

Please address  
all correspondence  
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Government of Samoa  
*Department of Health*



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24<sup>th</sup> September 2001

**BRIEF COUNTRY REPORT SAMOA**  
**FILARIASIS CONTROL PROJECT**

Samoa is an Independent Country, with a total population of more than 160,000 people to be precised, the census in 1991, which was the latest National census, the population was 161,298. Most of the lands are owned by the native population, known as customary lands, and this is the geographic break down:

- |    |                      |   |                |
|----|----------------------|---|----------------|
| 1. | Customary Land 81%   | = | 56, 500 Acres. |
| 2. | Government Lands 11% | = | 77, 100 Acres. |
| 3. | Freehold Lands 4 %   | = | 27, 300 Acres  |
| 4. | WSTEC Lands 4 %      | = | 30, 100 Acres  |

The weather is generally warm with some rainy seasons towards the end and beginning of years.

The main Filariasis activities are (1). Mass Drug Administration, to kill the Filariasis parasites and (2) Blood Surveys and follow up positive cases to detect and assess the impact of MDAs and determined prevalence infectivity Rates.

The other activities include serving individual complaints of infestations of mosquitoes, Rats, Cockroaches, Ants, Fleas, Honey Bees, etc. Result of latest MDA and Blood Survey are herewith attached. Copies of Drugs, annual reports and Re – applications, A4. JOCV volunteer application, ICT Cards and Drugs inventory are also enclosed.

I have few Filariasis and other mosquitoes borne disease awareness radio talks. We also have spots screening on TV and announcements on Radio prior to M.D.A. Implementation and Dengue occurance for public awareness.

In our vector control activities we encourage clean up and source reduction, breeding sites destructions during our surveys and village meetings on positive cases follow – ups.

An intergration and partnership activities with Environmental Section to strengthen source reductions activities on routine village Sanitary Inspections.

The Department of environment is also starting a new programme of village rubbish collection in Urban and Rural areas and conveying them to the dumping ground. These rubbish mostly include man made water containers which are favourite mosquitoes breeding sites.

A pre-eliminarily small scale Intestinal Parasite Survey Report is also enclosed.

Most of our Media and health promoting Public Health awareness programmes are done by our Health Separate Section called HEAPS, so each section in Preventive Division must provide scripts for whatever intended programme to be implemented and HEAPS Section will edit and air them on Radio or telecast on TV programmes.

- The focal Point Contact for PACELF  
Namulauulu Dr.M. Nuualofa Tu'u'au Potoi  
Director Preventive Health Services  
C/ Health Department  
Private Bag.  
Apia, Samoa
- The Manager for Filariasis Elimination Programme in Samoa  
Mr Vailolo Toeaso Iosia  
Officer Incharge Filariasis Control Unit  
C/ Health Department  
Private Bag  
Apia, Samoa
- The Operational Personnel  
Mr. Vailolo Toeaso Iosia / Filariasis Staffs  
Officer Incharge Filariasis Control Unit  
C/ Health Department  
Private Bag  
Apia, Samoa.

I would like to take this opportunity to thank co-ordinating body of PACELF and WHO for inviting us to this very important workshop / meeting.

I know it will be very fruitful and worthwhile and at the end of this workshop we hope to learn more new issues which may benefit Filariasis elimination in Samoa and all infected areas as a whole.

We also thank Minister of Health Honourable Mulitalo Siafausa,  
Director General of Health Lolofie Dr. T Eti Enosa, Director Preventive of Health  
Services in Samoa, Namulauulu Dr. M Nuualofa Tu'u'au Potoi for nominating us  
to this workshop.

Soifua,



Vailolo Toeaso Iosia  
Officer Incharge Filariasis Control Unit.  
Health Department  
Private Bag  
Apia, Samoa

