



POLIOMYELITIS SURVEILLANCE REPORT

FOR ADMINISTRATIVE USE

REPORT NO. 207

AUGUST 19, 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

There was a moderate increase in both total and paralytic poliomyelitis reported to NOVS this week. Although there were increases reported from most regions of the country, inquiries into these areas failed to reveal any new major concentrations of cases or increases in outbreaks currently underway. Not yet reflected in NOVS figures is a reported concentration of cases in Central Kentucky.

Narrative reports are included from Rhode Island, New York City, New Jersey, Indiana, North Carolina-South Carolina, Florida, Kentucky, and Puerto Rico.

1. CURRENT POLIOMYELITIS MORBIDITY TRENDS

A total of 123 cases, 91 paralytic, was reported to the National Office of Vital Statistics during the 32nd week of 1960, ending August 13. These figures represent an increase over the 110 total and 67 paralytic cases reported last week (See Table I). During the corresponding week in 1959, a total of 476 cases, 279 paralytic, was reported to NOVS.

The 1960 cumulative total now stands at 1,074 cases, of which 764 (71.1 percent) are paralytic. Although the total number of cases for the past six-week period is lower than the total number of cases for the corresponding period during the past four years, the number of paralytic cases is higher than in 1957 and 1958. These figures are presented below:

	<u>Total for 27th through 32nd Week for Five Years</u>				
	<u>1960</u>	<u>1959</u>	<u>1958</u>	<u>1957</u>	<u>1956</u>
Paralytic	418	1,198	383	348	1,604
Total	603	1,898	813	1,510	3,550

Small increases were reported from all regions with the exception of the New England and West North Central regions. There are no new epidemics reflected in the NOVS figures and those previously reported have shown no major increases.

2. REPORTS

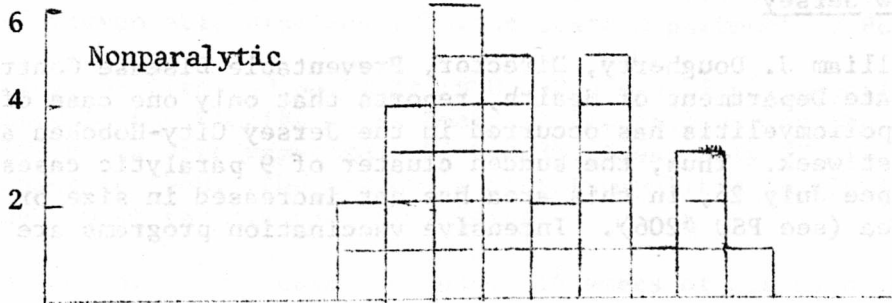
A. Rhode Island

Dr. R.F. McAteer, Medical Director, Division of Communicable Diseases, Rhode Island Department of Health, reports only one nonparalytic case of 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 17, to 80, of which 64 are paralytic. These paralytic cases were presented by age group and vaccination status last week in PSU No. 206.

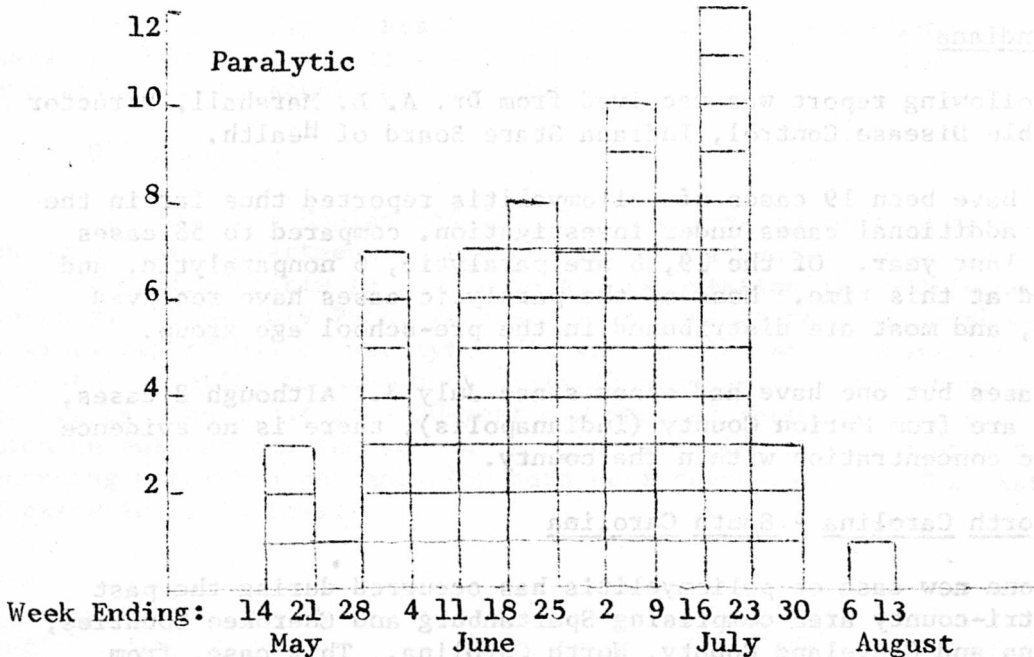
There remain an additional 18 cases, of which only 5 are paralytic, under investigation by Dr. Joseph Oren, Chief, Poliomyelitis Surveillance Unit. The following histogram, which includes these cases under investigation, is presented by paralytic status. It can be seen that more than half of the cases with onset during the past three weeks have been non-paralytic.

