

POLIOMYELITIS SURVEILLANCE  
REPORT NO.41 SEPTEMBER 9, 1955

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The information in this report represents a factual summary of data reported to the Poliomyelitis Surveillance Unit from State Health Departments, Epidemic Intelligence Service Officers, participating laboratories and other pertinent sources. Much of the material is preliminary in nature and is subject to change. The distribution of this report is strictly limited to federal and state officials, to directors of participating laboratories and to other official or non-official persons having responsibility for the control of poliomyelitis in the nation. It is understood that this report will not be quoted in public nor will its contents be released to the press or to unauthorized persons. Any release of this information will be made by the Office of the Surgeon General, U. S. Public Health Service. State Health Officers, of course, are free to reveal any information they may wish concerning data from their state.

All readers should be cautioned regarding the limitations of data presented herein. Current and cumulative data are given concerning reported cases of poliomyelitis in vaccinated persons and among their familial and community contacts. It should be recognized that these data do not constitute a controlled evaluation of poliomyelitis vaccine. For this reason, interpretations and conclusions based on material in these reports must be guarded.

- I. Current Poliomyelitis Morbidity Trends
- II. Age Distribution Analysis
- III. Special Studies
- IV. Routine Poliomyelitis Surveillance
- V. Polio-Like Diseases

## I Current Poliomyelitis Morbidity Trends

National poliomyelitis incidence fell for the first time this week with 2059 cases reported, in comparison to the summer's high to date of 2289 recorded last week. The usual graph contrasting 1955 incidence with similar data for the three previous years could not be prepared in time for the current report because of the long weekend, but will be included again next week.

Poliomyelitis incidence by states for the weeks ending July 30 through September 3 is presented in Table 1, together with a six-week total for this and the three previous years. The drop in total incidence is reflected in decreases reported from all southern states as well as from a scattering of other states, particularly Massachusetts, Ohio and Wisconsin. Incidence remained stable or rose slightly in the remainder of the Northeastern, North Central and Western States.

## II Age Distribution Analysis

Data collected under the Age Distribution Analysis Study is presented this week for the first time. Tabulations are based on reports from 21 states, and include all cases with onsets April 12 or later reported to PSU up to August 26. The 21 states represented are grouped in four regions as follows:

North East: Connecticut, Maine and New York

North Central: Illinois, Missouri, Nebraska, Ohio and Wisconsin

South: Alabama, Arkansas, Mississippi, South Carolina, Texas, West Virginia and Virginia

West: Arizona, California, Colorado, New Mexico, Oregon and Wyoming.

Eleven states and territories participating in the Age Distribution Analysis Study have not been included in the tabulation because complete reports for the period April 12 through August 26 had not been received from them at the time when these tabulations were made. Completed listings from these states will be added to future tabulations as they are received. Two territories (Alaska and Hawaii) for which data is complete will also be represented in future Age Distribution Analyses.

Tables 2 through 6 present Age Distribution Analyses for the four regions into which the states have been divided and for the complete group of 21 states. In these tables data is broken down by single years of age through age 30, and by five year age groups through age 50, for paralytic, non-paralytic and total cases. It should be noted that because the data are preliminary in nature, the totals include a small number of cases with paralytic status or age unspecified.

Table 7 shows the percentage distribution of total cases by five year age groups for the four regions and for the complete group of 21 states.

### III Special Studies

The California State Department of Health in a Polio Surveillance Release, dated August 27, presents the following data on the effects of vaccination on polio in the State this year:

"Up to the present there are no adequate data on which an appraisal of the effects of polio vaccinations this year can be based. There has been no stable vaccinated population in the State matched with a comparable non-vaccinated population in which polio morbidity could be compared. However, since most first injections in the National Foundation for Infantile Paralysis program in California were completed prior to June 15 and no new shipments of commercial vaccine were released in California from May 7 to August 2, estimates can be made of the number of children who have received at least one inoculation of poliomyelitis vaccine. In the 5-9 age group in which most vaccinations have been given, the estimates of first inoculations given prior to June 15 are as follows:

N. F. I. P. program	380,000
Commercial vaccine	32,000
Total vaccinated	412,000

Approximately 155,000 children in this group also had received 2nd inoculations in the National Foundation for Infantile Paralysis program by June 15, and this number has gradually increased to approximately 195,000 at present. The estimated total population, ages 5-9, is now 1,300,000, leaving 888,000 non-vaccinated children in this age group. Based on these estimates, the table below summarizes the reported cases of poliomyelitis in the 5-9 age group with onset since June 15, and up to August 27.

It must be emphasized that these are provisional figures based on morbidity reports. There has been no final confirmation of diagnosis. These data do not take into account possible variations in the effectiveness of the vaccine of different manufacturers, and estimates of commercial vaccinations given are subject to considerable error.

Vaccination Status	Estim. Pop. 5-9	Cases			Rates per 100,000 Population*		
		Total	Par	Non-Par.	Total	Par	Non-Par
Vaccinated	412,000	37	7	30	9	2	7
Non-Vaccinated	888,000	95	46	49	11	5	6

\* for period June 15 - August 27, 1955

None of the vaccinated cases had onset less than two weeks after the first inoculation, and only two had onset within 30 days. Sixteen of the cases had received two inoculations, but in 6 of these, onset was less than two weeks after the second inoculation. One paralytic case had onset 56 days after the second inoculation."

The same release presents an age distribution of cases reported to the State Health Department during the 1955 disease year, April 1 through August 27.

Reported Poliomyelitis Cases by  
Age Group and Paralytic Status  
(California, April 1 - August 27, 1955)

Age Group	Paralytic		Non-Paralytic		Total	
	No.	%	No.	%	No.	%
0-4	134	34	63	15	197	24
5-9	109	27	121	30	230	29
10-14	35	9	59	14	94	12
15-19	17	4	41	10	58	7
20-24	22	6	40	10	62	8
25-29	28	7	30	8	58	7
30 plus	54	13	52	13	106	13
Totals	399	100	406	100	805	100

IV Routine Poliomyelitis Surveillance

The tabulary summary lists in detail the polio cases accepted since August 24 with revisions of previously listed cases. Included among new cases reported this week is a backlog of 45 cases from Massachusetts. None of these cases are known to have had onset within 30 days of vaccination. Of the 45 cases, 18 are paralytic and 27 non-paralytic. Two of these cases participated in the 1954 Vaccine Evaluation Field Trial, and received placebo inoculations at that time.

