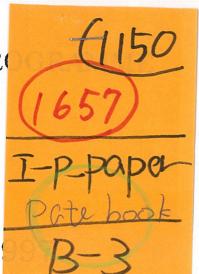
FILARIASIS ELIMINATION PROSAMOA

SUPPLEMENT TO DATA BOOK 1992~1



2000 ISSUE

FILARIASIS CONTROL UNIT
DIVISION OF PREVENTIVE HEALTH SERVICES
DEPARTMENT OF HEALTH
GOVERNMENT OF SAMOA

October 2000

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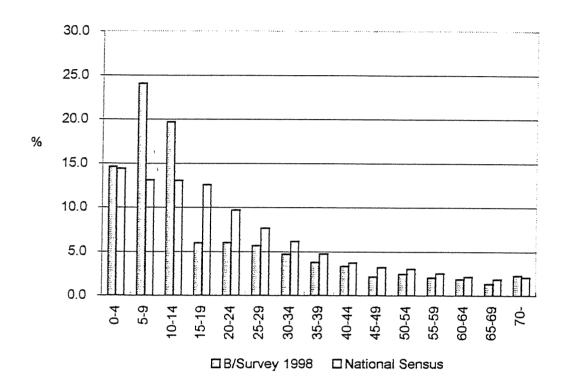
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b8a-pop-t
BLOOD SURVEY 1998
AGE DISTRIBUTION:

BLOOD SURVEY 1998 AND NATIONAL CENSUS 1991

		······································	BLOOD SI	JRVEY	1		NATIONAL CENSUS					
AGE	MALE	%	FEMALE	%	TOTAL	%	MALE	%	FEMALE	%	TOTAL	%
0-4	292	15.0	301	14.3	593	14.6	12076	14.3	11169	14.6	23245	14.4
5-9	529	27.1	447	21.2	976	24.1	11169	13.2	10008	13.0	21177	13.1
10-14	418	21.4	381	18.1	799	19.7	11086	13.1	9961	13.0	21047	13.0
15-19	117	6.0	125	5.9	242	6.0	10999	13.0	9281	12.1	20280	12.6
20-24	123	6.3	120	5.7	243	6.0	8707	10.3	6940	9.0	15647	9.7
25-29	94	4.8	136	6.5	230	5.7	6586	7.8	5789	7.5	12375	7.7
30-34	71	3.6	120	5.7	191	4.7	5155	6.1	4772	6.2	9927	6.2
35-39	54	2.8	99	4.7	153	3.8	3874	4.6	3769	4.9	7643	4.7
, 40-44	44	2.3	, 91	4.3	135	3.3	3015	3.6	2994	3.9	6009	3.7
45-49	31	1.6	55	2.6	86	2.1	2585	3.1	2594	3.4	5179	3.2
50-54	47	2.4	53	2.5	100	2.5	2437	2.9	2443	3.2	4880	3.0
55-59	31	1.6	52	2.5	83	2.0	2096	2.5	1993	2.6	4089	2.5
60-64	33	1.7	43	2.0	76	1.9	1730	2.0	1722	2.2	3452	2.1
65-69	29	1.5	26	1.2	55	1.4	1537	1.8	1450	1.9	2987	1.9
70-	37	1.9	55	2.6	92	2.3	1549	1.8	1812	2.4	3361	2.1
TOTAL	1950	100.0	2104	100.0	4054	100.0	84601	100.0	76697	100.0	161298	100.0

Blood Survey 1998; Age Distribution Blood Survey 1998 and National Census 1991 by Age Group

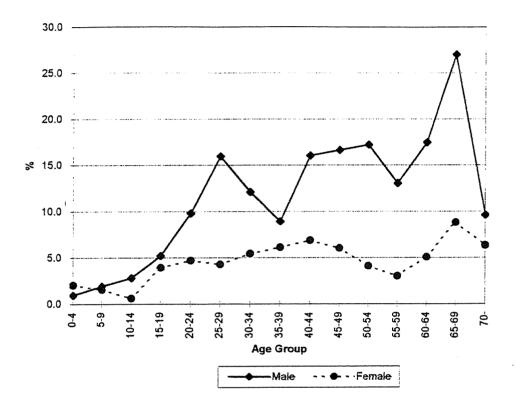


b8po-age-g(ICT)

Blood Survey 1998
Antigen Prevalence by Age Group & Sex

	M	ALE		FE	MALE		TOTAL			
AGE	SAMPLE P	OSITIVE	%	SAMPLE PO	SITIVE	%	SAMPLE PO	SITIVI	%	
0-4	409	4	1.0	391	8	2.0	800	12	1.5	
5-9	672	13	1.9	575	9	1.6	1247	22	1.8	
10-14	496	14	2.8	473	3	0.6	969	17	1.8	
15-19	153	8	5.2	177	7	4.0	330	15	4.5	
20-24	163	16	9.8	170	8	4.7	333	24	7.2	
25-29	119	19	16.0	187	8	4.3	306	27	8.8	
30-34	99	12	12.1	165	9	5.5	264	21	8.0	
35-39	67	6	9.0	130	8	6.2	197	14	7.1	
40-44	5 6	, 9	16.1	11 6	8	6.9	172	17	9.9	
45-49	36	6	16.7	66	4	6.1	102	10	9.8	
50-54	58	10	17.2	73	3	4.1	131	13	9.9	
55-59	46	6	13.0	66	2	3.0	112	8	7.1	
60-64	40	7	17.5	59	3	5.1	99	10	10.1	
65-69	37	10	27.0	34	3	8.8	71	13	18.3	
70-	52	5	9.6	63	4	6.3	115	9	7.8	
TOTAL	2503	145	5.8	2745	87	3.2	5248	232	4.4	

Blood Survey 1998 Antigen Prevalence by Age Group and Sex

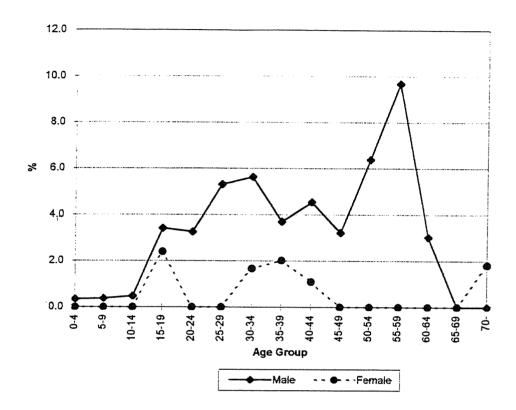


b8po-age-t(MF)

BLOOD SURVEY 1998 Microfilaria Prevalence by Age group & Sex

		MALE			FEMALE			TOTAL	
AGE	SAMPLE	POSITIVE	%	SAMPLE	POSITIVE	%	SAMPLE	POSITIVE	%
0-4	292	1	0.3	301	0	0.0	593	1	0.2
5-9	529	2	0.4	447	0	0.0	976	2	0.2
10-14	418	2	0.5	381	0	0.0	799	2	0.3
15-19	117	4	3.4	125	3	2.4	242	7	2.9
20-24	123	4	3.3	120	0	0.0	243	4	1.6
25-29	94	5	5.3	136	0	0.0	230	5	2.2
30-34	71	4	5.6	120	2	1.7	191	6	3.1
35-39	54	2	3.7	99	2	2.0	153	4	2.6
40-44	44	, 2	4.5	91	1	1.1	135	3	2.2
45-49	31	1	3.2	55	0	0.0	86	1	1.2
50-54	47	3	6.4	53	0	0.0	100	3	3.0
55-59	31	3	9.7	52	0	0.0	83	3	3.6
60-64	. 33	1	3.0	43	0	0.0	76	1	1.3
65-69	29	0	0.0	26	0	0.0	55	0	0.0
70-	37	0	0.0	55	1	1.8	92	1	1.1
TOTAL	1950	34	1.7	2104	9	0.4	4054	43	1.1

Blood Survey 1998 Mf Prevalence by Age Group & Sex



b8po-vil-t(a)

BLOOD SURVEY 1998

Mf and Antigen Prevalence by Village Samples: Examined by Either 3 Line or ICT

UPOLU

#		VILLAGES	POP.	DATE	# EXAM	ICT POS	%	3 Lines	Posi	0/ /0	NOTE
	_	Magiagi Valley	1408	14/4	222	13	5.9%	45	5	11.1%	
-	_	Lelata	285			0	0.0%	9	. 0	0.0%	
		Falelauniu	21	20/4	84	6	7.1%	34	1	2.9%	
	D	Tauese	222	21/4	78	5	6.4%	29	1	3.4%	
-	Ε	Palisi	598	22/4	70	3	4.3%	15	1	6.7%	1 pos ICT no 3Lines
6		Magiagi-Tai	1360	23/4	271	8	3.0%	81	0	0.0%	1 pos ICT no 3Lines
_		Magiagi Plt.	48	24/4	31	3	9.7%	9	0	0.0%	
8		Nonoa (Saleimoa)	354	29/4	140	20	14.3%	93	1	1.1%	2 pos ICT no 3Lines
9		Salepouae(Saleimoa)	679	30/4	156	5	3.2%	27	0	0.0%	4 pos ICT no 3Lines
10		Alamutu (Saleimoa)	219	1/5	87	0	0.0%	59	1	1.7%	
11	K	Sapulu (Faleasiu)	2833	7/5	95	3	3.2%	95	0	0.0%	
12	L	Lotosoa(Saleimoa)	530	13/5	210	11	5.2%	210	4	1.9%	
13	М	T/Salago.(Leauva'a)	2183	19/5	380	2	0.5%	380	1	0.3%	
14	N	Sataputu(Leauvaa)	2183	20/5	249	3	1.2%	249	1	0.4%	
15	0	Piu(Falealili)	82	9/6	52	4	7.7%	52	3	5.8%	
16	Ρ	Leloto(Leauvaa Uta)	2183	14/7	107	10	9.3%	107	4	3.7%	
17	Q	L/Mulivai(Leauvaa Uta)	2183	16/7	117	8	6.8%	117	2	1.7%	
18	R	Falevao	409	21/7	259	15	5.8%	259	3	1.2%	
19	s	Laulii	1492	22/7	378	17	4.5%	378	7	1.9%	
20	T	Letogo	700	23/7	328	16	4.9%	328	2	0.6%	
21	U	Papaloloa	1073	24/7	53	0	0.0%	53	0	0.0%	
22	V	Falefa	1390	18/8	722	19	2.6%	722	5	0.7%	