POLIOMYELITIS CASES - RHODE ISLAND - 1960

Number of Cases



Number of Cases



B. New York City

Dr. Harold F. Fuerst, Bureau of Preventable Diseases, New York City Department of Health, reports 7 additional cases of poliomyelitis, 6 paralytic, during the past week. This brings the 1960 total in New York City to 35, of which 27 are paralytic. At this time last year, there were only 21 total cases reported.

Of the 35 cases reported through August 16, 26 have occurred since July 1, as follows:

Week Ending:	<u>7-2</u>	<u>7-9</u>	<u>7-16</u>	<u>7-23</u>	<u>7-30</u>	<u>8-6</u>	<u>8-13</u>	<u>Unk.</u>	<u>Total</u>
No. of Cases:	2	5	3	4	6	3	1	2	26

Over half the paralytic cases (15 out of 27) are unvaccinated while 7 have received three or more doses of vaccine. The cases are still scattered throughout the city in low socio-economic groups. There have now been 23 cases among the Puerto Rican population.

C. New Jersey

Dr. William J. Dougherty, Director, Preventable Disease Control, New Jersey State Department of Health, reports that only one case of nonparalytic poliomyelitis has occurred in the Jersey City-Hoboken area during the past week. Thus, the sudden cluster of 9 paralytic cases, 8 with onset since July 26, in this area has not increased in size or geographic area (see PSU #206). Intensive vaccination programs are still underway.

Through August 18, there have now been 27 paralytic cases in New Jersey, of which 22 are unvaccinated.

D. Indiana

The following report was received from Dr. A. L. Marshall, Director of Communicable Disease Control, Indiana State Board of Health.

There have been 19 cases of poliomyelitis reported thus far in the State with 3 additional cases under investigation, compared to 58 cases at this time last year. Of the 19, 8 are paralytic, 6 nonparalytic, and 5 unspecified at this time. None of the paralytic cases have received Salk vaccine, and most are distributed in the pre-school age group.

All cases but one have had onset since July 3. Although 8 cases, 4 paralytic, are from Marion County (Indianapolis), there is no evidence of geographic concentration within the county.

E. North Carolina - South Carolina

Only one new case of poliomyelitis has occurred during the past week in the tri-county area comprising Spartanburg and Cherokee Counties, South Carolina and Cleveland County, North Carolina. This case, from

Spartanburg County, brings the area total to 47 cases, 36 paralytic, through August 17.

Dr. G. E. McDaniel, Director, Communicable Disease Control, South Carolina State Board of Health, states that the remaining 11 cases reported to NOVS for the week ending August 13, are scattered elsewhere in the State. Greenville and Union Counties have each had 6 cases thus far in 1960 with no concentration within the county.

Dr. Fred T. Foard, Director, Division of Epidemiology, North Carolina State Board of Health, reports no new cases during the past week. There have now been 27 cases with onset in 1960 as compared to 89 cases at this time last year. Of these cases, 21 are paralytic with the following vaccination status:

<u>Doses of Vaccine:</u>	<u>OV</u>	<u>1V</u>	<u>2V</u>	<u>3V</u>	<u>4+V</u>	<u>Unk.</u>	<u>Total</u>
<u>Paralytic Cases:</u>	7	2	6	4	1	1	21

F. Florida

The following report has been received from Dr. James Bond, Director, Division of Preventable Diseases, Florida State Department of Health.