Table 8 summarizes poliomyelitis cases in vaccinated individuals accepted by PSU through August 31. Table 9 presents a comparison of "reported" and "expected" cases among children who received first inoculations in NFIP Clinics through May 7. The "expected" numbers represent rough estimates of the number of cases that would have occurred in the respective groups of first and second grade children if they had not been vaccinated.



# V Polio-Like Diseases

Dr. David Poskanzer, Epidemic Intelligence Service Officer, assigned to New York State Department of Health notes the high incidence of non-paralytic polio-like outbreaks in the State:

"The attached table may prove of some interest to you as it provides a striking indication of the occurrence of polio-like illness in New York State. You will notice that from June to July the per cent of paralytic cases fell from 65 to 25 per cent. In June we first became aware of the occurrence of polio-like illness. Since then we have had at least five or six localized epidemics."

## REPORTED CASES OF POLIOMYELITIS BY MONTH AND DIAGNOSIS NEW YORK STATE (EXCLUSIVE OF NEW YORK CITY) - 1955

Month of Report	No. of cases			Percent*		
	Paralytic	Non-paralytic	?	Total	Paralytic	Non-par.
Jan. - May	38	22	17	77	63.3	36.7
June	28	15	5	48	65.1	34.9
July	26	76	10	112	25.5	74.5
August(to 8/26)	100	191	87	378	34.4	65.6

\* Excludes diagnosis unknown.

Last week Dr. Roy Feemster, Massachusetts State Department of Health, reported a possible outbreak of Eastern Equine Encephalomyelitis among horses in Bristol County, Massachusetts. Dr. William Shannon, Chief Veterinary Health Officer, Division of Livestock Disease Control, Department of Agriculture, Massachusetts, confirmed this in conversation with Dr. James H. Steele, Chief, Veterinary Section, Epidemiology Branch, Communicable Disease Center, September 8. Dr. Shannon stated that 24 clinically confirmed fatal cases have occurred in the Taunton River Valley. Three brains of these 24 horses have been forwarded to the CDC Virus Laboratory at Montgomery, Alabama where they have isolated EEE virus from two brains. Dr. Shannon also reported the disease has been seen in pheasants in Massachusetts, Rhode Island, and Connecticut. EEE virus has been isolated from pheasants in Rhode Island and Connecticut. Two possible human cases were noted last week, one from Rhode Island and one from Massachusetts. The Massachusetts case, from a household with a history of recent polio infection, has now been classified as poliomyelitis. No further reports of cases of possible encephalitis among humans in this area have been received by PSU.

(This report was prepared by Dr. Neal Nathanson, Dr. Wm. Jackson Hall and Dr. Alexander D. Langmuir, with assistance from the Statistics Section, CDC.)



Table 1

## TREND OF 1955 POLIOMYELITIS INCIDENCE

State	Cases Reported to NOVS*						6 Week Total	Comparable Totals In:		
	7/30	8/6	8/13	8/20	8/27	9/3		1954	1953	1952
United States	1037	1412	1786	2138	2289	2059	10721	11447	12131	16657
North East										
Maine	2	11	18	13	18	12	74	46	130	53
New Hampshire	16	16	24	41	27	18	142	29	42	20
Vermont	4	2	4	20	13	9	52	17	32	7
Massachusetts	204	309	411	448	355	317	2044	282	171	217
Rhode Island	8	19	16	34	36	46	159	37	91	19
Connecticut	29	38	50	55	56	63	291	96	123	171
New York	65	102	117	169	238	272	963	537	1015	879
New Jersey	11	21	39	55	59	59	244	233	308	260
Pennsylvania	27	30	43	51	68	54	271	371	380	422
North Central										
Ohio	38	42	94	91	124	87	476	712	974	1102
Indiana	22	29	27	26	35	33	172	251	235	353
Illinois	54	68	75	147	111	129	584	660	908	1189
Michigan	50	78	92	94	116	123	553	723	955	1293
Wisconsin	56	105	135	160	353	311	1120	176	265	651
Minnesota	24	28	73	62	60	41	288	265	981	1019
Iowa	27	45	61	70	44	37	284	521	279	1271
Maryland	6	9	16	13	18	18	80	204	339	272
North Dakota	3	2	4	5	3	4	21	44	86	71
South Dakota	1	8	1	3	11	5	29	29	57	190
Nebraska	19	28	16	23	11	14	111	214	85	753
Kansas	12	19	12	20	21	19	103	209	189	358
South										
Delaware	2	7	3	4	3	3	22	19	12	35
Maryland	9	8	18	23	25	15	98	58	208	38
District of Col.	-	5	1	2	4	2	14	32	26	64
Virginia	21	25	23	27	25	10	131	207	302	291
West Virginia	4	6	11	9	14	13	57	97	211	270
North Carolina	22	23	36	43	38	27	189	321	322	132
South Carolina	8	21	23	21	21	13	107	104	58	23
Georgia	5	15	10	4	14	15	63	259	119	160
Florida	11	12	12	26	16	3	80	335	130	116
Kentucky	17	38	43	36	36	14	184	277	123	644
Tennessee	13	6	8	20	16	10	73	212	247	167
Alabama	8	4	11	13	10	4	50	106	105	74
Mississippi	8	10	9	10	6	3	46	180	95	220
Arkansas	11	9	16	10	17	6	69	95	102	120
Louisiana	9	14	12	16	11	8	70	141	108	242
Oklahoma	27	21	5	22	15	4	94	190	176	383
Texas	71	81	79	98	80	76	485	965	436	1274

Table I (Continued)

	Cases Reported to NOVS*							Comparable		
	During Week Ending:						6 Week	Totals In:		
State	7/30	8/6	8/13	8/20	8/27	9/3	Total	1954	1953	1952
West										
Montana	1	4	6	9	3	12	35	25	75	66
Idaho	7	16	9	6	10	5	53	30	17	116
Wyoming	3	-	1	3	-	1	8	79	21	30
Colorado	9	9	8	18	10	21	75	136	70	184
New Mexico	4	6	10	5	10	6	41	66	31	178
Arizona	2	4	2	10	3	10	31	59	201	92
Utah	-	1	6	-	4	0	11	59	67	43
Nevada	1	2	-	1	1	4	9	51	12	114
Washington	12	13	14	17	16	20	92	88	99	362
Oregon	17	10	12	14	18	22	93	80	83	112
California	57	33	70	71	86	63	380	1520	1030	637

\*National Office of Vital Statistics.

