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POLIOMYELITIS SURVEILLANCE
REPORT NO.42 SEPTEMBER 16, 1955

Department of Health, Education, and Welfare
Public Health Service — Communicable Disease Center

Poliomyelitis Surveillance Unit
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SPECIAL NOTE

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.

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I Current Morbidity Trends

Poliomyelitis incidence by weeks for the current year, with similar data for the three preceding years, is presented in Figure 1, drawn from data published by the National Office of Vital Statistics. Incidence fell slightly this week and is close to that for 1953 and 1954, although considerably lower than comparable incidence in 1952.

Poliomyelitis incidence by states for the weeks ending August 6 through September 10 is presented in Table 1, together with a six-week total for this and the three previous years. The slight change in national incidence this week is reflected in minor changes reported from many states. Of particular note is the drop in incidence in Massachusetts, New York and Wisconsin, the three states with the highest current incidence.

II Age Distribution Analysis

A total of 5438 cases reported from 24 states, up to September 2, is included in the tabulations presented this week. The 24 states represented are grouped in four regions as follows (the District of Columbia is treated as an additional state in all tabulations):

North East: Connecticut, Maine and New York

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

South: Alabama, Arkansas, District of Columbia, Mississippi, South Carolina, Tennessee, Texas, Virginia, and West Virginia.

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

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 24 states. In these tables data is broken down by single years of age to age 15 for paralytic and non-paralytic cases, for the periods April 12 through July 2, and July 3 through September 2. Percentages are calculated for total cases under 15 years of age, in order to bring out a more detailed year-by-year comparison within this group. Cases with onsets prior to July 3 are separated from those with onsets July 3 and later for two reasons: 1) there is evidence that some cases with onsets prior to July 3 were causally related to polio vaccine, and ; 2) 1955 vaccinations, all of which were given after April 12, might not show their full protective effect before July.

Table 7 presents data from 24 states with cases by single years of age to age 15, to show the "Paralytic Ratio" within each age group. The "Paralytic Ratio" is the percentage of total cases (cases status unspecified are excluded) within each age group which are paralytic. (It should be pointed out that a small number of cases with either paralytic status or date of onset unknown are not included in Tables 2 through 7, but are noted in footnotes to these tables.)

Table 8 presents age distribution of total cases from April 12 to September 2 for Alaska and Hawaii.

Figures 2, 3 and 4 are drawn from tabulations presented in PSU Report No. 41, for September 9. Figure 2 shows a break down by single years of age to age 30, and by 5 year age groups to age 50, for paralytic and non-paralytic cases for the four regions into which the states have been divided, and the upper half of Figure 3 shows the same data for the total group of 21 states represented. The lower half of Figure 3 and Figure 4 show percentage distribution of polio cases under 15 years of age with a comparison of paralytic and non-paralytic cases from the four regions.

III Special Studies

Dr. David Poskanzer, Epidemic Intelligence Service Officer, assigned to New York State reports current poliomyelitis data for upstate New York as follows:

> "The question arose as to whether the field trial counties might not be having less exposure to polio this year, and in that way account for the low paralytic rate in vaccinated children. The accompanying table indicates that the rate of exposure in the field trial areas is slightly higher than the rest of the State. Comparison of 1954 vaccine recipients with unvaccinated children is striking and significant."

1955 Poliomyelitis Rates in Up State New York

	Total Population	Polio Cases	Rate per 100,000
1954 Field Trial Counties	5,537,000	697	12.6
Remainder of New York State (exclusive of N.Y. City)	2,395,000	250	10.4

Poliomyelitis in Up State New York in 1955**

	Estimated Number	Number of Cases			Rate per 100,000		
		Paralytic	Non-Paralytic	Total*	Para	Non-Para	Tot.*
Vaccinated in 1954***	98,000	1	11	16	1.0	11.2	16.3
Unvaccinated 6-10 year olds	280,000	40	69	125	14.3	24.6	44.6

* Includes cases with paralytic status unknown.
** 353,000 1955 vaccinees are not included in this table.
*** Include 20,000 1954 vaccinees given a booster in 1955.

Dr. Leonard M. Schuman, Minnesota Department of Health, notes the following laboratory examinations performed on Minnesota cases:

> "It is of interest that, between Dr. Bauer's (State Laboratory Dir.) and Dr. Syverton's (Professor of Bacteriology, Univ. of Minnesota)

laboratories, 31 isolations have been made on 103 cases to date (since April 1). These 31 positives were distributed as follows: 20 Type I (5 bulbar, 12 spinal and 3 non-paralytic); 5 Type II (1 bulbar, 2 spinal and 2 non-paralytic); and 6 Type III (3 bulbar, 1 spinal and 2 non-paralytic). Seventy-two (72) cases failed to reveal virus (3 bulbar, 10 spinal and 59 non-paralytic)."

These data may be tabulated as follows:

Result of Stool Examination	Type of Case Examined* P	NP	Total
Isolation Polio Virus	24	7	31
Type I	17	3	20
Type II	3	2	5
Type III	4	2	6
No Virus Isolated	13	59	72
TOTAL	37	66	103

* P-paralytic; NP-non-paralytic

IV Routine Polio Surveillance

The tabular summary lists in detail the polio cases among vaccinated children accepted September 8 through September 14 with revisions of previously listed cases. (Table 9).

Table 10 presents a comparison of "reported" and "expected" cases among children who received first inoculations in NFIP Clinics through May 7. The "expected" number represents 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

California State Department of Health in a report dated September 6 notes that:

"The first cases of arthropod-borne encephalitis (Western equine infections) have been diagnosed with laboratory confirmations:

County	No. Cases	Date of Onset
Fresno	1	7/23
Sutter	1	8/3
Yolo	1	7/31

The ages of these cases are of interest and typical of Western equine infections: 3½ weeks, 1 month, and 10 months."

Total cases of acute encephalitis reported for the state January 1 through August 31 are tabulated as follows:

Acute Encephalitis by Etiology
State of California January 1 - August 31

	Total	Etiology Undetermined	WEE	SLE	Measles	Mumps	Chicken-pox	Other*
1955	250	76	3	0	67	90	10	4
1954	356	89	6	14	57	163	22	5

* Includes encephalitis following vaccination, herpes, German measles, influenza, pneumonia and otitis media.

Since May 1, 1955, 738 pools of mosquitoes have been submitted to the California State Viral and Rickettsial Disease Laboratory. Isolations of WEE virus have been reported from 36 pools collected in Fresno, Kern, San Joaquin, and Sutter-Yuba Counties. No isolations of St. Louis virus has been reported. Testing of mosquito pools is summarized below.

Mosquito Virus Isolation Tests

	No. Pools Tested	Number of Pools Positive WEE	SLE	?*	No. Pools Negative	No. Pools in progress
1955	738	36	0	0	479	223
1954	707	145	70	38	454	0

* Unidentified virus isolated.