During the first 30 weeks of 1960, 38 cases of poliomyelitis have been reported to the Florida State Board of Health. During the same period in 1959, 104 cases were reported. Of the 38 cases, only 27, 19 paralytic, have had onset in 1960. The incidence of poliomyelitis in Florida during 1960 is the lowest for the past five years.

Nineteen of the 27 cases are under 14 years of age with 10 being under 5 years. Two-thirds of the cases have not completed their Salk immunization.

Poliovirus Type I has been isolated from five patients. In two cases, poliovirus Type III was found and both Type I and Type III virus were found in the stools of two other cases.

G. Kentucky

Dr. Patricia Conlan and Mr. Clifford Todd, Bureau of Medical Services, Kentucky State Department of Health, reports a concentration of suspect cases of poliomyelitis in Taylor County (population 17,000) in central Kentucky. Since July 29th, 14 cases have come to notice. Although the original report was of paralytic disease in all cases, subsequent review shows the majority to have non-paralytic disease. So far there have been two deaths, the first in a 20-year old who had anterior horn cell degeneration on autopsy and the second in a 66-year old who was stated to have ascending paralysis and anterior horn cell degeneration. The listing of cases is as follows:

Date of Onset	Town	County	Age	Race	Sex	Salk Vaccine	Paralytic Status
7/29	Campbellsville	Taylor	20	W	M	0	P (?)
8/8	"	"	66	W	F	0	Died 8/15
8/8	"	"	20	W	M	2	Died 8/11
8/8	"	"	15	W	M	0	NP
8/9	"	"	15	W	M	0	NP
8/9	"	"	15	W	F	0	P - (weakness) Bulbar (?)
*8/10	Rural	"	15	W	M	0	P - inter-costal (?)
*8/10	"	"	8	W	F	0	NP
8/13	Campbellsville	"	17	W	M	0	NP
8/13	Dunnsville	Adair	15	W	F	3	NP
8/14	Campbellsville	Taylor	6	W	F	2	P (?)
8/16	"	"	22	W	F	0	P (?)
8/17	"	"	29	W	M	?	NP
8/17	"	"	20	W	F	0	P (?)

* Cases are siblings on a farm.

This group of cases is seen to be unusual in age distribution for poliomyelitis. So far, no common epidemiologic factors have been found and no other reports of mild disease in the community are given. The cases from Campbellsville, which has a population of 6,500, have been in the low socio-economic group. Laboratory specimens have been collected for the Kentucky State Health Department laboratories and for the Kansas City Field Station, CDC, who are assisting the State in the investigation.

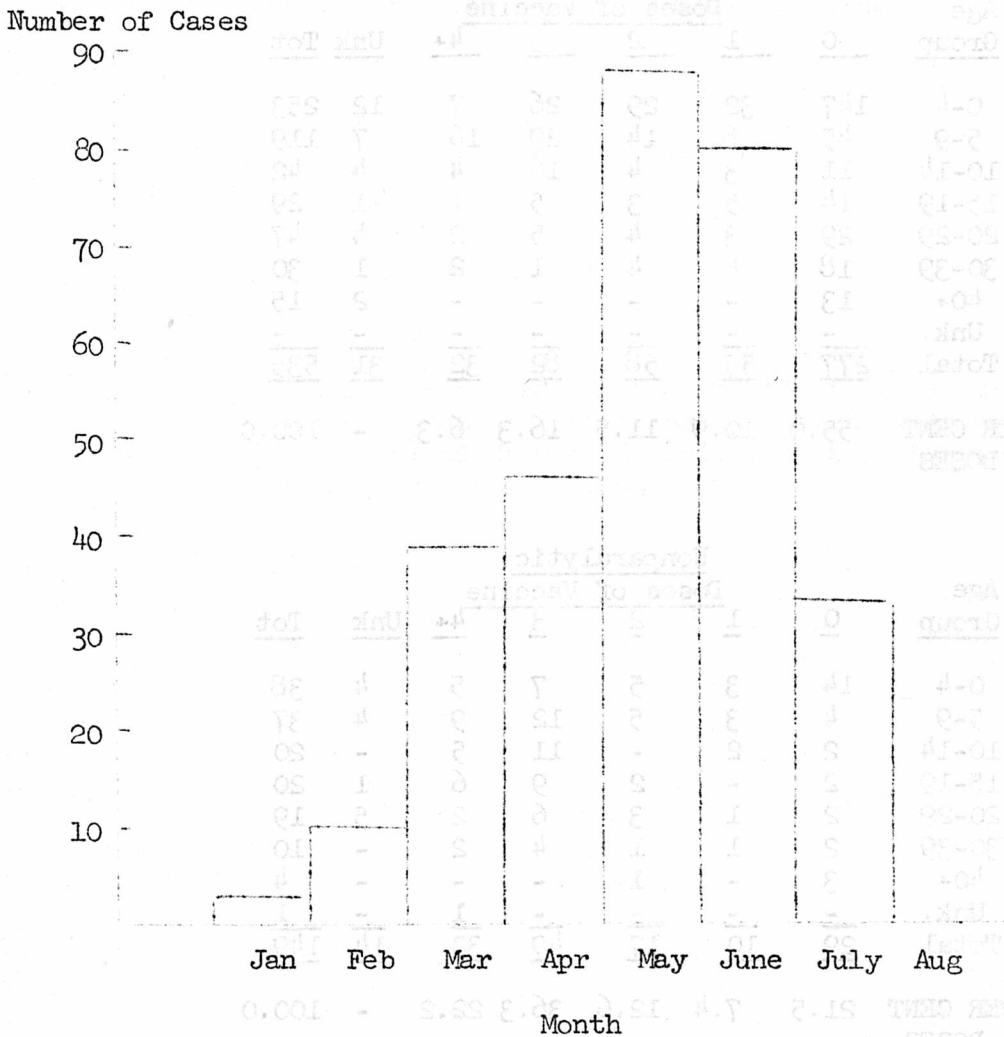
Subsequent reports from this outbreak will appear in forthcoming Polio Surveillance Bulletins.