Table 2

## AGE DISTRIBUTION ANALYSIS

Poliomyelitis Cases by Single Years of Age and Paralytic Status  
Reported from Three North East States\*

(Cases with Onsets April 12 through August 26\*)

Age	Paralytic		Non-Paralytic		Total*	
	No.	%	No.	%	No.	%
<1	0	0.0	1	0.3	1	0.1
1	18	6.2	4	1.0	23	3.0
2	27	9.3	11	2.8	40	5.2
3	20	6.9	17	4.3	42	5.5
4	22	7.6	27	6.8	53	6.9
0-4	87	29.9	60	15.1	159	20.8
5	21	7.2	21	5.3	50	6.6
6	15	5.2	33	8.3	52	6.8
7	11	3.8	31	7.8	45	5.9
8	13	4.5	37	9.3	52	6.8
9	6	2.1	17	4.3	27	3.5
5-9	66	22.7	139	35.0	226	29.6
10	9	3.1	17	4.3	27	3.5
11	10	3.4	15	3.8	27	3.5
12	8	2.7	22	5.5	37	4.9
13	9	3.1	18	4.5	30	3.9
14	7	2.4	16	4.0	25	3.3
10-14	43	14.8	88	22.2	146	19.1
15	6	2.1	7	1.8	14	1.8
16	5	1.7	9	2.3	16	2.1
17	9	3.1	4	1.0	17	2.2
18	2	0.7	5	1.3	7	0.9
19	1	0.3	6	1.5	7	0.9
15-19	23	7.9	31	7.8	61	8.0
20	2	0.7	5	1.3	8	1.0
21	1	0.3	4	1.0	5	0.7
22	6	2.1	6	1.5	12	1.6
23	3	1.0	1	0.3	4	0.5
24	5	1.7	6	1.5	16	2.1
20-24	17	5.8	22	5.5	45	5.9
25	3	1.0	9	2.3	12	1.6
26	6	2.1	6	1.5	14	1.8
27	7	2.4	10	2.5	18	2.4
28	4	1.4	6	1.5	11	1.4
29	5	1.7	2	0.5	10	1.3
25-29	25	8.6	33	8.3	65	8.5
30-34	19	6.5	15	3.8	36	4.7
35-39	8	2.7	4	1.0	17	2.2
40-44	1	0.3	3	0.8	4	0.5
45-49	0	0.0	2	0.5	2	0.3
50 plus	2	0.7	0	0.0	2	0.3
Unknown	0		0		0	
TOTAL	291	100%	397	100%	763	100%

\* See Table 7 for footnotes.

Table 3

## AGE DISTRIBUTION ANALYSIS

Poliomyelitis Cases by Single Years of Age and Paralytic Status  
 Reported from Five North Central States\*  
 (Cases with Onsets April 12 through August 26\*)

Age	Paralytic		Non-Paralytic		Total*	
	No.	%	No.	%	No.	%
0	11	1.8	13	1.9	25	1.8
1	41	6.5	14	2.1	59	4.3
2	40	6.4	32	4.7	73	5.3
3	48	7.7	33	4.9	81	5.9
4	35	5.6	54	8.0	93	6.8
0-4	175	27.9	146	21.6	331	24.2
5	48	7.7	58	8.6	111	8.1
6	37	5.9	51	7.5	88	6.4
7	28	4.5	37	5.5	67	4.9
8	25	4.0	36	5.3	67	4.9
9	19	3.0	35	5.2	55	4.0
5-9	157	25.1	217	32.1	388	28.3
10	16	2.6	11	1.6	27	2.0
11	13	2.1	24	3.5	39	2.8
12	19	3.0	24	3.5	49	3.6
13	18	2.9	19	2.8	39	2.8
14	14	2.2	15	2.2	34	2.5
10-14	80	12.8	93	13.7	188	13.7
15	11	1.8	17	2.5	29	2.1
16	9	1.4	14	2.1	24	1.8
17	11	1.8	9	1.3	22	1.6
18	12	1.9	9	1.3	24	1.8
19	9	1.4	11	1.6	21	1.5
15-19	52	8.3	60	8.9	120	8.8
20	12	1.9	10	1.5	23	1.7
21	4	0.6	12	1.8	16	1.2
22	8	1.3	4	0.6	13	0.9
23	9	1.4	12	1.8	23	1.7
24	14	2.2	16	2.4	31	2.3
20-24	47	7.5	54	8.0	106	7.7
25	17	2.7	8	1.2	28	2.0
26	15	2.4	15	2.2	32	2.3
27	14	2.2	11	1.6	25	1.8
28	9	1.4	10	1.5	19	1.4
29	8	1.3	10	1.5	18	1.3
25-29	63	10.1	54	8.0	122	8.9
30-34	30	4.8	25	3.7	61	4.5
35-39	11	1.8	16	2.4	30	2.2
40-44	5	0.8	6	0.9	11	0.8
45-49	2	0.3	3	0.4	5	0.4
50 plus	3	0.5	2	0.3	5	0.4
Unknown	1	0.2	1	0.2	2	0.1
TOTAL	626	100%	677	100%	1369	100%

\* See Table 7 for footnotes.