UPOLU TOTAL	4144	171	4.1%	3351	42	1.3% 8 pos ICT no 3 Lines

SAVAII

		Salimu	208	17/6	165	16	9.7%	165	2	1.2%	
	_	Sapini	161	18/6	113	3	2.7%	113	1	0.9%	
		Avao	430	23/6	229	5	2.2%	229	1	0.4%	
		Manase	184	24/6	137	9	6.6%	137	1	0.7%	
5	SE	Sagone	786	25/6	460	28	6.1%	460	6	1.3%	

SAVAII TOTAL	1104	61	5.5%	1104	11	1.0%
SAVAII TOTAL	1104	01	J.J70	1104	1 1	1.070

TOTAL 5248 232 4.4% 4455 53 1.2% 8 pos ICT no 3 Lines

b8po-vil-t(b)

BLOOD SURVEY 1998

Antigen Prevalence by Village Samples: Examined by ICT

UPOLU

#		VILLAGES	POP.	DATE	# EXAM	ICT POSI	%
1	Α	Magiagi Valley	1408	14/4	222	13	5.9%
2	В	Lelata	285	17/4	55	0	0.0%
3	С	Falelauniu	21	20/4	84	6	7.1%
4	D	Tauese	222	21/4	78	5	6.4%
_	E	Palisi	598	22/4	70	3	4.3%
6	F	Magiagi-Tai	1360	23/4	271	8	3.0%
7	G	Magiagi Plt.	48	24/4	31	3	9.7%
8	Η	Nonoa (Saleimoa)	354	29/4	140	20	14.3%
9	1	Salepouae(Saleimoa)	679	30/4	156	5	3.2%
10	J	Alamutu (Saleimoa)	219	1/5	87	0	0.0%
11	K	Sapulu (Faleasiu)	2833	7/5	95	3	3.2%
12	L	Lotosoa(Saleimoa)	530	13/5	210	11	5.2%
13	М	T/Salago.(Leauva'a)	2183	19/5	380	2	0.5%
14	Ν	Sataputu(Leauvaa)	2183	20/5	249	3	1.2%
15	0	Piu(Falealili)	82	9/6	52	4	7.7%
16	J	Leloto(Leauvaa Uta)	2183	14/7	107	10	9.3%
17	Ø	L/Mulivai(Leauvaa Uta)	2183	16/7	117	8	6.8%
18	R	Falevao	409	21/7	259	15	5.8%
19	S	Laulii	1492	22/7	378	17	4.5%
20	Ŧ	Letogo	700	23/7	328	16	4.9%
21	U	Papaloloa	1073	24/7	53	0	0.0%
22	٧	Falefa	1390	18/8	722	19	2.6%

UPOLU TOTAL 4144 171 4.1%

SAVAII

		Salimu	208	17/6	165	16	9.7%
2	SE	Sapini	161	18/6	· 113	3	2.7%
3	SC	Avao	430	23/6	229	5	2.2%
		Manase	184	24/6	137	9	6.6%
5	SE	Sagone	786	25/6	460	28	6.1%

SAVAII TOTAL 1104 61 5.5%

TOTAL 5248 232 4.4%

b8po-vil-t(c)

BLOOD SURVEY 1998

Mf and Antigen Prevalence by Village Samples: Examined by Both 3 Line & ICT



UPOLU

#		VILLAGES	POP.	DATE	# EXAM	ICT POS	%	3 Lines	Posi	%	NOTE
11	K	Sapulu (Faleasiu)	2833	7/5	95	3	3.2%	95	0	0.0%	2
12	L	Lotosoa(Saleimoa)	530	13/5	210	11	5.2%	210	4	1.9%	
13		T/Salago.(Leauva'a)	2183	19/5	380	2	0.5%	380	1	0.3%	/
14	Ν	Sataputu(Leauvaa)	2183	20/5	249	3	1.2%	249	1	0.4%	
15	0	Piu(Falealili)	82	9/6	52	4	7.7%	52	3	5.8%	
16	Ρ	Leloto(Leauvaa Uta)	2183	14/7	107	10	9.3%	107	4	3.7%	
17	Q	L/Mulivai(Leauvaa Uta)	2183	16/7	117	8	6.8%	117	2	1.7%	
18	R	Falevao	409	21/7	259	15	5.8%	259	3	1.2%	8
19	S	Laulii	1492	22/7	378	17	4.5%	378	7	1.9%	0
20	T	Letogo '	700	23/7	328	16	4.9%	328	2	0.6%	
21	U	Papaloloa	1073	24/7	53	0	0.0%		0	0.0%	
22	٧	Falefa	1390	18/8	722	19	2.6%	722	5	0.7%	19

UPOLU TOTAL	2950	108	3.7%	2950	32	1.1%
				- ,53 1897	,	

SAVAII

1	SA	Salimu	208	17/6	165	16			2	1.2%	<u>lo</u>
2	SB	Sapini	161	18/6	113	3	2.7%		1	0.9%	10
3	SC	Avao	430	23/6	229	5	2.2%	229	1	0.4%	1
4	SD	Manase	184	24/6	137	9	6.6%	137	1	0.7%	- Anna Anna Anna Anna Anna Anna Anna Ann
5	SE	Sagone	786	25/6	460	28	6.1%	460	6	1.3%	14
Г											·

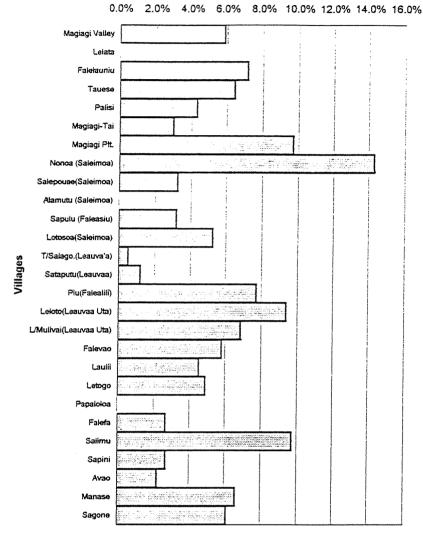
OALLAN TOTAL	1104	61	5.5%	1104	11	1.0%	
SAVAII TOTAL	1104	וסו	0.0%	1104	1 1	1.070	

TOTAL 4054 169 4.2% 4054 43 1.1%

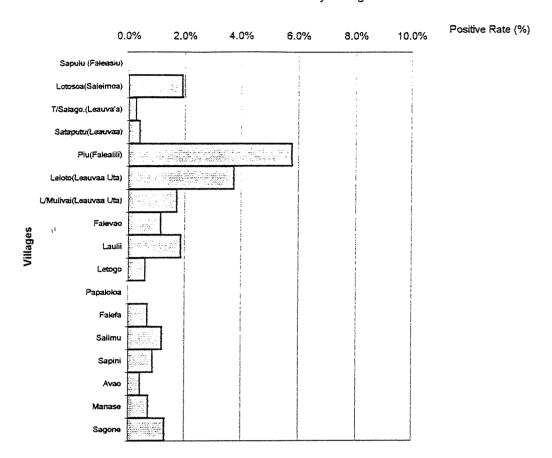
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Blood Survey 1998 Antigen Prevarence Rate by Village

, Positive Rate (%)



Blood Survey 1998 Mf Prevarence Rate by Village



COMPARISON BETWEEN ICT TEST & SLIDE TEST on Filariasis Blood Survey in Samoa 1998

		ICT+	ICT -	Total
	Cit da la		101	10(a)
i	Slide +	43	U	43
	Slide -	126 *	3885	4011
	Total	169	3885	4054

Total sample

4054

* : Non-mf Positive (low microfilaraemia, adult only or old case etc.) = 126 (74.6% of Total Positive)

