CDC POLIOMYELITIS SURVEILLANCE REPORT NO. 134 NOVEMBER 15, 1957

U.S. DEPARTMENT OF HEALTH, EDUCATION AND WELFARE
Public Health Service Bureau of State Services

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SPECIAL NOTE

Information presented in this report represents a summary of preliminary data regarding poliomyelitis and polio-like diseases reported to CDC from State Health Departments, participating diagnostic and reference laboratories, Epidemic Intelligence Service Officers, National Office of Vital Statistics, and other pertinent sources. It is to be emphasized that these data are provisional and intended for the information and administrative use of physicians involved in investigation and control of poliomyelitis and polio-like diseases. Anyone desiring to quote this information is urged to contact the person or persons responsible for the items reported in order that the exact interpretation of the report and the current status of the investigation be obtained.

October 31, 1967. Forter this partie a bital of 166 cures was removing.

A. Current Poliomyelitis Morbidity Trends

National poliomyelitis incidence decreased during the last two weeks. A total of 67 cases was reported to NOVS for the week ending November 9, following 112 and 77 cases reported respectively for the weeks ending October 26 and November 2. Figure 1 presents the national poliomyelitis incidence curves by weeks for the years 1947, 1952 through 1956, and to date in 1957.

Table 1 shows the distribution of total cases by state and region, and of paralytic cases by region, for the past six weeks, with six-week totals for the comparable periods of the past four years. Of the 67 cases reported during the last week, 25 were reported from the North Central Region, primarily from Ohio, Michigan and Indiana. It may be noted that no cases of polio have yet been reported during 1957 from the state of Rhode Island.

Of the 67 cases reported last week, 35 were categorized as paralytic, 17 as nonparalytic and 15 as unspecified. Figure 2 shows the U.S. incidence by paralytic status for the 30th through the 45th weeks of 1955, 1956 and 1957. The proportion of cases indicated as paralytic has continued to increase during the past 11-12 weeks, but with particularly low paralytic and total incidence this year. The numbers of cases by paralytic status reported for the 45th week and the cumulative totals to date in 1957 may be compared with similar data for 1955 and 1956:

V.A.Fachur		oskolade - lei			Cumul	ative Th	ıru	
THE CALIFFIED	1955	1956	<u>1957</u>			45th Wee		
Paralytic Nonparalytic Unspecified	208 142 114	142 78 42	35 17 15		9796 10612 7121	6196 5625 2642	1988 2739 910	
TOTAL	464	262	67	Loditet Grazio di Gritta e 190	27529	14463	5638	b
Percent Paralytic (of cases with paralytic status	o epillo delo ur eviv	e rozel s licen orselsk		ron ii idhe Veridar Coghiren				
specified)	59	65	67	e to Ima	48	52	42	

B. Report from Louisiana - Dr. John M. Bruce, Chief, Section of Epidemiology, Louisiana State Department of Health, has prepared data summarizing poliomyelitis cases in the state of Louisiana during the period January 1 through October 31, 1957. During this period a total of 160 cases was reported, including 69 paralytic and 91 nonparalytic.

Table 2 presents these 160 cases by paralytic and vaccination status and by virus isolation results. It is notable that of 45 paralytic cases which received laboratory study, type I poliovirus was isolated in 26, whereas of 65 nonparalytic cases studied, only 5 yielded type I poliovirus. Also from Table 2 it may be seen that virus was isolated from only 3 of the 40 vaccinated cases studied, while 28 of the 70 unvaccinated cases yielded virus (all type I). Thus, laboratory study has been completed by the Louisiana State Health Department Laboratory on an overall total of 110 cases, with results negative in 79 cases and positive (type I isolated) in 31.

Age distribution of Louisiana cases this year, by paralytic and vaccinated status, is presented in Table 3. Of the total 160 cases, the largest number, 59, or 37%, largely paralytic, were under age 5, while 40, or 25% were in the 5-9 year age group and 28, or 18%, over age 20.

