



# SEA-PACC Training Report

## Coastal Zone Management



Date: October 20, 2010

To: Taito Nakalevu, Regional Coordinator, Pacific Adaptation to Climate Change (PACC),  
Secretariat of Pacific Regional Environment Programme (SPREP)

From: Supin Wongbusarakum, Conservation Methods and Learning, Central Science,  
The Nature Conservancy, Worldwide Office

Re: Report and Recommendations, Socioeconomic Assessment for Pacific Adaptation to Climate  
Change (SEA-PACC) Training Workshop, Kosrae, September 20-23, 2010

### Objectives

The objectives of the above training workshop were to help the workshop participants:

1. To understand how to use SEA-PACC to conduct climate-related socioeconomic assessments that support adaptation planning and the evaluation of adaptation projects;
2. To understand and gain experiences in all steps of conducting a SEA-PACC;
3. To be able to collect data using household surveys and key informant interviews;
4. To be able to interpret and make use of data for adaptation planning and strategy development;
5. And, after the workshop, to be able to guide others in using SEA-PACC guidelines and conducting SEA-PACC assessments.

Specific training topics were prepared prior to the workshop, and then revised and adjusted as the workshop went along in order to reflect needs identified by the workshop participants. Each of the participants was asked on the first morning to list one thing they would like to learn and take away from this workshop. Most of the answers fell into one of the following categories:

- Understanding the importance and purposes of socioeconomic assessment in climate adaptation
- Knowing how to do a socioeconomic assessment based on SEA-PACC
- Being able to develop a survey questionnaire
- Learning methods to collect data
- Knowing how to analyze data
- Understanding how to use the data to make decisions
- Being able to communicate the results

On the last morning of the training workshop, all the identified needs and workshop objectives were revisited and discussed to ascertain whether they were sufficiently covered. An evaluation (see Appendix B for evaluation form and Appendix C for results) was also filled out. The input of the participants was positive. Most of the topics were sufficiently covered and the participants felt that they were able to meet the needs they had identified at the beginning of the workshop. The topics that needed more time

for the participants to work on include: using other data collecting methods (beyond household survey), data analysis, and interpretation of results in relation to climate adaptation planning.

### Workshop Schedule

The following schedule reflects the activities that took place during the 4-day training workshop.

Date	Activities
Monday, September 20 8:30 – 4:30	Opening Introducing participants and PACC project sites in FSM, Cooks, and Samoa Training objectives and workshop schedule PPT presentation, SEA-PACC, Modules 1-2 Group exercises <ul style="list-style-type: none"> <li>• SEA-PACC Worksheets 2.1 (Climate context of project site)</li> <li>• and 2.2b (Climate impacts on coastal management)</li> </ul> Group report on results of worksheets ---Lunch--- SEA-PACC, Module 3 Group exercises: <ul style="list-style-type: none"> <li>• SEA-PACC Worksheet 3.1 (Prioritizing local climate hazards)</li> <li>• SEA-PACC, pages 22-23 (Setting scope of assessment)</li> <li>• Defining assessment objectives</li> </ul> <p><b><i>Homework for participants: Review SEA-PACC guidelines</i></b></p>
Tuesday, September 21 8:30 – 5:30	Day 1 recap by FSM participants Presentation/discussion on assessment objectives of each country Group exercise: Selecting indicators: SEA-PACC, Appendix 3a PPT Presentation (Module 3-continued) on data collecting methods Group exercise: Selecting data collecting methods Group presentation on indicators and methods ---Lunch---

	<p>Group exercise:</p> <ul style="list-style-type: none"> <li>• Developing household survey questionnaire</li> <li>• Pre-test and revise questionnaire</li> <li>• Translate questionnaire from English into Kosraean</li> <li>• Practicing introducing yourself to the interviewee</li> </ul>
<p>Wednesday, September 22 8:30 – 5:00</p>	<p>Day 2 recap by Cook Island participants</p> <p>Field exercise: Collecting data using household survey in Tafuksak</p> <p>----Lunch----</p> <p>Discussion/reflection on field exercise</p> <p>Data entering and analysis by PSPP program</p>
<p>Thursday, September 23 8:30 – 4:00</p>	<p>Day 3 recap by Samoa participants</p> <p>Revisit vulnerability assessment, indicators and evaluation of adaptation options</p> <p>Developing work plan of participating countries</p> <p>----Lunch----</p> <p>Data entering and analysis (continued)</p> <p>PPT Presentation SEA-PACC, Module 4</p> <p>PPT Presentation, Sampling design</p> <p>Data interpretation</p> <p>Wrap up and workshop evaluation</p>

### Workshop Participants

Except for Vanuatu, whose representatives were not able to travel to the workshop due to a visa problem, there were representatives from each of the PACC countries that focus their activities on coastal management. Cook Islands and Samoa each had 2 PACC project team members while Kosrae had several participants working in different agencies related to climate adaptation. Five of the local participants attended all 4 days of the workshop. The list of the workshop participants, work/affiliation, and their attendance can be found in Appendix A.