Mf rate

1.06%

Mf density (Geometric mean) : 5.5

Antigenaemia

4.17%

Reliability

: ICT Positive / Total Positive x 100 = 100.0%

: Slide Positive / Total Positive x 100 = 25.4%

Relative sensitivity: ICT Positive / Slide Positive = 3.93

b8po-lst

Blood Survey 1998
List of Positive Cases

Magiagi valley	Village.	Name	_sex	x age	97 M D	A ICT	# of.mi	# mf recount	
2		Lipea Samu.							
Toetu Su		Liko Matiu	m	69	no	+	10	9	
5 Vitoria Falesuani f 7 + 0 0 6 Papaofo Fiafia m 24 + 0 0 7 Nuulau Asu f 36 + 0 0 8 Peata Kalepo f 29 + 0 0 9 Masinafou Upuese m 31 + 10 10 10 Upuese Vasega m 63 yes + 0 0 11 Samu Samu m 59 yes + 12 120 12 Atumauga Su m 25 yes + 12 12 12 Atumauga Su m 25 yes + 0 0 12 Atumauga Su m 21 yes + 0 0 12 Atumauga Su m 25 yes + 0 0 15 Puliqua Lauvao f 26	3	Miriama losua	f	3	yes	+	0	0	
5 Vitoria Falesuani f 7 + 0 0 6 Papaofo Fiafia m 24 + 0 0 7 Nuulau Asu f 36 + 0 0 8 Peata Kalepo f 29 + 0 0 9 Masinafou Upuese m 31 + 10 10 10 Upuese Vasega m 63 yes + 0 0 11 Samu Samu m 59 yes + 0 0 12 Atumauga Su m 25 yes + 2 1 13 Maa Fereti m 21 yes + 5 5 14 Falelauniu Faasavali Sefo m 69 yes + 0 0 15 Punipuao Lauvao f 26 yes + 0 0 16 Pola Galuega <td< td=""><td>4</td><td>Toetu Su</td><td>m</td><td>32</td><td></td><td>+</td><td>9</td><td>10</td><td></td></td<>	4	Toetu Su	m	32		+	9	10	
6 Papaofo Fiafia m 24 + 0 0 7 Nuulau Asu f 36 + 0 0 8 Peata Kalepo f 29 + 0 0 9 Masinafou Upuese m 31 + 10 10 10 Upuese Vasega m 63 yes + 0 0 11 Samu Samu m 59 yes + 123 120 12 Atumauga Su m 25 yes + 2 1 13 Maa Fereti m 25 yes + 2 1 13 Maa Fereti m 25 yes + 0 0 15 Punipuao Lauvao f 26 yes + 0 0 15 Punipuao Lauvao f 26 yes + 0 0 15 Punipuao Lauvao f </td <td>5</td> <td>Vitoria Falesuani</td> <td>f</td> <td>7</td> <td></td> <td>+</td> <td>0</td> <td></td> <td></td>	5	Vitoria Falesuani	f	7		+	0		
Nuulau Asu	6	Papaofo Fiafia	m	24		+			
Real Mainafou Upuese m 31	7	· · · · · · · · · · · · · · · · · · ·	f	36		+			
Masinafou Upuese	8	Peata Kalepo	f						
10	9	·	m	31		+	10		
11	10	•	m	63	ves	+			
Atumauga Su	11		m	59	-	+			
13 Maa Fereti m 21 yes + 5 5 14 Falelauniu Faasavali Sefo m 69 yes + 0 0 15 Punipuao Lauvao f 26 yes + 0 0 16 Pola Galuega m 24 no + 8 8 17 Tausala Faasavala f 39 no + 0 0 18 Fua Tagaloa f 21 yes + 0 0 19 Lauvao Maiava m 23 no + 0 0 20 Tauese Leti Tuia m 42 yes + 0 0 21 Faamanu Sianava f 40 yes + 0 0 22 Loua Fetalaiga m 26 yes + 0 0 23 Seia Moleli f 17 no + 82 87 24 Junior Warren m 20 yes + <td>12</td> <td>•</td> <td>m</td> <td></td> <td>_</td> <td>+</td> <td></td> <td></td> <td></td>	12	•	m		_	+			
Fasavali Sefo	13	Maa Fereti	m		-	+			
15	14 Falelauniu	Faasavali Sefo	m	69	-	+			
16	15	Punipuao Lauvao	f	26	-	+			
17 Tausala Faasavala f 39 no + 0 0 18 Fua Tagaloa f 21 yes + 0 0 19 Lauvao Maiava m 23 no + 0 0 20 Tauese Leti Tuia m 42 yes + 0 0 21 Faamanu Sianava f 40 yes + 0 0 22 Loua Fetalaiga m 26 yes + 0 0 23 Seia Moleli f 17 no + 82 87 24 Junior Warren m 20 yes + 0 0 25 Palisi Paulia Pule f 49 yes + 0 0 26 Palepa Konelio f 4 yes + 0 0 27 Gasolo Kalolo f 53 yes + 0 0 28 Magiagi tai Vaise Lapalapa f 61 <td< td=""><td>16</td><td></td><td>m</td><td>24</td><td>-</td><td>+</td><td></td><td></td><td></td></td<>	16		m	24	-	+			
18	17	Tausala Faasavala	f	39	no	+			
19	18	Fua Tagaloa	f	21	yes	+			
20 Tauese Leti Tuia m 42 yes + 0 0 21 Faamanu Sianava f 40 yes + 0 0 22 Loua Fetalaiga m 26 yes + 0 0 23 Seia Moleli f 17 no + 82 87 24 Junior Warren m 20 yes + 0 0 25 Palisi Paulia Pule f 49 yes + 0 0 26 Palepa Konelio f 4 yes + 0 0 27 Gasolo Kalolo f 53 yes + 0 0 28 Magiagi tai Vaise Lapalapa f 61 yes + 0 0 29 Tumusa Tumusa m 74 yes + 0 0 30 Ataga Laloata m 76 yes + 0 0 31 Ataga Laloata m 76 yes	19		m	23	no	+	0		
21 Faamanu Sianava f 40 yes + 0 0 22 Loua Fetalaiga m 26 yes + 0 0 23 Seia Moleli f 17 no + 82 87 24 Junior Warren m 20 yes + 0 0 25 Palisi Paulia Pule f 49 yes + 0 0 26 Palepa Konelio f 4 yes + 0 0 26 Palepa Konelio f 4 yes + 0 0 27 Gasolo Kalolo f 53 yes + 0 0 28 Magiagi tai Vaise Lapalapa f 61 yes + 0 0 29 Tumusa Tumusa m 74 yes + 0 0 31 Ataga Laloata m 76 yes + 0 0 32 Palolo lefata f 31 yes <t< td=""><td>20 Tauese</td><td>Leti Tuia</td><td>m</td><td>42</td><td>yes</td><td>+</td><td></td><td></td><td></td></t<>	20 Tauese	Leti Tuia	m	42	yes	+			
Seia Moleli f 17 no + 82 87		Faamanu Sianava	f	40	yes	+	0		
24 Junior Warren m 20 yes + 0 0 25 Palisi Paulia Pule f 49 yes + 0 0 26 Palepa Konelio f 4 yes + 0 0 27 Gasolo Kalolo f 53 yes + 0 0 28 Magiagi tai Vaise Lapalapa f 61 yes + 0 0 29 Tumusa Tumusa m 74 yes + 0 0 30 Ataga Uelese f 65 yes + 0 0 31 Ataga Laloata m 76 yes + 0 0 32 Palolo lefata f 31 yes + 0 0 34 Fetaai Tutogi m 24 yes + 0 0 35 Saolotoga Tumusa m 18 yes + 0 0 36 Magiagi Plt. Lamauta Masofa m 60 yes		Loua Fetalaiga	m	26	yes	+ `	0	0	
25 Palisi		Seia Moleli	f	17	no	+	82	87	
26 Palepa Konelio f 4 yes + 0 0 27 Gasolo Kalolo f 53 yes + 0 0 28 Magiagi tai Vaise Lapalapa f 61 yes + 0 0 29 Tumusa Tumusa m 74 yes + 0 0 30 Ataga Uelese f 65 yes + 0 0 31 Ataga Laloata m 76 yes + 0 0 32 Palolo lefata f 31 yes + 0 0 34 Fetaai Tutogi m 9 yes + 0 0 35 Saolotoga Tumusa m 18 yes + 0 0 36 Magiagi Plt. Lamauta Masofa m 60 yes + 0 0 37 Aiga Siaki f 29 no + 0 0 38 Setefano Pesa m 25 no		Junior Warren	m	20	yes	+	0	0	
27 Gasolo Kalolo f 53 yes + 0 0 28 Magiagi tai Vaise Lapalapa f 61 yes + 0 0 29 Tumusa Tumusa m 74 yes + 0 0 30 Ataga Uelese f 65 yes + 0 0 31 Ataga Laloata m 76 yes + 0 0 32 Palolo lefata f 31 yes + 0 0 34 Fetaai Tutogi m 9 yes + 0 0 35 Saolotoga Tumusa m 18 yes + 0 0 36 Magiagi Plt. Lamauta Masofa m 60 yes + 0 0 37 Aiga Siaki f 29 no + 0 0 38 Setefano Pesa m 25 no + 0 0		Paulia Pule	f	49	yes	+	0	0	
28 Magiagi tai Vaise Lapalapa f 61 yes + 0 0 29 Tumusa Tumusa m 74 yes + 0 0 30 Ataga Uelese f 65 yes + 0 0 31 Ataga Laloata m 76 yes + 0 0 32 Palolo lefata f 31 yes + 0 0 33 John Mauia m 9 yes + 0 0 34 Fetaai Tutogi m 24 yes + 0 0 35 Saolotoga Tumusa m 18 yes + 0 0 36 Magiagi Plt. Lamauta Masofa m 60 yes + 0 0 37 Aiga Siaki f 29 no + 0 0 38 Setefano Pesa m 25 no + 0 0		Palepa Konelio	f	4	yes	+	0	0	
29 Tumusa Tumusa m 74 yes + 0 0 30 Ataga Uelese f 65 yes + 0 0 31 Ataga Laloata m 76 yes + 0 0 32 Palolo lefata f 31 yes + 0 0 33 John Mauia m 9 yes + 0 0 34 Fetaai Tutogi m 24 yes + 0 0 35 Saolotoga Tumusa m 18 yes + 0 0 36 Magiagi Plt. Lamauta Masofa m 60 yes + 0 0 37 Aiga Siaki f 29 no + 0 0 38 Setefano Pesa m 25 no + 0 0		Gasolo Kalolo	f	53	yes	+	0	0	
30 Ataga Uelese f 65 yes + 0 0 31 Ataga Laloata m 76 yes + 0 0 32 Palolo lefata f 31 yes + 33 John Mauia m 9 yes + 0 0 34 Fetaai Tutogi m 24 yes + 0 0 35 Saolotoga Tumusa m 18 yes + 0 0 36 Magiagi Plt. Lamauta Masofa m 60 yes + 0 0 37 Aiga Siaki f 29 no + 0 0 38 Setefano Pesa m 25 no + 0 0		Vaise Lapalapa	f	61	yes	+	0	0	
31		Tumusa Tumusa	m	74	yes	+	0	0	
32		Ataga Uelese	f		yes	+	0	0	
33		Ataga Laloata	m	76	yes	+	0	0	
34 Fetaai Tutogi m 24 yes + 0 0 35 Saolotoga Tumusa m 18 yes + 0 0 36 Magiagi Plt. Lamauta Masofa m 60 yes + 0 0 37 Aiga Siaki f 29 no + 0 0 38 Setefano Pesa m 25 no + 0 0			f		yes	+			
35 Saolotoga Tumusa m 18 yes + 0 0 36 Magiagi Plt. Lamauta Masofa m 60 yes + 0 0 37 Aiga Siaki f 29 no + 0 0 38 Setefano Pesa m 25 no + 0 0			m		yes	+	0	0	
36 Magiagi Plt. Lamauta Masofa m 60 yes + 0 0 37 Aiga Siaki f 29 no + 0 0 38 Setefano Pesa m 25 no + 0 0			m	24	yes	+	0	0	
37 Aiga Siaki f 29 no + 0 0 38 Setefano Pesa m 25 no + 0 0			m		yes	+			
38 Setefano Pesa m 25 no + 0 0					yes	+			
		_	f		no	+			
00.11					no	+			
39 Nono'a Tuala Masuisui m 66 yes + 0 0					yes	+			
40 Siula Saaga f 30 no + 0 0		_				+			
41 Titae Tuaiautago f 87 no + 0 0								-	
42 Nika Savelio f 27 yes + 0 0 43 Tilialo Viliamu m 64 yes + 6 7									
					-				
Misipati Savelio m 11 yes + 0 0		•							
Titae Misipati f 20 yes + 0 0 Samauga Misipati f 13 yes + 0 0		•			_				
		_ ,			-				
The second of th					-			=	
					-				
Moli Pula m 65 yes + 0 · 0	τ υ	won ruia	m	UÜ	yes	Τ	υ.	U	