Table 4

## AGE DISTRIBUTION ANALYSIS

Poliomyelitis Cases by Single Years of Age and Paralytic Status  
Reported from Seven Southern States  
(Cases with Onsets April 12 through August 26\*)

Age	Paralytic		Non-Paralytic		Total*	
	No.	%	No.	%	No.	%
0	37	7.1	16	2.5	53	4.5
1	53	10.1	16	2.5	69	5.9
2	53	10.1	31	4.8	84	7.2
3	48	9.2	36	5.6	84	7.2
4	40	7.6	53	8.2	93	7.9
0-4	231	44.2	152	23.6	383	32.7
5	35	6.7	55	8.5	90	7.7
6	28	5.4	48	7.4	77	6.6
7	21	4.0	44	6.8	65	5.6
8	11	2.1	42	6.5	53	4.5
9	10	1.9	19	2.9	29	2.5
5-9	105	20.1	208	32.2	314	26.8
10	9	1.7	27	4.2	36	3.1
11	15	2.9	28	4.3	43	3.7
12	13	2.5	32	5.0	45	3.8
13	11	2.1	21	3.3	33	2.8
14	7	1.3	17	2.6	24	2.0
10-14	55	10.5	125	19.4	181	15.5
15	7	1.3	20	3.1	27	2.3
16	3	0.6	8	1.2	12	1.0
17	6	1.1	9	1.4	15	1.3
18	6	1.1	6	0.9	12	1.0
19	3	0.6	6	0.9	9	0.8
15-19	25	4.8	49	7.6	75	6.4
20	2	0.4	11	1.7	13	1.1
21	8	1.5	5	0.8	13	1.1
22	9	1.7	5	0.8	14	1.2
23	5	1.0	9	1.4	14	1.2
24	10	1.9	4	0.6	14	1.2
20-24	34	6.5	34	5.3	68	5.8
25	13	2.5	7	1.1	20	1.7
26	6	1.1	15	2.3	21	1.8
27	9	1.7	7	1.1	16	1.4
28	6	1.1	5	0.8	11	0.9
29	4	0.8	8	1.2	12	1.0
25-29	38	7.3	42	6.5	80	6.8
30-34	22	4.2	19	2.9	41	3.5
35-39	8	1.5	9	1.4	17	1.5
40-44	1	0.2	2	0.3	3	0.3
45-49	3	0.6	4	0.6	7	0.6
50 plus	0	—	1	0.2	1	0.1
Unknown	1	0.2	—	—	1	0.1
TOTAL	523	100%	645	100%	1171	100%

\*See Table 7 for footnotes.

Table 5

## AGE DISTRIBUTION ANALYSIS

Poliomyelitis Cases by Single Years of Age and Paralytic Status  
Reported from Six Western States\*  
(Cases with Onsets April 12 through August 26\*)

Age	Paralytic		Non-Paralytic		Total*	
	No.	%	No.	%	No.	%
0	17	3.0	4	0.8	21	1.9
1	34	5.9	14	2.8	48	4.4
2	46	8.0	15	3.0	63	5.8
3	41	7.2	22	4.3	64	5.9
4	37	6.5	36	7.1	74	6.8
0-4	175	30.6	91	17.9	270	24.8
5	34	5.9	29	5.7	63	5.8
6	34	5.9	38	7.5	72	6.6
7	28	4.9	36	7.1	65	6.0
8	17	3.0	29	5.7	46	4.2
9	22	3.8	14	2.8	36	3.3
5-9	135	23.6	146	28.7	282	25.9
10	9	1.6	8	1.6	18	1.7
11	17	3.0	23	4.5	40	3.7
12	17	3.0	16	3.2	33	3.0
13	7	1.2	13	2.6	20	1.8
14	13	2.3	10	2.0	23	2.1
10-14	63	11.0	70	13.8	134	12.3
15	4	0.7	9	1.8	13	1.2
16	13	2.3	10	2.0	24	2.2
17	7	1.2	13	2.6	20	1.8
18	5	0.9	12	2.4	18	1.7
19	2	0.3	9	1.8	11	1.0
15-19	31	5.4	53	10.4	86	7.9
20	10	1.7	10	2.0	21	1.9
21	5	0.9	13	2.6	18	1.7
22	8	1.4	10	2.0	18	1.7
23	11	1.9	7	1.4	18	1.7
24	10	1.7	8	1.6	18	1.7
20-24	44	7.7	48	9.5	93	8.5
25	12	2.1	10	2.0	22	2.0
26	12	2.1	7	1.4	19	1.7
27	10	1.7	5	1.0	15	1.4
28	9	1.6	10	2.0	19	1.7
29	3	0.5	6	1.2	9	0.8
25-29	46	8.0	38	7.5	84	7.7
30-34	40	7.0	35	6.9	75	6.9
35-39	20	3.5	16	3.2	37	3.4
40-44	12	2.1	6	1.2	18	1.7
45-49	3	0.5	4	0.8	7	0.6
50 plus	3	0.5	1	0.2	4	0.4
Unknown	0	—	0	—	0	—
TOTAL	572	100%	508	100%	1090	100%

\*See Table 7 for footnotes.

Table 6  
AGE DISTRIBUTION ANALYSIS  
Poliomyelitis Cases by Single Years of Age and Paralytic Status  
Reported from 21 States\*  
(Cases with Onsets April 12 through August 26\*)

Age	Paralytic		Non-Paralytic		Total*	
	No.	%	No.	%	No.	%
0	65	3.2	34	1.5	100	2.3
1	146	7.3	48	2.2	199	4.5
2	166	8.3	89	4.0	260	5.9
3	157	7.8	108	4.8	271	6.2
4	134	6.7	170	7.6	313	7.1
0-4	668	33.2	449	20.2	1143	26.1
5	138	6.9	163	7.3	314	7.2
6	114	5.7	170	7.6	289	6.6
7	88	4.4	148	6.6	242	5.5
8	66	3.3	144	6.5	218	5.0
9	57	2.8	85	3.8	147	3.4
5-9	463	23.0	710	31.9	1210	27.6
10	43	2.1	63	2.8	108	2.5
11	55	2.7	90	4.0	149	3.4
12	57	2.8	94	4.2	164	3.7
13	45	2.2	71	3.2	122	2.8
14	41	2.0	58	2.6	106	2.4
10-14	241	12.0	376	16.9	649	14.8
15	28	1.4	53	2.4	83	1.9
16	30	1.5	41	1.8	76	1.7
17	33	1.6	35	1.6	74	1.7
18	25	1.2	32	1.4	61	1.4
19	15	0.7	32	1.4	48	1.1
15-19	131	6.5	193	8.7	342	7.8
20	26	1.3	36	1.6	65	1.5
21	18	0.9	34	1.5	52	1.2
22	31	1.5	25	1.1	57	1.3
23	28	1.4	29	1.3	59	1.3
24	39	1.9	34	1.5	79	1.8
20-24	142	7.1	158	7.1	312	7.1
25	45	2.2	34	1.5	82	1.9
26	39	1.9	43	1.9	86	2.0
27	40	2.0	33	1.5	74	1.7
28	28	1.4	31	1.4	60	1.4
29	20	1.0	26	1.2	49	1.1
25-29	172	8.5	167	7.5	351	8.0
30-34	111	5.5	94	4.2	213	4.9
35-39	47	2.3	45	2.0	101	2.3
40-44	19	0.9	17	0.8	36	0.8
45-49	8	0.4	13	0.6	21	0.5
50 plus	8	0.4	4	0.2	12	0.3
Unknown	2	0.1	1	0.1	3	0.1
TOTAL	2012	100%	2227	100%	4393	100%

\* See Table 7 for footnotes.

