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POLIOMYELITIS SURVEILLANCE
REPORT NO. 44 SEPTEMBER 30, 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.

Table of Contents

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 considerably this week and continues below that for the three preceding years.

Poliomyelitis incidence by states for the weeks ending August 20 through September 24 is presented in Table 1, together with a six-week total for this and the three previous years. The drop in national incidence is due to a large decrease in cases reported from Massachusetts and small decreases through most of the rest of the country.

II Age Distribution Analysis

A total of 7093 cases (3092 paralytic, 3636 non-paralytic, and 365 unspecified) is included in the tabulations of the 1955 data presented this week. Data from three states, Indiana, Utah and Washington, have been added since the last report. Table 2 and Figure 2 show the age distribution of these cases by paralytic status for single years of age under 15 together with comparable data from 13 states in 1952. Tables 3 to 6 and Figures 3 and 4 show these distributions for each of four regions of the United States. Table 7 presents the totals used to compile Tables 3 to 6 by states and regions for 1955 and 1952.

It must be re-emphasized that these tabulations show the percent distribution of cases under 15 years of age and not age-specific rates. Thus, in each of the graphs in Figures 2, 3 and 4, the total area under each curve is 100%, so that if the 1955 curve is below the 1952 curve for some ages it must necessarily be above the 1952 curve at other ages. Therefore, any possible effect of the vaccination program on the 1955 age distribution is reflected not only by a dip in the 1955 curve for the vaccinated age groups but also by an excess in the other age groups. Age-specific rates will be presented as soon as population data for individual years of age by states for 1952 and 1955 become available.

Dr. Roy Feemster of the Massachusetts State Department of Health has compiled an age distribution of polio cases from preliminary data reported in Massachusetts through September 23. These data are presented in Table 8. Of the 3021 cases included in the tabulation, 463 (15.3%) are bulbar, 1123 (37.2%) have other paralytic involvement, 1133 (37.5%) are non-paralytic, and 302 (10.0%) are as yet of unspecified paralytic status.

III Special Studies

In PSU Report No. 41 (September 9), a quotation was made from a California State Department of Health Polio Surveillance Release comparing rates between vaccinated and non-vaccinated children in the 5-9 year age group. In their Release # 13 for the week ending September 17, a similar comparison is made:

> "In Polio Surveillance Release #10 (week ending August 27th) estimates were given of the number of children, ages 5-9, who had received at least one injection of poliomyelitis vaccine prior to June 15. With the recent release of commercial vaccine in California

it is probable that the number of vaccinated children in this age group is now increasing. To date, however, no case has been reported in which the first inoculation was given later than June 6. Therefore, based on these previous estimates of 1st inoculations of children in the 5-9 age group, the attack rates per 100,000 for the period June 15 to September 17th are as follows:

Vaccination Status	Estimated Pop. 5-9	Cases			Rate per 100,000		
		P	NP	Total	P	NP	Total
Vaccinated	412,000	11	37	48	3	9	12
Non-Vaccinated	888,000	72	68	140	8	8	16

Approximately 155,000 children in the vaccinated group had also received 2nd inoculations by June 15. To date, there have been 2 paralytic cases in this group with onset 14 days or more after the 2nd inoculation. Thus for this small group, the paralytic attack rate has been 1.3 per 100,000 for the period June 15 to September 17.

As shown in the above table, there have been 48 cases of poliomyelitis among children 5-9 since June 15 of which 11, or 23% were paralytic. In non-vaccinated children in this age group there have been 140 cases of which 51% were paralytic."

Each week, the California Polio Release includes a graph showing the percent of total paralytic cases that are ages 5-9 by week of report since mid-April for 1955 data, comparing it to similar data for the disease year 1954-55 and for total data for the disease years 1948-49 to 1952-53. In their Release #13 they point out:

"Although there has been a downward trend in the proportion of paralytic cases in the 5-9 age group since May this year, there has been no consistent reduction in the proportion of such cases as compared with previous years."

Mr. James O. Bond, Epidemiologist in the Florida State Board of Health, submitted the following report in a letter to this office dated September 27:

"We have made some rough computations of polio attack rates for vaccinated and unvaccinated children in Florida in 1955 to date. They are as follows:

		Cases polio reported Jan. 1 to Sept. 23, 1955		
Children ages 6 thru 9	Pop.	Par.	Non.Par.	Total
vaccinated with one or more injections 1954 Field Trial and 1955 NFIP Program	149,664	2	23	25

		Cases polio reported Jan. 1 to Sept. 23,1955		
Children ages 6-thru 9	Pop.	Par.	Non.Par.	Total
unvaccinated	154,807	6	20	44*
Totals	304,471	8	43	69

* Includes 18 unspecified

Case rates/100,000 for age group 6-9	Par.	Non.Par.	Total
Vaccinated	1.3	15.3	16.7
Unvaccinated	3.9	12.9	28.4
Total	2.6	14.1	22.6

The population figures are estimates derived from school enrollment figures and records of NFIP vaccinations. Polio diagnosis are those made by private physicians and are unconfirmed by laboratory data or muscle evaluation studies. It is possible that a few cases occurred in vaccinated children that were not reported, but these are probably compensated for by over-reporting due to increased interest in all symptoms exhibited by vaccinated children."

IV Routine Polio Surveillance

The tabular summary lists in detail the polio cases among vaccinated children accepted September 22 through September 28 with revisions of previously listed cases. Of the 96 new cases this week, 44 represent a backlog of cases from Illinois all but one of which were non-paralytic cases, and 17 cases from Connecticut, all of which were non-paralytic. Table 9 tabulates these cases and total cases to date.

The usual comparisons of "reported" and "expected" cases among vaccinated children are omitted this week, but will be included again in future weeks from time to time.

V Polio-Like Diseases

Encephalitis outbreaks have been reported from several areas in the lower Ohio River Valley. Dr. Andrew C. Offutt, Indiana State Health Officer reports more than 25 clinical cases and 10 deaths in southwestern Indiana including 3 cases hospitalized in Evansville but resident in Kentucky or Illinois. The CDC Virus Laboratory in Montgomery, Alabama, reports complement fixation titers of 1 to 8 for St. Louis virus in two of ten blood specimens submitted from acutely ill or fatal cases. Dr. Gwilym Jones, State Epidemiologist in Kentucky, reports five cases and one death in Calvert City in Marshall County near Paducah. Suspicious cases are under investigation in Illinois. One case of encephalitis has been reported from Clay County, in northeastern Arkansas.

The cases in Indiana are being investigated by state personnel with virological and serological diagnostic aid from the CDC Laboratory in Montgomery. A team composed of personnel from the Kentucky State Health Department and CDC are studying the situation along the lower Ohio and Tennessee Rivers.

An outbreak of Eastern Equine Encephalitis in a pheasant farm in Southern New Jersey has been confirmed by Dr. Fred R. Beaudette, at Rutgers University. This flock has been under observation all summer by Dr. Preston Holden and Dr. Gordon Solomon, both of the CDC Encephalitis Investigations Unit. No human or horse cases have been reported in this area.

Dr. Daniel J. Hurley, State Health Officer of Nevada reports an outbreak of moderately severe encephalitis in Las Vegas. A total of 11 cases with no deaths have been identified. A larger number of mild or abortive cases probably have occurred. All age groups have been affected. Veterinarians report a few cases of encephalitis among horses but no more than are usually observed each summer. Flash floods have occurred in Las Vegas in June, July and August. Mosquitoes have been unusually prevalent. The outbreak was investigated by Dr. Richard F. White, EIS Officer assigned to California and by Dr. Karl Eklund of the Rocky Mountain Laboratory, Hamilton, Montana.