	50	Tagi Taiulu	n	n 71	ves	+	0	0
	51	Sinapati Faalele	n		yes	+	Ö	0
	52	Faalava Lauava	n		yes	+	Ō	Ö
	53	Togipo Tauiliili	m	i 58	yes	+	0	Õ
	54	Vitale Maselino	m	26	yes	+		•
	55	Anetelea Emelio	m	21	yes	+	0	0
	56	Vatitaga Moli	f	27	yes	+	0	0
	57	Lea Kilika	m	44	yes	+	0	0
	58	Lauama Lualua	m	32	yes	+	0	0
	59 Salepoua'e	Lamuola Luata	f	39	no	+		
	60	Lilai Tauielu	f	6	yes	+		
	61	Faananafu Puou	f	5	yes	+		
	62	Lole Nikolao	m	2	yes	+		
	63	Ioane Taulemago	m	20	yes	+	0	0
	64 Sapulu (Faleasi'	u) Alan Taumafai	m	13	yes	+	0 -	0
	65	Apulu Filipo	m	65	yes	+	. 0	0
	66	Lavi Moala	m	11	no	+	0	0
	67 Lotoso'a	Leitutolu Lautoa	m	37	no	+	0	0
	68	Alani loane	f	3	yes	+	0	0
•	69	Sagele Kimai	m	34	yes	+	0	0
	70	Koreti Falefa	f	37	yes	+	0	0
	71	Olita Samu	f	15	yes	+	0	0
	72	Andy Lauina	m	9	yes	+	14	14
	73	Lauina Maui	m	40	yes	+	0	0
	74	Maria Pio	f	36	yes	+	1	1
	75	Mativa Moemai	m	45	yes	+	0	0
	76	Sio Silao	m	44	no	+	15	15
	77	Sio Lauina	m	17	no	+	17	18
	78 T & S/ Leauva'a	Pelenise Sefo	m	9	yes	+	0	0
	79	Vaasili loane	m	51	yes	+	3	16
	80 Sataputu (Leauv	a Sina Gafa	f	36	no	+	1	1
	81	Kamila Tevaga	f	41	no	+	0	0
	82	Rita Vaifale	f	23	yes	+	0	0
	83 Piu (Falealili)	Leleiga losua	m	4	no	+	37	60
	84	Fala losua	f	32	no	+	21	25
	85	Uale Manu	m	47	yes	+	1	4
	86	Talimalo Taufao	m	31	yes	+	0	0
	87 Leloto(Leauvaa l		f	17	no	+	7	8
	88	Gasio Ili	m	60	no	+	0	0
	89	Ivoga Tualasea	f	56	yes	+	0	0
	90	Feau Isitolo	m	16	no	+	0	0
	91	Tuuaga Asalemo	m	18	yes	+	0	0
	92	Falaniko Ekenasio	m	23	yes	+	17	16
	93	Fagaloia Vaa	m	35	yes	+	30	29
	94	Salevaga Salevaga	m	5	yes	+	0	0
	95	Ioane Tusitala	m	5	yes	+	0	0
	96	Talia Tusitala	f	32	yes	+	42	32
	97 L/Mulivai(Leauva		f	20	yes	+	0	0
	98	Ioane Limu	m	-33	yes	+	0	0
	99	Alope Vaifale	m	27	yes	+	15	15
	00	Nia Faaleo	f	4	yes	+	0	0
	01	Safua Vailolo	f	65	yes	+	0	0
	02	Sefo Lemi	m	4	yes	+	0	0
	03	Falaniko Tina	m	5	yes	+	0	0
	04 05	Lemi Lui	m	56	yes	+	1	1
l	05 Falevao	Tului Tavita	m	5	yes	+	0	0

106	Depra Filia	f	4	yes	+	0	0	
107	Lemalie Pepa	f	8	yes	+	0	Ō	
108	Timena Tavita	f	21	yes	+	Ō	Ö	
109	Malae Seuao	f		yes	+	Ö	Ö	
110	Saita Sialii	m		yes	+	2	2	
111	Taualagi Lepupa	m		yes	+	0		
112	Tialata Sae	m	4.0	•	+		0	
113	Meki Filo			yes		0	0	
114		m		yes	+	0	0	
115	Leata Natano	f		yes	+	3	3	
116	Patira Eti	f	33	yes	+	0	0	
	Eleele Matagi	f	30	yes	+	0	0	
117	Orita Natano	f	17	yes	+	0	0	
118	Tailua Faavae	f	30	yes	+	. 0	0	
119	Titiona Fiatagata	m	17	yes	+	1	1	
120 Laulii	Fuatimau Matulino	m	61	yes	+	3	4	
121	Tuautu Lemauai	m	65	yes	+	0	0	
122	Tupulua Sakalia	f	77	yes	+	0	0	
123	Isamaeli Fomai	m	13	yes	+	0	ō	
124	Petelo Senetenari	m	11	yes	+	4	4	
125	Suliasi Omani	m	10	yes	+	0	0	
126	Vaitului Faamao		9	•	+	-		
127	Iliui Faamau	m f	8	yes		0	0	
128	Peti Maga			yes	+	0	0	
129	~	m	7	no	+	4	3	
	Terisa Ailolo	f	6	yes	+	0	0	
130	Lili Isaia	f	42	yes	+	0	0	
131	Siela Miti	f	36	yes	+	0	0	
132	Taala Vao	m	53	yes	+	0	0	
133	Petelo Lalofau	m	27	no	+	2	2	
134	Solofua losefo	f	16	yes	+	15	15	
135	Tuiaiafi Fuamatu	m	36	no	+	48	49	
136	Lalofau Vao	m -	51	yes	+	5	6	
137 Letogo	Maluletaua Faasoi	m	65	yes	+	0	Ō	
138	Simi Uolo	m	19	yes	+	Ō	Ö	
139	Falagaitaua Finai	m	40	no	+	ŏ	Õ	
140	Fia Lio	f	33	yes	+	0	Ö	
141	Fono Fasi	m	3	ves	+	0	0	
142	Lofimua Galo		73	•	+		-	
143	Tina Faasoi	m f	26	yes		0	0	
144	Lealafale Timo	f		yes	+	0	0	
145	Siutaliu Aleta	f	4	yes	+	0	0	
146			67	yes	+	0	0	
147	Taoatafa Isala	m	33	yes	+	14	16	
	Alesana Faasoi	m	28	yes	+	0.	0	
148	Tualele Vaelua	f	5	yes	+	0	0	
149	Sepola Toetu	m	9	yes	+	0	0	
150	Tauasone Filipo	m	9	yes	+	0	0	
151	Tauola loane	m	31	yes	+	0	0	
152	Esekia Finai	m	16	yes	+	7	7	
153 Falefa	Valaautasi Tai	m	28	yes	+	1	1	
154	Loau Konelio	m	40	yes	+	7	5	
155	Taoa Mauga	f	10	yes	+	0	0	
156	Kirisome Kirisome	m	11	yes	+	0	0	
157	Meauli Taufao	m	12	yes	+	0	Ō	
158	Ake Rimoni	f	6	yes	+	Ō	Ö	
159	Nina Siona	f	8	yes	+	o o	Ō	
160	Mareko Lafaele	m m	13	yes	+	Ö	Ö	
161	Solomona Misi	m	12	yes	+	0	ő	
		•••	-	,		•	U	