"Western equine encephalitis virus has been isolated from two gray squirrels submitted from Butte County. These squirrels were found sick and submitted to our Division of Laboratories in July as suspected cases of rabies. Brain material was inoculated into mice which died 3 to 7 days later with symptoms of a neurotropic virus infection, not characteristic of rabies. Additional laboratory tests with animal inoculations resulted in the isolation of the Western Equine Encephalitis virus. The significance of these findings will be determined by further investigation."

Dr. Richard F. Boyd, PHS Regional Medical Director in San Francisco, reports a request for epidemic aid from Dr. Dan Hurley, State Health Officer in Nevada. From 10 to 12 cases of clinical encephalitis have occurred among persons in Las Vegas and Clark County, Nevada. Mosquitoes have recently been unusually prevalent following heavy rains. Specimens have been sent to Dr. E. H. Lennette in Berkeley, California. An Epidemic Intelligence Service Officer has been assigned to answer this request.

Dr. C.A. Sooter and Dr. Rowan Boylan from the Greeley Field Station are investigating a reported outbreak of 6 cases of encephalitis in Casper, Wyoming.

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

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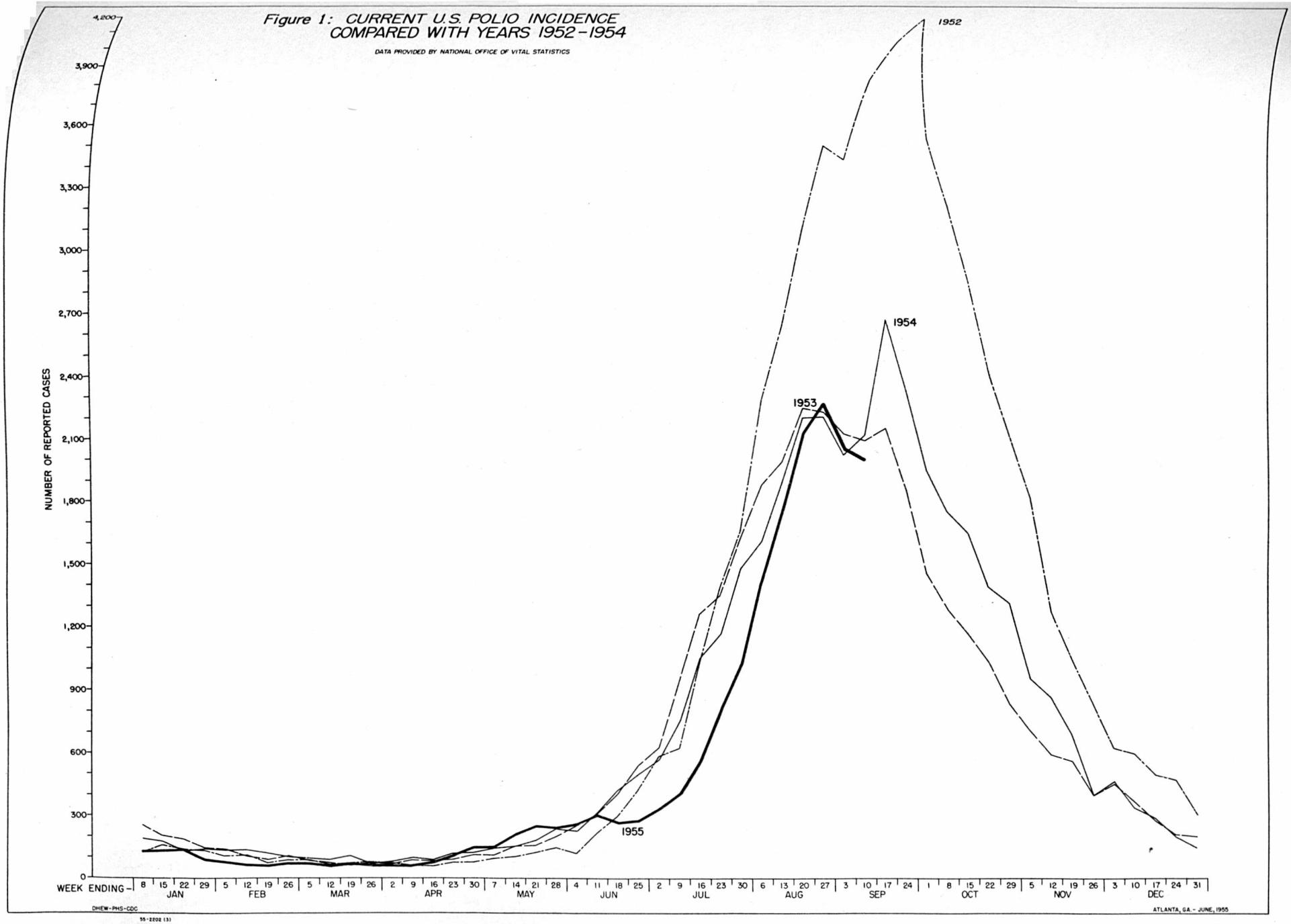
Figure 1: CURRENT U.S. POLIO INCIDENCE COMPARED WITH YEARS 1952-1954

DATA PROVIDED BY NATIONAL OFFICE OF VITAL STATISTICS



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ATLANTA, GA. – JUNE, 1955

Table 1

TREND OF 1955 POLIOMYELITIS INCIDENCE

State	Cases Reported to NOVS* During Week Ending: 8/6	8/13	8/20	8/27	9/3	9/10	6 Week Total	Comparable Totals in: 1954	1953	1952
United States	1412	1786	2138	2289	2059	2009	11693	12084	12599	18815
North East										
Maine	11	18	13	18	12	22	94	51	147	60
New Hampshire	16	24	41	27	18	20	146	29	36	24
Vermont	2	4	20	13	9	13	61	22	42	5
Massachusetts	309	411	448	355	317	290	2130	356	182	249
Rhode Island	19	16	34	36	46	33	184	47	118	26
Connecticut	38	50	55	56	63	75	337	111	134	188
New York	102	117	169	238	272	245	1143	603	1063	957
New Jersey	21	39	55	59	59	66	299	271	320	311
Pennsylvania	30	43	51	68	52	73	317	445	443	528
North Central										
Ohio	42	94	91	124	87	97	535	789	1033	1079
Indiana	29	27	26	35	33	27	177	268	287	431
Illinois	68	75	147	111	129	112	642	730	922	1423
Michigan	78	92	94	116	123	68	571	760	1005	1489
Wisconsin	105	135	160	353	311	224	1288	176	289	816
Minnesota	28	73	62	60	41	45	309	267	1069	1264
Iowa	45	61	70	44	37	33	290	542	284	1396
Missouri	9	16	13	18	18	15	89	236	332	378
North Dakota	2	4	5	3	4	5	23	50	90	90
South Dakota	8	1	3	11	5	1	29	31	80	214
Nebraska	28	16	23	11	14	19	111	279	80	892
Kansas	19	12	20	21	19	18	109	223	188	496
South										
Delaware	7	3	4	3	3	3	23	15	15	43
Maryland	8	18	23	25	15	12	101	70	217	42
District of Co.	5	1	2	4	2	4	18	32	27	83
Virginia	25	23	27	25	10	20	130	223	305	334
West Virginia	6	11	9	14	13	20	73	139	203	292
North Carolina	23	36	43	38	27	21	188	303	265	151
South Carolina	21	23	21	21	13	22	121	94	57	39
Georgia	15	10	4	14	15	6	64	279	130	170
Florida	12	12	26	16	3	23	92	320	158	126
Kentucky	38	43	36	36	14	19	186	309	122	717
Tennessee	6	8	20	16	10	20	80	215	218	207
Alabama	4	11	13	10	4	12	54	105	107	87
Mississippi	10	9	10	6	3	3	41	150	102	197
Arkansas	9	16	10	17	6	9	67	90	106	129
Louisiana	14	12	16	11	8	17	78	126	99	215
Oklahoma	21	5	22	15	4	29	96	179	187	413
Texas	81	79	98	80	76	94	508	933	391	1210

