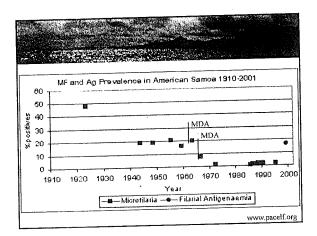
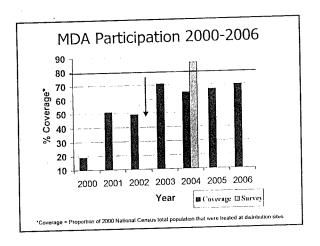


LF in American Samoa			
Parasite	Wuchereria bancrofti	100	
Vectors	Aedes polynesiensis Ae. tutuilae Ae. upolensis Ochlerotatus samoanus		
Elimination Strategy	Mass Drug Administration (MDA) - Albendazole + DEC - directly observed	4	
		www.pacelf.org	

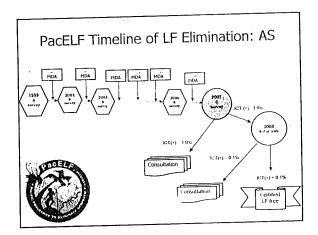


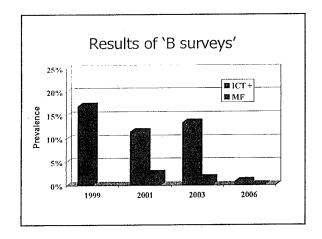


# MDA Distribution Strategy

- Focus on Churches
- Schools
- Bingo and airport
- · Major workplaces
- Collaboration with ASCC nursing program







### C Survey Objectives

- 1. Determine island-wide prevalence of filariasis
  - Antigenemia
  - Microfilaremia
- 2. Determine whether intervention should continue

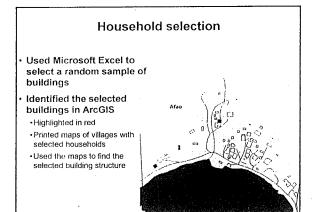
#### Methods

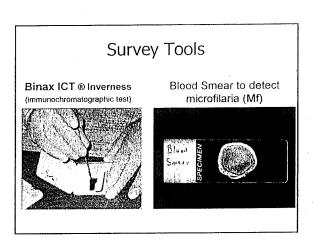
- Design: cross sectional, random cluster survey
  - Cluster = household (HH) All individuals > 4 years of age in selected households were eligible for testing
- · Random selection of households
  - Desired sample size of 1902 individuals based on assumptions
  - Selected 480 buildings from Tutuila; 40 from Manua
- · Modified analysis
  - Stratified by Island group and weighted according to selection probabilities

#### Used geographical data available from AS government Maps of Tutulla and Manua Village boundaries • Roads Streams Buildings • Churches • Schools Businesses Houses • Graves Piggeries • Umus

Sample selection - households

# account for cluster design

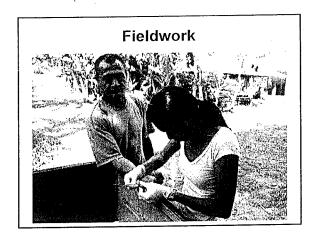


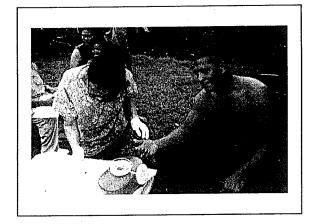


# **Survey Team Training**

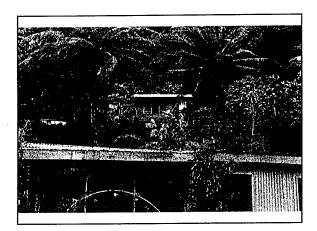


- · Discuss purpose of survey
- Practice reading maps
- Standard safety precautions
- Sample collection
- Running ICT and mf smear
- Registration & Data collection
- Outline team member roles and responsibilities
- Discuss logistics





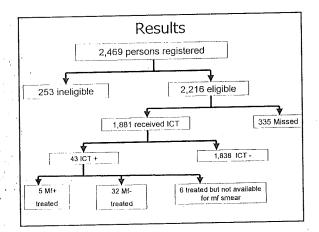


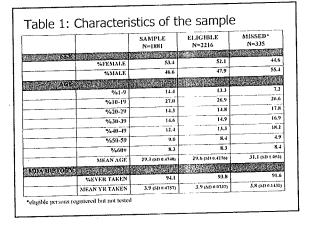


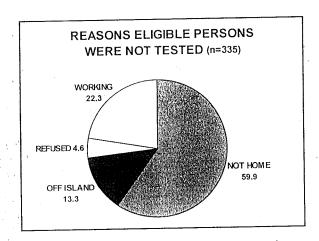




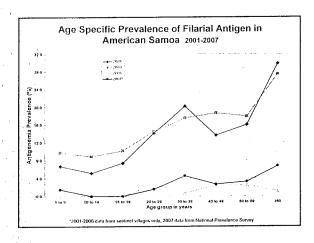


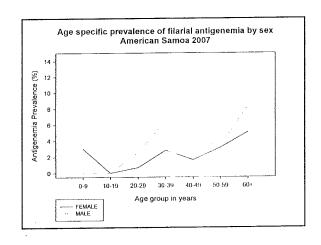






			Antigenemic (ICT+)	Microfilaremic (Mf+)
FEMA	LE	n	18	11
MA	LE	n	25	4
T.	STATE OF		43	
Prevalence Estim	ate	%	2.26 (1.60-2.93)	0.27 (0.03-0.51)*





#### Conclusions

- MDA has effectively reduced antigenemia and microfilaremia prevalence to low levels
- Antigen levels have not declined below target thresholds to warrant stopping MDA
- Antigen detected in four children 4-6 years of age indicates transmission has occurred in the last 5 years

## **Next Steps**

- AS DOH should carry out at least two additional rounds of MDA starting in 2008
- AS DOH should consider introducing policy in the Fono to require all working individuals to take annual treatment as part of a healthy workplace
- CDC should analyze and interpret additional data from 2006 to provide critical information on transmission dynamics
  - ICT, blood smear, serology, PCR in mosquitoes and GIS



ASCC Dept of Nursing DOH DOC Office of Samoan Affairs All individual participants of the survey ASCC Land Grant C'DC DPD PacELF