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162	Nina Tui	f		yes	+	0	0
163	Faatasiga Ofoia	f		yes	+	0	0
164	Anetelea Leasu	m		yes	+	1	1
165	Tauofe Ofoia	m	57	yes	+	21	19
166	Ioane Tuuau	m	36	yes	+	0	0
167	Rasela Tuiai	f	52	yes	+	0	0
168	Asoone Matiasi	f	25	yes	+	0	0
169	Tuiai Leutele	m	50	yes	+	12	14
170	Maimau Reupena	f	40	yes	+	0	0
171	Tomi Makalio	m	26	yes	+	0	Ō
172 Salimu(Faga)	Lilo Toiva P	m	64	yes	+	Ö	Ŏ
173	Vaamailalo Luaao	m	53	yes	+	Õ	Ő
174	Taua Toso T.	m	54	yes	+	0	0
175	Oloivaa Falaniko	m	43	yes	+	0	. 0
176	Emelio Tuiavii	m	39	-	+	0	
177	Toala Lama		61	yes		_	0
178		m		yes	+	0	0
179	Vaimauli Taua	f	49	yes	+	0	0
	Uelese Luaao	m	26	yes	+	0	0
180	Pama Amituanai	m	45	yes	+	0	0
181	Teletala Samuelu	f	41	yes	+	0	0
182	Luisa Fagufagu	f	41	yes	+	0	0
183	Sikuli Aiga	m	50	yes	+	0	0
184	Faamailalo Fatu	m	69	yes	+	0	. 0
185	Simona Amituanai	m	42	yes	+	0	0
186	Opati Samuelu	m	10	yes ·	+	6	6
187	Tilali Toleafoa	f	78	yes	+	1	1
188 Sapini (Faga)	Kirisimasi Faaoloviti	m	32	yes	+	34	32
189	Unasa Saio	m	67	yes	+	0	0
190	Taunuu Unasa	m	45	yes	+	Ö	Ö
191 Avao	Tavita Galuvao	m	36	yes	+	Ö	Ö
192	Malaetia Pousoo	m	42	yes	+	Ö	0
193	Neli Hicks	f	16	no	+	28	27
194	John Leota	m	25		+	0	0
195	Fiamaua Toamose	f	12	yes	+	0	
196 Manase	Tauveve Sufia	f	30	yes			0
197			58	yes	+	0	0
198	Lemana Tapusina	m		yes	+	1	1
	Tauasa Laumaua	m	48	yes	+	0	0
199	Tusi Lemana	m	48	yes	+	0	0
200	Vailala Sio	f	23	yes	+	0	0
201	Sitivi Sufia S	m	25	yes	+	0	0
202	Sauni Gaono L	m	27	yes	+	0	0
203	lupeli Lemana	m	22	yes	+	0	0
204	Risati Lemana	m	9	yes	+	0	0
205 Sagone	Leilua Tiuli	m	79	yes	+	0	0
206	Fala Tupai S	m	21	no	+	0	0
207	Tavai Lesoa	f	61	yes	+	0	0
208	Faitotoa Tupai S	f	48	yes	+	0	0
209	Liumafaga Momoe	_m	57	yes	_+	0	0
210	Saomalie Lesoa	f	22	yes	+	0	0
211	Faamata Siona	m	22	no	+	6	4
212	Silia Tupai	f	19	no	+	ő	0
213	Tautifa Vaasili	f	36	yes	+	Ö	0
214	Sau Fuifatu	f	3	yes	+	0	0
215	Tapuai Sasa	m	53	yes	+	0	0
216	Moira Samaauga	f	26	-	+	0	0
217	Pemita Lesoa F	f	55	yes		0	0
em i f	i chiita Lesoa F	ı	JJ	yes	+	U	U

218	Tapuai Fuifatu	m	34	yes	+	1	3
219	Tapuai Solomona	m	52	yes	+	0	0
220	Ruth Tupu	f	2	yes	+	0	0
221	Fati Leleai	f	43	yes	+	0	0
222	Akey Luagalau	m	7	yes	+	0	0
223	Samoeleoi Leilua	m	32	no	+	0	0
224	Misipele Siona	m	12	yes	+	0	0
225	Tausii Telea	m	21	yes	+	6	4
226	Sefo Lesoa F	m	19	yes	+	39	42
227	Siaosi Aneti	m	28	yes	+	0	0
228	Levi Tupai L	m	27	yes	+	0	0
229	TusiupuTautasi	m	29	yes	+	1	4
230	Tei Leilua M	m	27	yes	+	0	0
231	Viali Sakalia	m	28	no	+	0	0
232	Eteuati Lautafi	m	26	yes	+	1	1

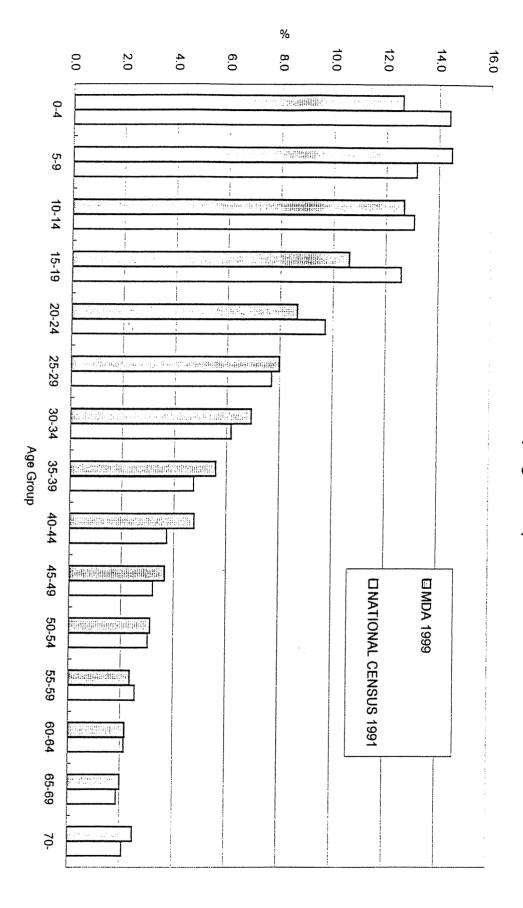
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MASS DRUG ADMINISTRATION, 1999 Treated Population & National Census 1991 by Age Group and Sex

AGE			MDA	1999				NAT	IONAL C	ENSUS	1991	
GROUP	MALE	%	FEML	%	TOTAL	%	MALE	%	FEML	%	TOTAL	%
0-4	9652	12.4	8747	12.8	18399	12.6	12076	14.3	11169	14.6	23245	14.4
5-9	11093	14.3	10064	14.7	21157	14.5	11169	13.2	10008	13.0	21177	13.1
10-14	9707	12.5	8788	12.9	18495	12.7	11086	13.1	9961	13.0	21047	13.0
15-19	8496	11.0	6978	10.2	15474	10.6	10999	13.0	9281	12.1	20280	12.6
20-24	7093	9.1	5531	8.1	12624	8.6	8707	10.3	6940	9.0	15647	9.7
25-29	6360	8.2	5274	7.7	11634	8.0	6586	7.8	5789	7.5	12375	7.7
30-34	5621	7.2	4460	6.5	10081	6.9	5155	6.1	4772	6.2	9927	6.2
35-39	4311	5.6	3832	5.6	8143	5.6	3874	4.6	3769	4.9	7643	4.7
40-44	3669	4.7	3286	4.8	6955	4.8	3015	3.6	2994	3.9	6009	3.7
45-49	2843	3.7	2483	3.6	5326	3.6	2585	3.1	2594	3.4	5179	3.2
50-54	2262	2.9	2287	3.3	4549	3.1	2437	2.9	2443	3.2	4880	3.0
55-59	1747	2.3	1677	2.5	3424	2.3	2096	2.5	1993	2.6	4089	2.5
60-64	1631	2.1	1536	2.2	3167	2.2	1730	2.0	1722	2.2	3452	2.1
65-69	1397	1.8	1504	2.2	2901	2.0	1537	1.8	1450	1.9	2987	1.9
70-	1703	2.2	1920	2.8	3623	2.5	1549	1.8	1812	2.4	3361	2.1
TOTAL	77585	100.0	68367	100.0	145952	100.0	84601	100.0	76697	100.0	161298	100.0



MASS DRUG ADMINISTRATION, 1999 Treated Population & National Census 1991 by Age Group

m9a-pop-g

mda99sum

MASS DRUG ADMINISTRATION, 1999 SUMMARY Coverage by District

DISTRICT	R/Bks	DEC	Alb.	Families	Pop	Trtd	N/Trtd	Coverage
Vaimauga Sasae	37	33995	5525	572	5654	5525	129	97.7%
Vaimauga Sisifo	15	14038	2242	247	2356	2242	114	95.2%
Vaimauga Saute	26	21790	3508	369	3627	3508	119	96.7%
Vaimauga Centre	36	32143	4936	537	5078	4936	142	97.2%
Faleata Sasae	39	32447	5125	559	5226	5125	101	98.1%
Faleata Sisifo	41	33022	5446	569	5648	5446	202	96.4%
Faleata Centrè	37	29265	4700	555	4894	4700	194	96.0%
Apia Centre	24	20995	3346	392	3425	3346	79	97.7%
Faleata Plantation No. 1	20	17191	2759	302	2809	2759	50	98.2%
Faleata Plantation No. 2	32	25037	3996	465	4105	3996	109	97.3%
Afega	42	55778	9008	845	9322	9008	314	96.6%
Leulumoega	60	71684	11365	1192	11712	11365	347	97.0%
Falelatai	36	44164	7106	677	7462	7106	356	95.2%
Lefaga	20	17030	2730	320	2909	2730	179	93.8%
Fusi(Safata)	42	43394	7132	713	7563	7132	431	94.3%
Poutasi(Falealili)	28	27917	4430	445	4636	4430	206	95.6%
Lalomanu(Aleipata)	46	47317	7828	826	8533	7828	705	91.7%
Fagaloa	9	8984	1454	147	1544	1454	90	94.2%
Lufilufi	44	45410	7208	736	7536	7208	328	95.6%
Upolu Total	634	621601	99844	10468	104039	99844	4195	96.0%
Tuasivi	41	67140	11177	1225	11799	11177	622	94.7%
Fagamalo	21	23716	3840	406	4055	3840	215	94.7%
Safotu	29	27793	4600	493	4776	4600	176	96.3%
Sataua	38	39601	6455	681	6723	6455	268	96.0%
Foailalo	30	34803	5818	659	6014	5818	196	96.7%
Palauli/Satupaitea	24	40202	6686	764	7025	6686	339	95.2%
Savaii Total	183	233255	38576	4228	40392	38576	1816	95.5%
Booth/Others	22	50622	7532	34	7591	7532	59	99.2%
Grand Total	839	905478	145952	14730	152022	145952	6070	96.0%

Registration Population/National Population: 94.2% Treated Population/National Population: 90.5%

Note: National Population = 161298 (Quoted from National Census 1991)