Table 7

## AGE DISTRIBUTION ANALYSIS

Percentage Distribution of Poliomyelitis Cases by Five Year Age Groups  
(Cases Reported from Twenty-One States with Onsets April 12 through August 26\*)

Age Group	North East **	North Central **	South **	West **	All Regions **
0-4	20.8	24.2	32.7	24.8	26.1
5-9	29.6	28.3	26.8	25.9	27.6
10-14	19.1	13.7	15.5	12.3	14.8
15-19	8.0	8.8	6.4	7.9	7.8
20-24	5.9	7.7	5.8	8.5	7.1
25-29	8.5	8.9	6.8	7.7	8.0
30-34	4.7	4.5	3.5	6.9	4.9
35-39	2.2	2.2	1.5	3.4	2.3
40-44	0.5	0.8	0.3	1.7	0.8
45-49	0.3	0.4	0.6	0.6	0.5
50 plus	0.3	0.4	0.1	0.4	0.3
Unknown		0.1	0.1		0.1
TOTAL	100%	100%	100%	100%	100%

\* Preliminary data reported from the states through August 26.

\*\* North East: distribution based on a total of 763 cases reported from Connecticut, Maine, and New York, including 75 cases with paralytic status unspecified.

North Central: distribution based on a total of 1369 cases reported from Illinois, Missouri, Nebraska, Ohio, and Wisconsin, including 66 cases with paralytic status unspecified.

South: distribution based on a total of 1171 cases reported from Alabama, Arkansas, Mississippi, South Carolina, Texas, Virginia, and West Virginia, including three cases with paralytic status unspecified.

West: distribution based on a total of 1090 cases from Arizona, California, Colorado, New Mexico, Oregon, and Wyoming, including 10 cases with paralytic status unspecified.

All Regions: distribution based on a total of 4393 cases from 21 states, including 154 cases with paralytic status unspecified.

*Table 8*  
*Poliomyelitis Cases in Vaccinated Individuals*  
*(PSU Accepted Cases through September 7, 1955)*

Vaccine Manufacturer\* and Paralytic Status\*\*

	C		L		PD		PM		W	
	P	NP	P	NP	P	NP	P	NP	P	NP
CASES VACCINATED 5-7 OR BEFORE WITH ONSETS 30 DAYS OR LESS AFTER VACCINATION***										
Totals through 8-31	60	14	18	24	3	2	3	2	9	3
(No New Cases 9-1 through 9-7)	74		42		5		5		12	
CASES VACCINATED 5-7 OR BEFORE WITH ONSETS 31 DAYS OR MORE AFTER VACCINATION***										
Totals through 8-31 (Revised)	6	4	18	63	6	20	8	7	6	11
New Cases 9-1 through 9-7	2	5	1	13	0	1	1	2	0	0
Totals through 9-7	8	9	19	76	6	21	9	9	6	11
	17		95		27		18		17	
CASES VACCINATED 5-8 OR LATER WITH ONSETS 30 DAYS OR LESS AFTER VACCINATION***										
Totals through 8-31 (Revised)			8	24	18	19	0	3	1	2
New Cases 9-1 through 9-7			0	7	0	3	0	1	0	3
Totals through 9-7			8	31	18	22	0	4	1	5
			39		40		4		6	
CASES VACCINATED 5-8 OR LATER WITH ONSETS 31 DAYS OR MORE AFTER VACCINATION***										
Totals through 8-31 (Revised)			2	8	20	53			0	1
New Cases 9-1 through 9-7			0	4	23	42			0	0
Totals through 9-7			2	12	43	95	0	0	0	1
			14		138		0		1	

\* Vaccine Manufacturers: C - Cutter; L - Lilly; PD - Parke-Davis; PM - Pitman-Moore; W - Wyeth

\*\* Paralytic Status: P - paralytic; NP - Non-paralytic

\*\*\* Cases in Individuals who had two inoculations are listed according to the second inoculation. No inoculations with Cutter vaccine given after May 7.

Table 9

Comparison of Reported\* and Expected\*\* Cases of Poliomyelitis  
Among Children Inoculated in NFIP Clinics from April 15 to May 7, 1955

Vaccine Mfr.*** And Number Vaccinated****Cases		5 Weeks Apr. 17- May 21	5 Weeks May 22- June 25	5 Weeks June 26- July 30	Aug. 6	Aug. 13	Aug. 20	Aug. 27	Sept. 3
Reported	P	31	2	3	1	0	1	-	-
CUTTER	NP	12	6	5	4	1	1	-	0
303,000	Total	43	8	8	5	1	2	0	0
Expected Total		11	12	16	4	4	5	4	-
Reported	P	17	11	12	0	0	1	1	-
LILLY	NP	22	38	35	11	8	6	3	0
2,514,000	Total	39	49	47	11	8	7	4	0
Expected Total		26	52	95	26	32	30	22	-
Reported	P	1	3	4	1	-	-	-	-
PARKE-DAVIS	NP	2	4	16	1	-	-	-	0
860,000	Total	3	7	20	2	0	0	0	0
Expected Total		6	11	43	19	26	22	24	-
Reported	P	2	4	5	0	0	1	0	-
PITMAN-MOORE	NP	2	1	5	2	2	1	1	0
411,000	Total	4	5	10	2	2	2	1	0
Expected Total		2	4	18	6	7	6	5	-
Reported	P	8	3	4	-	-	-	-	-
WYETH	NP	3	4	7	-	-	-	-	0
775,000	Total	11	7	11	0	0	0	0	0
Expected Total		4	9	20	10	11	15	10	-

\*Reported Cases include only cases accepted by PSU through September 7 and vaccinated in NFIP Clinics April 16 through May 7, 1955.

