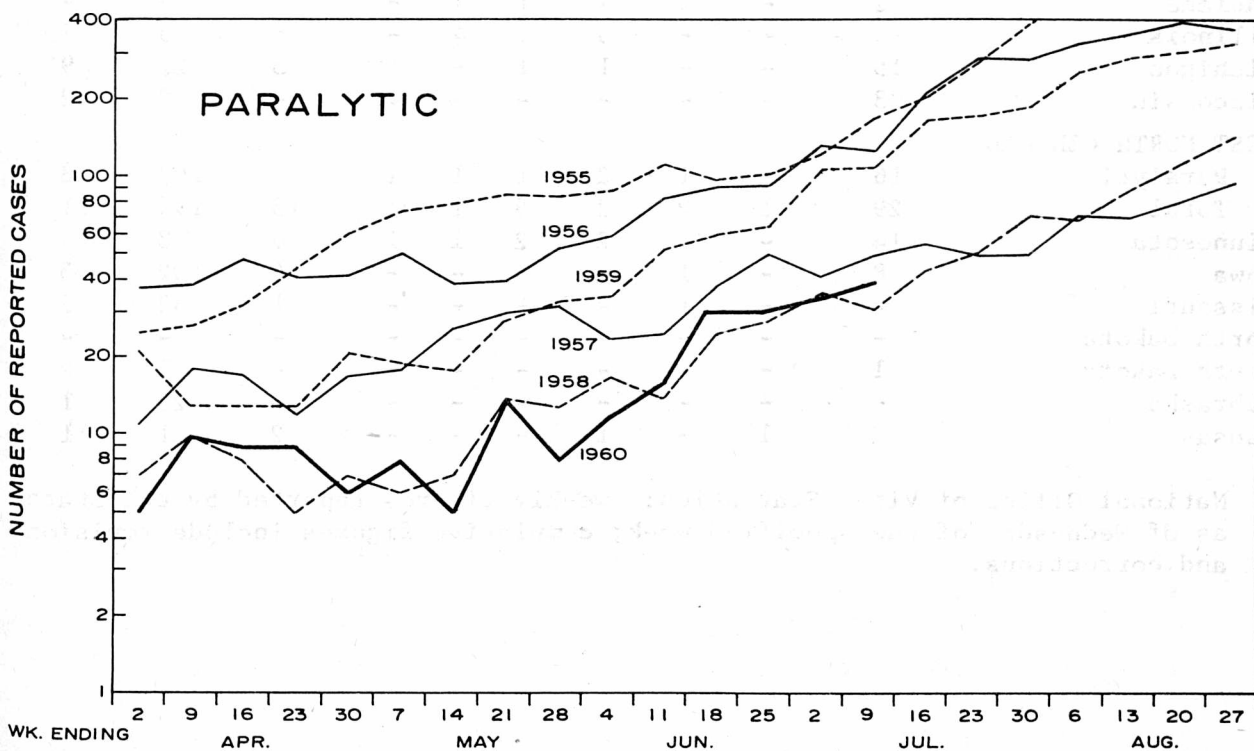


Table I

TREND OF 1960 POLIOMYELITIS INCIDENCE

State and Region	Cumula- tive 1960	Cases Reported to NOVS*						Six Week Total	Comparable Six Weeks Totals in		
		For Week Ending							1959	1958	1957
		6-4	6-11	6-18	6-25	7-2	7-9				
UNITED STATES											
Paralytic	388	12	16	31	29	35	39	162	435	170	230
Nonparalytic	99	6	2	5	12	8	10	43	172	119	351
Unspecified	39	1	1	2	1	1	-	6	66	42	76
Total	526	19	19	38	42	44	49	211	673	331	657
NEW ENGLAND											
Paralytic	41	-	5	5	3	8	10	31	-	5	-
Total	46	-	5	5	3	11	12	36	-	6	5
Maine	6	-	-	-	1	-	-	1	-	-	-
New Hampshire	-	-	-	-	-	-	-	-	-	-	-
Vermont	-	-	-	-	-	-	-	-	-	-	-
Massachusetts	7	-	1	-	-	1	-	2	-	3	2
Rhode Island	33	-	4	5	2	10	12	33	-	-	-
Connecticut	-	-	-	-	-	-	-	-	-	3	3
MIDDLE ATLANTIC											
Paralytic	36	-	-	-	3	1	3	7	16	11	8
Total	50	-	-	1	4	1	3	9	24	18	22
New York	37	-	-	-	1	1	2	4	17	12	17
New Jersey	6	-	-	-	-	-	-	-	6	5	4
Pennsylvania	7	-	-	1	3	-	1	5	1	1	1
EAST NORTH CENTRAL											
Paralytic	23	-	-	5	-	4	1	10	25	7	10
Total	55	1	-	5	3	6	1	16	58	18	43
Ohio	21	1	-	1	-	1	-	3	24	-	9
Indiana	2	-	-	-	1	1	-	2	6	-	6
Illinois	14	-	-	3	1	4	-	8	5	7	8
Michigan	15	-	-	1	1	-	1	3	21	9	15
Wisconsin	3	-	-	-	-	-	-	-	2	2	5
WEST NORTH CENTRAL											
Paralytic	16	-	1	2	1	1	1	6	103	3	8
Total	29	1	2	3	5	1	1	13	190	11	35
Minnesota	14	-	-	2	2	1	1	6	8	-	1
Iowa	8	-	1	-	3	-	-	4	102	5	8
Missouri	4	-	1	-	-	-	-	1	33	2	12
North Dakota	-	-	-	-	-	-	-	-	-	-	-
South Dakota	1	-	-	-	-	-	-	-	1	2	3
Nebraska	-	-	-	-	-	-	-	-	25	1	6
Kansas	2	1	-	1	-	-	-	2	21	1	5

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

Table 1 (Continued)