C. Report from England - Reports from the British Ministry of Health have recorded uncorrected poliomyelitis notifications during recent weeks as follows:

Week Ending	Paralytic	Nonparalytic	Total
September 7	158	121	279
September 14	116	84 0 0 0	200
September 21	113	85	198
September 28	87	37° 7° 7° 100°	124
October 5	87	29	116
October 12	68	26 m 26 m	94
October 19	64	tare 16 local terms	80

The following table, presenting the number of cases reported for the 42nd week and the cumulative total cases reported up to and including the 42nd week, compare the data for 1957 with the figures for the preceding nine years.

Year	Total cases up to and including 42nd week	Cases in 42nd Week
1948	1,703	80
1949	4.890	414
1950	7,293	278
1951	2,515	110
1952	3,706	110
1953	4,515	135
195/	1 033	62
70rr	5 701	3/.7
1956	2,984	140
1957	4,830	80

Thus, it may be seen that the cumulative total for the current year was exceeded for the comparable periods during 1949, 1950 and 1955. However, in ten individual districts of 15,000 or more population the notification rate to date in 1957 exceeds 75 cases per 100,000 population.

D. Routine Poliomyelitis Surveillance

1. Under-30-day vaccinated cases - During the two-week period ending November 13, PSU received reports of two paralytic and three non-paralytic poliomyelitis cases with onset of symptoms within 30 days of a polio vaccine inoculation.

One of the paralytic cases was reported from Alameda County, California, in a 4 year old girl whose onset of illness in June of 1957 was 27 days following second inoculation of polio vaccine (manufacturer and lot number unknown). Bulbar paralysis developed, with residual right facial paresis. Type I poliovirus was isolated from stool specimens.

Kentucky reported a case in an eleven months old female with onset of illness 12 days following a single inoculation. Site of inoculation, first paralysis, vaccine manufacturer and lot number were not known.

2. Triply-vaccinated cases - Reports of 19 paralytic and 36 non-paralytic triply-vaccinated poliomyelitis cases were received during the two-week period ending November 13. The paralytic triply-vaccinated cases are listed in Table 2; one of these, #3V-148, was a fatality reported from Knox County, Texas. Onset of illness in this 12 year old triply-vaccinated boy (last inoculation a year ago) was 9-24-57, with paresis becoming evident on 10-8-57. Paresis progressed to total involvement, including the development on October 9 of bulbar symptoms with pharyngeal and respiratory paralysis. The patient expired on 10-12-57. No virus has been isolated from stool, blood, spinal fluid, spinal cord and brain tissue specimens examined in the Texas State Health Department Laboratories.

Also included in Table 2 is case #3V-74 (listed previously in preliminary form in PSU Report No. 123) with additional clinical details including the observation of definite residual paresis six weeks after the acute illness.

PSU has now received reports of 114 paralytic (including two fatalities) and 462 nonparalytic cases in triply-vaccinated individuals with onset of symptoms in 1957.

3. <u>Vaccine Distribution</u> - Current and cumulative vaccine releases, shipments and inventory estimates are presented in Table 3. The amount of vaccine shipped fell from 8.0 million cc's shipped during the month of September to only 2.7 million cc's during October, including 1.8 million exported under the Department of Commerce export policy. Vaccine cleared but not shipped by manufacturers totaled almost 18.5 million cc's the week ending November 1.

E. Aseptic Meningitis

Report from California

The following is abstracted from California Surveillance Report, Poliomyelitis Report #8, California State Department of Public Health, October 17, 1957:

"Non-paralytic polio versus aseptic meningitis. As in the United States as a whole, the proportion of cases reported as paralytic in California appears to have increased during recent weeks. Tabulation of cases by month of onset indicates that while paralytic incidence has remained relatively stable, with a low of 17 cases with onset in April and a high of 34 cases with onset in August, incidence of nonparalytic illness has shown a decidely marked seasonal pattern rising from a low of 23 cases in April to a peak in August of 103 cases, with a subsequent decline in incidence....

"This distribution of cases reported as nonparalytic polio appears to be attributable in part to the seasonal occurrence of aseptic meningitis in California this summer. Although agents other than polio are being increasingly identified with the syndrome of aseptic meningitis, in the absence of distinguishing clinical features, many of these illnesses are diagnosed as nonparalytic polio.