MASS DRUG ADMINISTRATION. 1999 BREAKDOWN OF NOT TREATED POPULATION

m9ntr

by District

District	Families	Pop	Trtd	N/Trtd	Preg	Sick	Baby	Old	O/seas
Vaimauga Sasae	572	5654	5525	129	62	3	· 46	1	17
Vaimauga Sisifo	247	2356	2242	114	16	7	72	1	18
Vaimauga Saute	369	3627	3508	119	40	5	29	1	44
Vaimauga Centre	537	5078	4936	142	40	5	49	3	45
Faleata Sasae	559	5226	5125	101	38	2	45	2	14
Faleata Sisifo	569	5648	5446	202	64	11	58	14	55
Faleata Centre	555	4894	4700	194	64	4	82	13	31
Apia Centre	392	3425	3346	79	36	0	17	3	23
Faleata Plantation No. 1	302	2809	2759	50	24	4	16	1	5
Faleata Plantation No. 2	465	4105	3996	109	48	5	44	2	10
Afega	845	9322	9008	314	125	13	114	7	55
Leulumoega	1192	11712	11365	347	144	11	87	7	98
Falelatai	677	7462	7106	356	92	4	192	12	56
Lefaga	320	2909	2730	179	50	9	61	2	57
Fusi(Safata)	713	7563	7132	431	115	4	138	2	172
Poutasi(Falealili)	445	4636	4430	206	69	Q	97	2	38
Lalomanu(Aleipata)	826	8533	7828	705	111	11	128	2	453
Fagaloa	147	1544	1454	90	22	2	39	2	25
Lufilufi	736	7536	7208	328	104	12	131	9	72
Upolu Total	10468	104039	99844	4195	1264	112	1445	86	1288
Tuasivi	1225	11799	11177	622	152	43	241	27	159
Fagamalo	406	4055	3840	215	53	2	135	3	22
Safotu	493	4776	4600	176	45	1	113	1	16
Sataua	681	6723	6455	268	83	9	72	8	94
Foailalo	659	6014	5818	196	57	12	60	7	60
Palauli/Satupaitea	764	7025	6686	339	92	7	181	0	59
Savaii Total	4228	40392	38576	1816	482	74	802	46	410
Booth/Others	34	7591	7532	59	19	1	39	0	0
Grand Total	14730	152022	145952	6070	1765	187	2286	132	1698

FILARIASIS CONTROL PROJECT IN SAMOA 1964-1999 BLOOD SURVEY AND MDA

PROJECT	YEAR			BLOOD SURVEY				MDA***
		METHOD*	VILLAGES	NO.EXAMINED	MF%	MFD**	CT%	
PHASE 1;	1964	FP20		2077	21.1	19		
CONTROL	1965	FP20	21	10129	19.1	24		
	1966							1
	1967	FP20		42697	1.63	2.7	1	
	1968	FP60		5371	1.32	4.8	ļ	
	1969	FP60		7393	1.74	7.6		ŀ
	1970							
	1971							11
	1972	FP60		6361	0.24			
	1973	FP60		5145	0.14			
	1974	FP60		30272	0.33			
	1975	FP60		11499	2.12		1	
PHASE 2;	1976	FP60		3649	1.43			
RESEARCH	1977							
	1978						1	
	1979	FP60	28	8385	3.83	18.6	1	
PHASE 3;	1980							
OPERATION	1981							
	1982	FP60	27	10361	5.25	20.2		111
	1983		27	9627	4.17	9.4		IV
	1984		34	11146	2.76	9.8]
	1985							
	1986		00	40700	0.00	0.0		V
	1987	FP60	26	13708	2.33	9.2		
	1988							
	1989		•		-			- Landard State Control of the Contr
	1990					[1
PHASE 4;	1991 1992					į		Address of the Control of the Contro
ERADICATION		FP60	32	10256	4.33	11.8		VI
LIGITION	1994	FP60	30	10112	2.23	11.7		VII
	1995	FP60	23	4551	1.89	6.8		VIII
	1996	FP60	31	5997	2.22	11.5		iX
	1997	FP60	29	8305	1.70	8.9		X
	1998	FP60 & ICT	17	4054	1.06	5.5	4.4	
	1999	ICT	27	7006	N/A	N/A	4.7	XI
		. = .						

^{* :} Fingerprick blood smear with 20mm3 or 60mm3 blood to detect macrofilaria ICT card test to detect antigen, 100mm3 of fingerprick blood sample

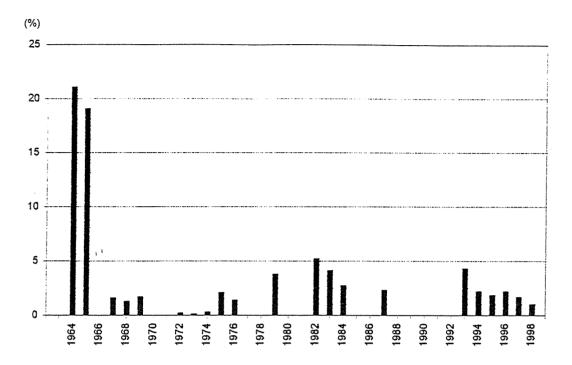
MDA IX,X; Combination regimen of ivermectin (200ug/kg) and DEC (6mg/kg)

MDA XI; Combination regimen of DEC (6mg/kg) and alnbendazole (400mg/person)

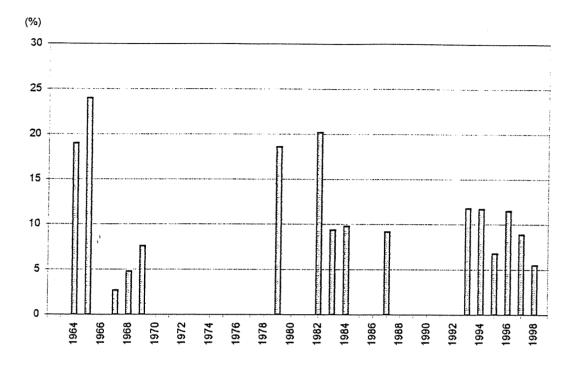
^{**: 1964-1987;} The median microfilarial density by the least squares method 1993-1998; Geometric mean

^{****:} MDA I & II; DEC multiple doses (12-18 doses) treatment MDA III,IV,V,VI & VII; DEC (6mg/kg) single dose treatment

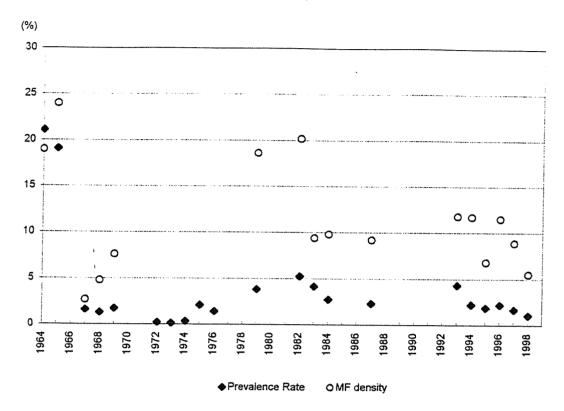
MF Prevalence Rate 1964 - 1998



MF Density 1964 - 1998



MF Prevalence Rate and Density 1964 - 1996



CHANGES IN MICROFILARIAE(MF) PREVALENCE. DENSITY, TRANSMISSION POTENTIAL AND ANTIGEN PREVALENCE 1993 - 1999

	1993	1994	1995	1996	1997	1998	1999
No.of examined	10256	10112	4551	5997	8305	4054	7006
No.of positives	444	225	86	133	141	43	317
Mf rate*							
Male	7.49	3.9	4.21	4.09	3.42	2.61	N/A
Female ,	1.99	1.01	0.63	1.17	0.49	0.58	N/A
Total	4.69	2.43	2.36	2.57	1.87	1.65	N/A
Mf density**							
Male	13.5	12.1	6.6	12.6	9.1	5.4	N/A
Female	8.0	10.5	8.2	9.4	8.1	5.8	N/A
Total	11.8	11.7	6.8	11.5	8.9	5.5	N/A
Infectivity index***							
to total polulation	1.29	0.63	0.42	0.66	0.49	0.22	N/A
Transmission index****	55.34	28.43	16.05	29.56	16.72	9.08	N/A
Antigen Prevalence*****							
Male	N/A	N/A	N/A	N/A	N/A	5.8	6.1
Female	N/A	N/A	N/A	N/A	N/A	3.2	2.9
Total	N/A	N/A	N/A	N/A	N/A	4.4	4.5

* : Rate adjusted to the standardized population, based on the 1991 census.

** : Geometric mean

: Infectivity index to total population(IITP),
Theoretical rate of infection of a vector population

fed on a human population, by applying log-normal distribution

**** : Transmission index(TI),

Prevalence rate x Average mf density

***** : ICT test

mb93~99-t

FILARIASIS CONTROL PROJECT IN SAMOA 1964-1999 BLOOD SURVEY AND MDA

PROJECT	YEAR					MDA***
		coverage^	MF%^^	MFD*	ICT%**	
			4.33			
ERADICATION	1993	83.3%	3.28	11.8		VI
			2.23			
	1994	67.2%	2.06	11.7		VII
			1.89			
	1995	80.1%	2.06	6.8		VIII
			2.22			
	1996	79.4%	1.96	11.5		IX
			1.70			
	1997	91.6%	1.38	8.9		Х
			1.06		4.40	
	1998	N/A		5.5	4.55	N/A
					4.70	
	1999	90.5%				ΧI

*:1993-1994; Geometric mean

1964-1987; The median microfilarial density by the least squares method

**:1998-1999; Newly introduced antigen detecting card test.

Rate adjusted to the standardized population, based on the 1991 census.