H. Puerto Rico

Through August 16, 1960, Dr. Manuel Feliberti, Epidemiologist, Bureau of Communicable Disease Control, Puerto Rico Department of Health, reports a total of 380 cases of poliomyelitis with onset in 1960. Of these, 375 are paralytic. This represents an increase of 22 paralytic cases since the last report.

The cases are still appearing sporadically throughout the island. The only local concentration is in the municipality of Crocovieis, where 6 cases have occurred since August 3. The date of onset is now known for 299 paralytic cases and is presented below. The epidemic curve is seen to have reached a peak during the month of May for these cases with known onset.

PUERTO RICO POLIOMYELITIS BY MONTH OF ONSET



3. 1960 POLIOMYELITIS CASES REPORTED TO PSU

During the past week, there were 171 cases of poliomyelitis, 124 paralytic, submitted to the PSU on individual case forms. The 1960 cumulative total of cases reported to the PSU now stands at 711. Of these cases, 535 are paralytic, 149 nonparalytic and 27 unspecified. These cases are presented below in Table 3:

TABLE 3
POLIOMYELITIS CASES BY PARALYTIC STATUS, AGE GROUP
AND VACCINATION STATUS REPORTED ON PSU FORMS
(Through August 15, 1960)

Age Group	Paralytic Doses of Vaccine					Unk	Tot
	0	1	2	3	4+		
0-4	147	32	29	26	7	12	253
5-9	45	8	14	29	16	7	119
10-14	11	3	4	16	4	4	42
15-19	14	5	3	5	1	1	29
20-29	29	3	4	5	2	4	47
30-39	18	4	4	1	2	1	30
40+	13	-	-	-	-	2	15
Unk.	-	-	-	-	-	-	-
Total	<u>277</u>	<u>55</u>	<u>58</u>	<u>82</u>	<u>32</u>	<u>31</u>	<u>535</u>
PER CENT DOSES	55.0	10.9	11.5	16.3	6.3	-	100.0

Age Group	Nonparalytic Doses of Vaccine					Unk	Tot
	0	1	2	3	4+		
0-4	14	3	5	7	5	4	38
5-9	4	3	5	12	9	4	37
10-14	2	2	-	11	5	-	20
15-19	2	-	2	9	6	1	20
20-29	2	1	3	6	2	5	19
30-39	2	1	1	4	2	-	10
40+	3	-	1	-	-	-	4
Unk.	-	-	-	-	1	-	1
Total	<u>29</u>	<u>10</u>	<u>17</u>	<u>49</u>	<u>30</u>	<u>14</u>	<u>149</u>
PER CENT DOSES	21.5	7.4	12.6	36.3	22.2	-	100.0

4. ROUTINE POLIOMYELITIS SURVEILLANCE

A. Cases with Onset Within 30 Days of Vaccination

During the past week, the Polio Surveillance Unit was notified of 6 cases of poliomyelitis, 3 paralytic, with onset within 30 days of vaccination. The 1960 total now stands at 23. Of these, 14 are paralytic (3 correlated) and 9 nonparalytic.