FILARIASIS CONTROL PROJECT IN SAMOA 1964-2000  
BLOOD SURVEY AND MDA

21 September, 2001

PROJECT	YEAR	BLOOD SURVEY						MDA***
		METHOD*	VILLAGES	NO. EXAMINED	MF%	MFD**	ICT%	
PHASE 1; CONTROL	1964	FP20		2077	21.1	19		
	1965	FP20	21	10129	19.1	24		
	1966							I
	1967	FP20		42697	1.63	2.7		
	1968	FP60		5371	1.32	4.8		
	1969	FP60		7393	1.74	7.6		
	1970							
PHASE 2; RESEARCH	1971							II
	1972	FP60		6361	0.24			
	1973	FP60		5145	0.14			
	1974	FP60		30272	0.33			
	1975	FP60		11499	2.12			
	1976	FP60		3649	1.43			
	1977							
PHASE 3; OPERATION	1978							
	1979	FP60	28	8385	3.83	18.6		
	1980							
	1981							
	1982	FP60	27	10361	5.25	20.2		III
	1983		27	9627	4.17	9.4		IV
	1984		34	11146	2.76	9.8		
PHASE 4; ERADICATION	1985							
	1986							V
	1987	FP60	26	13708	2.33	9.2		
	1988							
	1989							
	1990							
	1991							
	1992							
	1993	FP60	32	10256	4.33	11.8		VI
	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
	2000	ICT	4	676	N/A	N/A	8.1	XII****
	2001	ICT	4	1392	N/A	N/A	4.8	XIII

\* : Fingerprick blood smear with 20mm<sup>3</sup> or 60mm<sup>3</sup> blood to detect macrofilaria  
ICT card test to detect antigen, 100mm<sup>3</sup> of fingerprick blood sample

\*\* : 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  
MDA IX, X ; Combination regimen of ivermectin (200ug/kg) and DEC (6mg/kg)  
MDA XI, XII ; Combination regimen of DEC (6mg/kg) and albendazole (400mg/person)

\*\*\*\*: Selected districts and population



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PLAN OF ACTION  
2001

*Samoa Filariasis  
Elimination Programme*

1.	Follow up - Completion of MDA - Data analysis and report - Positive cases and follow ups	January - February
2.	Selected Blood Survey - Work arrangements - Blood samples collections - ICT Reading antigens confirmations - Staining and Microscopics activities - Complaints requests and follow ups - Selected villages - 1. Ae'ele fou      2. Vailuutai - 3. Faleu          4. Satuiatua      5. Fatausi	March - June
3.	MDA Preparations - Printing Registration Books - Drugs – sort and packing - Multi-Media campaign	July – August
4.	Mass Drug Administration - Workshops (2 in Ulopu and 1 in Savaii) - Whole country (2 years up) - Drugs and Books distributions - Booths Services - Duration of MDA (21 October to 30 November about 6 weeks)	September – November
5.	Sentinel Monitoring and Report	November to December
6.	Filariasis Long Term Programme - 1999 – 1 <sup>st</sup> MDA - 2000 – 2 <sup>nd</sup> MDA - 2001 – 3 <sup>rd</sup> MDA (Selective Mass Blood Survey) - 2002 – 4 <sup>th</sup> MDA (Mass Blood Survey – 5000 samples or more) - 2003 – 5 <sup>th</sup> MDA - 2004 – Follow ups - 2005 – Mass blood Survey – Monitoring at least 5000 samples expectation of 0.1% - Eligible verification, Certification issued	