## Workshop Format

The workshop used 3 different approaches to train the participants.

1. Presentations followed by question and answer sessions;
2. Facilitated small group exercises;
3. Field exercise at the PACC project site, Tafunsak.

### 1. *Presentation*

Presentations with and without Powerpoint slides, followed by question and answer sessions were used to cover the following subjects:

- 1.1 Overview of PACC project sites by PACC country teams: Tafitoala in Samoa, Avarua Harbour in Mangaia, Cook Islands, and Tafunsak in Kosrae
- 1.2 Concept of climate vulnerability assessment and its main components, including exposure, sensitivity and adaptive capacity
- 1.3 Summary of main points of all 4 modules in the SEA-PACC guidelines including:
  - MODULE 1: Introduction
  - MODULE 2: Climate Context for the Socioeconomic Assessment
  - MODULE 3: Phases of the Socioeconomic Assessment
  - MODULE 4: Integrating Scenarios to Support Decision-Making in Climate Adaptation
- 1.4 Data entry and analysis using PSPP program
- 1.5 Sampling design
- 1.6 Example of assessment objectives and related indicators for vulnerability assessments

### 2. *Small group exercises*

Small group exercises took place daily, immediately after a related presentation, to allow the participants to apply the concepts and procedures featured in the presentation on PACC sites in their own countries. The exercises were used for the following activities, and the group usually shared their results with the rest of the participants.

- Climate context of the PACC sites, using worksheets in 2.1 of SEA-PACC
- Climate impacts on coastal management, using worksheet 2.2 b in SEA-PACC
- Prioritizing local climate hazards (Worksheet 3.1 in SEA-PACC)
- Setting scope of assessment (pages 22-23 in SEA-PACC)
- Defining assessment objectives, guided and facilitated by workshop trainer
- Selecting/Developing indicators (Appendix 3a in SEA-PACC)
- Selecting data collecting methods (Table 3.9 in SEA-PACC)
- Developing household survey questionnaire, guided and facilitated by workshop trainer
- Pre-test and revise questionnaire
- Translate questionnaire and interview questions, facilitated by selected Kosraean participants

### 3. *Field exercise in Tafunsak*

All the participants practiced using a questionnaire (Appendix D) to collect data from households in Tafunsak. The assessment exercise objectives include: 1) better understanding the gender-specific livelihood activities of the households; 2) examining the perceived impact of sea level rise on the main livelihood activities; and 3) investigating adaptation options that are recommended by household leaders and their perceptions of these options levels of environmental soundness, their capacities for meeting the needs of the community, and their likelihood of being locally feasible.

The participants were broken up into pairs, with one person speaking Kosraean. Each pair interviewed up to 4 households. The practice started in the class room where the participants had an opportunity to introduce the questionnaire and the project, and ask for permission to collect data. In the village, the participants practiced interviewing and taking notes for the questionnaire. The completed questionnaires were reviewed and feedback provided by the trainer. The data from 13 out of the 16 completed household questionnaires were used in a presentation elaborating how data could be entered and analyzed by PSSS, a free on-line basic statistical software program. The data sheet and frequency results of selected variables can be seen in Appendix E.

### **Workshop Results**

The workshop seems to have accomplished most of the objectives. Most participants rated the training high in helping them to understand concepts of vulnerability to climate change impacts. The training augmented the understanding of the participants on how a socioeconomic assessment can be used to assess vulnerability to climate change based on the understanding of the 3 main vulnerability elements (exposure, sensitivity, and adaptive capacity of a community). Most participants also felt this workshop very highly helped them to better understand how to use socioeconomic assessment to support good adaptation planning. The participants gained understanding of the different steps required in conducting a socioeconomic assessment and all rated at least themselves to be 'moderately comfortable' or 'highly comfortable' in all assessment steps. All the participants who attended the workshop regularly felt that they were able to learn the most important thing they mentioned on the first day of the workshop. The training was rated 'high' and 'very high' in helping the participants to understand the SEA-PACC guidelines. More than half of the workshop participants felt that after this workshop they could design and run a survey fully, and the rest said they could participate under someone else's supervision. Among those who planned to train people to do socioeconomic assessment to support climate adaptation, they now felt either 'confident' or 'somewhat confident' that they could do it based on the SEA-PACC guidelines and what they learned from this workshop.