***: MDA I & II; DEC multiple doses (12-18 doses) treatment

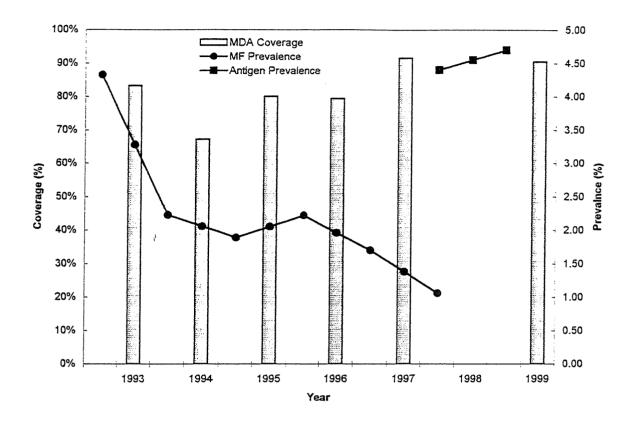
MDA III,IV,V,VI & VII; DEC (6mg/kg) single dose treatment

MDA IX,X; Combination regimen of ivermectin (200ug/kg) and DEC (6mg/kg)

MDA XI; Combination regimen of DEC (6mg/kg) and alnbendazole (400mg/person)

^: MDA coverage % of National Census1991

^: Rate adjusted to the standardized population, based on the 1991 census.



b5mf-nbln

FREQUENCY DISTRIBUTION OF MICROFILARIAL COUNTS 1995 AND CORRESPONDING NEGATIVE BINOMIAL DISTRIBUTION (MEAN TRUNCATED DISTRIBUTION = 14.209; EXPONENT = 0.3) AND LOG-NORMAL DISTRIBUTION (MEAN = 0.831; S.D. = 0.557)

	1 5	r			
Microfilarial	Observed		binomial		normal
count	frequency	Expected	Chi square	Expected	Chi square
1	16	14.087	0.260	10.313	3.136
2	3	8.850	3.867	8.474	3.536
3	10	6.558	1.807	7.286	1.011
4	4	5.229	0.289	6.149	0.751
5	7	4.346	1.620	5.205	0.619
6	1 ,	3.711	1.980	4.441	2.666
7	3 ,	3.228	0.016	3.822	0.177
8	2	2.847	0.252	3.317	0.523
9	2	2.537	0.114	2.902	0.280
10	3	2.281	0.227	2.556	0.077
11~20	16	14.514	0.152	14.819	0.094
21~30	7	7.172	0.004	6.335	0.070
31~40	5	4.027	0.235	3.337	0.828
41~50	2	2.403	0.067	1.981	0.000
51~60	2	1.485	0.178	1.271	0.418
61 [~] 70	1	0.940	0.004	0.863	0.022
71~80	1	0.605	0.258	0.611	0.248
81~90	σ	0.394	0.394	0.447	0.447
91~100	1	0.260	2.113	0.336	1.310
101~200	0	0.515	0.515	1.177	1.177
201~300	0	0.010	0.010	0.223	0.223
301~	0	0.002	0.002	0.135	0.135
TOTAL	86	86.000	14.364	86.000	17.748

0.8<P<0.9

0.6<P<0.7

b6mf-nbln

FREQUENCY DISTRIBUTION OF MICROFILARIAL COUNTS 1996 AND CORRESPONDING NEGATIVE BINOMIAL DISTRIBUTION (MEAN TRUNCATED DISTRIBUTION = 25.368; EXPONENT = 0.3) AND LOG-NORMAL DISTRIBUTION (MEAN = 1.062; S.D. = 0.563)

Microfilarial	Observed	Negative	binomial	Log	normal
count	frequency	Expected			Chi square
1	8	15.151	3.376	7.678	0.013
2	12	9.710	0.540	8.155	1.813
3	8	7.340	0.059	7.945	0.000
4	6	5.971	0.000	7.333	0.242
5	5	5.063	0.001	6.657	0.412
6	5 '	4.409	0.079	6.016	0.171
7	4	3.913	0.002	5.437	0.380
8	3	3.520	0.077	4.923	0.751
9	8	3.201	7.195	4.471	2.785
10	3	2.935	0.001	4.074	0.283
11~20	21	20.607	0.007	26.647	1.197
21~30	18	12.467	2.456	13.575	1.442
31~40	15	8.557	4.851	8.015	6.087
41~50	2	6.236	2.877	5.180	1.952
51~60	3	4.708	0.620	3.559	0.088
61~70	1	3.639	1.914	2.557	0.948
71~80	2	2.859	0.258	1.902	0.005
81~90	1	2.275	0.715	1.453	0.141
91~100	0	1.828	1.828	1.135	1.135
101~200	6	7.155	0.186	4.462	0.530
201~300	2	0.823	1.684	1.039	0.888
301 [~]		0.633	0.633	0.786	0.786
TOTAL	133	133.000	29.360	133.000	22.050

0.1<P<0.2

0.3<P<0.4

b7mf-nbln

FREQUENCY DISTRIBUTION OF MICROFILARIAL COUNTS 1997 AND CORRESPONDING NEGATIVE BINOMIAL DISTRIBUTION (MEAN TRUNCATED DISTRIBUTION = 29.369; EXPONENT = 0.3) AND LOG-NORMAL DISTRIBUTION (MEAN = 1.021; S.D. = 0.649)

Microfilarial	Observed	Negative	binomial	Log-	normal
count	frequency	Expected	Chi square	Expected	Chi square
1	16	16.019	0.000	13.609	0.420
2	13	10.267	0.727	10.165	0.791
3	8	7.762	0.007	8.846	0.081
4	6	6.314	0.016	7.655	0.358
5	10	5.355	4.030	6.668	1.665
6	5 ,	4.664	0.024	5.859	0.126
7	8	4.139	3.601	5.191	1.520
8	2	3.724	0.798	4.634	1.497
9	4	3.387	0.111	4.165	0.007
10	1	3.106	1.428	3.766	2.032
11~20	21	21.817	0.031	24.371	0.466
21~30	8	13.211	2.056	12.606	1.683
31~40	6	9.077	1.043	7.689	0.371
41~50	7	6.621	0.022	5.148	0.666
51~60	4	5.004	0.201	3.663	0.031
61~70	4	3.871	0.004	2.722	0.600
71~80	6	3.045	2.868	2.090	7.314
81~90	2	2.425	0.075	1.647	0.076
91~100	2	1.950	0.001	1.324	0.345
101~200	6	7.663	0.361	5.783	0.008
201~300	0	0.889	0.889	1.659	1.659
301~	2	0.689	2.494	1.740	0.039
TOTAL	141	141.000	20.786	141.000	21.755

0.4<P<0.5

0.4<P<0.5

b8mf-nbln

FREQUENCY DISTRIBUTION OF MICROFILARIAL COUNTS 1998 AND CORRESPONDING NEGATIVE BINOMIAL DISTRIBUTION (MEAN TRUNCATED DISTRIBUTION = 11.535; EXPONENT = 0.3) AND LOG-NORMAL DISTRIBUTION (MEAN = 0.738; S.D. = 0.574)

Microfilarial	Observed	Negative	binomial	Log-	normal
count	frequency	Expected	Chi square		Chi square
1	12	8.332	1.615	7.043	3.489
2	2	5.151	1.927	4.859	1.682
3	3	3.756	0.152	3.912	0.213
4	2	2.947	0.304	3.163	0.428
5	1 ,	2.410	0.825	2.596	0.981
6	3 ,	2.025	0.469	2.162	0.325
7	3	1.733	0.926	1.825	0.756
8	0	1.504	1.504	1.559	1.559
9	0	1.319	1.319	1.345	1.345
10	0	1.167	1.167	1.171	1.171
11~20	8	6.877	0.183	6.541	0.325
21~30	4	2.886	0.430	2.665	0.669
31~40	3	1.378	1.908	1.369	1.943
41~50	2	0.700	2.417	0.800	1.802
51~60	0	0.368	0.368	0.508	0.508
61~70	0	0.198	0.198	0.342	0.342
71~80	0	0.109	0.109	0.240	0.240
81~90	0	0.060	0.060	0.175	0.175
91~100	0	0.034	0.034	0.131	0.131
101~200	. 0	0.044	0.044	0.455	0.455
201~300	0	0.000	0.000	0.086	0.086
301 [~]	0	0.000	0.000	0.052	0.052
TOTAL	43	43.000	15.961	43.000	18.677

0.7<P<0.8 0.6<P<0.7

INFECTIVITY INDICES OF THE TOTAL POPULATION OF SAMOA IN 1995 ~ 1998

- BY APPLYING NEGATIVE BINOMIAL DISTRIBUTION

tives**
7 1998
3 8.3
0 8.3 3 5.2
3 2.9
4 2.4
0.0
0.0
0.0
43.0
1 43
0.20
7 2 1 1 7 1 4 1 1 3 6 2 2 1 1 5 0 0 0 0 0 1 0 1 0 43 1 40 7 813.

^{* :} Theoretical percentage of infected fed mosquitoes; Estimated from log(Y+1)=0.5278logX+0.1739 (where Y=%infected, X=mf count). Samarawickrema et al.(1985), Kimura et al.(1985)

^{** :} Estimation made by applying negative binomial distribution.

