

MOTORIZED FISHING UNITS SURVEY & MUSSEL INSPECTION

Fisheries Survey - Savaii Island

8th - 12th February 1988

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The survey was conducted in 3 sections as followed:

1. Mussel:

The three mussel raft situated at Asau Bay, Savaii were inspected, their conditions, their growth progression in length and sex of sampled mussels from each.

Results:

As a results, all three mussel rafts were heavily infested with barnacles. The number of mussels per rope of each raft tend to decline perhaps due to infection or removal by people. Another major factor contributed to the declination of mussels per rope is the strong water current generated by bad weathers. (i.e. one of the raft was de-anchorage)

Raft 1:

6 mussels were sample from 4 ropes (i.e. 1500gms) and opened for sex).

Results:

Average length (mm)	a)	52.64 mm
	b)	59.42 mm
	c)	54.84 mm
	d)	53.90 mm

5 mussels were examined shown that 2 were females and 3 were males.

Raft 2:

Same procedure as in Raft 1.

Average length (mm)	a)	56.68 mm
	b)	53.82 mm
	c)	56.02 mm
	d)	48.08 mm

5 mussels were opened only to show that 3 were females and 2 were males (i.e. female showed bright orange gonads and male of white gonads)

Raft 3:

Average length (mm)	a)	52.62
	b)	55.54
	c)	53.44
	d)	49.14

All females were found from 5 mussel were examined.

The overall average length for the 3 mussel raft

54.02 mm

.. growth rate : 10.05 mm/month

2. Alia (motorized fishing units)

Total operative motorized fishing units = 17
 With only 9 unit were not operated due to mainly engine problems.
 Thus brings the total of motorized fishing unit in Savaii Island
 to 26

(Attached with the list of vessel owner, village and whom datas collected)

Vessel Owner	Village	Unit No.	Operated Yes/No	Data Collected
Vaa Musu	Saleaula	1	✓	
Ulusese Mauga	Sataua	1	✓	✓
Laufale Felise	Sataua	1	✓	✓
Taulapapa Crichton	Sataua	2	✓	
Soa Simi	Papa i Sataua	1	✓	
Faatupu	Papa i Sataua	1	✓	
Simi Feu	Gataivai	1		
Amani Afitu	Asau	1	✓	
Fia Malou	Asau	1	✓	✓
Vincent White	Salailua	3	✓	✓
Lautafi Fili	Satupaitea	2	✓	✓
Laulu Moana	Falauli	1		
Tosuisua P.	Falauli	1		
Tauofe	Satuiatua	1		✓
Tauai Ah Kuoi	Safotu	1		✓
Aufai Lemi	Saleaula	1		✓
Gaiga Tino	Safotu	1		✓
Gaogo Sefo	Safotu	1		✓
Mataia Faatele	Satoalepai	1		✓
Afato	Satuiatua	1	✓	✓
Manuleuta Schmidt	Safotu	1		✓
Gaogo Tilali	Safotu	1		✓
Sinafea Muga	Safotu	1		

3. Statistics - Alia Catch:

Collecting datas/statistics for alia catch was carried out as the same procedure for January survey, by asking for the catch of the previous day, today's catch estimated lengths number of fishing trips and kind of fishing involved.

The overall total catch obtained from the survey for this month, February.

Species	Total No.	Est. Wt (kg)
Katsuwonus pelamis	329	1651
Thunnus albacares	40	320

Trawling was the main type of fishing involved with katsuwonus pelamis (skipjack) and Thunnus albacares (yellowfin) were the main catchable species.

Procedures for obtaining alia catch results will be closely looked and modify in order to acquired alia catch as accurate as possible.