Vailolo T. Iosia  
Officer Incharge Filariasis Elimination Project

# MASS DRUG ADMINISTRATION 2000 SUMMARY

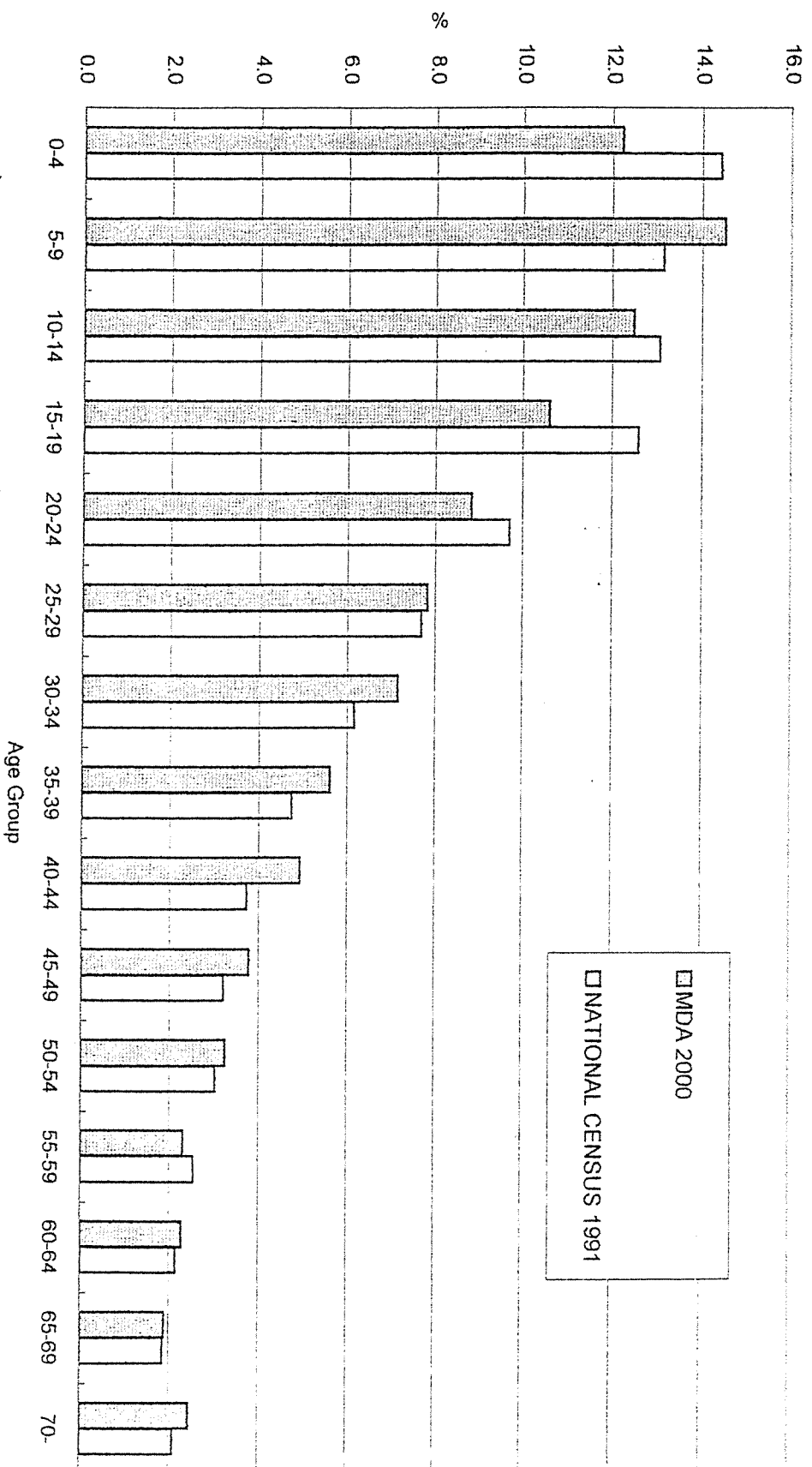
	C/BKS	# DEC	# ALB	FAMILIES	REQ. POP	TREATED	N/TREATED	COVERAGE
<b>URBAN AREA</b>								
Team One	41	42717	6885	791	7126	6885	241	97%
Team Two	29	25149	3963	345	4081	3963	118	97%
Team Three	36	25381	4069	434	4206	4069	137	97%
Team Four	41	30938	4834	556	4924	4834	90	98%
Team Five	38	38422	6133	652	6404	6133	271	96%
Team Six	36	31121	5015	671	5183	5015	168	97%
<b>TOTAL</b>	<b>221</b>	<b>193728</b>	<b>30899</b>	<b>3449</b>	<b>31924</b>	<b>30899</b>	<b>1025</b>	<b>97%</b>
<b>RURAL AREA</b>								
Afega	45	64823	9636	890	9987	9636	351	96%
Leulumoeaga	62	73649	11732	1226	12136	11732	404	97%
Lalomanu	48	50634	7893	851	8376	7893	483	94%
Manono Tai	7	7026	1163	103	1213	1163	50	96%
Apolima Tai	1	523	83	11	88	83	5	94%
<b>TOTAL</b>	<b>163</b>	<b>196655</b>	<b>30507</b>	<b>3081</b>	<b>31800</b>	<b>30507</b>	<b>1293</b>	<b>96%</b>
<b>SAVAI</b>								
Tuasivi	45	73713	12243	1273	12954	12243	711	95%
Foailalo	30	41402	6460	760	6764	6460	289	96%
Safotu	28	26708	4296	482	4496	4296	200	96%
<b>TOTAL</b>	<b>103</b>	<b>141823</b>	<b>22999</b>	<b>2515</b>	<b>24214</b>	<b>22999</b>	<b>1200</b>	<b>95%</b>
Booths/Others	18	48163	7208	0	7273	7208	65	99%
<b>GRAND TOTAL</b>	<b>505</b>	<b>580369</b>	<b>91613</b>	<b>9045</b>	<b>95211</b>	<b>91613</b>	<b>3583</b>	<b>96%</b>