## **Recommendations for Future workshops and SEA-PACC**

In this workshop, SEA-PACC was used for the first time among the PACC country teams. During the workshop and small group exercises, some revision points emerged. The rating of comfort levels in different assessment steps show that the participants are not as comfortable with identifying indicators, data analysis, and applying assessment results to adaptation planning. Half of the participants suggested more time be added to the workshop. The trainer herself believed that at least one additional day was needed for this type of workshop, in which the participants are given an opportunity to practice collecting data in the field and then analyzing the data. With additional day(s), the participants also would be able to practice other types of data collecting methods, such as key informant interviews, focus group discussion, or participatory mapping. Additional time would also help the participants to have hands-on experience in entering data and running analyses by themselves.

In relation to indicators, having a smaller and generally applicable set of indicators that adequately addresses key dimensions of climate impacts might be more helpful than a more exhaustive list. Despite the fact that SEA-PACC provided a list of possible indicators, it was difficult for the participants to select indicators that match assessment objectives as this matching process requires technical support and practice. The problem was discussed, and on the last day the trainer tried to address it by giving examples of narrower sets of indicators that can be used to measure the exposure of the community to climate events, its sensitivity, and different types of adaptive capacity. It seemed that once more definite and smaller sets of indicators for each of components were provided, it was easier for the participants to understand the connection between indicators and vulnerability factors.

In terms of data analysis, as some participants did not have any spreadsheet or social science data analysis background, it was difficult for them to follow. Data analysis training required more time and practice and it might be more useful to have a separate training on the topic, or to include people who are able to do data analysis as a part of the SEA-PACC assessment team.

It became clear in this workshop that socioeconomic assessment to support vulnerability assessment and adaptation decision-making should be conducted in the early stage of the PACC project. In this group, some of the adaptation decisions had already been taken prior to the assessment, and without information from local communities that would have helped determine which of the adaptation options would be locally appropriate, beneficial for the communities and help sustain their natural and physical environments. It was obvious during the household survey exercise that community members are able to provide data that would be useful for decision makers on the types and level of impacts they are facing, and that they are capable of making good suggestions on adaptation activities that address the impacts of changing climate.

Lastly, SEA-PACC should be revised with the input from this and the next 2 training workshops where the guidelines are used to by the country teams in all focal areas of coastal management, food security, and water resources.

**Appendix A: List of workshop participants and their attendance**

Name	Position/Work Affiliation	Attendance			
		Mon 9/20	Tues 9/21	Wed 9/22	Thurs 9/23
Taito Nakalevu	PACC Regional Coordinator	X	X	X	X
Peleti Salauoa	MNRE, Samoa	X	X	X	X
Moira Faletutulu	PACC, Samoa	X	X	X	X
Vaipo Mataora	PACC, Cook Islands	X	X	X	X
Keu Mataroa	PACC, Cook Islands	X	X	X	X
Simpson Abraham	PACC, FSM	X	X	X	X
Presley Abraham	KIRMA	X	X	X	X
Robert H. Jackson	KIRMA, Director	X	X	X	X
Steven Palik	KIRMA	X	X	X	X
Leonard Sigrah	KIRMA	X	X	X	X
Tara Charley	MMG		X	X	X
Johnson Taulung	Mayor, Tafunsak Municipal Government	X	X	X	
Betty Sigrah	KIRMA		X	X	X
Ruthey Luckymis	KIRMA		X	X	X
Erick E. Waguk	KIRMA		X	X	
Lazarus Jilpas	TMG		X		
Mufanel Tolenna	DREA		X		
Tim Fenlon	LAWESS			X	
Tholman Alik	YELA				X
Larson Lwae	KIRMA	X			
John Martin	Kosrae state legislature, Senator	X			
Maheta Kuaemasru	Kosrae Government	X			
Aik Luvaie	Utwā Government	X			
Thansley R. Kinere	Transportation & infrastructure	X			



**Appendix B: Post-Workshop Evaluation Form**

**Post-Workshop Survey  
SEA-PACC Training,  
Kosrae, September 20-23, 2010**

1. Were you able to learn in this workshop the most important thing you mentioned on the first day of the workshop?

- yes                       no                       not sure

2. To what extent did this workshop help you to understand how to use the SEA-PACC?

- very high               high               moderate               low               very low

3. To what extent did the workshop help you to understand main concepts of vulnerability to climate change impacts?

- very high               high               moderate               low               very low

4. To what extent did this workshop help you to better understand how to use socioeconomic assessment to support good adaptation planning?