Table 1 (Continued)

State	Cases Reported to NOVS* During Week Ending: 8/6	8/13	8/20	8/27	9/3	9/10	6 Week Total	Comparable Totals In: 1954	1953	1952
West										
Montana	4	6	9	3	12	10	44	30	80	74
Idaho	16	9	6	10	5	5	51	38	18	111
Wyoming	-	1	3	-	1	2	7	95	23	31
Colorado	9	8	18	10	21	12	78	148	79	201
New Mexico	6	10	5	10	6	5	42	83	30	185
Arizona	4	2	10	3	10	8	37	59	185	99
Utah	1	6	-	4	-	7	18	56	60	41
Nevada	2	-	1	1	4	3	11	51	13	16
Washington	13	14	17	16	20	38	118	102	117	428
Oregon	10	12	14	18	22	20	96	97	98	130
California	33	70	71	86	63	64	387	1457	1043	728

*National Office of Vital Statistics.

Table 2

AGE DISTRIBUTION ANALYSIS

Percentage Distribution of Poliomyelitis Cases under 15 Years of Age
Grouped by Date of Onset
Reported from Three North East States*

Age	Onsets April 12 thru July 2**				Onsets July 3 thru Sept. 2**			
	Paralytic		Non-Paralytic		Paralytic		Non-Paralytic	
	No.	%	No.	%	No.	%	No.	%
<1	0	0	0	0	1	0.6	1	0.4
1	7	10.6	1	1.4	16	8.9	4	1.4
2	12	18.2	1	1.4	20	11.1	10	3.6
3	5	7.6	5	6.8	19	10.5	13	4.6
4	8	12.1	6	8.1	18	10.0	32	11.4
0-4	32	48.5	13	17.6	74	41.1	60	21.3
5	6	9.1	5	6.8	19	10.5	23	8.2
6	8	12.1	8	10.8	14	7.8	34	12.1
7	7	10.6	11	14.9	4	2.2	23	8.2
8	6	9.1	13	17.6	10	5.6	28	9.9
9	1	1.5	4	5.4	8	4.4	16	5.7
5-9	28	42.4	41	55.4	55	30.5	124	44.0
10	1	1.5	5	6.8	13	7.2	17	6.0
11	2	3.0	4	5.4	10	5.6	18	6.4
12	1	1.5	5	6.8	9	5.0	23	8.2
13	0	0	4	5.4	12	6.7	18	6.4
14	2	3.0	2	2.7	7	3.9	21	7.5
10-14	6	9.1	20	27.0	51	28.3	97	34.4
0-14	66	100%	74	100%	180	100%	281	100%
15 plus	30		14		93		128	
Unknown								
Total	96	100%	88	100%	273	100%	409	100%

* Connecticut, Maine, and New York.

** Preliminary data reported from the states through September 2, but not including 134 cases with paralytic status unspecified and one paralytic case with date of onset unknown.

Table 3

AGE DISTRIBUTION ANALYSIS

Percentage Distribution of Poliomyelitis Cases under 15 Years of Age
Grouped by Date of Onset
Reported from Six North Central States*

	Onsets April 12 thru July 2**				Onsets July 3 thru Sept. 2**			
	Paralytic		Non-Paralytic		Paralytic		Non-Paralytic	
Age	No.	%	No.	%	No.	%	No.	%
<1	4	3.4	2	1.6	13	3.1	14	3.3
1	13	11.0	5	4.1	38	9.0	13	3.0
2	10	8.5	10	8.2	53	12.5	29	6.8
3	9	7.6	7	5.7	48	11.3	36	8.4
4	13	11.0	6	4.9	40	9.4	59	13.8
0-4	49	41.5	30	24.6	192	45.3	151	35.3
5	13	11.0	14	11.5	47	11.1	49	11.5
6	11	9.3	17	13.9	31	7.3	46	10.8
7	9	7.6	11	9.0	25	5.9	35	8.2
8	9	7.6	17	13.9	20	4.7	26	6.1
9	6	5.1	12	9.8	18	4.2	24	5.6
5-9	48	40.7	71	58.1	141	33.3	180	42.1
10	3	2.5	2	1.6	20	4.7	14	3.3
11	2	1.7	4	3.3	18	4.2	25	5.8
12	4	3.4	6	4.9	22	5.2	23	5.4
13	6	5.1	4	3.3	14	3.3	19	4.4
14	6	5.1	5	4.1	16	3.8	15	3.5
10-14	21	17.8	21	17.2	90	21.2	96	22.5
0-14	118	100%	122	100%	423	100%	427	100%
15 plus	58		45		218		237	
Unknown	0		0		1		1	
Total	176	100%	167	100%	642	100%	665	100%

* Illinois, Missouri, Nebraska, North Dakota, Ohio, and Wisconsin.

** Preliminiary data reported from the states through September 2, but not including 96 cases with paralytic status unspecified and 18 additional cases with date of onset unknown.

Table 4

AGE DISTRIBUTION ANALYSIS

Percentage Distribution of Poliomyelitis Cases under 15 Years of Age
Grouped by Date of Onset
Reported from Eight Southern States* and the District of Columbia

Age	Onsets April 12 thru July 2**				Onsets July 3 thru Sept. 2**			
	Paralytic		Non-Paralytic		Paralytic		Non-Paralytic	
	No.	%	No.	%	No.	%	No.	%
<1	16	7.1	9	4.2	31	11.4	8	2.1
1	32	14.2	7	3.3	44	16.1	11	2.9
2	36	16.0	14	6.5	35	12.8	20	5.4
3	30	13.3	12	5.6	29	10.6	33	8.8
4	21	9.3	25	4.6	27	9.9	36	9.6
0-4	135	59.9	67	31.2	166	60.9	108	28.9
5	19	8.4	22	10.2	23	8.4	51	13.7
6	13	5.8	25	11.6	23	8.4	42	11.3
7	13	5.8	16	7.4	14	5.1	36	9.6
8	5	2.2	15	7.0	7	2.6	32	8.6
9	6	2.7	9	4.2	8	2.9	17	4.6
5-9	56	24.9	87	40.5	75	27.5	178	47.7
10	4	1.8	13	6.0	7	2.6	20	5.4
11	11	4.9	11	5.1	6	2.2	19	5.1
12	7	3.1	16	7.4	7	2.6	20	5.4
13	9	4.0	9	4.2	4	1.5	16	4.3
14	3	1.3	12	5.6	7	2.6	12	3.2
10-14	34	15.1	61	28.4	31	11.4	87	23.3
0-14	225	100%	215	100%	272	100%	373	100%
15 plus	72		83		92		115	
Unknown	1				1		1	
Total	298	100%	298	100%	365	100%	489	100%

* Alabama, Arkansas, Mississippi, South Carolina, Tennessee, Texas, Virginia, and West Virginia.