# MDA BREAKDOWN RESULT 2001

DISTRICTS	FAMILIES	POPULATION	TREATED	N/TREATED	PRG	SICK	BABIES	OLD	AWAY	REFUSED
<b>APIA URBAN AREA</b>										
1 Team One	791	7126	6885	241	84	11	86	7	53	0
2 Team Two	345	4081	3963	118	20	9	46	1	42	0
3 Team Three	434	4206	4069	137	33	8	35	5	56	0
4 Team Four	556	4924	4834	90	18	7	28	2	35	0
5 Team Five	652	6404	6133	271	58	22	99	10	73	9
6 Team Six	671	5183	5015	168	56	19	61	9	23	0
<b>TOTAL</b>	<b>3449</b>	<b>31924</b>	<b>30899</b>	<b>1025</b>	<b>269</b>	<b>76</b>	<b>355</b>	<b>34</b>	<b>282</b>	<b>9</b>
<b>RURAL AREA</b>										
7 Afegea	890	9987	9636	351	122	15	120	5	74	15
8 Leulumoega	1226	12136	11732	404	126	15	146	18	99	0
9 Lalomamu	851	8376	7893	483	95	19	91	5	273	0
10 Manono Tai	103	1213	1163	50	17	2	21	2	8	0
11 Apolima Tai	11	88	83	5	1	0	3	1	0	0
<b>TOTAL</b>	<b>3081</b>	<b>31800</b>	<b>30507</b>	<b>1293</b>	<b>361</b>	<b>51</b>	<b>381</b>	<b>31</b>	<b>454</b>	<b>15</b>
<b>SAVAII</b>										
1 Tuasivi	1273	12954	12243	711	146	52	266	36	211	0
2 Foaialo	760	6764	6460	289	96	17	89	10	77	0
3 Safotu	482	4496	4296	200	40	5	56	5	94	0
<b>TOTAL</b>	<b>2515</b>	<b>24214</b>	<b>22999</b>	<b>1200</b>	<b>282</b>	<b>74</b>	<b>411</b>	<b>51</b>	<b>382</b>	<b>0</b>
<b>Booths</b>										
	0	7273	7208	65	18	0	37	0	10	0
<b>GRAND TOTAL</b>	<b>9045</b>	<b>85211</b>	<b>91613</b>	<b>3583</b>	<b>930</b>	<b>201</b>	<b>1184</b>	<b>116</b>	<b>1128</b>	<b>24</b>

# MASS DRUG ADMINISTRATION, 2000 Treated Population & National Census 1991 by Age Group

21 September, 2001





MASS DRUG ADMINISTRATION, 2000  
Treated Population & National Census 1991  
by Age Group and Sex

21 September, 2001

AGE GROUP	MDA 2000						NATIONAL CENSUS 1991					
	MALE	%	FEML	%	TOTAL	%	MALE	%	FEML	%	TOTAL	%
0-4	5851	12.1	5295	12.3	11146	12.2	12076	14.3	11169	14.6	23245	14.4
5-9	6856	14.2	6382	14.8	13238	14.5	11169	13.2	10008	13.0	21177	13.1
10-14	5966	12.4	5415	12.6	11381	12.5	11086	13.1	9961	13.0	21047	13.0
15-19	5196	10.8	4457	10.4	9653	10.6	10999	13.0	9281	12.1	20280	12.6
20-24	4509	9.4	3538	8.2	8047	8.8	8707	10.3	6940	9.0	15647	9.7
25-29	3796	7.9	3328	7.7	7124	7.8	6586	7.8	5789	7.5	12375	7.7
30-34	3605	7.5	2921	6.8	6526	7.2	5155	6.1	4772	6.2	9927	6.2
35-39	2680	5.6	2427	5.6	5107	5.6	3874	4.6	3769	4.9	7643	4.7
40-44	2370	4.9	2129	4.9	4499	4.9	3015	3.6	2994	3.9	6009	3.7
45-49	1833	3.8	1608	3.7	3441	3.8	2585	3.1	2594	3.4	5179	3.2
50-54	1467	3.0	1499	3.5	2966	3.3	2437	2.9	2443	3.2	4880	3.0
55-59	1081	2.2	1017	2.4	2098	2.3	2096	2.5	1993	2.6	4089	2.5
60-64	1067	2.2	1005	2.3	2072	2.3	1730	2.0	1722	2.2	3452	2.1
65-69	868	1.8	857	2.0	1725	1.9	1537	1.8	1450	1.9	2987	1.9
70-	1040	2.2	1183	2.7	2223	2.4	1549	1.8	1812	2.4	3361	2.1
TOTAL	48185	100.0	43061	100.0	91246	100.0	84601	100.0	76697	100.0	161298	100.0

# MF & Antigen Prevalence and MDA Coverage 1993 - 2000

21 September, 2001