The paralytic cases reported this week are presented in Table III. Further information is being sought regarding unknown data.

B. Vaccine Distribution

The summary of current and cumulative data concerning poliomyelitis vaccine and quadruple antigen vaccine shipped is presented in Table II.

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

Table 1

TREND OF 1960 POLIOMYELITIS INCIDENCE

State and Region	Cumulative 1960	Cases Reported to NOVS* For Week Ending						Six Week Total	Comparable Six Weeks Totals in:		
		7-9	7-16	7-23	7-30	8-6	8-13		1959	1958	1957
UNITED STATES											
Paralytic	764	39	69	71	81	67	91	418	1,198	383	348
Nonparalytic	230	10	21	29	26	32	25	143	537	301	900
Unspecified	80	-	5	13	6	11	7	42	163	129	262
Total	1,074	49	95	113	113	110	123	603	1,898	813	1,510
NEW ENGLAND											
Paralytic	88	10	19	10	9	6	3	57	40	10	5
Total	105	12	25	14	10	6	5	72	68	15	22
Maine	6	-	-	-	-	-	-	-	-	-	2
New Hampshire	-	-	-	-	-	-	-	-	1	-	3
Vermont	-	-	-	-	-	-	-	-	-	1	-
Massachusetts	14	-	-	1	3	-	4	8	17	3	8
Rhode Island	79	12	24	11	6	4	1	58	-	1	-
Connecticut	6	-	1	2	1	2	-	6	50	10	9
MIDDLE ATLANTIC											
Paralytic	87	3	7	3	14	10	18	55	71	53	16
Total	115	3	10	4	16	14	22	69	107	88	74
New York	69	2	3	1	12	11	5	34	62	36	45
New Jersey	27	-	2	2	3	3	11	21	16	41	17
Pennsylvania	19	1	5	1	1	-	6	14	29	11	12
EAST NORTH CENTRAL											
Paralytic	64	1	6	8	10	8	9	42	104	58	59
Total	134	1	10	18	13	23	16	81	228	149	364
Ohio	31	-	-	3	-	6	1	10	61	33	83
Indiana	20	-	1	8	2	4	4	19	36	11	27
Illinois	45	-	7	1	8	6	9	31	51	19	82
Michigan	31	1	2	6	2	4	2	17	70	76	98
Wisconsin	7	-	-	-	1	3	-	4	10	10	74
WEST NORTH CENTRAL											
Paralytic	36	1	2	3	4	8	4	22	222	13	22
Total	63	1	4	4	6	13	8	36	454	40	134
Minnesota	24	1	-	-	1	7	2	11	45	3	24
Iowa	11	-	1	-	1	1	1	4	133	9	16
Missouri	10	-	2	3	-	1	-	6	148	11	36
North Dakota	3	-	-	-	-	3	-	3	-	3	4
South Dakota	3	-	-	-	1	-	1	2	3	3	19
Nebraska	4	-	1	1	-	-	2	4	54	2	17
Kansas	8	-	-	-	3	1	2	6	71	9	18

