

Appendix 1. Socioeconomic questionnaire.

Trochus Fisher and Seller Questionnaire – Samoa

Surveyor: _____ Date: ____ / ____ / ____ Time start: _____.
Fisher name: _____ Gender: female: male: age:
Village/place of residence: _____ Waypoint # _____

Introduction to respondents:

- ★ Who are we? SCU and MAF. Purpose of project.
- ★ The questionnaire is part of a project to assess the benefits of the (introduced) Aliao [*Rochia nilotica*] fishery in Samoa. It will take about 30–40 minutes.
- ★ This study is funded by the Australian Centre for International Agricultural Research.
- ★ Your responses are completely voluntary. You can choose to not respond to any questions.
- ★ Your responses will be kept confidential and will be used in a project report and publications, which will show averages of responses from fishers in the village. Your individual information will not be shown. An Information Sheet gives contact details to get feedback about the project and an address in case you have complaints.
- ★ Unless otherwise stated, our questions ONLY refer to the *introduced* Aliao, not Aliao Samoa.

Type and location of fishing

1. Do you only fish commercially for Aliao or do you also fish/collect other marine resources (to sell)?
Only Aliao: Other resources too:
2. How long ago was the last time you went fishing for Aliao? _____ days.
3. Do you collect the Aliao by walking on the reef at low tide (gleaning)? Yes No
4. Do you collect the Aliao by free-diving/snorkeling? Yes No
5. In what part of the reef do you go to collect the Aliao??
Reef flat: Reef crest: Front reef slope (3-10 m):

Fishing effort

6. Over the past 6 months, on how many days did you collect some Aliao each week, on average, during fishing months? _____ days per week.
7. Were there some months that you didn't go out to collect Aliao? If so how many months per year not fishing _____.
If you didn't fish some months, why? _____.
8. If you use a boat to get out to the fishing sites to collect Aliao, what sort of boat?
Canoe paddle only Canoe paddle+sail Boat with outboard ...engine HP? _____

9. If you used an outboard motor, how much fuel did you use on the last trip in which you collected Aliao?
 Litres: _____ Cost: _____ How many other people (not including you) shared that cost? _____

10. What other costs would you have for fishing Aliao?

| Item | Cost (Tala) | Per time (day,week,month,year) |
|---------------|-------------|--------------------------------|
| mask, snorkel | | |
| fins | | |
| wetsuit | | |
| gloves | | |
| sack | | |
| torch | | |
| batteries | | |
| | | |

11. On a normal day during the past year, how many people are in the group fishing with you? _____ .

Are all of them fishing too? Yes No number fishing (not incl. you)

12. On your fishing trips, how many hours are spent to get to and from the fishing sites; i.e. not including the fishing time? _____ Hours round-trip (transportation only).

13. When fishing, how many hours per day would you spend in the water looking for Aliao? _____ hrs.

14. During the past 6 months, how many Aliao (not including Aliao Samoa) would you normally catch on average per day? _____ . On a good day?: _____ .

Is this average number that only you personally caught? Yes No (revise above)

15. Can you rank which marine resources you would, on average, collect the most of, by volume, and which ones you would collect less, by volume? '1' is most volume, '2' is second most volume, etc

| | | | | | |
|----------|----------------------|----------------------|----------------------|-------------------|----------------------|
| Fish: | <input type="text"/> | Giant clams: | <input type="text"/> | Turbo shells: | <input type="text"/> |
| Octopus: | <input type="text"/> | Other clams/cockles: | <input type="text"/> | Other gastropods: | <input type="text"/> |
| Lobster: | <input type="text"/> | Aliao Samoa: | <input type="text"/> | Sea urchins: | <input type="text"/> |
| Turtle: | <input type="text"/> | Aliao (giant): | <input type="text"/> | Sea cucumber: | <input type="text"/> |
| Crabs: | <input type="text"/> | Zoanthids: | <input type="text"/> | Other _____ | <input type="text"/> |

Processing and use

16. Do you break the Aliao shells to get out the meat or leave shells whole? Break: Whole:

17. For the Aliao that you catch each month, what proportion would you give away?

All: Most: Half: Small part: None:

18. For the Aliao that you catch each month, what proportion would you eat yourself?

All: Most: Half: Small part: None:

19. For the Aliao that you catch each month, what proportion would you sell?

All: Most: Half: Small part: None:

20. Who does the work to get out the meat of the Aliao if you sell the meat?
You: Spouse: Children: Other family member: Other (non-family) person:

21. For **one** average day's catch, how much time do you (and your family) spend to do the work to take out the meat of the Aliao you catch? _____ hrs

Sale of Aliao

22. Do you catch and sell the Aliao, or do you only sell Aliao that someone else caught?
Catch and sells: Sells Aliao that someone caught:

We would like to ask you some questions about income you earn from selling Aliao, and you can skip any of the questions if you feel uncomfortable answering them.

23. On a good week, how much money would you earn from the Aliao you sell? _____ Tala/week

24. This year, how much would you earn on an average week from the Aliao you sell? _____ Tala/week

25. This year, how much would you earn on average per week from all income sources? _____ Tala/week

26. How much money did you earn the last time you sold Aliao? \$ _____ Tala

How many shells/pieces was that (total) ? _____

Was that for just one day of fishing? Yes: No: _____ days

27. Where do you usually sell the Aliao?

Roadside: Market: Village stall: _____

28. Are you satisfied with the money that you earn from selling Aliao?

Very Mostly Indifferent: Not very No

29. Do you ever sell empty Aliao shells, or parts of them (e.g. jewellery)?

Never Seldom Sometimes Frequently

30. If you sell the empty shells, what price do you sell each shell for? _____ /shell

31. Has the sale of Aliao increased your weekly income, or has it remained the same, or declined because you are selling Aliao? Increased Same Declined

32. If you earn more money now because you are selling Aliao, what things do you most spend that **additional income** on?

Food Alcohol School fees Other household expenses Medical costs

House improvements Improvement of community infrastructure Church/tithing

Boat/fishing gear Other equipment Funerals, feasts or customary occasions

Phone/internet credit Other _____ Other _____

Fishing history and perceptions

33. How many years ago did you first start collecting the introduced Aliao? _____years.
34. How many other people do you think are also collecting [introduced] Aliao in your village? _____.
35. Compared to recent years, do you think the numbers of Aliao on the reefs are declining, staying fairly stable, or increasing?
Decreasing Stable Increasing
36. Would you be okay if the Ministry of Agriculture and Fisheries brought in a minimum size limit as a fishery regulation for collecting Aliao? No (unhappy) Don't care Okay
37. Would you be okay if MAF brought in a seasonal closure (e.g. for a few months) each year as a fishery regulation for Aliao? No (unhappy) Don't care Okay

Is there any other information or comments that you would like to say? Or do you have any questions?:

Time finished:_____.