An outbreak of 6 cases of suspected encephalitis in Casper, Wyoming has been reported by Dr. Franklin Yoder, State Health Officer. Investigation by Dr. C.A. Sooter and Dr. Rowan Boylan of the CDC Encephalitis Unit, Greeley, Colorado, confirmed the clinical diagnosis in several of the cases. Laboratory studies are in progress.

The following are excerpts from the California State Department of Public Health Encephalitis Release No. 9, dated September 20, 1955:

> "Throughout this 1955 season there have been very few cases of clinical illness suspected as being acute encephalitis.....There have not been any additional laboratory confirmed cases of arthropod-borne encephalitis diagnosed in California. Three cases of Western equine infection have occurred with one case in each of the three counties - Fresno, Sutter and Yolo. The onset of the first case was July 23 and the last case August 3. There have not been any cases of St. Louis infections reported to date.

Acute Encephalitis by Etiology for the Period
January - September (1st 2 weeks), 1954 and 1955
(State of California)

Year	Total Cases	Etiology Undetermined	Western Equine	St. Louis	Measles	Mumps	Chicken-Pox	Other*
1954	423	110	14	43	58	170	23	5
1955	263	83	3	0	69	93	10	5

* Other types include encephalitis following vaccination, herpes, German measles, influenza, pneumonia, otitis media.

Mosquito Virus Isolation Tests
(State of California - May to mid-September)

Year	No. Pools Tested	No. Pools Positive WEE	St.L.	No. Pools with Unidentified Virus Isolation	No. Pools Negative	No. Pools in progress
1954	797	149	84	41	523	-
1955	834	51	-	6	523	254

To date this year specimens have been received at our Viral and Rickettsial Disease Laboratory from 9 suspected horses..... None have been positive. 25 cases (in horses) have been reported to the State Department of Agriculture (running from 2 in April to 10 in August)."

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

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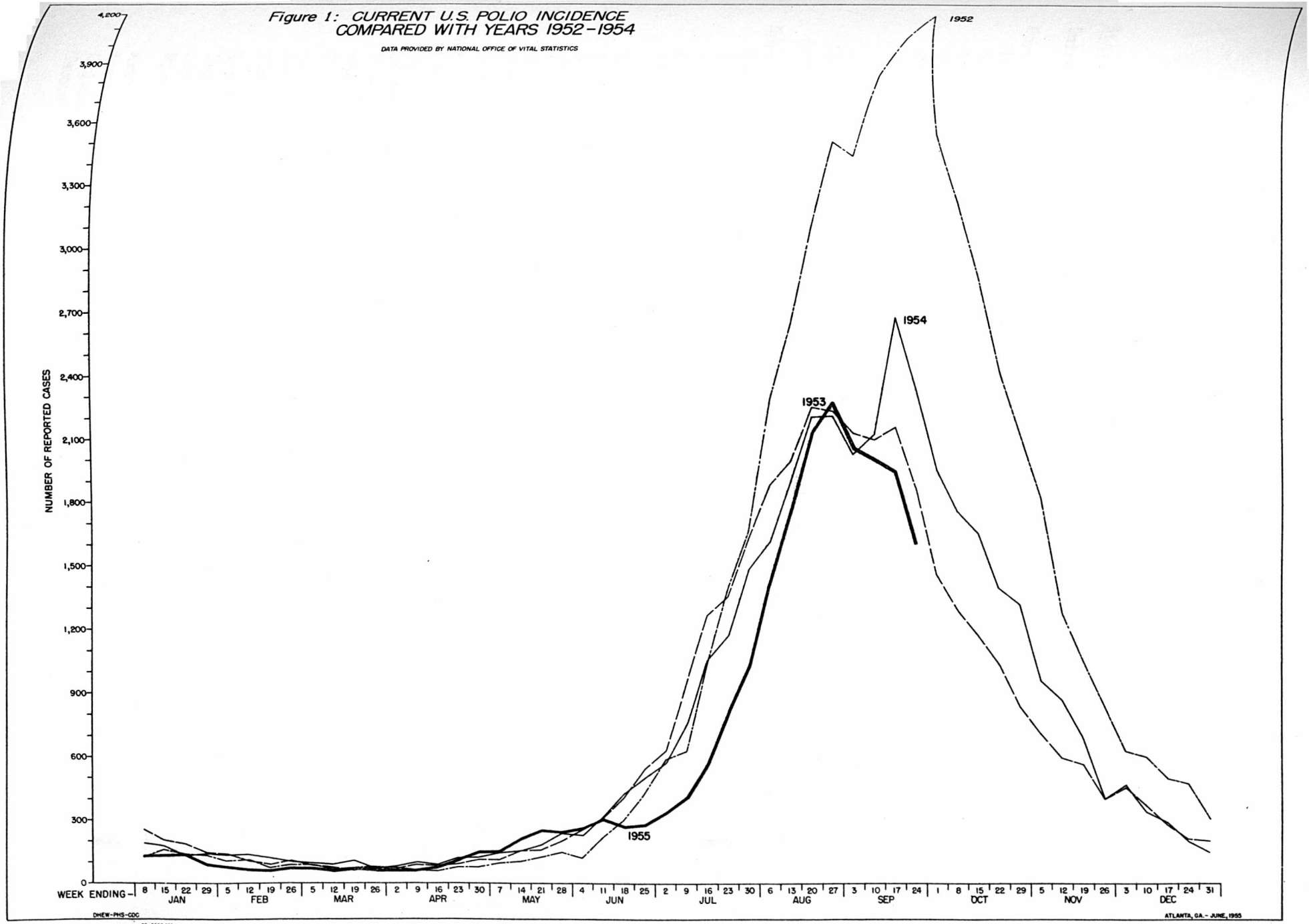
Figure 1: CURRENT U.S. POLIO INCIDENCE COMPARED WITH YEARS 1952-1954

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: 8/20	8/27	9/3	9/10	9/17	9/24	6 Week Total	Comparable Totals In: 1954	1953	1952
United States	2138	2289	2059	2009	1950	1606	12051	13589	12730	22089
North East										
Maine	13	18	12	22	12	11	88	55	160	71
New Hampshire	41	27	18	20	10	10	126	37	32	20
Vermont	20	13	9	13	6	10	71	27	46	12
Massachusetts	448	355	317	290	276	181	1867	477	232	264
Rhode Island	34	36	46	33	21	26	196	60	154	38
Connecticut	55	56	63	75	48	38	335	132	144	215
New York	169	238	272	245	251	208	1383	796	1255	1105
New Jersey	55	59	59	66	45	62	346	297	321	348
Pennsylvania	51	68	52	73	53	47	344	541	537	665
North Central										
Ohio	91	124	87	97	126	91	616	981	1121	1318
Indiana	26	35	33	27	32	21	174	319	285	609
Illinois	147	111	129	112	112	91	702	983	902	1859
Michigan	94	116	123	68	78	72	551	865	979	1639
Wisconsin	160	353	311	224	199	194	1441	254	334	1040
Minnesota	62	60	41	45	38	38	284	309	1083	1782
Iowa	70	44	37	33	26	19	229	610	248	1438
Missouri	13	18	18	15	34	9	107	250	314	503
North Dakota	5	3	4	5	3	4	24	52	89	109
South Dakota	3	11	5	1	1	3	24	47	84	337
Nebraska	23	11	14	19	20	24	111	352	69	1091
Kansas	20	21	19	18	21	20	119	256	197	703
South										
Delaware	4	3	3	3	0	0	13	14	16	45
Maryland	23	25	15	12	15	20	110	95	230	65
Dist. of Col.	2	4	2	4	6	2	20	36	20	81
Virginia	27	25	10	20	16	15	113	228	272	305
West Virginia	9	14	13	20	11	13	80	164	171	268
North Carolina	43	38	27	21	23	19	171	267	210	178
South Carolina	21	21	13	22	10	21	108	82	48	55
Georgia	4	14	15	6	21	29	89	251	114	196
Florida	26	16	3	23	13	8	89	339	167	142
Kentucky	36	36	14	19	33	15	153	340	98	843
Tennessee	20	16	10	20	19	19	104	203	144	230
Alabama	13	10	4	12	4	5	48	96	80	92
Mississippi	10	6	3	3	8	1	31	112	69	203
Arkansas	10	17	6	9	6	4	52	88	98	144
Louisiana	16	11	8	17	15	16	83	121	94	221
Oklahoma	22	15	4	29	17	7	94	157	141	449
Texas	98	80	76	94	60	50	458	828	349	1002