** Preliminary data reported from the states through September 2, but not including 3 cases with paralytic status unspecified and 15 additional cases with date of onset unknown.

Table 5

AGE DISTRIBUTION ANALYSIS

Percentage Distribution of Poliomyelitis Cases under 15 Years of Age
Grouped by Date of Onset
Reported from Six Western States*

	Onsets April 12 thru July 2**				Onsets July 3 thru Sept. 2**			
	Paralytic		Non-Paralytic		Paralytic		Non-Paralytic	
Age	No.	%	No.	%	No.	%	No.	%
<1	12	5.6	1	0.8	6	3.2	3	1.4
1	20	9.3	6	4.7	16	8.5	8	3.8
2	27	12.6	8	6.3	24	12.7	9	4.2
3	19	8.9	10	7.9	22	11.7	12	5.7
4	21	9.8	13	10.2	18	9.6	27	12.7
0-4	99	46.2	38	29.9	86	45.7	59	27.8
5	23	10.7	12	9.4	15	8.0	18	8.5
6	19	8.9	12	9.4	19	10.1	29	13.7
7	18	8.4	22	17.3	10	5.3	18	8.5
8	11	5.1	9	7.1	7	3.7	21	9.9
9	13	6.1	4	3.1	13	6.9	12	5.7
5-9	84	39.2	59	46.4	64	34.0	98	46.2
10	4	1.9	6	4.7	7	3.7	8	3.8
11	9	4.2	4	3.1	8	4.2	19	8.9
12	6	2.8	9	7.1	13	6.9	9	4.2
13	3	1.4	6	4.7	6	3.2	12	5.7
14	9	4.2	5	3.9	4	2.1	7	3.3
10-14	31	14.5	30	23.6	38	20.2	55	25.9
0-14	214	100%	127	100%	188	100%	212	100%
15 plus	109		78		116		148	
Unknown								
Total	323	100%	205	100%	304	100%	360	100%

* Arizona, California, Colorado, New Mexico, Oregon, and Wyoming.

** Preliminary data reported from the states through September 2, but not including 12 cases with paralytic status unspecified and one non-paralytic case with date of onset unknown.

Table 6

AGE DISTRIBUTION ANALYSIS

Percentage Distribution of Poliomyelitis Cases under 15 Years of Age
Grouped by Date of Onset
Reported from 23 States and the District of Columbia

Age	Onsets April 12 thru July 2**				Onsets July 3 thru Sept. 2**			
	Paralytic		Non-Paralytic		Paralytic		Non-Paralytic	
	No.	%	No.	%	No.	%	No.	%
<1	32	5.1	12	2.2	51	4.8	26	2.0
1	72	11.5	19	3.5	114	10.7	36	2.8
2	85	13.6	33	6.1	132	12.4	68	5.2
3	63	10.1	34	6.3	118	11.1	94	7.2
4	63	10.1	50	9.2	103	9.7	154	11.9
0-4	315	50.4	148	27.4	518	48.7	378	29.1
5	61	9.8	53	9.8	104	9.8	141	10.9
6	51	8.2	62	11.5	87	8.2	151	11.6
7	47	7.5	60	11.1	53	5.0	112	8.6
8	31	5.0	54	10.0	44	4.1	107	8.2
9	26	4.2	29	5.4	47	4.4	69	5.3
5-9	216	34.6	258	47.7	335	31.5	580	44.7
10	12	1.9	26	4.8	47	4.4	59	4.5
11	24	3.8	23	4.3	42	3.9	81	6.2
12	18	2.9	36	6.7	51	4.8	75	5.8
13	18	2.9	23	4.3	36	3.4	65	5.0
14	20	3.2	24	4.4	34	3.2	55	4.2
10-14	92	14.7	132	24.4	210	19.7	335	25.8
0-14	623	100%	538	100%	1063	100%	1293	100%
15 plus	269		220		519		628	
Unknown	1		0		2		2	
Total	893	100%	758	100%	1584	100%	1923	100%

* Preliminary data reported from the states through September 2, but not including 245 cases with paralytic status unspecified and 35 additional cases with date of onset unknown.

Table 7

AGE DISTRIBUTION ANALYSIS

"Paralytic Ratio" of Poliomyelitis Cases under 15 Years of Age
Grouped by Date of Onset
Reported from 23 States and the District of Columbia

	Onsets April 12 thru July 2*				Onsets July 3 thru September 2*			
	Cases**			Paralytic Ratio***	Cases**			Paralytic Ratio***
Age	P	NP	Total	(in %)	P	NP	Total	(in %)
<1	32	12	44	72.7	51	26	77	66.2
1	72	19	91	79.1	114	36	150	76.0
2	85	33	118	72.0	132	68	200	66.0
3	63	34	97	64.9	118	94	212	55.7
4	63	50	113	55.8	103	154	257	40.1
0-4	315	148	463	68.0	518	378	896	57.8
5	61	53	114	53.5	104	141	245	42.4
6	51	62	113	45.1	87	151	238	36.6
7	47	60	107	43.9	53	112	165	32.2
8	31	54	85	36.5	44	107	151	29.1
9	26	29	55	47.3	47	69	116	40.5
5-9	216	258	474	45.6	335	580	915	36.6
10	12	26	38	31.6	47	59	106	44.3
11	24	23	47	51.1	42	81	123	34.1
12	18	36	54	33.3	51	75	126	40.5
13	18	23	41	43.9	36	65	101	35.6
14	20	24	44	45.5	34	55	89	38.2
10-14	92	132	224	41.1	210	335	545	38.5
0-14	623	538	1161	53.7	1063	1293	2356	45.1
15 plus	269	220	489	55.0	519	628	1147	45.2
Unknown	1	0	1		2	2	4	
TOTAL	893	758	1651	54.1	1584	1923	3507	45.2

* Preliminary data reported from the states throuth September 2, but not including 245 cases with paralytic status unspecified and 35 additional cases with date of onset unknown.

** P - Paralytic; NP- Non-paralytic.

*** "Paralytic Ratio" is the ratio of paralytic cases in specific age group to total cases (not including cases with paralytic status unspecified) in that age group.