- very high               high               moderate               low               very low

5. To what extent you now feel that you could carry out a climate-related socioeconomic assessment based on the SEA-PACC guideline?

- Fully - You could design and run a survey  
 Partially - You could participate under someone else's supervision  
 No

If your answer was no, please tell us why.

.....  
.....  
.....  
.....

6. If you plan to train people to do socioeconomic assessment to support climate adaptation, how confident you now feel that you could do it based on the SEA-PACC guidelines and what you have learned from this workshop?

- very confident  
 confident  
 somewhat confident  
 not very confident  
 not at all confident

7. Please rate your level of comfort now after participating in the training workshop in conducting a climate-related socioeconomic assessment and monitoring program in your home site:

	Very low comfort 1	Low comfort 2	Medium comfort 3	High comfort 4	Very high comfort 5
7.1 Designing a socioeconomic assessment					
7.2 Linking socioeconomic assessment to prioritized climate events					
7.3 Defining assessment objectives					
7.4 Developing indicators related to the assessment objectives					
7.5 Determining appropriate data collection methods (e.g., surveys, informant interviews, focus groups)					
7.6 Collecting data in the field using household survey					
7.7 Understanding principles of data analysis					
7.9 Understanding principles of communicating assessment results					
7.10 Applying assessment results to planning adaptation					

8. What did you like best about this training?

.....

.....

9. In what ways could this training be improved?

.....

.....

10. Other comments and/or suggestions?

.....

.....

Your name: \_\_\_\_\_ (optional)

**Appendix C: Post-Workshop Evaluation Results (red represents the participants' answers)**

1. Were you able to learn in this workshop the most important thing you mentioned on the first day of the workshop?

9 yes    0 no    0 not sure

2. To what extent did this workshop help you to understand how to use the SEA-PACC?

3 very high                          6 high                          0 moderate                          0 low                          0 very low

3. To what extent did the workshop help you to understand main concepts of vulnerability to climate change impacts?

3 very high                          4 high                          2 moderate                          0 low                          0 very low

4. To what extent did this workshop help you to better understand how to use socioeconomic assessment to support good adaptation planning?

5 very high                          3 high                          1 moderate                          0 low                          0 very low

5. To what extent you now feel that you could carry out a climate-related socioeconomic assessment based on the SEA-PACC guideline?

6 Fully - You could design and run a survey  
3 Partially - You could participate under someone else's supervision  
0 No

If your answer was no, please tell us why.

.....

6. If you plan to train people to do socioeconomic assessment to support climate adaptation, how confident you now feel that you could do it based on the SEA-PACC guidelines and what you have learned from this workshop?

0 very confident  
5 confident  
4 somewhat confident  
0 not very confident  
0 not at all confident

7. Please rate your level of comfort now after participating in the training workshop in conducting a climate-related socioeconomic assessment and monitoring program in your home site:

	Very low comfort 1	Low comfort 2	Medium comfort 3	High comfort 4	Very high comfort 5	Total number respondents
	Total number (percentage)					
7.1 Designing a socioeconomic assessment	0	0	1 (11)	6 (67)	2 (22)	9 (100)
7.2 Linking socioeconomic assessment to prioritized climate events	0	0	1 (11)	6 (67)	2 (22)	9 (100)
7.3 Defining assessment objectives	0	0	3 (43)	1 (14)	3 (43)	7 (100)
7.4 Developing indicators related to the assessment objectives	0	0	4 (50)	2 (25)	2 (25)	8 (100)
7.5 Determining appropriate data collection methods (e.g., surveys, informant interviews, focus groups)	0	0	1 (11)	3 (33)	5 (56)	9 (100)
7.6 Collecting data in the field using household survey	0	0	1 (13)	3 (38)	4 (50)	8 (100)
7.7 Understanding principles of data analysis	0	0	4 (44)	3 (33)	2 (22)	9 (100)
7.9 Understanding principles of communicating assessment results	0	0	2 (29)	3 (29)	2 (43)	7 (100)
7.10 Applying assessment results to planning adaptation	0	0	4 (44)	2 (22)	3 (33)	9 (100)