Table 1 (Continued)

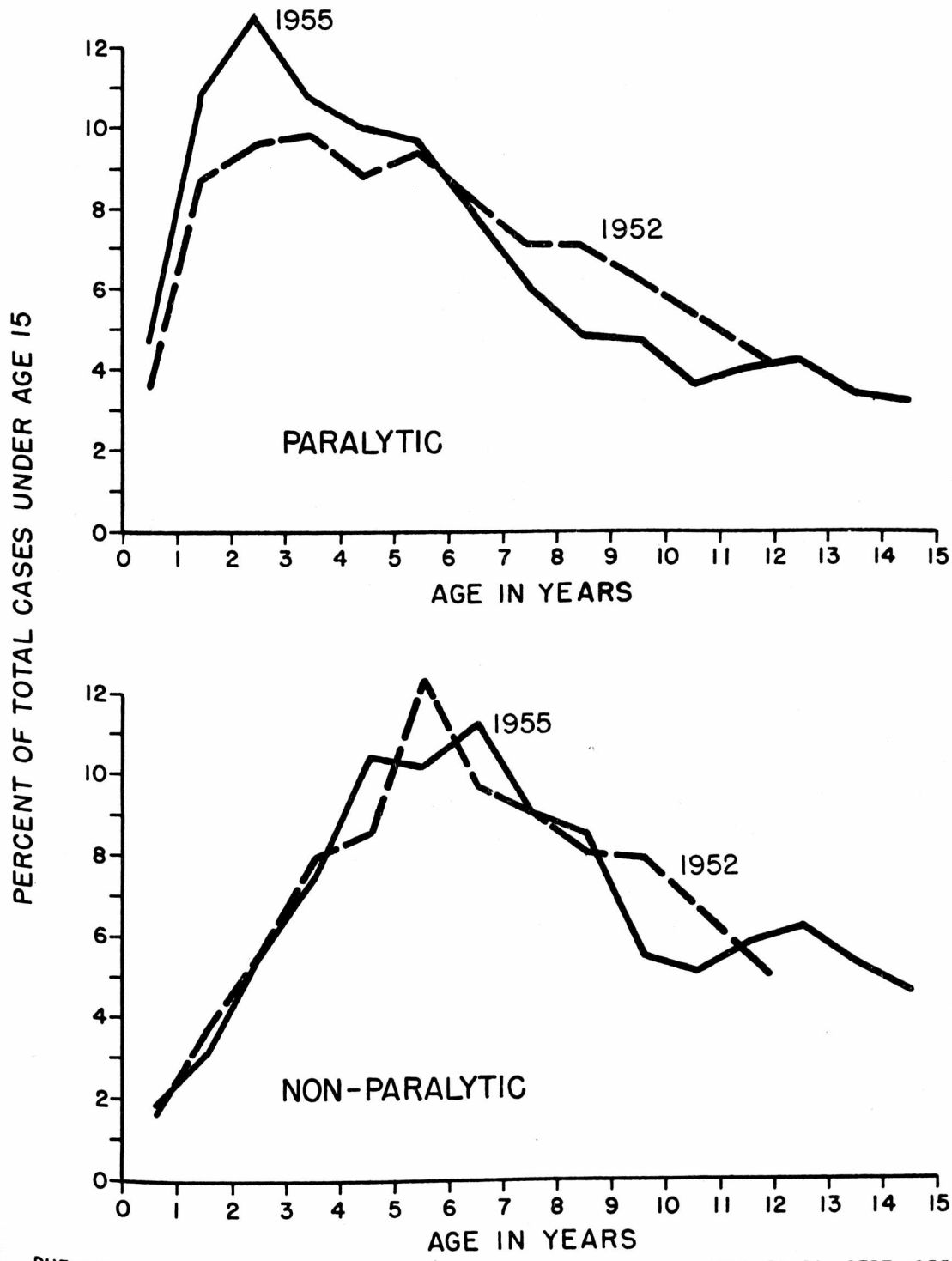
State	Cases Reported to NOVS* During Week Ending: 8/20	8/27	9/3	9/10	9/17	9/24	6 Week Total	Comparable Totals In: 1954	1953	1952
West										
Montana	9	3	12	10	17	18	69	48	108	89
Idaho	6	10	5	5	14	6	46	56	22	130
Wyoming	3	-	1	2	8	0	14	95	20	25
Colorado	18	10	21	12	18	9	88	166	70	246
New Mexico	5	10	6	5	9	4	39	95	32	144
Arizona	10	3	10	8	7	8	46	64	140	93
Utah	-	4	-	7	2	1	14	109	61	68
Nevada	1	1	4	3	3	0	12	40	12	9
Washington	17	16	20	38	48	30	169	118	148	508
Oregon	14	18	22	20	20	18	112	112	109	160
California	71	86	63	64	115	89	488	1565	1101	932

*National Office of Vital Statistics.

Figure 2

AGE DISTRIBUTION OF POLIOMYELITIS 1955 (27 STATES) and 1952 (13 STATES)

(1955 DATA PRELIMINARY - APRIL 12 to SEPT. 30)



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ATLANTA, GA.-SEPT., 1955

Figure 3: AGE DISTRIBUTION OF PARALYTIC POLIOMYELITIS IN 1955 and 1952 BY REGION
(1955 DATA PRELIMINARY – APRIL 12 to SEPTEMBER 9)