"Of the first 30 cases of reported nonparalytic polio studied by the Virus Laboratory this season, 'non-polio viruses' - Coxsackie or unidentified orphan viruses - were isolated in 13 cases, 3 cases had mumps virus infection, and no agent was identified in 14. No isolations of polio virus were made.

"Although aseptic meningitis of undetermined etiology is not listed as an 'officially reportable' disease category, voluntary reports have been received this year from 21 counties, representing most areas of the state. During the present 'polio disease year' 101 such reports have been received. Seventy-four of these cases were reported as 'aseptic meningitis, possible polio'. July and August were the predominant months of onset in these cases. These cases are not included in the tables on polio incidence. Specimen transmittal slips received by the Viral and Rickettsial Disease Laboratory give further indication of the occurrence of aseptic meningitis throughout the state this summer. . . ."

(This Report was prepared by Dr. Lauri David Thrupp and Miss Helen Forester with assistance from the Statistics Section, CDC.)

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ైర్లు అంది రావాణం పైపట్టాలు గ్రామణాలని కామ్యం కారాలు. కింకా చూపిందిన అన్నాయ్లుకోవడ్డు కార్ కార్ ఎక్కువం క్రామంలో కార్య క్రామం క్రామం కారాగా కామ్యాన్కి మీద్రాణ్లో కాటు. అది. మీద్రాణు మీద్రా ఇండికోం కొండికు ఇవ్విక్ కామీర్లు ఇవ్విక్ కాటిక్స్ కాట్ వివిధాన్నారు.

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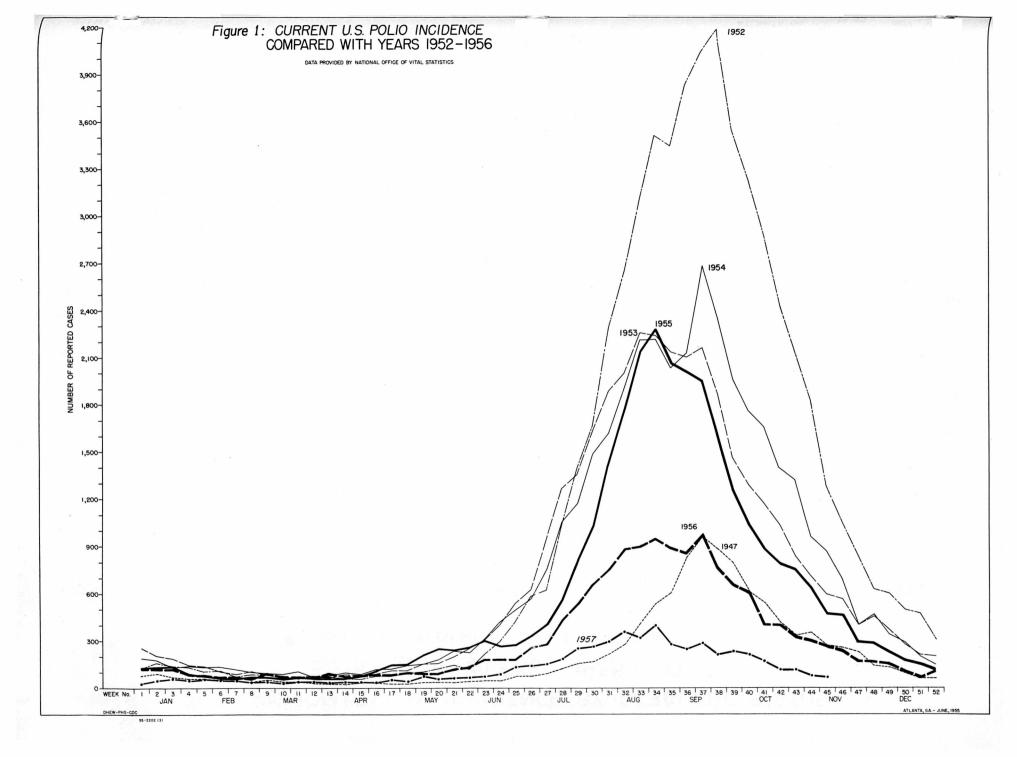
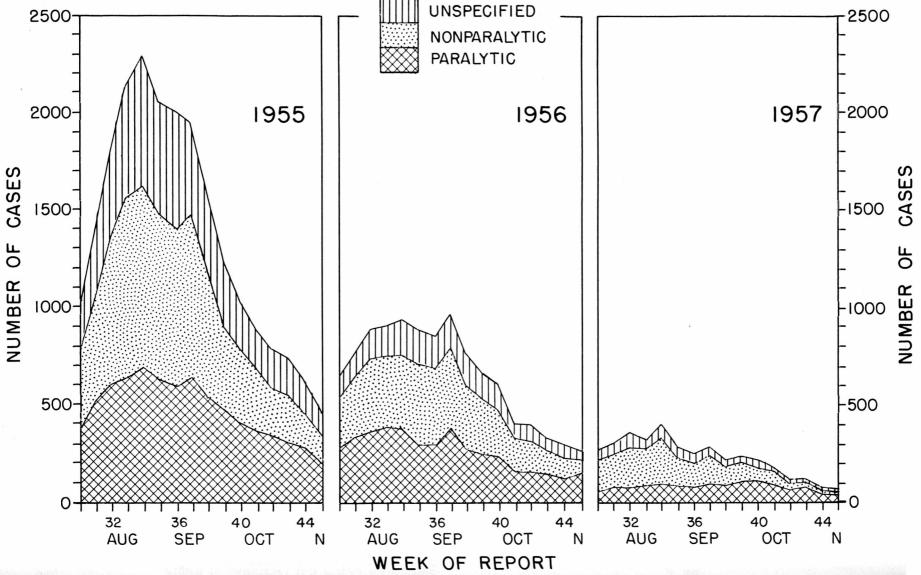


