Compilation of questionnaires used in socio-economic monitoring research projects
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Centre for Resource Management and Environmental Studies (CERMES),
Faculty of Pure and Applied Sciences, The University of the West Indies (UWI)
Cave Hill Campus, Barbados

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1 INTRODUCTION

2 ASSESSMENT OF SOCIO-ECONOMIC CONDITIONS AT PLACENCIA, HOPKINS AND MONKEY RIVER IN BELIZE

2.1 CIVIL HOUSEHOLD QUESTIONNAIRE

3 ESTABLISHING A SOCIO-ECONOMIC MONITORING PROGRAM FOR GLOVER’S REEF ATOLL, BELIZE

3.1 GLOVER’S REEF FISHERMEN QUESTIONNAIRE

3.2 GLOVER’S REEF HOUSEHOLDER QUESTIONNAIRE

3.3 GLOVER’S REEF TOUR GUIDE QUESTIONNAIRE

4 UNEP SOCIO-ECONOMIC MONITORING FOR CARIBBEAN COASTAL MANAGEMENT (SOCMON CARIBBEAN) SITE PROJECTS

4.1 LINKING THE SOCIAL WITH THE NATURAL: A SOCIO-ECONOMIC REVIEW OF SHOAL BAY AND ISLAND HARBOUR, ANGUILLA

4.1.1 Marine use and views survey – Residents

4.1.2 Marine use and views survey – Visitors

4.1.3 Guidelines for key informant interviews

4.2 SOCIO-ECONOMIC MONITORING IN SOUFRIERE MARINE MANAGEMENT AREA (SMMA)

4.2.1 SMMA questionnaire

4.3 CARRIACOU, SANDY ISLAND/OYSTER BED MARINE PROTECTED AREA: SOCIO-ECONOMIC MONITORING (SOCMON) SURVEY OF NEARBY COMMUNITIES

4.4 Cades Bay Marine Reserve, Antigua and Barbuda

4.4.1 Cades Bay Marine Reserve (CBMR) questionnaire

5 INFORMATION FOR THE NEGRIL MARINE PARK’S FISHERIES MANAGEMENT PLAN

5.1 INDIVIDUAL AND HOUSEHOLD SURVEY FOR NEGRIL MARINE PARK BY THE NEGRIL CORAL REEF PRESERVATION SOCIETY (NCRPS)

6 SOCIO-ECONOMIC PROFILE OF FISHERIES IN THE GRENADES ISLANDS

6.1 RAPID ASSESSMENT SURVEY

6.2 IN-DEPTH SURVEY

7 DETERMINATION OF THE SOCIO-ECONOMIC IMPORTANCE OF THE LOBSTER FISHERY OF THE BRITISH VIRGIN ISLANDS

7.1 Fishers’ questionnaire

7.2 Attitudes and perceptions regarding resources and management

8 REFERENCES

Citation:

Contact person:
Maria Pena, Project Officer, CERMES, UWI, Barbados
Email: maria.pena@cavehill.uwi.edu Tel: (246) 417-4727 Fax: (246) 424-4204
1 INTRODUCTION

This document is a compilation of questionnaires and interview guides applied in a variety of socio-economic monitoring (SocMon) research projects in the Caribbean. The release of this compilation is a work in progress that we hope will become useful in assisting researchers in designing similar SocMon questionnaires and in identifying social, economic, cultural and governance characteristics that have been surveyed in communities throughout the region. The inclusion of these questionnaires is for information only and does not imply that we are encouraging or endorsing only the use of what is in the compilation. This document is divided into seven sections according to research project. Each section is preceded by a brief overview of the research with the questionnaire and/or interview guide following. For detailed information on these projects, some reports may be downloaded from the CERMES website at http://cavehill.uwi.edu/ceries. For those reports not on the CERMES website, please contact Maria Pena, Project Officer, CERMES.