Table 8

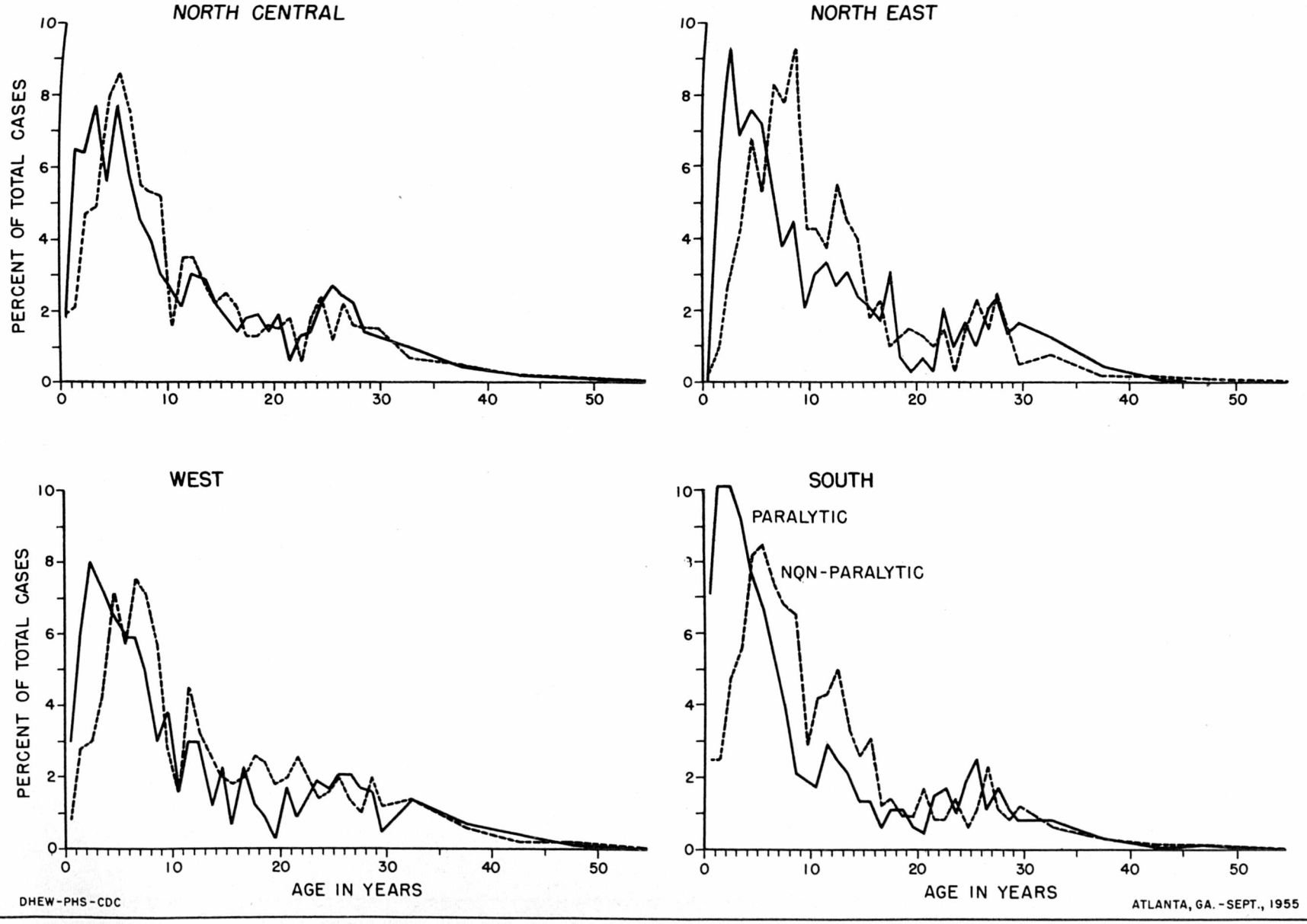
AGE DISTRIBUTION ANALYSIS
Poliomyelitis Cases by Single Years of Age
for Alaska and Hawaii
(Cases with Onsets April 12 through September 2*)

Age	Alaska		Hawaii	
	No.	%	No.	%
1	0	0	0	0
1	1	4	6	12
2	2	7	5	10
3	1	4	6	12
4	0	0	4	8
0-4	4	15	21	44
5	0	0	3	6
6	2	7	2	4
7	1	4	3	6
8	1	4	0	0
9	1	4	2	4
5-9	5	19	10	21
10	1	4	0	0
11	1	4	1	2
12	0	0	0	0
13	0	0	1	2
14	0	0	0	0
10-14	2	7	2	4
15-19	3	11	3	6
20-24	3	11	5	10
25-29	4	15	4	8
30-34	4	15	3	6
35-39	0	0	0	0
40-44	0	0	0	0
45-49	1	4	0	0
50 plus	0	0	0	0
Unknown	1	4	0	0
TOTAL	27	100%	48	100%

* Preliminary data reported from the territories Through September 2.