Fig. 2: U.S. POLIOMYELITIS INCIDENCE BY PARALYTIC STATUS 30th - 45th WEEKS, 1955 - 1957*

*BASED ON PRELIMINARY DATA PROVIDED BY NOVS



DHEW-BUC-BSS-CDC

ATLANTA, GA.

58-150

NOV., 1957

Table 1
TREND OF 1957 POLIOMYELITIS INCIDENCE

State		es Repo			S*	rtaon Vaet	Six Week	Comparable Six Week Totals In:					
Region		LO-12 1			11-2	11-9	Total	1956	1955	1954			
UNITED STATES Paralytic Nonparalytic Unspecified Total	103 63 45 211	88 64 17 169	61 33 18 112	73 27 12 112	143 19 15 77	35 17 15 67	403 223 122 748	949 875 458 2282	1916 1512 1116 4544	TAAR H tylers Letc 7941	5619		
NORTH EAST	7.0	-		1/2	, š	١.		50	100	to .fe	EI.		
Paralytic Total	10 27	7 18	13	6 8	9	4 5	37 80	78 260	571 1561	2068	1458		
Maine New Hampshire Vermont Massachusetts Rhode Island Connecticut		- - 1 - 3	1	1	-3	1 -	2 - 1 2 - 4	2 2 9	50 13 13 580 112 93	41 31 26 282 39 140	14 36 143 69		
New York New Jersey Pennsylvania	15 4 7	12 1 1	6 3 2	14 - 3	6 2 1	3 - 1	46 10 15	154 28 54	502 117 81	768 286 455	632 140 309		
NORTH CENTRAL Paralytic Total	41 93	28 61	16 41	20 32	12 33	10 25	127 285	283 806	497 1299	2692	1970		
Chio Indiana Illinois Michigan Wisconsin Minnesota Iowa Missouri North Dakota South Dakota Nebraska Kansas	16 10 18 25 3 6 2 5 1	6 3 22 23 2 1 1 2 - 1	9 5 7 15 - 1	6 8 4 5 2 1 1 3	9 12 4 3 2 - 1 1 1 1 1	7 5 3 7 1 1 1	53 43 58 78 10 9 5 13 - 2	111 77 136 125 117 23 75 55 6 7 51 23	206 81 200 144 409 71 53 50 7 11 38 29	568 250 497 452 177 100 249 152 21 31 90 105	479 66 25, 40 156 28 7 11 3 3		
NORTH WEST Paralytic Total	2	2	_	1 ₄	3	2 4	13 17	41 107	192 346	321	25		
Montana Wyoming Idaho Washington Oregon	2	2 - 1	SI	- - - - 14	2	- - 3 1	2 2 7 6	13 8 10 37 39	36 3 29 162 116	41 47 20 111 102	34 34 11 12 12 12 12 12 12 12 12 12 12 12 12		