2 ASSESSMENT OF SOCIO-ECONOMIC CONDITIONS AT PLACENCIA, HOPKINS AND MONKEY RIVER IN BELIZE

The purpose of this socioeconomic assessment was to provide baseline data on the social and economic conditions of three of five coastal fishing communities supporting Friends of Nature (FON) in the co-management of two marine reserves in southern Belize. FON is a non-governmental, membership organization, based in Placencia, Belize. Fishermen, tour guides and business people form FON’s Board of Directors. Originally known as Friends of Laughing Bird Caye, the organisation lobbied the Government of Belize to declare Laughing Bird Caye, which had been used historically as a fishing camp, as a National Park and to protect biodiversity and promote the sustainability of the natural resources off the coast of Placencia. FON also has a co-management agreement with the Fisheries Department for the management of Gladden Spit Marine Reserve. Gladden Spit is one of the very few spawning aggregation sites in Belize and this is where whale sharks also make appearance in the months of April, May and June as part of their migration route (Perez 2003).

2.1 FON household questionnaire

Date and time:_____________________ Name of respondent:__________________
Interviewer:_______________________ Respondent #:_______
Location:_________________________

Demographics

1. How many people live in this household? ______________
2. How long has this household been located in the community? ______________
3. What are the 3 most important occupations of household members in order of the amount of income generated?
4. What are the household’s primary, secondary and tertiary most important sources of income?
1st._________________, 2nd._________________, 3rd._________________

5. Are any females living in the household involved in an income-generating activity?
Yes _______ What activity? _________________________
No _______

6. Is any member of this household a member of a formal and/or informal organization?
Yes _______ Who? __________ What organization? __________
No _______ Who? __________ What organization? __________

7. How would you describe the condition of marine resources five years ago?
very good___ good ___ not good not bad ___ bad ____ very bad___

8. How would you describe the conditions of marine resources today?
very good___ good ___ not good not bad ___ bad ____ very bad___

9. (For non-fishing households) On average, how many days a month does the household fish to supply food? ______________

10. What marine recreational activities do members of the household engage in on a regular basis?
_____________, _______________

11. Are you familiar with Friends of Nature?
Yes_____ No_____

12. What do you think is the main purpose of Friends of Nature?
_______________________________________________________________________

13. What 2 things do you think Friends of Nature has done that have worked well?
1. ________________________, 2_______________________

14. What 2 things do you think Friends of Nature has done that have not worked well?
1. ________________________, 2_______________________.

15. What 2 things do you think Friends of Nature can do to improve their work regarding coastal/marine management in the community?
1. ________________________, 2_______________________.

16. Do you know who is the representative of Friends of Nature in the village?
Yes______ No_______

17. Are you consulted on decisions made by Friends of Nature?
18. To what extent can you participate in decision-making by Friends of Nature?
Full active participation___ active participation ___ some participation ___
little participation ____ no participation ___
19. What two things would you suggest that Friends of Nature could do to improve participation in decision-making?
1. ________________________, 2______________________.
20. Do you think that the people in your village can work together to solve community problems?
Yes_______ No_______
21. Do you think that fishermen can work together alone to solve a problem in the fishery?
Yes_______ No_______
22. Should the government, the people or both, work to solve a problem in the fishery?
government only_______ people only _________ both ________

Rules
23. Do you know of any Marine Protected Areas (MPA) in the area?
Yes_______ No_______
24. If yes, is the MPA beneficial to Belizean marine resources?
Yes_______ No_______
25. Are you familiar with any rules and regulations related to:
Commercial fishing_______; recreational fishing_____; tourism fishing____;
Mangrove use_____; reef use_____; hotel development_____; residential
development_____; snorkel/diving_____; beach use _______; MPA______.