Figure 2: AGE DISTRIBUTION OF POLIOMYELITIS FOR 21 STATES BY REGIONS

PRELIMINARY DATA — APRIL 12 to AUGUST 26
1955



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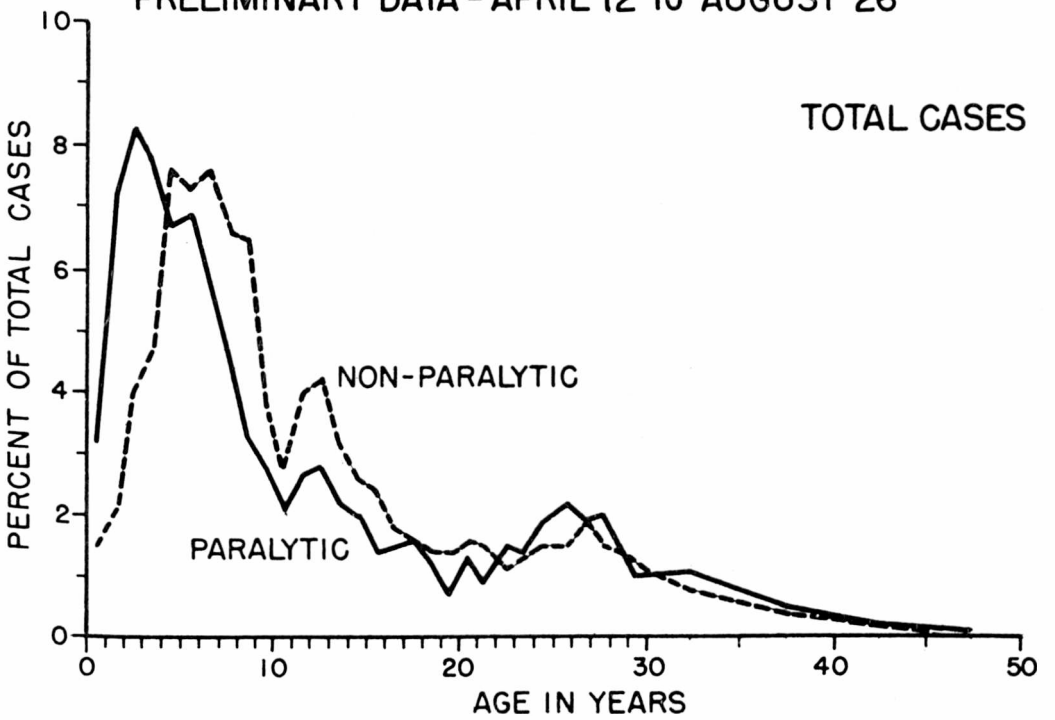
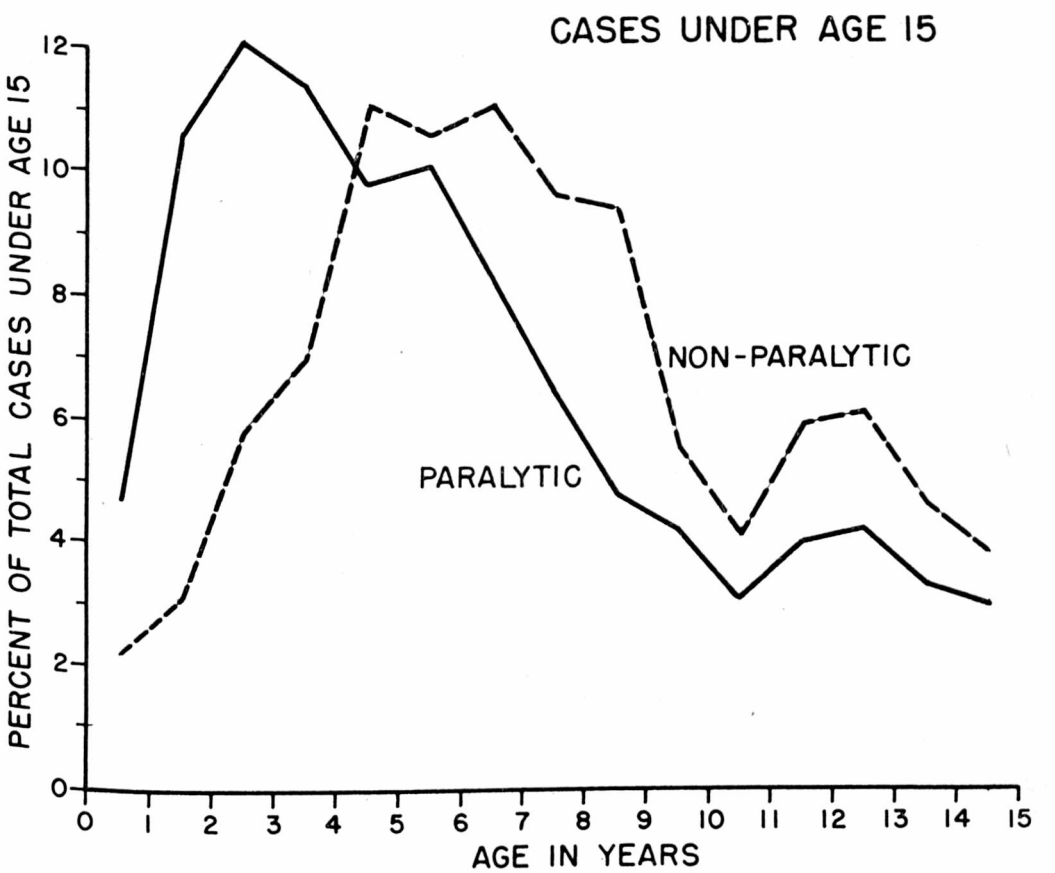
ATLANTA, GA. - SEPT., 1955