^{*} National Office of Vital Statistics

Table 1 (Continued)

State	39 	Case	es Repo			JS*	sitte. Taksi	Six Week			ole Six	
and Region	0.01	0-5	for We			11-2	11-9		Control of the Contro	1955	1954	
SCUTH EAST												TUM
Paralytic		25	22	15	26	6	5	99	160	209	tylone	
Total		43	39	25	36	10	14	167		461	1389	729
ALLI	al et ofter		 17					1	.16 7	4	3 5	5
Delaware		_ '	2	2	4	2	-	11	-	6 5	83	91
Maryland		_	1	3		_	-	10		7	20	8 100
Dist. of Col	D ***	2		2	5 2		_	22		42	121	95
Virginia			5	5 2	2	2	_	10		25	89	77
West Virginia		4	1				-			74	106	78
North Carolina		5	8	3	5	-	1	22				18
South Carolina		3	5		2	1	1	12	•	55	43	49
Georgia		1	1 -	2	4	2	2	12		36	107	173
Florida		4	3 -	-	4	1	1	- 13		40	483	
Kentucky		5	4	3.	3	1	4	20		59	172	47 56
Tennessee	216	11	4	5	5		2	- 27		30	90	56
Alabama	LI	•	4 -	-	-	-,1	3	7	29	24	40	32
205 - 766 (31	17.											
SOUTH CENTRAL			1					J.				
Paralytic		17	14	10	5	5 9	5	56		192		- = 0
Total		26	23	12	10	9	6	86	310	412	605	278
Mississippi		1	1	2	1	-0	1 _	5	49	12	61	19
Arkansas		4	1	1		- 1		6		21	55	31
Louisiana		4	5	4	1	_	5	19	_	61	68	39
Oklahoma		4	2	i	ī	-9	í	9		39	60	38
Texas	5.00	13	14	4	7	9	NR	47		279	361	151
co icaes		1)		· •		2	747.	. 41		-17		II d
SOUTH WEST					*2		ř.				. sain	14
Paralytic	mir.	8	15	14	12	13	9	Š 7	1 213	255		
		19	25	21	22	13	13	ַ װ		480	866	927
Total		エン	27	71	22	13	13	1	·	400		ol
Colorado		2	1	2	<u>.</u>	1	1		7 31	27	67	16
		۷.	2	1 2 m	-		_	***	3 12	14	45	11
New Mexico		-	3	1	2	1	ī		8 14	27	25	34
Arizona		- 1	3	T-	2	7	ı	2	1 45	15	67	31
Utah V		•	-	- 1.			T			10		4
Nevada		3.77	30	177	-	11	10	_	3		652	831
California		17	19	17	20	11	10	>	4 347	387	653	11/10%
THE DEPOS TO SEE	13				<u> </u>	**		5.	6 12	i lio		14 F
TERRITORIES		3	2	• 1	-	•	1		6 12	49		
(Paralytic)											(0	8
Alaska		-5	-		-		***		<u> </u>	13	68	
Hawaii		3 -	1		-		NR	Mr.	4 5	62	7	3
Puerto Rico	O.L.	18	1	is e	_	-	2	er er	4 8	3	5	3
io itt fat	78							-1-	4			134 N

^{*} National Office of Vital Statistics

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Table 2

Poliomyelitis Cases in Louisiana, January 1 through October 31, 1957

By Virus Isolation, Paralytic and Vaccination Status (1)

	Virus S	Virus			
	Type I	No Virus		Status	
	Isolated	<u>Isolated</u>	Total	Incomplete	Total
PARALYTIC CASES		_		~	
Vaccinated	2	6	8	7*	15
Not Vaccinated	24	13	37	16	_53
All Paral. Cases	26	19	45	24*	69*
NONPARALYTIC CASES					
Vaccinated	1**	31***	32	16	48
Not Vaccinated	4	29	33	10	43
All Monparal. Cases	5	60	6 5	26	91
ALL CASES					
Vaccinated	3	37	40	23	63
Not Vaccinated	28	42	70	26	63 96
GRAND TOTAL	31	79	110	50 ^x	160 ^x

⁽¹⁾ From data prepared by the Section of Epidemiology, Louisiana State Department of Health

X Totals include one case with Vaccination Status unknown.