Theoretical rate of infection of a mosquito population fed on a human population.
 WHO Technical Report(1974), Sasa (1976)

iitp5~8-In

INFECTIVITY INDICES OF THE TOTAL POPULATION OF SAMOA IN 1995 \sim 1998

- BY APPLYING LOG-NORMAL DISTRIBUTION

	(A)		(B)		
Microfilarial	Mosquito			per of positives*	
count	Infection rate(%)*	1995	1996	1997	1998
1	7.6	10.3	7.7	13.6	7.0
2	10.3	8.5	8.2	10.2	4.9
3	12.4	7.3	7.9	8.8	3.9
4	14 1	6.1	7.3	7.7	3.2
5	15.6	5.2	6.7	6.7	2.6
6	16.9	4.4	6.0	5.9	2.2
7	18.1	3.8	5.4	5.2	1.8
8	19.2	3.3	4.9	4.6	1.6
9	20.3	2.9	4.5	4.2	1.3
10	21.2	2.6	4.1	3.8	1.2
11-20	28.9	14.8	26.6	24.4	6.5
21-30	34.7	6.3	13.6	12.6	2.7
31-40	39.5	3.3	8.0	7.7	1.4
41-50	43.6	2.0	5.2	5.1	0.8
51-60	47.3	1.3	3.6	3.7	0.5
61-70	50.7	0.9	2.6	2.7	0.3
71-80	53.8	0.6	1.9	2.1	0.2
81-90	56.7	0.4	1.5	1.6	0.2
91-100	59.4	. 0.3	1.1	1.3	0.1
101-200	81.0	1.2	4.5	5.8	0.5
201-300	97.1	0.2	1.0	1.7	0.1
300-	100.0	0.1	0.8	1.7	0.1
		85.8	133.1	141.1	43.1
Total number	of positives	86	133	141	43
Number of ex	•	4551	5997	8305	4054
Sum (A x B):	• •	1914.37	3799.57	4045.18	888.85
Infectivity inde	• •	0.42	0.66	0.49	0.22

^{* :} Theoretical percentage of infected fed mosquitoes; Estimated from log(Y+1)=0.5278logX+0.1739 (where Y=%infected, X=mf count). Samarawickrema et al.(1985), Kimura et al.(1985)

^{** :} Estimation made by applying log-normal distribution.

Theoretical rate of infection of a mosquito population fed on a human population.
 WHO Technical Report(1974), Sasa (1976)

b9a-pop-t

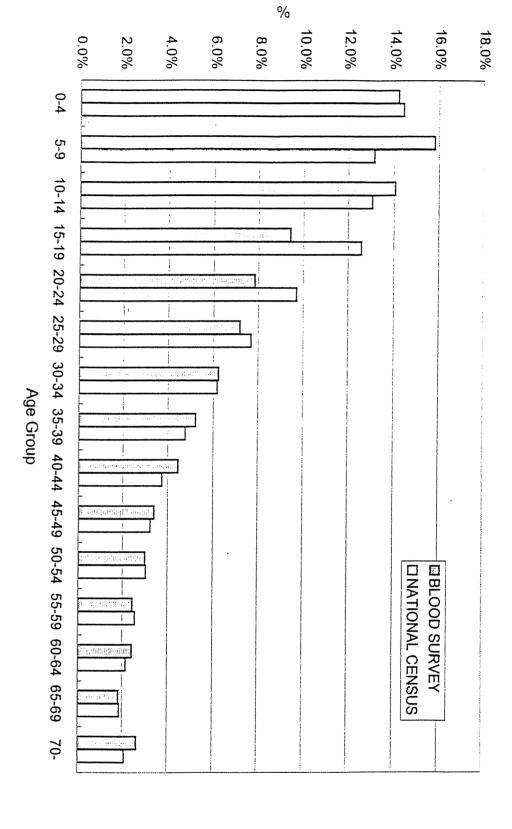
BLOOD SURVEY 1999, Samoa

BLOOD SURVEY 1999 AND NATIONAL CENSUS 1991
by Age Group & Sex

	BLOOD SURVEY								NATION	AL CEN	SUS	
}	MALE	%	FEMALE	%	TOTAL	%	MALE	%	FEMALE	%	TOTAL	%
0-4	501	14.2%	494	14.2%	995	14.2%	12076	14.3%	11169	14.6%	23245	14.4%
5-9	573	16.2%	534	15.4%	1107	15.8%	11169	13.2%	10008	13.0%	21177	13.1%
10-14		14.7%	466	13.4%	985	14.1%	11086	13.1%	9961	13.0%	21047	13.0%
15-19	369	10.4%	291	8.4%	660	9.4%	10999	13.0%	9281	12.1%	20280	12.6%
20-24	281	7.9%	268	7.7%	549	7.8%	8707	10.3%	6940	9.0%	15647	9.7%
25-29	253	7.2%	249	7.2%	502	7.2%	6586	7.8%	578 9	7.5%	12375	7.7%
30-34	212	6.0%	224	6.5%	436	6.2%	5155	6.1%	4772	6.2%	9927	6.2%
35-39	173	4.9%	192	5.5%	365	5.2%	3874	4.6%	3769	4.9%	7643	4.7%
40-44	139	3.9%	172	5.0%	311	4.4%	3015	3.6%	2994	3.9%	6009	3.7%
45-49	120	3.4%	117	3.4%	237	3.4%	2585	3.1%	2594	3.4%	5179	3.2%
50-54	91	2.6%	118	3.4%	209	3.0%	2437	2.9%	2443	3.2%	4880	3.0%
55-59	84	2.4%	86	2.5%	170	2.4%	2096	2.5%	1993	2.6%	4089	2.5%
60-64	80	2.3%	89	2.6%	169	2.4%	1730	2.0%	1722	2.2%	3452	2.1%
65-69	64	1.8%	63	1.8%	127	1.8%	1537	1.8%	1450	1.9%	2987	1.9%
70-	79	2.2%:	105	3.0%	184	2.6%	1549	1.8%	1812	2.4%	3361	2.1%
TOTA	3538 1	00.0%	3468 1	00.0%	7006 1	00.0%	84601	100.0%	76697 ⁻	100.0%	161298	100.0%



Blood Survey 1999, Samoa Blood Survey 1999 and National Census 1991 Age Group & Sex

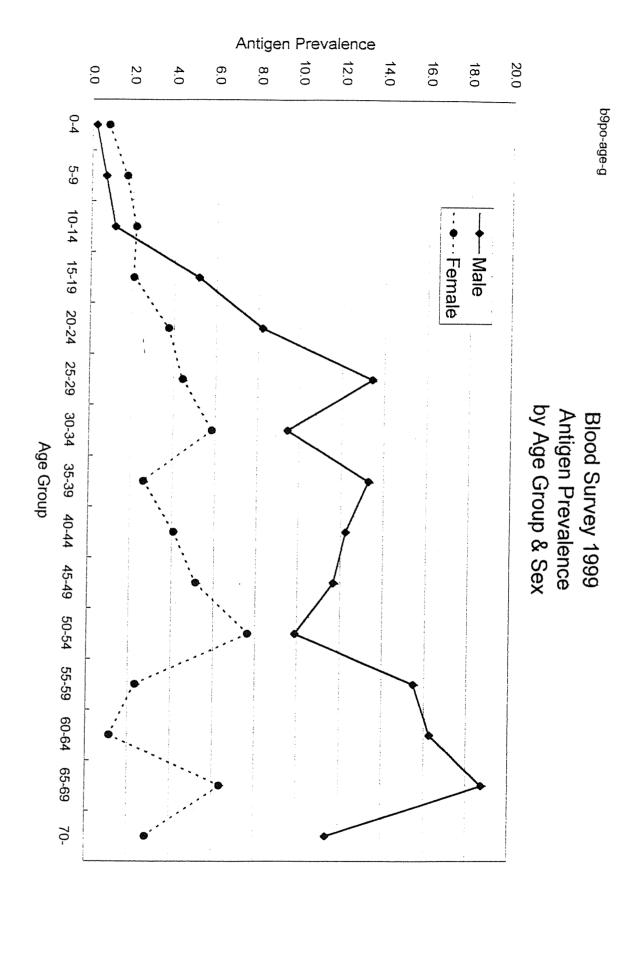


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b9po-age-t

BLOOD SURVEY 1999
Antigen Prevalence
by Age Group & Sex

AGE		MALE			FEMALE	:		TOTAL	
GROUP	SAMPLE	POSI	%	SAMPLE	POSI	%	SAMPLE	POSI	%
0-4	501	1	0.2	494	4	0.8	995	5	0.5
5-9	573	4	0.7	534	9	1.7	1107	13	1.2
10-14	519	6	1.2	466	10	2.1	985	16	1.6
15-19	369	19	5.1	291	6	2.1	660	25	3.8
20-24	281	23	8.2	268	10	3.7	549	33	6.0
25-29	253	34	13.4	249	11	4.4	502	45	9.0
30-34	212	20	9.4	224	13	5.8	436	33	7.6
35-39	173	23	13.3	192	5	2.6	365	28	7.7
40-44	139	17	12.2	172	7	4.1	311	24	7.7
45-49	120	14	11.7	117	6	5.1	237	20	8.4
50-54	91	9	9.9	118	9	7.6	209	18	8.6
55-59	84	13	15.5	86	2	2.3	170	15	8.8
60-64	80	13	16.3	89	1	1.1	169	14	8.3
65-69	64	12	18.8	63	4	6.3	127	16	12.6
70-	79	9	11.4	105	3	2.9	184	12	6.5
TOTAL	3538	217	6.1	3468	100	2.9	7006	317	4.5



b9po-vil-t

BLOOD SURVEY 1999, SAMOA
Antigen Prevalence by Village

Village	exmd	posi	%
Matautu uta	94	0	0.0%
Tapatapao	133	1	0.8%
Seesee Tai	125		1.6%
Aleisa East	368	5	1.4%
Aleisa West	572	18	3.1%
Lotopa(Tokelau)	234	4	1.7%
Vaivase Uta (T)	606	5	0.8%
Aele Fou	338	21	6.2%
Vailuutai	612	31	5.1%
Lepale	265	34	12.8%
Siufaga Falelatai	433	10	2.3%
Lepuiai (Manono tai)	129	11	8.5%
Faleu (Manono Tai)	304	24	7.9%
Satoi (Manono Tai)	91	8	8.8%
Salua (Manono Tai)	119	4	3.4%
Apai (Manono Tai)	78	13	16.7%
Satuilagi (Manono- Tai)	105	6	5.7%
Apolima Tai	50	4	8.0%
Mauga	151	1	0.7%
Maota	190	3	1.6%
Satuiatua	238	14	5.9%
Paia	261	5	1.9%
Saleia	181	9	5.0%
Fatausi	214	8	3.7%
Matatufu	316	41	13.0%
Lalomauga	324	23	7.1%
Aufaga	475	12	2.5%
Total	7006	317	4.5%

Blood Survey 1999, Samoa Antigen Prevalence by Village