56-586

Figure 3: AGE DISTRIBUTION OF POLIOMYELITIS FOR 21 STATES IN 1955

PRELIMINARY DATA - APRIL 12 to AUGUST 26





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56-586

Figure 4: AGE DISTRIBUTION OF POLIOMYELITIS FOR 21 STATES BY REGIONS

PERCENT DISTRIBUTION OF TOTAL CASES UNDER AGE 15
PRELIMINARY DATA – APRIL 12 to AUGUST 26
1955

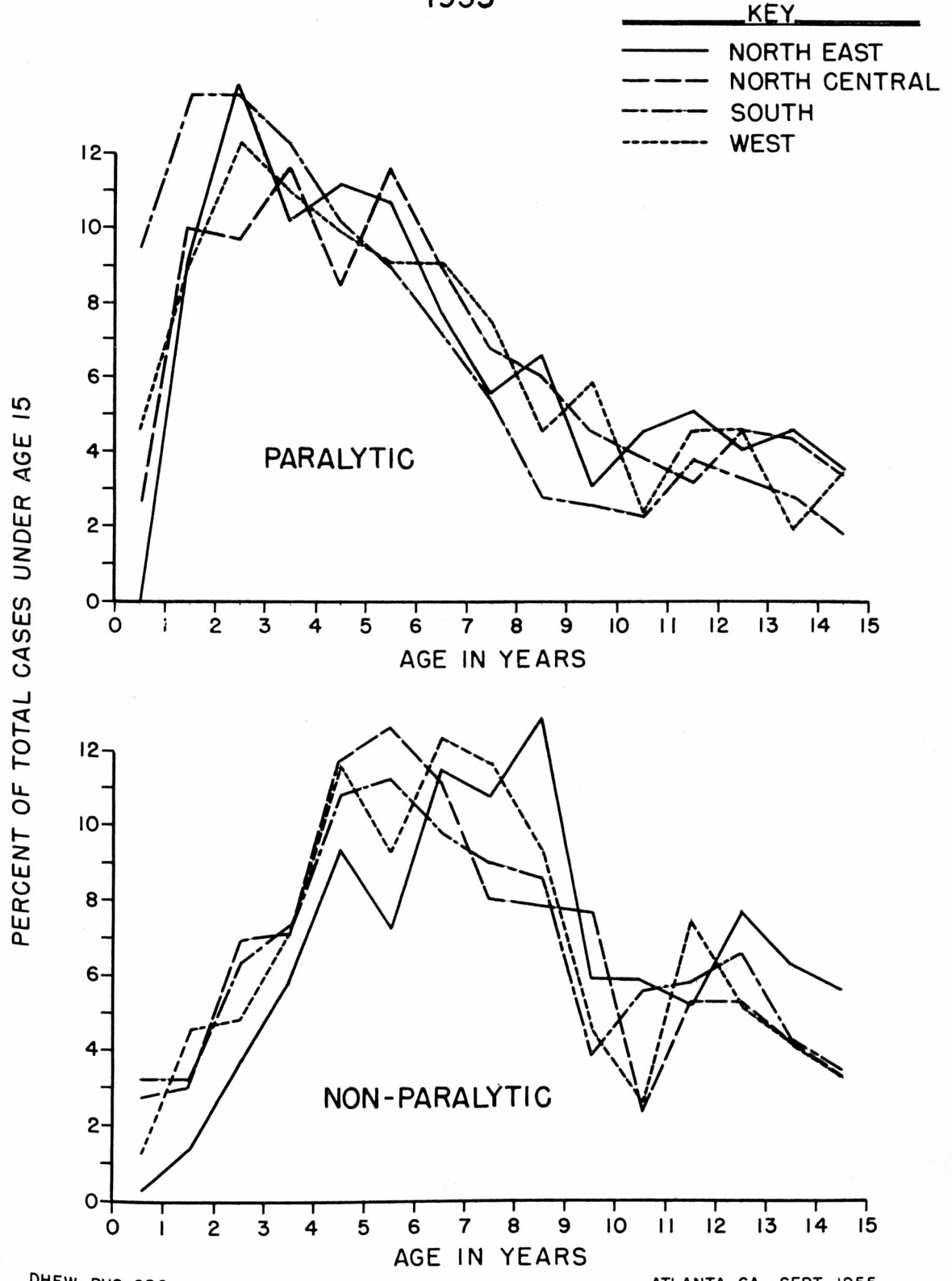

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Table 9

Poliomyelitis Cases in Vaccinated Individuals
(PSU Accepted Cases through September 14, 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 9-7 (Revised)	60	13	18	24	3	2	3	2	9	3
	73		42		5		5		12	
(No New Cases 9-8 through 9-14)										
CASES VACCINATED 5-7 OR BEFORE WITH ONSETS 31 DAYS OR MORE AFTER VACCINATION* **										
Totals through 9-7 (Revised)	8	9	18	77	6	21	9	9	6	11
New Cases 9-8 through 9-14	0	1	2	15	0	1	0	1	2	2
Totals through 9-14	8	10	20	92	6	22	9	10	8	13
	18		112		28		19		21	
CASES VACCINATED 5-8 OR LATER WITH ONSETS 30 DAYS OR LESS AFTER VACCINATION* **										
Totals through 9-7			8	31	18	22	0	4	1	5
New Cases 9-8 through 9-14			3	7	1	0	0	0	0	0
Totals through 9-14			11	38	19	22	0	4	1	5
			49		41		4		6	
CASES VACCINATED 5-8 OR LATER WITH ONSETS 31 DAYS OR MORE AFTER VACCINATION* **										
Totals through 9-7 (Revised)			2	12	44	94			0	1
New Cases 9-8 through 9-14			1	3	2	8			0	0
Totals through 9-14			3	15	46	102	0	0	0	1
			18		148		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 10

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	0	0
CUTTER	NP	12	6	5	4	1	1	1	1
303,000	Total	43	8	8	5	1	2	1	1
	Expected Total	11	12	16	4	4	5	4	4
	Reported P	17	11	13	0	2	1	1	0
LILLY	NP	23	39	40	15	11	9	4	2
2,514,000	Total	40	50	53	15	13	10	5	2
	Expected Total	26	52	95	26	32	30	22	30
	Reported P	1	3	4	1	-	-	0	-
PARKE-DAVIS	NP	2	4	16	1	-	-	1	-
860,000	Total	3	7	20	2	0	0	1	0
	Expected Total	6	11	43	19	26	22	24	18
	Reported P	2	4	5	0	0	1	0	-
PITMAN-MOORE	NP	2	1	5	3	2	1	1	-
411,000	Total	4	5	10	3	2	2	1	0
	Expected Total	2	4	18	6	7	6	5	5
	Reported P	8	4	4	-	-	-	1	-
WYETH	NP	3	4	8	-	-	-	1	-
775,000	Total	11	8	12	0	0	0	2	0
	Expected Total	4	9	20	10	11	15	10	13

*Reported Cases include only cases accepted by PSU through September 14 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.

POLIOMYELITIS AMONG VACCINATED INDIVIDUALS
(PSU Accepted Cases September 8 - September 14, 1955)

PSU CASE NO.	County	Initials	Age	Sex	Date Inoc.	Date 1st Symp.	Date 1st Para.	Site Inoc.	Site 1st Para.	Mfr.	Lot No.	Remarks
							NEW					
Tex-51	Tarrant	ICB	7	M	4-22	7-27	None	LA	None	L	7078-649343	
					5-23			LA		L	7078-649343	
Tex-52	Bexar	DFM	1	M	April	7-27	7-28	LA	LL	L	7080-649342	Spinal fluid,162 cells.
Tex-53	Bexar	DRMcD	8	M	4-25	7-20	None	Arm	None	L	7080-649342	Spinal fluid,163 cells.
Tex-54	Wichita	RKL	10	M	4-19	8-18	None	LA	None	L	7080-649342	
Tex-55	Gray	PC	8	M	5-?	8-30	None	?	None	L	7078-649343	Spinal fluid,27 cells.
					8-2			?		L	8119-649331	
Tex-56	Tarrant	GMW	7	M	5-5	9-1	None	LA	None	L	7078-649343	Spinal fluid,195 cells.
Fla-17	Orange	RH	7	M	4-21	8-11	8-12	LA	RL,LL	L	7079-649338	
					6-15			RA	LA	L	5206-649347	
Fla-18	Dade	KB	7	M	4-22	8-2	None	LA	None	L	5079-649338	Spinal fluid,172 cells.
					6-17			LA		L	5206-649347	
Ala-4	Limestone	DP	6	M	4-22	5-21	None	?	None	L	5079-649338	CSF?
Ala-5	Harrison	GRD	7	M	4-19	6-8	None	?	None	L	5080-649339	CSF?
Ala-6	Shelby	JL	8	M	4-21	7-15	None	?	None	L	5079-649338	
Ala-7	Talladega	JDS	1	F	4-18	7-10	None	?	None	L	5079-649338	CSF?
Ala-8	Montgomery	TB	10	M	4-20	8-3	None	?	None	L	5079-649338	CSF?
					6-14			?		L	5207-649337	
NY-62	Cayuga	WHS	7	M	5-24	7-16	?	?	Trunk	PD	029129A	
					6-21			?		PD	029129A	
NY-63	Suffolk	JR	7	M	5-25	8-19	None	LA	None	PD	029128C	Also vaccinated in 1954
					8-3			LA		L	6002-653-805	field trials.
NY-64	Suffolk	CH	7	F	8-12	9-2	None	?	None	L	6002-653-805	Also vaccinated in 1954
											?029128	field trials.
NY-65	Kings	FL	8	M	May	8-24	None	LA	None	PD	?028861	Spinal fluid, 70 cells.
											?028859	
											?029129	