Threats and problems
26. What are the top three major threats to the community?
Threats: 1.____________, 2._____________, 3._____________
27. What are the top three major problems for the community?
Problems: 1.__________, 2.__________, 3.__________
28. What do you think are the possible solutions to these problems?
Solutions: 1._____________, 2._____________, 3._____________
29. What are the top three major threats to the marine resources?
Threats: 1. ____________, 2. ____________, 3. ____________

30. What are the top three major problems for the marine resources?
Problems: 1. ____________, 2. ____________, 3. ____________

31. What do you think are the possible solutions to these problems?
Solutions: 1. ____________, 2. ____________, 3. ____________

32. Are you obtaining benefits as a result of development in the area?
Yes ____________ What benefits ____________
No ____________

Material style of life
33. Does the household have or own the following:
land____ house____, boat _____, car _____, washer _____, VCR _____, cell phone
______, TV____, stereo _____, refrigerator____, stove____
Type of roof: tin____, thatch____, cement____, shingle____
Type of outside structure of wall: wood____, cement____, plywood____
Windows: wooden shutters____, metal shutters____, glass shutters____, glass____
Floors: cement____, wood____, tile____, dirt____, carpet____

3 ESTABLISHING A SOCIO-ECONOMIC MONITORING PROGRAM FOR GLOVER'S REEF ATOLL, BELIZE

In an effort to strengthen the management of the Glover’s Reef Marine Reserve in Belize,
a socio-economic monitoring program is being developed. Although the Glover’s Reef
Marine Reserve was declared in 1993, comprehensive socioeconomic data have not been
systematically collected for the site, apart from a couple of surveys in two of the
communities that fish the area. Fishing is the most important activity on the Atoll, a
traditional area for harvesting lobster, conch and finfish. Tourism is the second major
social and economic force, which is developing rapidly with the main activities including
snorkeling, scuba diving, kayaking, and sport fishing. In this study questionnaires were
developed during a training workshop, and were tailored for fishermen, tour guides and
households. The surveys were conducted during May, June and July 2004 in the three
main communities of fishermen and tour guides that are active on Glover’s Reef, namely
Sarteneja, Dangriga and Hopkins. The SocMon protocol developed for the Caribbean was
applied and the results provide a baseline of the socio-economic status of the Atoll
against which future surveys can be compared. The information includes summaries on
demographics, marine activities conducted, attitudes and perceptions, threats and problems perceived, and material style of life. Based on the results of the data analysis conducted, some preliminary recommendations for improving management are made. By continuing this program information will be generated which should ensure adaptive management occurs, introducing management measures that are acceptable and effective (Gibson et al. 2005).

3.1 Glover’s Reef fishermen questionnaire

Date and time:___________ Captain:_______________ Crew:__________________
Interviewer:_____________ Respondent #:______
Location:_______________

Demographics
1. How old are you? ________
2. What is your level of education?
Primary ________ Secondary ________ Associates ________
3. How many people live in your household? _________
4. Which job provides you with the most income?
1st _________________________,
2nd _________________________,
3rd _________________________
5. Are any other members in your household involved in an income-generating activity?
Yes _____ Who _______________What activity? _________________________
No _____
6. Are there any females in your household who are involved in the fishing business?
Yes _____ Who ________________What activity? _________________________
No _____

Coastal and Marine/Fishing Activities
7. How many years have you fished at Glover’s Reef?
Less than 5 years ________ 5 – 10 years ________ More than 10 years ________
8. What percentage of your total catch per year is caught at Glovers Reef?
0-25% ________ 25-50% ________ 50-75% ________ 75-100% ________
9. What is the average number of days of each fishing trip spent at Glover’s Reef?
______ days
10. How many fishing trips to Glover’s Reef do you make each year? ________ trips
11. What are the top 4 species that you target at Glover’s Reef?
1) _____________ 2) _____________ 3) _____________ 4) _____________

12. What are the gear types that you use at Glover’s Reef?
1) _________________________
2) _________________________
3) _________________________

13. How many crew members are usually on your boat? ________ crew

14. What percentage of your boat’s total catch from Glover’s Reef is usually or generally sold to:
Cooperative _______ Hotels/Restaurants _______ Local markets _______
Own use _______ Other _______

15. How would you describe the condition of fisheries resources five years ago at Glover’s Reef?
very good ___ good ___ not good ___ not bad ___ bad ___ very bad ___