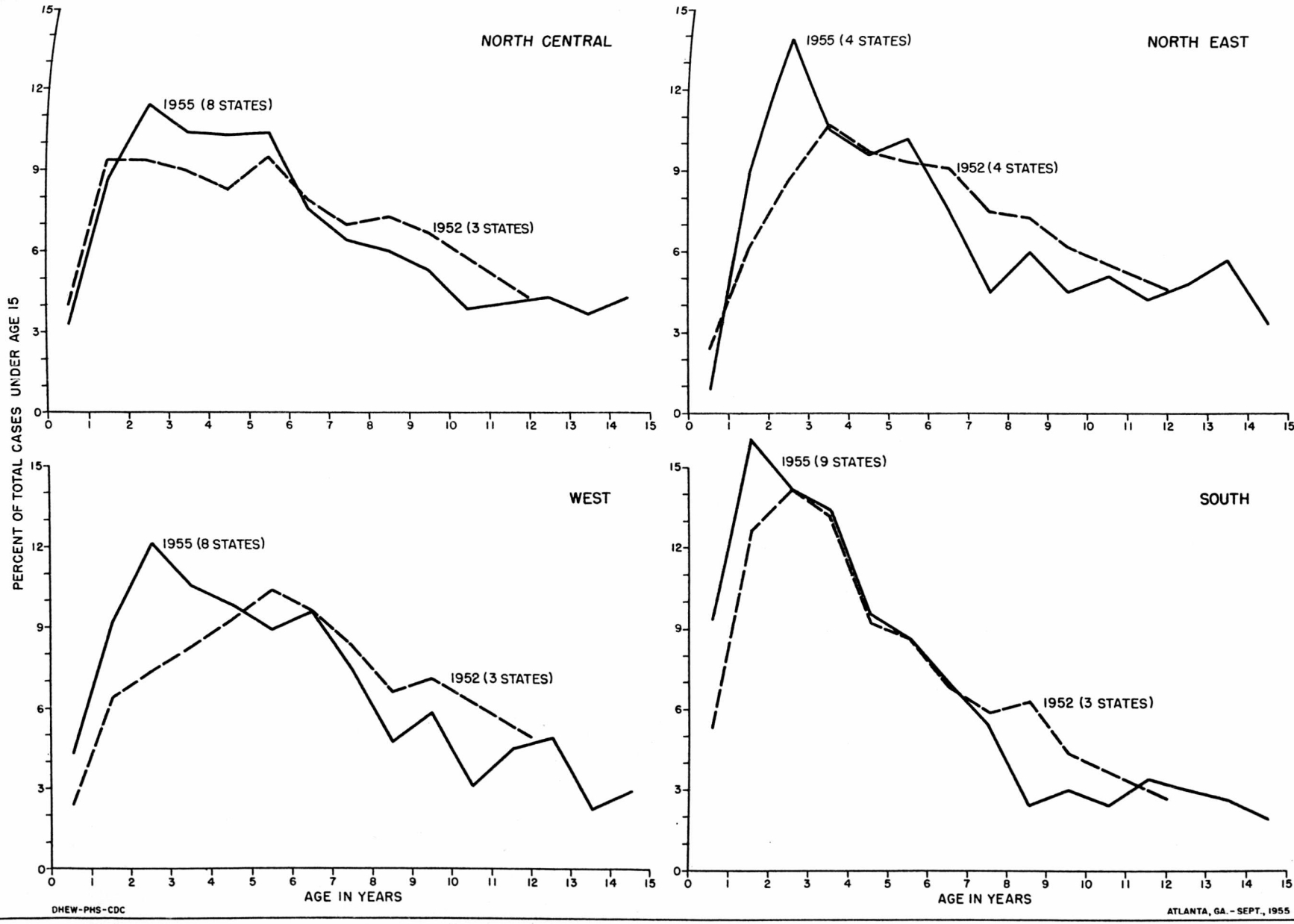

Figure 4: AGE DISTRIBUTION OF NON-PARALYTIC POLIOMYELITIS IN 1955 and 1952 BY REGION
(1955 DATA PRELIMINARY – APRIL 12 to SEPTEMBER 9)

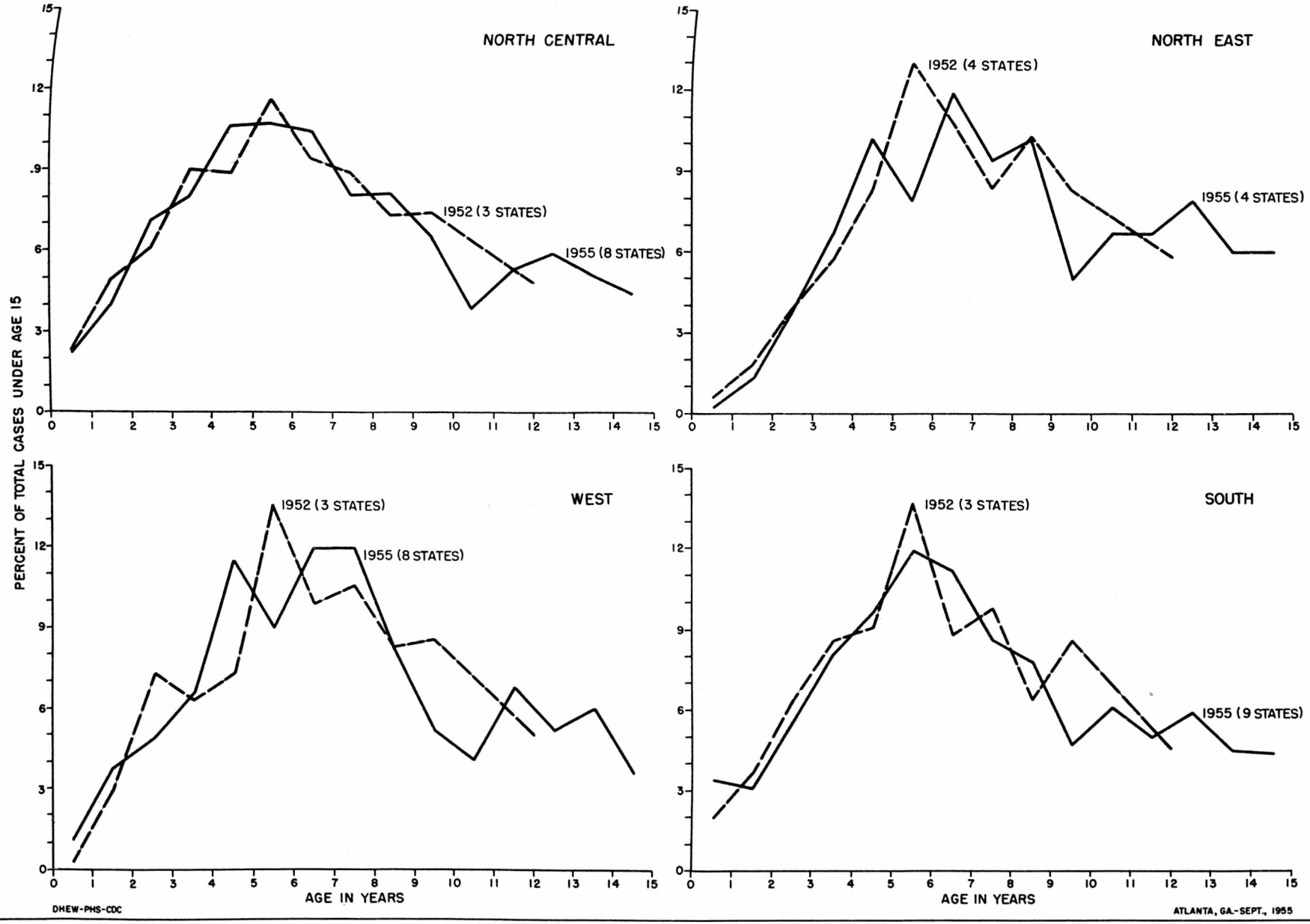

Table 2

AGE DISTRIBUTION ANALYSIS

Poliomyelitis in the United States in 1955 and 1952
Percentage Distribution of Cases under 15 Years of Age by Paralytic Status