PSU CASE NO.	County	Initials	Age	Sex	Date Inoc.	Date 1st Symp.	Date 1st Para.	Site Inoc.
							New (Continued)	
NY-66	Monroe	GL	9	M	8-17	8-25	None	?
NY-67	Monroe	KS	10	F	8-19	8-19	None	?
NY-68	Kings	DPA	9	M	5-23	7-28	None	LA
					6-1			LA
NY-69	Queens	GMcN	7	M	5-26	8-30	8-31	LA
Ga-7	Fulton	JMV	7	F	4-20	8-2	None	LA
					7-22			LA
Ga-8	Fulton	BAD	7	F	6-22	7-22	7-22	LA
Cal-94	L. A. Co.	HW	7	F	4-18	8-25	None	LA
					5-23			LA
DC-1	Washington	BL	8	M	5-2	8-23	None	Arm
DC-2	Washington	LB	9	M	4-26	5-30	5-30	LA
DC-3	Washington	EBL	6	M	4-26	7-14	None	Arm
Ky-11	Lyon	HWM	7	M	4-26	8-1	None	Arm
Del-3	New Castle	TC	10	M	4-26	8-26	9-1	LA
Tenn-12	Shelby	ERR	7	M	4-28	8-12	None	Arm
Tenn-13	Shelby	DE	6	M	4-28	8-5	None	Arm
Tenn-14	Madison	EO	6	M	4-21	8-11	None	LA
Tenn-15	Tipton	RAI	6	M	4-20	8-26	None	Arm
Tenn-16	Shelby	RTR	7	M	4-26	7-26	None	Arm
Tenn-17	Franklin	CJC	7	F	4-22	8-14	None	LA
Tenn-18	Tipton	RRJ	8	M	4-21	9-5	None	LA
					8-17			LA
Conn-12	Tolland	MMcL	7	F	5-22	8-11	None	LA
Conn-13	Hartford	FEA	9	M	May 8-3	8-15	8-18	LA LA

Site 1st Para.	Mfr.	Lot No.	Remarks
None	L	6002-653-805	Also vaccinated in 1954 field trials.
None	L	6002-653-805	Also vaccinated in 1954 field trials.
None	PD	029129A	
	PD	029129A	
LA	PD	029128C	
None	L	7079-649341 5080-649340	Spinal fluid,675 cells.
	L	5079-649341 5206-649347	
LL, Trunk	L	7079-649341 5206-649347	
None	C	E6038	
	PD	029126A	
None	W	23611	Spinal fluid,441 cells.
Legs	W	23610	
None	W	23610	
None	PM	?175027 ?175028	
Bulbar	W	236	
None	L	7079-649341	Spinal fluid,444 cells.
None	L	7079-649341	Spinal fluid,920 cells.
None	L	7079-649341	Spinal fluid,133 cells.
None	L	7079-649341	
None	L	7079-649341	Spinal fluid, 69 cells.
None	L	7079-649341	Spinal fluid, 24 cells.
None	L	7079-649341	
	L	6003-653-805	
None	PD	029126A	Spinal fluid,300 cells.
Bulbar	PD	029126A	Also vaccinated in
	L	6004-653-807	1954 field trials.

PSU CASE NO.	County	Initials	Age	Sex	Date Inoc.	Date 1st Symp.	Date 1st Para.	Site Inoc.	Site 1st Para.	Mfr.	Lot No.	Remarks
						New (Continued)						
Conn-14	Hartford	FG	8	M	5-23	8-5	8-7	LA	Bulbar	PD	029126A	
					8-2			LA		L	6004-653-807	
Ark-8	Clay	GMcK	8	M	4-25	8-13	None	?	None	L	7080-649342	
Ark-9	Pulaski	BL	7	M	4-21	8-11	8-12	?	Bulbar	L	7080-649342	
Ariz-7	Pinal	MG	7	F	4-25	9-2	None	RA	None	C	?	Spinal fluid,148 cells.
Ariz-8	Pinal	NF	6	F	May	8-26	None	Arm	None	PD	028848A	
Minn-11	Ramsey	BD	8	F	5-24	8-30	None	?	None	PD	028849A	Spinal fluid,13 cells.
Minn-12	Ramsey	DR	7	M	5-25	9-4	None	?	None	PD	028849A	
Minn-13	Ramsey	RD	8	M	5-24	9-1	None	?	None	PD	028849A	Spinal fluid,38 cells.
Wisc-24	Langlade	TFG	7	M	5-15	8-31	9-5	LA	?	PD	029127A	
					6-15			LA		PD	029127A	
Wisc-25	Jefferson	AJJ	6	F	5-24	9-2	None	LA	None	PD	029127A	
					6-14			LA		PD	029127A	
Va-25	Norfolk	RMR	?	M	5-4	8-19	None	LA	None	L	8123-649335	Spinal fluid,550 cells.
						REVISIONS						
						(Revised Items Underlined)						
Ala-1	Bibb	COO	8	F	4-21	5-24	None	Arm	None	L	5079-649338	
Ala-2	Montgomery	KW	7	F	4-20	5-7	5-7	?	LL	L	5079-649338	
					6-23			?		L	5207-649338	
Ala-3	DeKalb	RR	7	M	4-19	8-23	None	?	None	L	5079-649338	
Cal-48	L. A. City	CM	6	M	5-17	7-16	7-25	RA	LL	PD	028848A	
					5-31			LA		PD	028848A	
Cal-54	Fresno	SA	8	F	5-26	7-1	None	LA	None	PD	028847A	Spinal fluid,860 cells.
					6-21			LA		PD	028847A	
Cal-65	L. A. City	MN	7	M	5-17	6-22	None	RA	None	PD	028848A	
					5-31			LA		PD	028848A	
Cal-66	L. A. City	TAF	6	M	5-18	7-20	None	LA	None	PD	028848A	Spinal fluid,376 cells.
Cal-70	----------DROPPED--SAME AS CAL-32, DUPLICATION----------											
Cal-90	L. A. City	CM	6	M	5-20	7-31	None	LA	None	PD	028848A	
Cal-93	L. A. City	BF	6	M	5-18	8-24	9-2	LA	RL,LA	PD	028848A	
Fla-9	Marion	JJ	9	F	4-22	6-16	None	?	None	L	5079-649338	

PSU CASE NO.	County	Initials	Age	Sex	Date Inoc.	Date 1st Symp.	Date 1st Para.	Site Inoc.
						Revisions (Continued)		
Va-22	Fairfax	LAB	11	M	4-25 8-13	8-25	None	LA LA
Va-23	Fairfax	RKM	7	M	4-25	8-18	None	LA
Miss-13	Leflore	JL	7	F	4-29	8-9	None	LA
Miss-14	Monroe	DD	7	F	4-19 5-17	8-8	None	? ?
Wisc-22	Outagamie	JP	9	F	5-21	8-31	None	LA

Site 1st Para.	Mfr.	Lot No.	Remarks
None	L	8122-649334	Spinal fluid,111 cells.
	L	9184-653-802	
None	L	8122-649334	Spinal fluid,88 cells.
None	L	5080-649339	Spinal fluid,61 cells.
None	L	5080-649339	Spinal fluid,115 cells.
	L	5080-649339	
None	PD	029127A	