8. What did you like best about this training?

- Data gathering
- Exercise in which we work with community
- Data analysis and interpretation
- The process of socioeconomic and climate change
- The opportunity to do a hands-on activity to practice how to design, plan, structure, and carry out a SEA-PACC
- Analyze data and how to use results
- Data collection and analysis
- Training was well organized. Instruction was well instructed and understood.
- The whole process and the fundamental of carrying out a socioeconomic survey in regards to climate change
- Assessment/analysis
- How to apply SEA-PACC to influence decision makers and for people to understand
- Understanding the process

9. In what ways could this training be improved?

- Longer training
- More exercise on household survey or other method
- More time on analysis and preparing reports

**Appendix D: Household Survey Developed by Participants for Field Exercise in Tafunsak**

**Interviewer:**.....

**Survey Number:** .....

**Note taker:** .....

**Date:** .....

**Household Livelihoods**

1. How many members are there in your household? \_\_\_\_\_
2. How many members of your household are involved in activities that provide you sources of food and income? \_\_\_\_\_

3. Please list the role of each household members who contribute to the household livelihood	4. What is/are the livelihood activities each member is involved in?
3.1 Interviewee:	4.1
3.2	4.2
3.3	4.3
3.4	4.4
3.5	4.5
3.6	4.6
3.7	4.7
3.8	4.8

5. Which of the above livelihood activities is most important to your household?
  - 5.1 For subsistence \_\_\_\_\_
  - 5.2 For cash income generation \_\_\_\_\_

Sea Level Impacts

6. From the livelihood activities listed below, please rate the level of impact of sea level rise on each of the activities (using no impact, low impact, medium or high impact)

Livelihood Activities	How would you rate the level of sea level rise impact on each activity? - no impact - low - medium - high
6.1 Fisheries	
6.2 Farming	
6.3 Tourism	
6.4 Fuel wood harvesting	
6.5 Others (please specify .....)	

Adaptation options

7. What would be your recommendations to help prepare for, prevent and protect your household from the impacts of sea level rise? <b>If respondent only mentioned one recommendation, ask: "Are there any other Options?"</b>	8. Which one is most environmentally sound? <b>Check one</b>	9. Which one best meets the needs of the Community? <b>Check one</b>	10. Which options are locally feasible? <b>Check one</b>

## Appendix E: Data from Tafunsak Household survey

(Note: Raw data were not cleaned in all the tables shown in Appendix E)

### PSPP Variable View

	Name	Type	Width	Decimals	Label	Values	Missing	Columns	Align	Measure
1	interviewer	String	8		Name of interviewer	None	None	7	Right	Nominal
2	Noter	String	8			None	None	6	Right	Nominal
3	Q1	Numeric	8	0	#hhmember	None	None	5	Right	Scale
4	Q2	Numeric	8	0	#lh contributors	None	None	6	Right	Scale
5	Q3.1	String	20		interviewee role	1	,f, None	8	Right	Nominal
6	Q3.2	String	20		2nd role	None	None	8	Right	Nominal
7	Q3.3	String	20		3rd role	None	None	8	Right	Nominal
8	q3.4	String	20		4th role	None	None	7	Right	Nominal
9	Q3.5	String	20		5th role	None	None	8	Right	Nominal
10	Q3.6	String	20		6th role	None	None	5	Right	Nominal
11	Q3.7	String	20		7th role	None	None	7	Right	Nominal
12	Q3.8	String	20		8th role	None	None	6	Right	Nominal
13	Q4.1a	String	20		Interviewee lh1	None	None	9	Right	Nominal
14	Q4.1b	String	20		interviewee lh2	None	-7	7	Right	Nominal
15	Q4.1c	String	20		interviewee lh3	None	None	7	Right	Nominal
16	Q4.2a	String	20		2nd per lh1	None	None	10	Right	Nominal
17	Q4.2b	String	20		2nd per lh2	None	None	8	Right	Nominal
18	Q4.2c	String	20		2nd per lh3	None	None	6	Right	Nominal
19	Q4.3a	String	20		3rd per lh1	None	None	7	Right	Nominal
20	Q4.3b	String	20		3rd per lh2	None	None	7	Right	Nominal
21	Q4.3c	String	20		3rd per lh3	None	None	8	Right	Nominal
22	Q4.4	String	20		4th per lh	None	None	9	Right	Nominal
23	Q4.5	String	20		5th per lh	None	None	7	Right	Nominal