Age	1955 (29 States)*				1952 (13 States)**			
	Paralytic		Non-Paralytic		Paralytic		Non-Paralytic	
	No.	%	No.	%	No.	%	No.	%
Under 1	96	4.7	47	1.9	178	3.6	60	1.7
1	221	10.8	77	3.2	429	8.7	136	3.9
2	260	12.7	138	5.7	472	9.6	200	5.7
3	220	10.7	183	7.5	482	9.8	278	8.0
4	203	9.9	253	10.4	434	8.8	301	8.6
0-4	1000	48.7	698	28.7	1995	40.6	975	28.0
5	197	9.6	247	10.2	464	9.4	430	12.3
6	161	7.8	272	11.2	405	8.2	337	9.7
7	124	6.0	220	9.0	350	7.1	314	9.0
8	98	4.8	206	8.5	349	7.1	277	8.0
9	96	4.7	134	5.5	312	6.3	274	7.9
5-9	676	32.9	1079	44.4	1880	38.2	1632	46.9
10	73	3.6	123	5.1				
11	82	4.0	140	5.8				
12	86	4.2	151	6.2				
13	70	3.4	128	5.3				
14	66	3.2	112	4.6				
10-14	377	18.4	654	26.9	1042	21.2	876	25.2
0-14	2053	100%	2431	100%	4917	100%	3483	100%
15 plus	1034		1203		2587		1642	
Unknown	5		2		48		31	
Total	3092		3636		7552		5156	

* Preliminary data reported through September 9 on cases with onsets April 12 or later; for states included, see Table 7.

** Data for calendar year 1952; for states included, see Table 7.

Table 3

AGE DISTRIBUTION ANALYSIS

Poliomyelitis in the North East in 1955 and 1952

Percentage Distribution of Cases under 15 Years of Age by Paralytic Status

	1955 (4 States)*				1952 (4 States)**			
	Paralytic		Non-Paralytic		Paralytic		Non-Paralytic	
Age	No.	%	No.	%	No.	%	No.	%
Under 1	3	0.9	1	0.2	26	2.4	5	0.6
1	30	9.0	7	1.3	66	6.2	14	1.8
2	46	13.9	20	3.8	93	8.7	31	3.9
3	35	10.5	35	6.7	114	10.7	45	5.7
4	32	9.6	53	10.2	104	9.7	65	8.3
0-4	146	44.0	116	22.3	403	37.7	160	20.4
5	34	10.2	41	7.9	99	9.3	102	13.0
6	25	7.5	62	11.9	97	9.1	85	10.8
7	15	4.5	49	9.4	80	7.5	66	8.4
8	20	6.0	53	10.2	78	7.3	81	10.3
9	15	4.5	26	5.0	66	6.2	65	8.3
5-9	109	32.8	231	44.4	420	39.3	399	50.8
10	17	5.1	35	6.7				
11	14	4.2	35	6.7				
12	16	4.8	41	7.9				
13	19	5.7	31	6.0				
14	11	3.3	31	6.0				
10-14	77	23.2	173	33.3	246	23.0	227	28.9
0-14	332	100%	520	100%	1069	100%	786	100%
15 plus	185		243		637		387	
Unknown	2		0		0		0	
Total	519		763		1706		1173	

* Preliminary data reported through September 9 on cases with onsets April 12 or later; for states included, see Table 7.

** Data for calendar year 1952; for states included, see Table 7.

Table 4

AGE DISTRIBUTION ANALYSIS

Poliomyelitis in the North Central in 1955 and 1952

Percentage Distribution of Cases under 15 Years of Age by Paralytic Status

Age	1955 (8 States)*				1952 (3 States)**			
	Paralytic		Non-Paralytic		Paralytic		Non-Paralytic	
	No.	%	No.	%	No.	%	No.	%
Under 1	24	3.3	20	2.2	105	4.0	46	2.3
1	64	8.7	36	4.0	245	9.4	98	4.9
2	84	11.4	64	7.1	246	9.4	121	6.1
3	77	10.4	72	8.0	235	9.0	179	9.0
4	76	10.3	96	10.6	215	8.3	177	8.9
0-4	325	44.0	288	31.9	1046	40.2	621	31.2
5	77	10.4	97	10.7	247	9.5	231	11.6
6	56	7.6	94	10.4	206	7.9	186	9.4
7	47	6.4	72	8.0	181	7.0	176	8.9
8	44	6.0	73	8.1	191	7.3	145	7.3
9	39	5.3	59	6.5	174	6.7	148	7.4
5-9	263	35.6	395	43.7	999	38.4	886	44.6
10	29	3.9	34	3.8				
11	30	4.1	48	5.3				
12	32	4.3	53	5.9				
13	27	3.7	46	5.1				
14	32	4.3	40	4.4				
10-14	150	20.3	221	24.4	560	21.5	480	24.1
0-14	738	100%	904	100%	2605	100%	1987	100%
15 plus	407		504		1327		961	
Unknown	1		1		27		22	
Total	1146		1409		3959		2970	

* Preliminary data reported through September 9 on cases with onsets April 12 or later; for states included, see Table 7.

** Data for calendar year 1952; for states included, see Table 7.

Table 5

AGE DISTRIBUTION ANALYSIS

Poliomyelitis in the South in 1955 and 1952

Percentage Distribution of Cases under 15 Years of Age by Paralytic Status

	1955 (9 States)*				1952 (3 States)**			
	Paralytic		Non-Paralytic		Paralytic		Non-Paralytic	
Age	No.	%	No.	%	No.	%	No.	%
Under 1	50	9.3	22	3.4	32	5.3	8	2.0
1	86	16.0	20	3.1	77	12.7	15	3.7
2	76	14.2	36	5.6	86	14.2	26	6.4
3	61	11.4	52	8.1	80	13.2	35	8.6
4	51	9.5	62	9.7	56	9.2	37	9.1
0-4	324	60.4	192	30.0	331	54.6	121	29.7
5	46	8.6	76	11.9	52	8.6	56	13.7
6	37	6.9	72	11.2	41	6.8	36	8.8
7	29	5.4	55	8.6	36	5.9	40	9.8
8	13	2.4	50	7.8	38	6.3	26	6.4
9	16	3.0	30	4.7	27	4.4	35	8.6
5-9	141	26.3	283	44.1	194	32.0	193	47.3
10	13	2.4	39	6.1				
11	18	3.4	32	5.0				
12	16	3.0	38	5.9				
13	14	2.6	29	4.5				
14	10	1.9	28	4.4				
10-14	71	13.2	166	25.9	81	13.4	94	23.0
0-14	536	100%	641	100%	606	100%	408	100%
15 plus	181		210		155		120	
Unknown	2		1		2		0	
Total	719		852		763		528	

* Preliminary data reported through September 9 on cases with onsets April 12 or later; for states included, see Table 7.