^{*} Includes two cases with 3 doses and one with 4 doses.

^{**} Had 3 doses of vaccine.

^{***} Includes 14 cases with 3 doses and two cases with 4 doses.

Table 3

Poliomyelitis Cases in Louisiana, January 1 through October 31, 1957

By Age Group and Paralytic and Vaccination Status*

Age Group	Vacc.	PARAI Not Va			otal	Vacc.	NONPARALYT	Total	Vacc.	ALL CASES Not Vacc.	Motel
		NOC VA								NOC VACC.	Total
0-4	10(3)	37			47	6(4)	6	12	16	43	59
5-9	1(x)	5			6	22(8)	12	34	23	17	40
10-14	2(1)	4			6	10(7)	4	14	12	8	20
15-19	1	1			2	6(1)	5	11	7	6	13
20 and over	1(x)	7	5		8	4(1)	16	20	5	23	28
	-			-	- 3					a 	
TOTALS	15	54			69	48	43	91	63	97	160

^{*} From data prepared by the Section of Epidemiology, Louisiana State Department of Health.

- (x) Received 3 or more doses of vaccine.
- (1) Including one case which received 3 or more doses.
- (3) Including three cases with 3 or more doses.
- (4) Including four cases with 3 or more doses.
- (7) Including seven cases with 3 or more doses.
- (8) Including eight cases with 3 or more doses.

Table 4

1957 PARALYTIC POLIOMYELITIS CASES FOLIOWING THREE INCCULATIONS OF VACCINE (Reports October 31 through November 13, 1957)

3 V Case	Chata	Country	Ini-	Λ	Corr	Date 1st	Cerebro- Spinal	Site of	Dates of Vacc.	Mfr,	Tot No
No.	State	County	tials	Age	Sex	Symp.	Fluid	Para.	Inoc.	MIT L.	Lot No.
1½0	California	Kern	GA	27	F	9-3-57		RA	? ? 2-8 - 57	? ? L	?
141	California	San Mateo	JAB	5	F	9-23-57		RA	4-16-56 5-21-56 2-7-57	? ? ?	?
142	California	San Bernardino	PB	11	F	9-1-57	450 cells	LA,RL	1-10-56 1-25-56 7-2-57	PM PM PD?	175A083 175A083 0298731
143	California	Kern	JAF	10	F	7 - 13 -57	9 cells	?	3-?-55 4-?-55 1-?-56	? ?	? ?
144	Kentucky	Jefferson (Preliminary Ro	HB eport)	8	М	7-31-57		?	? ? 3-?-57	? ? ?	?
145	Kentucky	Jefferson (Preliminary Re	DD eport)	3 1	F	8 - 5 - 57		?	? ? 6-?-57	? ? ?	?

(CONTINUED NEXT PAGE)

Table 4 (Continued)

3V Case No.	State	County	Ini- tials	Age	Sex	Date 1st Symp.	Cerebro- Spinal Fluid	Site of Para.		Dates of Vacc. Inoc.	Mfr.	I	Lot No.
146	Kentucky	Jefferson (Preliminary	ICB Report)	6 <u>1</u>	F	7-29-57		?	;	11-?-55 3-?-56 11-?-56	? ?		? ? ?
147	Kentucky	Washington (Preliminary	CDS Report)	9	М	8-26-57		?		? ? ?	? ? ?		? ? ?
148	South Carolina	Aiken (Preliminary	VPA Report)	2	М	10-7-57		?		? ? ?	?	1. 3.	?
1 49	South Carolina	Richland (Preliminary	NH Report)	7	F	8-12-57		? , , , , , , , , , , , , , , , , , , ,		?	? ? ?		? ? ?
15 0	New Jersey	Bergen (Preliminary	HS Report)	4	М	9-15-57		?		? ? ?	?		? ? ?
151	New Jersey	Bergen (Preliminary	RD Report)	12	М	8-23-57		?		? ? ?	? ?		? ? ?
152	New Jersey	Middlesex (Preliminary	DJ Report)	5	F	9-21-57		?		? ? ?	?		? ? ?
15 3	Iowa	Guthrie (Preliminary	GL Report)	5	F	9-23-57	iene pografija. De sa 1800			?	? ? ?		? ? ?