	Name	Type	Width	Decimals	Label	Values	Missing	Columns	Align	Measure
24	Q4.6	String	20		6th per lh	None	None	5	Right	Nominal
25	Q4.7	String	20		7th per lh	None	None	5	Right	Nominal
26	Q4.8	String	20		8th per lh	None	None	4	Right	Nominal
27	Q5.1	String	20		#1 subsistence	None	None	12	Right	Nominal
28	Q5.2	String	20		#1 income source	None	None	12	Right	Nominal
29	Q6.1	Numeric	8	0	Fish impact	None	None	4	Right	Ordinal
30	Q6.2	Numeric	8	0	Farm impact	None	None	4	Right	Ordinal
31	Q6.3	Numeric	8	0	Tourism impact	None	None	4	Right	Ordinal
32	Q6.4	Numeric	8	0	fuel wood impact	None	None	4	Right	Ordinal
33	Q6.5	Numeric	8	0	other impact	None	None	4	Right	Ordinal
34	Q6.5type	String	20		type of lh	None	None	12	Right	Nominal
35	Q7.1	String	20		1st recom	None	None	16	Right	Nominal
36	Q7.2	String	20		2nd recom	None	None	13	Right	Nominal
37	Q7.3	String	20		3rd recom	None	None	13	Right	Nominal
38	Q7.4	String	20		4th recom	None	None	8	Right	Nominal
39	Q7.5	String	20		5th recom	None	None	8	Right	Nominal
40	Q7.6	String	20		6th recom	None	None	8	Right	Nominal
41	Q8	String	8		enviro	None	None	8	Right	Nominal
42	Q9	String	8		meets need	None	None	8	Right	Nominal
43	Q10	String	8		local feasible	None	None	8	Right	Nominal
44	reco3.1	String	7		Sex of hh member	None	None	7	Left	Nominal

# PSPP Data View

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2: Q3.1 2

	Interviewer	Noter	Q1	Q2	Q3.1	Q3.2	Q3.3	Q3.4	Q3.5	Q3.6	Q3.7	Q3.8	Q4.1a	Q4.1b	Q4.1c	Q4.2a
1		Ruthey	5	5	father	mother	son	grandson	granddaughter				farming	-7		
2		Ruthey	5	1	2	daughter	grandson						handicraft	teacher		
3		Moira	9	2	father	mother	son	son	son				teacher	-7		fishing
4		Vaipo	14	12	father	mother	son	daughter					fishing	-7		livestock
5		Leonard	6	2	father	mother	daughter	son					fishing	-7		farming
6		Steven	2	2	mother	father							assist farming	fishing		farming
7		Vaipo	4	1	husband								fishing	-7		farming
8		Betty	2	1	mother	father							retail business	farming		
9		Betty	4	1	son								construction	-7		farming
10		Ken	9	3	father		daughter						farming	-7		social security
11		Peleti/P	8	1										-7		
12		Peleti/P	3	1	father								farming	social security		
13		Peleti/P	5	3	father	son	son						social security	farming		shipping company
14																
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21																
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Data View Variable View

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2: Q3.1 2

	Q4.2b	Q4.2c	Q4.3a	Q4.3b	Q4.3c	Q4.4	Q4.5	Q4.6	Q4.7	Q4.8	Q5.1	Q5.2	Q6.1	Q6.2	Q6.3	Q6.4	Q6.5	Q6.5Type
1			farming								farming	social security	3	4	2	4	.	
2											cash income	handicraft and emplo	3	4	3	4	.	
3	farming		fishing	farming							fishing	teaching	3	3	4	4	.	
4			harvesting			public servant	agriculture				fishing and farming	fishing and farming	4	3	1	1	.	
5	livestock		assisting								fishing and farming	fishing and farming	4	1	1	3	.	
6	fishing	working									farming	work (security for K	4	4	3	3	.	
7											farming	farming	1	1	1	1	.	
8											farming	retail business	4	4	4	3	.	
9											construction	construction	3	2	3	3	1	
10			government								farming	farming	2	1	4	1	.	
11											farming		1	2	2	4	.	
12											farming	social security	3	3	3	3	.	
13	farming		fishing	farming							fishing and farming	social security	4	4	4	4	.	
14																		
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Tafunak Exercise.sav - PSPPIRE Data Editor