** Data for calendar year 1952; for states included, see Table 7.

Table 6

AGE DISTRIBUTION ANALYSIS

Poliomyelitis in the West in 1955 and 1952

Percentage Distribution of Cases under 15 Years of Age by Paralytic Status

Age	1955 (8 States)*				1952 (3 States)**			
	Paralytic		Non-Paralytic		Paralytic		Non-Paralytic	
	No.	%	No.	%	No.	%	No.	%
Under 1	19	4.3	4	1.1	15	2.4	1	0.3
1	41	9.2	14	3.8	41	6.4	9	3.0
2	54	12.1	18	4.9	47	7.4	22	7.3
3	47	10.5	24	6.6	53	8.3	19	6.3
4	44	9.8	42	11.5	59	9.3	22	7.3
0-4	205	45.9	102	27.9	215	33.8	73	24.2
5	40	8.9	33	9.0	66	10.4	41	13.6
6	43	9.6	44	12.0	61	9.6	30	9.9
7	33	7.4	44	12.0	53	8.3	32	10.6
8	21	4.7	30	8.2	42	6.6	25	8.3
9	26	5.8	19	5.2	45	7.1	26	8.6
5-9	163	36.5	170	46.4	267	41.9	154	51.0
10	14	3.1	15	4.1				
11	20	4.5	25	6.8				
12	22	4.9	19	5.2				
13	10	2.2	22	6.0				
14	13	2.9	13	3.6				
10-14	79	17.7	94	25.7	155	24.3	75	24.8
0-14	447	100%	366	100%	637	100%	302	100%
15 plus	261		246		468		174	
Unknown	0		0		19		9	
Total	708		612		1124		485	

* Preliminary data reported through September 9 on cases with onsets April 12 or later; for states included, see Table 7.

** Data for calendar year 1952; for states included, see Table 7.

Table 7

AGE DISTRIBUTION ANALYSIS

Poliomyelitis Case Data Included in Age Distribution Analysis Tabulations by State and Paralytic Status

State	1955 Cases* P	NP	Unspec.	Total	1952 Cases** P	NP	Unspec.	Total
NORTH EAST								
Maine	31	33	0	64	126	34	0	160
New Hampshire	63	98	9	170	52	29	17	98
Connecticut	75	181	1	257	176	195	23	394
New York	350	451	166	967	1352	915	242	2509
Total	519	763	176	1458	1706	1173	282	3161
NORTH CENTRAL								
Ohio	119	118	5	242				
Indiana	78	112	29	219				
Illinois	278	389	127	794	1844	946	8	2798
Wisconsin	420	392		812				
Minnesota	101	246	2	349	2041	1799	0	3840
Missouri	64	54	0	118				
North Dakota	10	16	0	26	74	225	0	299
Nebraska	76	82	0	158				
Total	1146	1409	163	2718	3959	2970	8	6937
SOUTH								
Dist. of Col.	14	17	0	31	38	97	0	135
Virginia	77	140	1	218	374	266	50	690
West Virginia	43	44	1	88				
South Carolina	58	61	0	119				
Tennessee	48	46	0	94				
Alabama	53	58	1	112				
Mississippi	49	65	0	114	351	165	196	712
Arkansas	62	61	0	123				
Texas	315	360	2	677				
Total	719	852	5	1576	763	528	246	1537
WEST								
Wyoming	5	11	0	16	67	56	31	154
Colorado	58	64	12	134				
New Mexico	39	28	0	67				
Arizona	26	37	0	63				
Utah	3	4	9	16				
Washington	52	18	0	70	712	294	314	1320
Oregon	106	44	0	150	345	135	16	496
California	419	406	0	825				
Total	708	612	21	1341	1124	485	361	1970
TOTAL ALL REGIONS	3092	3636	365	7093	7552	5156	897	13605

*Preliminary data reported through September 9 on cases with onsets April 12 and later.

**Data for calendar year 1952.

Table 8

Age Distribution of Poliomyelitis by Paralytic Status in Massachusetts in 1955*

Age	Paralytic**		Non-Paralytic		Total***	
	No.	%	No.	%	No.	%
Under 1	63	5.6	15	1.9	83	4.0
1	103	9.1	29	3.7	137	6.6
2	149	13.2	49	6.3	207	10.0
3	129	11.4	84	10.8	238	11.5
4	125	11.1	87	11.2	233	11.3
0-4	569	50.5	264	33.9	898	43.4
5	130	11.5	119	15.3	267	12.9
6	86	7.6	98	12.6	199	9.6
7	53	4.7	48	6.2	115	5.6
8	54	4.8	55	7.1	117	5.7
9	53	4.7	45	5.8	106	5.1
5-9	376	33.4	365	46.9	804	38.8
10	50	4.4	37	4.8	92	4.4
11	41	3.6	37	4.8	85	4.1
12	39	3.5	31	4.0	83	4.0
13	28	2.5	23	3.0	57	2.8
14	24	2.1	21	2.7	52	2.5
10-14	182	16.1	149	19.1	369	17.8
0-14	1127	100%	778	100%	2071	100%
15 plus	459		353		947	
Unknown			2		3	
Total	1586		1133		3021	

*Preliminary data from The Massachusetts State Department of Health through September 23, 1955.

**Including 463 bulbar cases.

***Including 302 cases with paralytic status as yet unspecified.

Table 9

Poliomyelitis Cases in Vaccinated Individuals
(PSU Accepted Cases through September 28, 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 9-21 (Revised)	59	14		17	24		4	2		3	2		9	3	
New Cases 9-22 through 9-28	1	0		0	0		0	0		0	0		0	0	
Totals through 9-28	60	14		17	24		4	2		3	2		9	3	
		74			41			6			5			12	
CASES VACCINATED 5-7 OR BEFORE WITH ONSETS 31 DAYS OR MORE AFTER VACCINATION* **															
Totals through 9-21 (Revised)	9	13		20	93		6	21		9	12		8	13	
New Cases 9-22 through 9-28	0	1		3	7		1	43		0	0		0	2	
Totals through 9-28	9	14		23	100		7	64		9	12		8	15	
		23			123			71			21			23	
CASES VACCINATED 5-8 OR LATER WITH ONSETS 30 DAYS OR LESS AFTER VACCINATION* **															
Totals through 9-21	-	-		12	40		19	24		1	3		1	5	
New Cases 9-22 through 9-28				3	3		1	1		0	0		0	0	
Totals through 9-28				15	43		20	25		1	3		1	5	
					58			45			4			6	
CASES VACCINATED 5-8 OR LATER WITH ONSETS 31 DAYS OR MORE AFTER VACCINATION* **															
Totals through 9-21				4	15		49	106					0	1	
New Cases 9-22 through 9-28				0	8		0	22					0	0	
Totals through 9-28				4	23		49	128		0	0		0	1	
					27			177			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.

POLIOMYELITIS AMONG VACCINATED INDIVIDUALS
(PSU Accepted Cases September 22 - September 28, 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						
Tenn-19	Shelby	HAB	7	M	4-25	8-28	None-	LA	None	L	7079-649341	Spinal fluid,100 cells.
Tenn-20	Shelby	DSH	10	M	5-26	9-2	None	LA	None	L	7079-649341	Spinal fluid,38 cells.
Tenn-21	Henry	JP	7	F	4-19	9-9	9-12	Arm	RL	L	7079-649341	
Tex-58	Nueces	LMS	7	F	4-20	9-6	None	Arm	None	L	7078-649343	
					7-19			Arm		L	8118-649330	
Tex-59	Tom Green	JEB	8	M	4-22	8-26	None	LA	None	L	7078-649343	Spinal fluid,1 cell .
Va-28	Eliz.City	KEH	8	M	4-25	9-9	None	?	None	L	?649334 ?649335 ?649343	Spinal fluid,126 cells.
Ill-7	Madison	WE	7	M	4-21	5-25	None	LA	None	PD	028863B	Spinal fluid,13 cells.
Ill-8	Cook	SL	8	M	4-25	7-7	None	LA	None	PD	028846B	
Ill-9	Peoria	PD	6	F	4-21	7-24	None	?	None	PD	?028863B	Spinal fluid,42 cells.
Ill-10	Cook	RE	9	M	5-5	8-15	None	LA	None	PD	?028846B ?028863B	Spinal fluid, 100 cells.
Ill-11	Cook	DK	6	M	4-25	9-8	None	LA	None	PD	028846B	Spinal fluid,16 cells.
Ill-12	Cook	PK	7	M	4-25	9-8	None	LA	None	PD	028846B	Spinal fluid,105 cells.
Ill-13	Champaign	HE	9	M	4-28	9-9	None-	Arm	None	PD	028863B	Spinal fluid,66 cells.
Ill-14	Cook	DO	6	M	May	6-1	None	LA	None	PD	?028846B ?028850B ?028861B ?028863B	Spinal fluid,45 cells.
Ill-15	Winnebago	DK	6	F	4-27	6-17	None	?	None	PD	"	Spinal fluid,28 cells.
Ill-16	Stephenson	DO	7	M	April	6-30	None	?	None	PD	"	No cells in spinal fluid, but accepted as NP polio.
Ill-17	Peoria	RC	8	M	4-21	7-10	None	?	None	PD	"	Spinal fluid,193 cells.