(CONTINUED NEXT PAGE)

Table 4 (Continued)

3 V Case No.	State	County	Ini- tials	Age	Sex	Date 1st Symp.	Cerebro- Spinal Fluid	Site of Para.	Dates of Vacc. Inoc.	Mfr.	Lot No.
154	Indiana	Marion	LL ,	8	F	9-5-57		?	?	?	?
		(Preliminary	Report)			1			.	?	· · · · · ·
155	Louisiana	La Salle	DKB	2	М	10-3-57		?	2	٠ 2	; 2
エフフ	TOUTSTAIIA	(Preliminary		2	11	70-2-71		- 1 •	,	?	?
		(Tremminary	Report						?	?	?
156	Louisiana	Caddo	VC	8	M	10-2-57		?	?	?	?
1)0 Dourstand	(Preliminary			••			•	?	?	?	
	(,						?	?	?	
									?	?	?
157	Louisiana	E. Baton Rou	age VMT	3	F	9-24-57		?	?	?	?
-/1		(Preliminary		, 5	_				?	?	· ?
									?	?	?
158	Texas	Knox	HCH	12	M	9-24-57	33 WBC	Bulbo-	?	?	?
	projection (Expired:	33 ,	spinal	?	?	?
						10-12-57		_	9-?-56	?	?
		Comment: (S	See Text of	this	Report.						
74	Georgia	Muscogee	JLD	11/2	F	8-8-57	172 WBC	LL, RL	8-22-56	?	?
	2322020		0.22	2	•	- 0)1	_120	,	10-11-56	?	?
									4-24-57	?	?

Comment: Additional data concerning this case, listed previously in PSU Report No. 123, has been received from the Georgia Department of Public Health. This patient was hospitalized on the third day of illness with symptoms-intermittent abdominal pain, low grade fever, some flaccid paralysis of the left leg. CSF showed 172 WBC (37% lymphs) protein 38 mg. Marked flaccidity of the right leg and absence of tendon reflexes developed, and considerable residual paralysis of the right leg remained after six weeks. Blood and stool specimens were obtained for laboratory investigation.

Table 5
POLIOMYELITIS VACCINE REPORT through 11-8-57

(Data provided by the Polio Vaccine Activity, BSS, USPHS. Listed in 1000's of cc's of Net Bottled Vaccine)

		VAC	CINE RELEAS	ES		
Period	Lilly	Parke Davis		n-	Sharpe Dohme	e & Cutter
July August September October November 1-8	5,047 5,840 10,332 1,015	1,843 3,704 2,603 1,809 180	1,23 1,33 2,66 1,34 1,35	9 394 4 257 7 -	1,019 86 1,028 519 1,11	- 3 - 5 -
Cumulative to date	130,930	34,725	34,89	3 10,425	12,03	3 401
		VAC	CIME SHIPP	רודי		
		VAC	Public	Commercial		
Period		NFIP	Agencies	Channels	Export	Total
1955		13,541	7,893	6,233	70	27,667
1956		194	45,588	24,784	6,477	77,043
1957 January - J July August September October	une	151 - - 1 1	36,044 4,642 4,133 3,036 504	23,760 4,903 4,037 3,654 359	6,385 327 1,099 1,272 1,813	66,970 9,871 9,269 7,962 2,676
Cumulative To	tals	13,887	102,470	67,729	17,374	201,459
		VACO	INE INVENT	ORY		
Week Ending		10/18/5	57	10/25/57	and All All All All All All All All All Al	11/1/57
Vaccine Unshi by Manufact		18,07	76	18,731		18,498