16. How would you describe the conditions of fisheries resources today at Glovers Reef?
very good ___ good ___ not good ___ not bad ___ bad ___ very bad ___
Why do you think the conditions have changed? ________________________________

17. Do you think that fishermen can work together to solve a problem in the fishery?
Yes ___ No ___ Don’t know ___

18. Should the government alone, the fishermen alone or both together, work to solve a problem in the fishery?
government only ___ fishermen only ___ both ___

19. Would you support Glover’s Reef being managed in partnership between government and another group? Such as an NGO, Fishing Cooperative etc.
Yes ___ No ___ Don’t know ___

Attitudes and Perceptions

20. Are you aware that Glovers Reef is a Marine Reserve?
Yes ___ No ___

21. Are you aware of the Glovers Reef Marine Reserve management zones?
Yes ___ No ___

22. Are you familiar with any rules and regulations in the Glover’s Reef Marine Reserve related to:
Commercial fishing _______; Sport fishing _______; Mangrove use _______;
Resort Development ________; Tourism snorkel/diving ________

23. Are you a member of a fishing co-operative?
Yes ___ Which? _________________________
No ___

24. How do you feel your co-operative represents you on the Glover’s Reef Advisory Committee?
Very well ___ Well ___ Fair ___ Poor ___ Don’t know ___

25. Are you a member of any other organization in Sarteneja?
Yes ___ What organization? _________________________
No ___

26. If you were able to change to another occupation that provided equal or more income than your fishing occupation would you be willing to change occupations?
Yes ___ No ___

27. If so, what would you be interested in?
Tour guide ___, Sportfishing guide ___, Aquaculture ___, Information Technician ___, SCUBA guide ___, Kayaking guide ___, other ___

28. If you could choose an occupation for your children, what would it be?
________________________________________________________

29. Indicate degree of agreement with the following statements using the scale: don’t know (6), strongly agree (5), agree (4), neutral (3), disagree (2), or strongly disagree (1)
_____ a) The Marine Reserve is important for protecting the Atoll’s coral reef system
_____ b) The conservation zone is helping to sustain fish stocks
_____ c) More area should be opened to fishing in the marine reserve
_____ d) Penalties for illegal fishing should be increased
_____ e) Mangroves should be protected at Glover’s Reef
_____ f) Enforcement of the reserve regulations is adequate
_____ g) Participation in management decisions about Glover’s Reef Marine Reserve is important to you.
_____ h) The closure of the North East Point spawning aggregation site is a good management measure.
_____ i) Most fishermen respect the marine reserve regulations.

Threats and problems
30. What do you think are the top three major problems for the Glovers Reef marine resources?
Problems:
1 ________________________.
2 ________________________.
3 ________________________.

31. What do you think are the possible solutions to these problems?

Solutions:
1 ________________________.
2 ________________________.
3 ________________________.

Material style of life.

32. Do you have or own the following:
Farm land _____ house lot _____ house _____ sailboat _____ skiff _____ outboard engine _____ canoe _____ vehicle _____ bicycle _____ washer _____ VCR _____ phone _____ TV _____ stereo _____ refrigerator _____ stove _____

33. The roof of your house is made up of what type of material:
thatch _____ zinc _____ cement _____
The wall of your house is made out of what type of material:
palmetto _____ plywood _____ wood _____ cement _____
Windows: wooden _____ metal _____ glass _____
Floors: dirt _____ cement _____ wood _____ tile _____

3.2 Glover’s Reef household questionnaire

Date and time: ___________ Respondent #: ______
Interviewer: ___________ Location: ___________

Demographics

1. How old are you? ______

2. What is your level of education?
Primary _____ Secondary _____ Associates ______

3. How many people live in your household? ______________

4. Which job provides your household with the most income?
1st. ________________, 2nd. ________________, 3rd. ________________

5. Are there any females in your household who are involved in the fishing business?
Yes _____ Who ______________ What activity? _______________________
No ______
Coastal and Marine/Fishing Activities