File Edit View Data Transform Analyze Utilities Windows Help

Open Save Go To Case Variables Find Insert Cases Insert Variable Split File Weight Cases Value Labels

9: Q7.3

	Q7.1	Q7.2	Q7.3	Q7.4	Q7.5	Q7.6	Q8	Q9	Q10	reco3.1	VAR00000	VAR00001	VAR00002
1	relocate settlement	seawall	-7				seawall	relocate	relocate	male	.00	.00	.00
2	relocate settlement	seawall	-7				relocate	seawall	relocate	female	.00	.00	.00
3	relocate high ground	shoreline protection	-7				relocate	relocate	shorelin	male	.00	.00	.00
4	seawall	relocate high ground	-7				relocate	relocate	relocate	male	.00	.00	.00
5	rock wall	monitoring SLR	-7				rock wal	rock wal	rock wal	male	.00	.00	.00
6	control mining	-7	-7				control	control	control	female	.00	.00	.00
7	plant mangrove	-7	-7				plant ma	plant ma	plant ma	male	.00	.00	.00
8	seawall	-7	-7				seawall	seawall	seawall	female	.00	.00	.00
9	seawall	relocate					relocate	seawall	seawall	male	.00	.00	.00
10	relocation (HII and I	buffers	seawall				seawall	seawall	seawall	male	.00	.00	.00
11	seawall	relocate	enforcement for defo				seawall	relocate	seawall		.00	.00	.00
12	deforestation	no sand mining					no sand	sand min	sand min	male	.00	.00	.00
13	stop sand mining	stop cutting mangrov	disposal of rubbish				stop cut	disposal		male	.00	.00	.00
14													
15													
16													
17													
18													
19													
20													
21													
22													

Data View Variable View

Filter off Weights off No Split

## PSPP Frequency Tables

Q1 (Number of household members)

Q2 (number of household members who contribute to livelihoods)

### FREQUENCIES

/VARIABLES= Q1 Q2

/FORMAT=AVALUE TABLE

/MISSING=INCLUDE.

#### #hhmember

<i>Value Label</i>	<i>Value</i>	<i>Frequency</i>	<i>Percent</i>	<i>Valid Percent</i>	<i>Cum Percent</i>
	2	2	15.38	15.38	15.38
	3	1	7.69	7.69	23.08
	4	2	15.38	15.38	38.46
	5	3	23.08	23.08	61.54
	6	1	7.69	7.69	69.23
	8	1	7.69	7.69	76.92
	9	2	15.38	15.38	92.31
	14	1	7.69	7.69	100.00
<i>Total</i>		13	100.0	100.0	

#### #hhmember

<i>N</i>	<i>Valid</i>	13
	<i>Missing</i>	0
<i>Mean</i>		5.85
<i>Std Dev</i>		3.39
<i>Minimum</i>		2.00
<i>Maximum</i>		14.00

#### #llh contributors

<i>Value Label</i>	<i>Value</i>	<i>Frequency</i>	<i>Percent</i>	<i>Valid Percent</i>	<i>Cum Percent</i>
	1	6	46.15	46.15	46.15
	2	3	23.08	23.08	69.23
	3	2	15.38	15.38	84.62
	5	1	7.69	7.69	92.31
	12	1	7.69	7.69	100.00
<i>Total</i>		13	100.0	100.0	

#### #llh contributors

<i>N</i>	<i>Valid</i>	13
	<i>Missing</i>	0
<i>Mean</i>		2.69
<i>Std Dev</i>		3.04
<i>Minimum</i>		1.00
<i>Maximum</i>		12.00

Q 5.1 Most important subsistence activities in households

Q5.2 Most important cash income generating activities in households

FREQUENCIES

/VARIABLES= Q5.1 Q5.2

/FORMAT=AVALUE TABLE.