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)						
Ill-18	St. Clair	SH	7	F	4-26	7-17	None	?	None	PD	028846B 028850B 028861B 028863B	
Ill-19	DuPage	JGG	9	M	4-24	7-22	None	?	None	PD	"	Spinal fluid,256 cells.
Ill-20	Cook	LEC	7	M	4-27	7-23	None	?	None	PD	"	Spinal fluid,36 cells.
Ill-21	Cook	JG	7	M	April	7-24	None	?	None	PD	"	Spinal fluid,320 cells.
Ill-22	Peoria	MWC	7	M	4-21	7-24	None	?	None	PD	"	Spinal fluid,90 cells.
Ill-23	DuPage	JR	10	F	4-26	7-26	7-26	?	?	PD	"	
Ill-24	Stephenson	JL	8	F	April	7-30	None	?	None	PD	"	
Ill-25	Cook	RZ	8	M	April	7-31	None	?	None	PD	"	Spinal fluid,35 cells.
Ill-26	Cook	JM	8	F	May	8-1	None	?	None	PD	"	Spinal fluid,30 cells.
Ill-27	McLean	JH	8	M	April or May	8-3	None	?	None	PD	"	Spinal fluid,359 cells.
Ill-28	Stephenson	KW	8	F	April or May	8-5	None	?	None	PD	"	Spinal fluid,49 cells.
Ill-29	DuPage	JAG	7	F	April	8-5	None	?	None	PD	"	Spinal fluid,29 cells.
Ill-30	Cook	JC	8	M	4-20	8-5	None	LA	None	PD	"	Spinal fluid,148 cells.
Ill-31	Peoria	ED	8	M	4-24	8-5	None	?	None	PD	"	Spinal fluid,87 cells.
Ill-32	DuPage	DH	7	M	April or May	8-5	None	?	None	PD	"	Spinal fluid,112 cells.
Ill-33	Adams	MS	8	F	April	8-9	None	?	None	PD	"	Spinal fluid,192 cells.
Ill-34	Madison	NM	7	M	4-30	8-13	None	?	None	PD	"	Spinal fluid,114 cells.
Ill-35	Cook	CTM	8	M	4-29	8-14	None	?	None	PD	"	Spinal fluid,180 cells.
Ill-36	Cook	LB	20	F	April	8-17	None	?	None	C	?	Spinal fluid,161 cells.
Ill-37	Cook	SW	7	F	April or May	8-19	None	?	None	PD	?028846B ?028850B ?028861B ?028863B	Spinal fluid,50 cells.
Ill-38	Cook	CB	7	F	May	8-19	None	?	None	PD	"	Spinal fluid,57 cells.
Ill-39	Cook	LA	6	F	5-4	8-19	None	?	None	PD	"	Spinal fluid,878 cells.

PSU CASE NO.	County	Initials	Age	Sex	Date Inoc.	Date 1st Symp.
Ill-40	Cook	KH	7	F	5-3	8-20
Ill-41	Cook	RC	8	M	5-3	8-23
Ill-42	Cook	CDH	6	M	May	8-23
Ill-43	Cook	KK	7	M	4-28	8-23
Ill-44	Williamson	WT	8	M	4-20	8-29
Ill-45	Cook	FR	8	M	5-3	8-30
Ill-46	Hancock	PW	8	F	May	8-30
Ill-47	McLean	JG	6	M	April	8-30
Ill-48	Rock Island	JAW	8	F	April or May	8-31
Ill-49	St.Clair	MS	7	M	April	9-4
Ill-50	Cook	MB	7	M	April or May	9-5
Cal-102	L. A.City	TM	7	F	5-19	9-11
Cal-103	Sacramento	EG	7	F	June	8-29
NY-77	Dutchess	SG	8	M	5-25 6-20	9-2
NY-78	Chautauqua	EW	7	M	5-18 8-3	8-12
NY-79	Erie	CW	8	F	May	8-18
DC-4	Washington	RDS	7	F	4-29	9-9
Ark-10	Phillips	JWB	8	M	4-20 5-4	8-26
Conn-15	Fairfield	LF	7	M	5-25	8-4
Conn-16	Hartford	DA	10	M	May 8-2	8-11
Conn-17	Fairfield	JV	7	M	5-25	8-6

Date 1st Para.	Site Inoc.	Site 1st Para.	Mfr.	Lot No.	Remarks
NEW (Continued)					
None	?	None	PD	?028846B ?028850B ?028861B ?028863B	Spinal fluid,112 cells.
None	?	None	PD	"	Spinal fluid,60 cells.
None	LA	None	PD	"	
None	?	None	PD	"	Spinal fluid,672 cells.
None	?	None	PD	"	Spinal fluid,758 cells.
None	?	None	PD	"	Spinal fluid,716 cells.
None	?	None	PD	"	Spinal fluid,194 cells.
None	?	None	PD	"	Spinal fluid,33 cells.
None	?	None	PD	"	Spinal fluid,142 cells.
None	?	None	PD	"	Spinal fluid,97 cells.
None	?	None	PD	"	Spinal fluid,38 cells.
None	LA	None	PD	028848A	
None	?	None	PD	?	Vaccinated in New York City.
None	LA	None	PD	029128C	Spinal fluid,80 cells.
	LA		PD	029128C	
8-13	LA	Stiff	PD	029129A	Legs also paralyzed.
	Arm	Neck	L	6002-653-805	
None	?	None	PD	029128C	
None	Arm	None	W	23611	Spinal fluid,265 cells.
None	LA	None	L	7080-649342	Spinal fluid,21 cells.
	LA		L	7080-649342	
None	LA	None	PD	029126A	Spinal fluid,39 cells.
None	?	None	PD	029126A	Spinal fluid,88 cells.
	LA		L	6004-653-807	
None	LA	None	PD	029126A	