\*\*Expected Cases among this group of children estimated from 1955 incidence of poliomyelitis (paralytic and non-paralytic) reported to National Office of Vital Statistics by the States.

\*\*\*CUTTER vaccine was used in Idaho, Nevada, Arizona, New Mexico and southern California. LILLY vaccine was used in Texas, Oklahoma, Louisiana, Arkansas, Mississippi, Alabama, Tennessee, Florida, Georgia, South Carolina, North Carolina, Virginia, West Virginia, Indiana and parts of Ohio, California and Colorado. PARKE-DAVIS vaccine was used in Michigan, Illinois, Iowa, Wyoming, Utah, and part of Colorado. PITMAN-MOORE vaccine was used in Kentucky, Missouri, Kansas, and Nebraska. WYETH vaccine was used in Pennsylvania, Delaware, Maryland, District of Columbia and part of Ohio.

\*\*\*\*Data from the NFIP.



PSU		Ini-	Date	Date	Date	Site						
Case No.	County	tials	Age Sex Inoc.	Symp.	Para.	Inoc.	Para.	Mfr.	No.		Remarks	
					<u>NEW</u>							
Mass-2	Suffolk	SB	7 F May or June	7-5	?	?	?	PD	029128 ? 028849 028850 028861	Paralytic		
Mass-3	Suffolk	HM	8 F 5-?	7-8	None	?	None	PD	"			
Mass-4	Suffolk	DC	7 M 6-?	7-8	?	?	?	PD	"	Paralytic		
Mass-5	Suffolk	AF	8 M 6-?	7-4	None	?	None	PD	"			
Mass-6	Worcester	PP	10 M 5-?	7-4	?	?	?	PD	"	Paralytic		
Mass-7	Suffolk	MF	7 F 5-?	7-17	None	?	None	PD	"			
Mass-8	Plymouth	AF	9 M 6-?	7-10	None	?	None	PD	"			
Mass-9	Suffolk	RL	8 F 6-?	7-13	None	?	None	PD	"			
Mass-10	Suffolk	GM	8 M 6-1	7-22	None	?	None	PD	"			
Mass-11	Essex	PH	7 M 5-?	7-25	None	?	None	L	? 8125-649337 8124-649336	Vaccinated in Ohio.		
Mass-12	Suffolk	JB	7 M 6-?	7-29	None	?	None	PD	? 028849 028850 028861 029128			
Mass-13	Suffolk	JT	6 M 5-27	7-26	?	?	?	PD	? 028849 028850 028861 029128	Paralytic		
Mass-14	Suffolk	JL	7 M 5-?	8-2	?	?	?	PD	"	Paralytic		
Mass-15	Suffolk	CR	8 F 5-?	8-3	?	?	?	PD	"			

PSU		Ini-			Date	Date
Case No.	County	tials	Age	Sex	Inoc.	1st Symp.
Mass-16	Middlesex	JS	7	F	5-?	8-4
Mass-17	Suffolk	AM	8	F	5-?	8-4
Mass-18	Suffolk	JO	8	M	4-?	8-4
Mass-19	Suffolk	EB	7	F	6-?	8-11
Mass-20	Middlesex	JH	7	F	5-?	7-21
Mass-21	Norfolk	EM	8	M	May or ? June	
Mass-22	Suffolk	NM	6	F	5-11	7-8
Mass-23	Suffolk	MS	7	F	5-19	7-14
Mass-24	Norfolk	WV	8	M	6-?	7-12
Mass-25	Essex	PM	9	M	5-27	8-5
Mass-26	Suffolk	RE	7	M	5-?	8-9
Mass-27	Suffolk	RP	6	M	5-?	8-12
Mass-28	Suffolk	AG	7	F	May or June	8-16
Mass-29	Suffolk	GE	8	F	5-?	?
Mass-30	Worcester	TN	8	M	5-?	8-12
Mass-31	Suffolk	RL	6	M	5-?	8-14
Mass-32	Suffolk	JG	8	M	May or June	8-11
Mass-33	Suffolk	CG	9	F	"	8-14
Mass-34	Suffolk	NH	7	F	"	8-1
Mass-35	Plymouth	BM	7	F	"	7-21

Date		Site			
1st	Site	1st		Lot	
Para.	Inoc.	Para.	Mfr.	No.	Remarks

NEW (Continued)

?	?	?	PD	028849	
				?028850	
				028861	
				029128	
?	?	?	PD	"	Paralytic
None	?	None	PD	"	
None	?	None	PD	"	
None	?	None	PD	"	
None	?	None	PD	"	
None	?	None	PD	"	
?	?	?	PD	"	Paralytic
None	?	None	PD	"	
?	?	?	PD	"	
None	?	None	PD	"	
?	?	?	PD	"	Paralytic
?	?	?	PD	"	Paralytic
None	?	None	PD	"	
None	?	None	PD	"	
?	?	?	PD	"	Paralytic
?	?	?	PD	"	Paralytic
None	?	None	PD	"	
?	?	?	PD	"	
None	?	None	PD	"	Paralytic

PSU Case No.	County	Ini- tials	Age	Sex	Date Inoc.	Date 1st Symp.
Mass-36	Plymouth	RM	9	M	May or June	7-27
Mass-37	Essex	MR	8	F	5-23	8-4
Mass-38	Essex	NS	7	M	5-24	8-3
Mass-39	Suffolk	GB	7	M	May or June	?
Mass-40	Middlesex	JL	9	F	5-24	8-12
Mass-41	Suffolk	CM	7	F	5-24	8-8
Mass-42	Suffolk	MC	6	M	May or June	8-2
Mass-43	Suffolk	JO	6	F	"	8-25
Mass-44	Suffolk	SJ	7	M	"	8-23
Mass-45	Suffolk	WM	7	M	"	8-28
Mass-46	Bristol	JH	7	M	5-22	8-30
Neb-11	Boone	DZ	8	M	4-?	8-18
Neb-12	Douglas	DM	8	M	April or May	8-23
Wisc-19	Winnebago	RK	8	M	8-23	8-27
Wisc-20	Fond du Lac	KAE	7	F	5-18 6-3	8-28
Wisc-21	La Crosse	GJL	8	M	5-20 7-25	8-31
Wisc-22	Outagamie	JP	9	F	5-21	8-31
Wisc-23	Kenosha	DH	8	M	5-27	9-2
Colo-4	Denver	JD	7	M	4-?	8-3
Colo-5	Jefferson	WC	8	M	4-? 8-18	8-20
Colo-6	Denver	TAM	6	F	4-?	7-25