#1 subsistence

<i>Value Label</i>	<i>Value</i>	<i>Frequency</i>	<i>Percent</i>	<i>Valid Percent</i>	<i>Cum Percent</i>
		1	7.69	7.69	7.69
	construction	1	7.69	7.69	15.38
	farming	7	53.85	53.85	69.23
	fishing	1	7.69	7.69	76.92
	fishing and farming	3	23.08	23.08	100.00
<i>Total</i>		13	100.0	100.0	

#1 income source

<i>Value Label</i>	<i>Value</i>	<i>Frequency</i>	<i>Percent</i>	<i>Valid Percent</i>	<i>Cum Percent</i>
		1	7.69	7.69	7.69
	construction	1	7.69	7.69	15.38
	farming	2	15.38	15.38	30.77
	fishing and farming	2	15.38	15.38	46.15
	handicraft and emplo	1	7.69	7.69	53.85
	retail business	1	7.69	7.69	61.54
	social security	3	23.08	23.08	84.62
	teaching	1	7.69	7.69	92.31
	work (security for K	1	7.69	7.69	100.00
<i>Total</i>		13	100.0	100.0	

Q 6.1 Perceived level of impact of sea level rise on farming

Q 6.2 Perceived level of impact of sea level rise on fishing

(1 – no impact, 2 – low impact, 3 – medium impact, 4 – high impact)

**FREQUENCIES**

*/VARIABLES= Q6.1 Q6.2*

*/FORMAT=AVALUE TABLE.*

**Fish impact**

<i>Value Label</i>	<i>Value</i>	<i>Frequency</i>	<i>Percent</i>	<i>Valid Percent</i>	<i>Cum Percent</i>
	1	2	15.38	15.38	15.38
	2	1	7.69	7.69	23.08
	3	5	38.46	38.46	61.54
	4	5	38.46	38.46	100.00
<i>Total</i>		13	100.0	100.0	

**Fish impact**

<i>N</i>	<i>Valid</i>	13
	<i>Missing</i>	0
<i>Mean</i>		3.00
<i>Std Dev</i>		1.08
<i>Minimum</i>		1.00
<i>Maximum</i>		4.00

**Farm impact**

<i>Value Label</i>	<i>Value</i>	<i>Frequency</i>	<i>Percent</i>	<i>Valid Percent</i>	<i>Cum Percent</i>
	1	3	23.08	23.08	23.08
	2	2	15.38	15.38	38.46
	3	3	23.08	23.08	61.54
	4	5	38.46	38.46	100.00
<i>Total</i>		13	100.0	100.0	

**Farm impact**

<i>N</i>	<i>Valid</i>	13
	<i>Missing</i>	0
<i>Mean</i>		2.77
<i>Std Dev</i>		1.24
<i>Minimum</i>		1.00
<i>Maximum</i>		4.00

Q 7. First 3 respondents' recommendations to help prepare for, prevent and protect their household from the impacts of sea level rise

FREQUENCIES

/VARIABLES= Q7.1 Q7.2 Q7.3

/FORMAT=AVALUE TABLE.

1st recom

<i>Value Label</i>	<i>Value</i>	<i>Frequency</i>	<i>Percent</i>	<i>Valid Percent</i>	<i>Cum Percent</i>
	control mining	1	7.69	7.69	7.69
	deforestation	1	7.69	7.69	15.38
	plant mangrove	1	7.69	7.69	23.08
	relocate high ground	1	7.69	7.69	30.77
	relocate settlement	1	7.69	7.69	38.46
	relocate settlement	1	7.69	7.69	46.15
	relocation (HH and i	1	7.69	7.69	53.85
	rock wall	1	7.69	7.69	61.54
	seawall	4	30.77	30.77	92.31
	stop sand mining	1	7.69	7.69	100.00
<i>Total</i>		13	100.0	100.0	

2nd recom

<i>Value Label</i>	<i>Value</i>	<i>Frequency</i>	<i>Percent</i>	<i>Valid Percent</i>	<i>Cum Percent</i>
	buffers	1	7.69	10.00	10.00
	monitoring SLR	1	7.69	10.00	20.00
	no sand mining	1	7.69	10.00	30.00
	relocate	2	15.38	20.00	50.00
	relocate high ground	1	7.69	10.00	60.00
	seawall	2	15.38	20.00	80.00
	shoreline protection	1	7.69	10.00	90.00
	stop cutting mangrov	1	7.69	10.00	100.00
	-7	3	23.08	Missing	
<i>Total</i>		13	100.0	100.0	

3rd recom

<i>Value Label</i>	<i>Value</i>	<i>Frequency</i>	<i>Percent</i>	<i>Valid Percent</i>	<i>Cum Percent</i>
		2	15.38	40.00	40.00
	disposal of rubbish	1	7.69	20.00	60.00
	enforcement for defo	1	7.69	20.00	80.00
	seawall	1	7.69	20.00	100.00
	-7	8	61.54	Missing	
<i>Total</i>		13	100.0	100.0	