State and Region	Cumula- tive 1960	Cases Reported to NOVS For Week Ending						Six Week Total	Comparable Six Weeks Totals in:		
		6-4	6-11	6-18	6-25	7-2	7-9		1959	1958	1957
SOUTH ATLANTIC											
Paralytic	56	1	1	3	5	2	5	17	60	34	42
Total	68	1	1	4	5	3	5	19	79	76	88
Delaware	-	-	-	-	-	-	-	-	1	1	1
Maryland	1	-	-	-	-	-	-	-	-	-	4
D. C.	-	-	-	-	-	-	-	-	-	-	-
Virginia	-	-	-	-	-	-	-	-	15	10	8
West Virginia	7	-	-	-	-	2	1	3	4	7	3
North Carolina	18	1	1	-	1	1	-	4	18	9	15
South Carolina	9	-	-	3	1	-	2	6	6	2	32
Georgia	4	-	-	-	1	-	-	1	18	11	11
Florida	29	-	-	1	2	-	2	5	17	36	14
EAST SOUTH CENTRAL											
Paralytic	15	-	-	-	-	1	3	4	53	6	13
Total	18	-	-	1	-	1	3	5	70	26	81
Kentucky	8	-	-	1	-	-	-	1	4	4	5
Tennessee	2	-	-	-	-	-	1	1	15	7	46
Alabama	2	-	-	-	-	-	1	1	29	3	6
Mississippi	6	-	-	-	-	1	1	2	22	12	24
WEST SOUTH CENTRAL											
Paralytic	42	2	4	1	1	6	3	17	122	53	122
Total	70	7	5	1	4	8	9	34	177	104	275
Arkansas	5	-	-	-	-	2	1	3	38	3	15
Louisiana	22	4	1	-	-	3	4	12	24	12	43
Oklahoma	3	-	-	-	-	-	-	-	29	12	23
Texas	40	3	4	1	4	3	4	19	86	77	194
MOUNTAIN											
Paralytic	13	1	2	-	1	1	-	5	16	6	6
Total	23	1	3	1	1	1	-	7	28	12	24
Montana	10	-	3	-	1	-	-	4	1	4	-
Idaho	4	-	-	-	-	-	-	-	3	-	1
Wyoming	1	-	-	-	-	-	-	-	1	-	2
Colorado	2	-	-	-	-	1	-	1	2	2	4
New Mexico	2	-	-	1	-	-	-	1	7	4	8
Arizona	3	1	-	-	-	-	-	1	14	2	4
Utah	1	-	-	-	-	-	-	-	-	-	4
Nevada	-	-	-	-	-	-	-	-	-	-	1
PACIFIC											
Paralytic	146	8	3	15	14	12	13	65	40	45	21
Total	167	8	3	17	16	13	15	72	47	60	84
Alaska	2	-	1	-	-	-	-	1	-	-	-
Washington	7	-	-	-	-	-	-	-	5	2	-
Oregon	16	-	-	4	-	-	-	4	6	6	4
California	138	7	2	13	16	13	15	66	36	33	80
Hawaii	4	1	-	-	-	-	-	1	-	19	-
TERRITORIES											
Puerto Rico	292	20	25	36	31	24	25	161	-	3	2