Date	Site	Site	Lot	
1st	Site	1st	No.	
Para.	Inoc.	Para.	Mfr.	Remarks

NEW (Continued)

None	?	None	PD	028849	
				?028850	
				028861	
				029128	
None	?	None	PD	"	
None	?	None	PD	"	
None	?	None	PD	"	
None	?	None	PD	"	
None	?	None	PD	"	
None	?	None	PD	"	
None	?	None	PD	"	
?	?	?	PD	"	Paralytic
?	?	?	PD	"	Paralytic
?	?	?	PD	"	Paralytic status?
8-24	?	Trunk	PM	?175B006	
				175B007	
None	?	None	PM	"	
None	LA	None	W	24001	
None	RA	None	PD	029127A	
	LA		"	"	
None	LA	None	"	"	
	"		"	"	
None	LA	None	PD	?	
None	LA	None	PD	029127A	
None	Arm	None	L	8123-649335	or Spinal fluid 140 cells.
				8124-649336	
None	?	None	L	"	Spinal fluid 452 cells.
	?		L	6003-653806	
None	Arm	None	L	8123-649335	Spinal fluid 535 cells.
				8124-649336	

PSU CASE NO.	County	Ini- tials	Age	Sex	Date Inoc.	Date 1st Symp.	Date 1st Para.	Site Inoc.	Site 1st Para.	Mfr.	Lot No.	Remarks
NEW (Continued)												
Va-21	Norfolk	WR	6	M	4-25	8-25	None	LA	None	L	8122-649334	
Va-22	Fairfax	LB	11	M	4-25	8-26	None	LA	None	L	8122-649334	
					8-13			?		?	?	
Va-23	Fairfax	RM	7	M	4-25	8-18	None	LA	None	L	8122-649334	
Va-24	Warwick	DIS	7	M	5-25	8-19	None	LA	None	L	8122-649334	
Ark-7	Union	FL	8	F	4-20	7-7	None	LA	None	L	7080-649342	Untypable virus Potash (8-17).
Ky-8	Woodford	WK	7	M	4-25	8-18	None	?	None	PM	175A028	
Ky-9	Jefferson	GDH	8	M	4-28	8-10	None	LA	None	PM	175E027	Spinal fluid, 8 cells.
					7-26			LA		W	23904	
Ky-10	Jefferson	JTB	9	M	4-28	8-12	None	LA	None	PM	175C028	Spinal fluid, 150 cells.
					7-25			LA		W	23902	
NY-52	Herkimer	DM	6	M	5-18	8-14	None	?	None	PD	029129A	
					8-3			?		L	6002-653-805	
NY-53	Lewis	ML	8	F	5-19	8-26	None	LA	None	L	V-1403?	Spinal fluid, 523 cells.
					8-4			LA		L	V-1403?	
NY-54	Erie	RP	8	M	5-?	7-31	None	?	None	PD	029129A	
NY-55	Monroe	DK	6	M	5-?	8-11	8-18	LA	Legs	PD	029128C	
NY-56	Suffolk	ES	9	M	5-24	8-19	8-21	LA	Legs & Arms	PD	029128C	
NY-57	Westchester	RCC	8	M	5-25	8-7	None	LA	None	PD	029128C	
					6-27			LA		PD	029128C	
NY-58	Herkimer	RDD	6	M	5-20	7-18	None	RA	None	PD	029129A	Spinal fluid, 204 cells.
NY-59	Cattaraugus	MF	10	F	5-22	7-27	None	LA	None	PD	029129A	Spinal fluid, 110 cells.
NY-60	Erie	EMD	8	M	6-?	8-15	None	LA	None	PD	029129A	Spinal fluid, 740 cells.
					8-?			LA		PD	029129A	
NY-61	New York	LB	6	F	5-24	8-17	None	?	None	PD	029128C	Spinal fluid, 330 cells.
Tex-46	Harris	JWS	7	M	4-19	8-11	None	LA	None	L	7078-649343	Spinal fluid, 107 cells.
					8-4			LA		L	8118-649330	
Tex-47	Harris	MDN	8	M	4-19	8-15	None	LA	None	L	7078-649343	Spinal fluid, 54 cells.



<i>FSU</i> <i>CASE NO.</i>	<i>County</i>	<i>Ini-</i> <i>tials</i>	<i>Age</i>	<i>Sex</i>	<i>Date</i> <i>Inoc.</i>	<i>Date</i> <i>1st</i> <i>Symp.</i>
Tex-48	Harris	TH	9	M	4-19	8-2
Tex-49	El Paso	JWD	8	M	4-?	7-18
Tex-50	Harris	CAD	8	M	4-19	7-15
Wyo-3	Laramie	RS	8	M	May	8-3
Cal-74	L. A. Co.	LLB	9	F	5-1	6-20
Cal-75	Sacramento	HJM	6	F	4-26	8-4
Cal-76	Sutter	EC	8	M	4-26	8-23
Cal-77	L. A. Co.	DJM	8	F	5-19	7-14
Cal-78	Orange	NW	6	F	4-23	8-2
					5-23	
Cal-79	L. A. Co.	RWH	7	M	4-20	7-11
Cal-80	L. A. Co.	RP	7	M	5-17	7-6
Cal-81	Kern	DEW	6	M	5-18	7-29
					7-13	
Cal-82	Yuba	CRO	7	M	4-27	7-20
					7-25	
Cal-83	L. A. City	LP	7	M	5-18	8-9
Cal-84	L. A. City	PM	7	F	5-19	8-14
Cal-85	L. A. City	HDM	8	M	5-16	8-16
Cal-86	L. A. City	JK	7	M	5-19	8-16
Cal-87	Contra-Costa	JCE	8	M	4-26	8-16
					8-4	
Cal-88	L. A. Co.	MB	6	F	4-21	8-19
					5-19	