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-18	Fairfield	SU	7	F	5-25	8-14	None	LA	None	PD	029126A	Spinal fluid,339 cells.
					8-4			LA		L	6004-653807	
Conn-19	Fairfield	GJ	9	M	6-3	8-16	None	LA	None	PD	029126A	Spinal fluid,152 cells.
Conn-20	Hartford	BAA	8	F	May	8-16	None	?	None	PD	029126A	Spinal fluid,76 cells.
					8-10			?		PD	029126A	
Conn-21	Hartford	RH	8	M	May	8-18	None	?	None	PD	029126A	Spinal fluid,760 cells.
Conn-22	Hartford	CAS	6	F	May	8-18	None	?	None	PD	029126A	Spinal fluid,310 cells.
					8-5			LA		L?	6004-653807	
Conn-23	Hartford	JAI	7	F	May	8-20	None	?	None	PD	029126A	Spinal fluid,166 cells.
Conn-24	Fairfield	RT	7	M	5-17	8-20	None	LA	None	PD	029126A	
Conn-25	Hartford	SG	7	M	May	8-29	None	?	None	PD	029126A	Spinal fluid,390 cells.
					7-29			?		L	6004-653807	
Conn-26	Fairfield	JR	7	M	May	9-2	None	LA	None	PD	029126A	Spinal fluid,47 cells.
Conn-27	Tolland	WL	7	M	May	9-2	None	?	None	PD	029126A	Spinal fluid,160 cells.
Conn-28	Hartford	SGH	9	M	May	9-4	None	?	None	PD	029126A	Also vaccinated in 1954. Spinal fluid,90 cells.
Conn-29	Fairfield	WH	12	M	May	9-7	None	LA	None	PD	029126A	
Conn-30	Hartford	MM	8	F	May	9-10	None	?	None	PD	029126A	Spinal fluid,122 cells.
Conn-31	Fairfield	WA	7	M	5-25	6-26	None	LA	None	PD	029126A	Spinal fluid,321 cells.
Va-27	Brunswick	JMT	8	M	4-28	9-9	9-11	Arm	LL	L	8122-649334	
Ida-22	Cassia	EW	8	M	4-20	4-28	?	LA	?	C	E6039 or E6058	
Minn-14	Hennepin	PM	8	M	5-27	9-9	None	?	None	PD	?028849A 028850B 028861B 029126A	Spinal fluid,545 cells.
Minn-15	Steele	DO	9	M	May	9-16	None	?	None	PD	"	Spinal fluid,158 cells.
Minn-16	Scott	GT	8	F	May	9-11	None	?	None	PD	"	Spinal fluid,126 cells.
Pa-14	Delaware	CR	7	M	April	8-21	None	Arm	None	W	?235 ?236	
NH-8	Grafton	WL	7	M	5-20 6-7	9-18	None	LA LA	None	PD PD	029126A 029126A	Spinal fluid,45 cells.

PSU CASE NO.	County	Initials	Age	Sex	Date Inoc.	Date 1st Symp. NEW
Tex-60	Kent	CEM	9	M	5-1 8-10	9-4
Colo-8	Arapahoe	KB	8	M	4-27	9-5
Mo-6	St.Louis Co.	BH	5	M	June	9-2
NY-80	Ulster	PM	7	M	5-19 6-21	9-7
NY-81	Oneida	RO	7	M	5-24	5-25
NY-82	Dutchess	DKC	8	M	May June	8-7
Ga-9	Floyd	EP	8	M	4-19 6-30	7-1
Ga-10	Clarke	RD	7	M	4-19	7-23
Ga-11	Floyd	AA	7	M	4-20 6-30	8-10
Ga-12	Fulton	GM	7	M	6-30	8-17
Ga-13	DeKalb	CG	9	M	4-19 6-30	8-28
Ga-14	Spalding	SJ	7	M	4-20	8-25
Ga-15	Troup	GC	8	F	4-20 6-29	8-10
Ala-9	Tuscaloosa	BS	7	F	4-21	8-24
PR-1	San Juan Puerto Rico	JEF	7	M	4-27	9-8

Date 1st Para.	Site Inoc.	Site 1st Para.	Mfr.	Lot No.	Remarks
(Continued)					
?	?	?	L	?649336,649342,649343	
	?		L	?649330,649331,649351 or ?653802.	
9-10	?	Bulbar	L	?649334,649335 ?649343	Vaccinated in West Virginia.
None	LA	None	L	?	Spinal fluid,30 cells.
None	?	None	PD	029128C	Spinal fluid,185 cells.
	?		PD	029128C	
9-1	LA	LL	PD	029129A	Paralysis first noted 9-1.
None	LA	None	PD	?	Spinal fluid,50 cells.
	LA		PD	?	
7-7	LA	RL	L	5081-649340	
	LA		L	5206-649347	
None	LA	None	L	7079-649341	Spinal fluid,65 cells.
None	LA	None	L	5081-649340	
	LA		L	5206-649347	
None	LA	None	L	?5079-649341 ?5206-649347	Spinal fluid, 31 cells.
None	LA	None	L	5081-649340	Spinal fluid,
	LA		L	5206-649347	31 cells.
None	LA	None	L	5081-649340	Spinal fluid, 954 cells.
None	LA	None	L	5081-649340	
	LA		L	5206-649347	
None	?	None	L	5079-649338	
None	RA	None	PD	028850B or 028861B	

PSU CASE NO.	County	Initials	Age	Sex	Date Inoc.	Date 1st Symp.	Date 1st Para.	Site Inoc.	Site 1st Para.	Mfr.	Lot No.	Remarks
					REVISIONS (Revised Items Underlined)							
Va-26	Alex.City	MSA	8	M	8-10	9-8	9-8	LA	RA	L	9184-653802	Also vaccinated in 1954 field trials.
Wisc-26	Milwaukee	ADS	3	M	4-20	9-11	None	RL	None	PM	?	
Ill-2	Winnebago	JEL	7	F	4-27	5-11	?	LA	LA	PD	?028846B	Dropped as not polio in May. Re-accepted.
Ill-5	Perio	DP	7	M	4-21	5-27	None	?	None	PD	028863B	Spinal fluid,107 cells.
Miss-6	Panola	JP	8	M	4-20	7-5	None	LA	None	L	5080-649339	Untypable agent recovered from siblings
					5-18			LA		L	"	Potash (8-17) Spinal fluid,130 cells.
Cal-86	L. A.City	JAK	7	M	5-19	8-16	None	RA	None	PD	028848A	Spinal fluid,110 cells.
Cal-95	San Diego	RW	8	M	4-19	8-22	None	LA	None	L	649334	Spinal fluid,239 cells Vaccinated in Oklahoma.
NY-29	Orange	HF	7	M	5-?	8-6	None	LA	None	PD	029128C	Spinal fluid,1430 cells.
NY-47	Schoharie	EK	7	M	5-17	8-20	None	LA	None	PD	029128C	Spinal fluid,100 cells.
					8-17			LA		L	9184-653-802	
Ida-3	Clearwater	DC	8	F	4-21	4-26	4-27	RA	RA	C	?E6039 E6058	
Ida-4	Nez Perce	BGP	7	F	4-19	4-24	4-27	LA	LA	C	? "	Type 1,Dr. Larson 5-17.
Ida-6	Latah	CS	7	F	4-20	4-28	4-29	LA	Bulbar	C	?E6039 E6058	
Ida-7	Oneida	SV	7	M	4-19	4-27 or 4-26	4-27 or 4-29	RA	RA	C	? "	Type 1,Dr. Larson 5-17.
Ida-9	Shoshone	SB	5	F	4-21	4-27	5-1	LA	LA	C	? "	
Ida-12	Jerone	UC	7	M	4-19	5-2	None	LA	None	C	"	Type I virus 5-31 (RML).
Ida-17	Minidoka	JG	6	F	4-19	5-14	5-21	Arm	RL	C	"	Type I virus (6-21) Type I virus (7-25) G (Gebhartd)
Ida-18	Caribou	KA	7	F	4-19	5-25	5-30	LA	LL	C	"	Type I from contact 6-29 (RML)
Ida-19	Twin Falls DML		8	F	4-23	5-14	None	LA	None	C	"	