Table II

PARALYTIC POLIOMYELITIS OCCURRING WITHIN 30 DAYS OF LAST VACCINE INOCULATION
(Cases Reported to PSU from January 1 through June 30, 1960)

State	County	Ini- tials	Age	Sex	Date Inoc.	Mfr.	Lot No.	Date First Symp.	Site Inoc.	Site First Para.
Calif.	San Joaquin	J. L.	2	F	5-12-60	P-D	06059A	5-21-60	Rt. Deltoid	Rt. Shoulder
La.	E. B. Rouge	B. D.	6 mo.	F	2-3-60	Lilly	746989	2-4-60	L. A.	L. L.
(Comment: Polio Type III isolated from stool specimen)										
Hawaii	Oahu	P. V.	1	F.	3-28-60	M.S&D	55640	3-3-60	Rt. Gluteal Muscle	L.L.

Table III

POLIOMYELITIS AND QUADRUPLE ANTIGEN VACCINE REPORTS*

(Data provided by the Polio Vaccine Activity, BSS, USPHS, through July 1, 1960)

POLIOMYELITIS VACCINE SHIPPED (1000's cc's)

Period	National Foundation	Public Agencies	Commercial Channels	Export	Total
1955	13,541	7,893	6,223	--	27,657
1956	194	45,588	24,784	6,477	77,043
1957	154	50,026	38,062	12,784	101,026
1958	203	18,533	28,319	33,571	80,626
1959	160	26,160	37,553	21,161	85,034
1960					
Jan-March	--	4,298	5,371	2,782	12,451
April	--	1,786	2,991	1,294	6,071
May	--	2,093	3,496	1,099	6,688
<u>Week Ending</u>					
6-3	--	420	579	80	1,079
6-10	--	158	654	137	949
6-17	--	799	666	125	1,590
6-24	--	454	729	624	1,807
Total to Date	--	10,008	14,486	6,141	30,635
Cumulative Total	14,252	158,208	149,427	80,134	402,021

* Excludes amounts of outdated unshipped vaccine.

QUADRUPLE ANTIGEN VACCINE SHIPPED (in cc's)

Period	Public Agencies	Commercial Channels	Export	Total
1959	157,251	4,019,577	59,143	4,235,971
1960				
Jan-March	117,915	1,307,923	64,700	1,490,538
April	43,317	502,731	1,989	548,037
May	60,156	604,436	27,117	691,709
<u>Week Ending</u>				
6-3	3,038	187,092	9,273	199,403
6-10	20,542	160,108	1,374	182,024
6-17	10,453	187,213	5,925	203,591
6-24	23,022	157,770	14,610	195,402
Total to Date	278,443	3,107,273	124,988	3,510,704
Cumulative Total	435,694	7,126,850	184,131	7,746,675