Date 1st Para.	Site Inoc.	Site 1st Para.	Mfr.	Lot No.	Remarks
NEW ( Continued )					
None	?	None	L	7078-649343	Spinal fluid 630 cells.
None	LA	None	L	7080-649342 8124-649336	Spinal fluid, 45 cells.
None	RA	None	L	7078-649343	Spinal fluid, 114 cells.
None	?	None	C	?	Spinal fluid, 139 cells.
None	LA	None	C	?	Spinal fluid, 10 cells.
None	LA	None	L	8123-649335 8124-649336	Spinal fluid, 91 cells.
None	LA	None	L	8124-649336	Spinal fluid, 68 cells.
None	LA	None	PD	028848A	Spinal fluid, 37 cells.
None	?	None	C	E6038 or E5928	Spinal fluid,
	?		L	8123-649335	232 cells.
7-11	LA	LL	C	E6037	
?	LA	?	PD	028848A	
None	LA	None	PD	028847A	Spinal fluid,
	LA		PD	028847A	150 cells.
None	LA	None	L	8124-649336	Spinal fluid,
	RA		PD	028847A	1250 cells.
8-14	LA	LL	PD	028848A	
None	LA	None	PD	028848A	
None	LA	None	PD	028848A	
None	RA	None	PD	028848A	
None	LA	None	L	8124-649336	
	LA		L	8119-649331	
?	LA	RA	C	6038	
	RA	LA	PD	029126A	
		RL?			

PSU CASE NO.	County	Ini- tials	Age	Sex	Date Inoc.	Date 1st Symp.
NEW						
Cal-89	L. A. Co.	DP	8	M	4-22	8-15
Cal-90	L. A. City	CM	6	M	5-20	8-4
Cal-91	Sacramento	KE	8	M	4-25	8-17
Cal-92	L. A. City	SF	7	F	5-17 5-31	8-29
Cal-93	L. A. Co.	BF	6	M	5-18	8-24
Ala-3	DeKalb	RR	7	M	4-19	8-23
NH-6	Merrimack	DJ	8	M	5-15	8-20
Mo-5	St. Louis Co.	JD	7	F	8-15	8-29
Miss-13	Leflore	JL	7	F	4-29	8-9
Miss-14	Monroe	DD	7	F	4-19 5-17	8-8
Ariz-3	Pinal	FH	8	M	April	8-4
Ariz-4	Pinal	SZ	6	F	4-26	7-3
Ariz-5	Maricopa	RB	7	F	4-26 6-21	6-29
Ariz-6	Maricopa	JFI	7	F	4-28	5-4

NAME CASE NO. COUNTY STATE YES FOR 100% CASE

Date	Site	Site		Lot.	
1st	Site	1st		No.	
Para.	Inoc.	Para.	Mfr.	No.	Remarks

(Continued)

None	LA	None	C	5976	
None	LA	None	PD	028848A	
None	LA	None	L	8124-649336 or 8123-649335	
None	LA	None	PD	028848A	
	RA		PD	028848A	
None	LA	None	PD	028848A	
8-25	?	Legs	L	5079-649338	
None	Arm	None	PD	029126A	Spinal fluid, 103 cells.
None	LA	None	PM	?	
None	LA	None	L	1403	Spinal fluid, 61 cells
None	?	None	L	V-1403	Spinal fluid,
	?		L	V-1403	115 cells.
8-6	?	RL	C	?	
None	?	None	C	?	
None	?	None	C	?	Spinal fluid, 2 cells.
	?		L	5207-649349	
None	RA	None	C	E6037?	

PSU		Ini-			Date	Date		Site				
CASE NO.	County	tials	Age	Sex	Date Inoc.	1st Symp.	1st Para.	Site Inoc.	1st Para.	Mfr.	Lot No.	Remarks
REVISIONS (Revised Items Underlined)												
Ark-6	Pulaski	BA	<u>4</u>	M	4-21	7-26	7-27	?	Bulbar	C	?	Type I virus isolated (8-29) Dr. Potash
NC-1	Davie	SBH	8	F	4-21	6-20	6-27	?RA	LL	L	5080-649339	RA also paralyzed. Sister developed back weakness (6-27) Type 3 virus isolated (8-30) Dr. Francis.
NC-2	Davidson	RGL	8	M	4-26	6-8	6-11	?RA	RL	L	5080-649339	Type I virus isolated (8-30) Dr. Francis.
NY-37	Dutchess	SS	7	F	<u>5-24</u> <u>8-12</u>	8-21	None	<u>IA</u> <u>IA</u>	None	PD	029128C <u>L 6002-653805</u>	CSF 320 cells
Tex-45	Dallas	BJC	8	F	4-21	8-1	None	<u>Arm</u> <u>Arm</u>	None	L	<u>7078-649343</u> 8118-649330	CSF 350 cells
Miss-6	Panola	JP	8	M	4-20	7-5	None	<u>IA</u> <u>IA</u>	None	L	5080-649339 5080-649339	Untypable agent recovered from siblings (Potash 8-17)
Pa-12	Dauphin	CH	8	M	5-28	8-21	None	<u>IA</u> <u>IA</u>	None	W	?236 <u>?238</u>	Spinal fluid 77 cells.
Cal-46	L.A. City	RRF	6	M	5-17	8-6	None	<u>IA</u> <u>IA</u>	None	PD	<u>028848A</u>	Spinal fluid 66 cells.
Cal-49	L.A. City	DT	6	M	5-17	<u>?7-14</u> <u>5-31</u>	None	<u>IA</u> <u>IA</u>	LL	PD	028848A 028848A	<u>Spinal fluid 280 cells.</u>
Cal-51	L.A. Co.	RH	7	M	4-20	7-11	<u>7-11</u>	<u>IA</u> <u>IA</u>	<u>LL</u>	C	E6037	
Cal-53	L.A. Co.	LP	6	F	5-17	7-6	None	<u>IA</u> <u>IA</u>	None	PD	028848A	
Cal-54	Fresno	SA	8	F	5-26	7-1	None	<u>IA</u> <u>IA</u>	None	PD	028848A 028848A	<u>Spinal fluid 860 cells.</u>
Cal-56	San Ber- nardino	SVD	7	F	<u>4-21</u>	6-24	None	<u>IA</u> <u>IA</u>	None	C	5928 or 6038	