* 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	Cumulative 1960	Cases Reported to NOVS For Week Ending:						Six Week Total	Comparable Six Weeks Totals in:		
		7-9	7-16	7-23	7-30	8-6	8-13		1959	1958	1957
SOUTH ATLANTIC											
Paralytic	128	5	9	13	14	15	21	77	195	71	64
Total	181	5	15	26	24	22	26	118	254	176	240
Delaware	-	-	-	-	-	-	-	-	1	4	3
Maryland	3	-	-	-	-	1	1	2	5	2	3
D. C.	-	-	-	-	-	-	-	-	2	4	8
Virginia	6	-	-	-	2	1	3	6	67	29	24
West Virginia	16	1	1	2	3	-	3	10	17	25	7
North Carolina	37	-	-	4	2	9	4	19	66	19	107
South Carolina	73	2	12	15	14	11	12	66	14	5	38
Georgia	5	-	-	1	-	-	-	1	43	2	16
Florida	41	2	2	4	3	-	3	14	39	86	34
EAST SOUTH CENTRAL											
Paralytic	41	3	6	7	5	-	8	29	181	18	30
Total	45	3	6	7	5	1	8	30	223	73	120
Kentucky	8	-	-	-	-	-	-	-	10	3	32
Tennessee	8	1	1	1	-	1	3	7	80	24	45
Alabama	9	1	4	1	1	-	1	8	109	9	9
Mississippi	20	1	1	5	4	-	4	15	24	37	34
WEST SOUTH CENTRAL											
Paralytic	87	3	7	13	12	6	8	49	252	91	96
Total	148	9	12	22	23	13	10	89	390	157	308
Arkansas	11	1	3	2	2	1	-	9	96	5	20
Louisiana	37	4	3	4	4	3	1	19	40	16	42
Oklahoma	8	-	1	3	-	1	-	5	55	23	49
Texas	92	4	5	13	17	8	9	56	199	113	197
MOUNTAIN											
Paralytic	19	-	-	4	-	-	2	6	20	12	11
Total	37	-	-	4	3	2	5	14	38	42	55
Montana	13	-	-	2	-	-	1	3	2	26	2
Idaho	5	-	-	-	-	-	1	1	2	3	10
Wyoming	6	-	-	-	1	2	2	5	-	-	2
Colorado	4	-	-	2	-	-	-	2	4	2	7
New Mexico	2	-	-	-	-	-	-	-	11	7	18
Arizona	4	-	-	-	-	-	1	1	17	2	10
Utah	3	-	-	-	2	-	-	2	-	2	4
Nevada	-	-	-	-	-	-	-	-	2	-	2
PACIFIC											
Paralytic	214	13	13	10	13	14	18	81	113	57	45
Total	246	15	13	14	13	16	23	94	136	73	193
Alaska	2	-	-	-	-	-	-	-	9	-	-
Washington	10	-	-	-	3	-	NR	3	26	4	1
Oregon	20	-	-	2	1	-	1	4	31	5	13
California	208	15	12	12	9	16	21	85	70	39	179
Hawaii	6	-	1	-	-	-	1	2	-	25	-
TERRITORIES											
Puerto Rico	358	25	19	31	16	12	NR	103	-	8	12

Table II

POLIOMYELITIS AND QUADRUPLE ANTIGEN VACCINE REPORTS

(Data provided by the Polio Vaccine Activity, BSS, USPHS, through August 5, 1960)

POLIOMYELITIS VACCINE SHIPPED (1000's cc's)

Period	National Foundation	Public Agencies	Commercial Channels	Domestic Total	Export
1955	13,541	7,893	6,223	27,657	--
1956	194	45,588	24,784	70,566	6,477
1957	154	50,026	38,062	88,242	12,784
1958	203	18,533	28,319	47,055	33,571
1959	160	26,160	37,553	63,873	21,161
1960					
Jan-March	--	4,298	5,371	9,669	2,782
April-June	--	6,149	9,763	15,912	3,498
<u>Week Ending</u>					
7-8	--	480	621	1,101	95
7-15	--	1,175	500	1,675	106
7-22	--	245	608	853	70
7-29	--	839	553	1,392	158
1960 Total to Date	--	13,186	17,416	30,602	6,709
Cumulative Total	14,252	161,386	152,357	327,995	80,702

QUADRUPLE ANTIGEN VACCINE SHIPPED (1000's cc's)

1959		157	4,020	4,177	59
1960					
Jan-March		118	1,308	1,426	65
April-June		165	1,928	2,093	62
<u>Week Ending</u>					
7-8		14	148	162	2
7-15		9	124	133	13
7-22		13	149	162	1
7-29		10	169	179	3
1960 Total to Date		329	3,826	4,155	146
Cumulative Total		486	7,846	8,332	205
GRAND TOTAL	14,252	161,872	160,203	336,327	80,907

Table III

PARALYTIC POLIOMYELITIS OCCURRING WITHIN 30 DAYS OF LAST VACCINE INOCULATION
(Cases Reported to PSU from August 9 through August 15, 1960)

State	County	Ini- tials	Age	Sex	Date Inoc.	Mfr. Lot No.	Date		Site Inoc.	Site First Para.
							First Symp.			
Calif.	Los Angeles	E. N.	3	M.	7-20-60	P-D 059190	7-23-60		Left Buttock	Left Foot
Mass.	Middle- sex	E. W.	3	F.	6-9-60	Unk. Unk.	6-15-60		Arm	Left Leg
Minne- sota	Polk	M. C.	25	F.	7-28-60	Unk. Unk.	8-4-60		Unk.	Unk.