6. Is any of the fish caught by your family at Glover’s Reef used for food by the household?
   Yes _____
   No _______

7. Have you or any of your children visited Glover’s Reef?
   Yes _______
   No _______

8. Do you think that people in your community can work together to solve a problem in the fishing or tourism industries?
   Yes_______ No_______ Don’t know________

9. Should the government alone, the people alone or both together, work to solve a problem in the fishing or tourism industries?
   government only_______ people only ________ both ________

10. Would you support Glover’s Reef being managed in partnership between government and another group? Such as an NGO, Fishing Cooperative etc.
    Yes _____ No _________ Don’t know________

Attitudes and Perceptions

11. Are you aware that Glovers Reef is a Marine Reserve?
    Yes _____ No______

12. Are you aware of the Glovers Reef Marine Reserve management zones?
    Yes_______ No_______

13. Are you a member of any organization in Dangriga/Hopkins?
    Yes__________ What organization?_______________
    No _________

14. If you could choose an occupation for your children, what would it be?
    ____________________________________________________________

15. How would you describe the condition of the marine resources five years ago at Glover’s Reef?
    Very good ____good ____ not good ____ bad ___ very bad___

16. How would you describe the condition of the marine resources today at Glover’s Reef?
    Very good ____ good ____ not good ____ bad ___ very bad ___

17. Indicate degree of agreement with the following statements using the scale: don’t know (6), strongly agree (5), agree (4), neutral (3), disagree (2), or strongly disagree (1)
____ a) The Marine Reserve is important for protecting the Atoll’s coral reef system
____ b) Fisheries are adequately managed and enforced.
____ c) Penalties for illegal fishing should be increased
____ d) Mangroves should be protected at Glover’s Reef
____ e) Participation in management decisions about Glover’s Reef Marine Reserve is important to you.
____ f) Most fishermen respect the marine reserve regulations.
____ g) Marine protected areas are beneficial to Belizean marine resources.
____ h) Children need to learn more about marine conservation at school.
____ i) Tourism has been good for your community.
____ j) Tourism has been good for your household.

**Threats and problems**

18. What do you think are the top three major **problems** for the Glovers Reef marine resources?
Problems: 1._________________, 2.__________________, 3.__________________.

19. What do you think are the possible **solutions** to these problems?
Solutions: 1.________________, 2._________________, 3.__________________.

**Material style of life.**

20. Do you have or own the following:
Farm land _____ Own house lot____ own house_____ vehicle ___ bicycle ______
_____washer _____ VCR ____ phone ______ TV_____ stereo _____
refrigerator_____ stove____

21. The roof of your house is made up of what type of material:
thatch _____ zinc________ cement ______

Type wall of your house is made out of what type of material:
palmetto ______ plywood _____wood ______ cement ______

Windows: wooden_____ metal _____ glass _____
Floors: dirt _____ cement____ wood _____ tile____

3.3 **Glover’s Reef tour guide questionnaire**

Date and time:___________  Respondent #:______
Interviewer:______________  Location:___________________

**Demographics**

1. How old are you? ______
2. What is your level of education?
Primary _____ Secondary _____ Associates _________

3. How many people live in your household? _______________

4. Which job provides you with the most income?
   1st._________________, 2nd._________________, 3rd._________________

5. Are any other members in your household involved in an income-generating activity?
   Yes _______ Who __________ What activity? _________________________
   No _______

**Coastal and Marine/Fishing Activities**

6. How many years have you used the Reserve as a tour guide?
   Less than 5 years ________ 5 – 10 years __________ More than 10 years __________

7. What part of the Reserve do you visit/use?
   South end _____ North end _______ East reef ________ West reef _______
   Cayes _______ Other __________

8. What type of guiding to Glover’s Reef do you do?
   Sportfishing_____ Dive_____ Snorkel_____ Kayak_____ General_____ Other_____

9. What percentage of your annual business is done at Glovers Reef?
   0-25% ________ 25-50% ________ 50-75% ________ 75-100% _________

10. What are the major months in the year for your guide business to Glover’s Reef?
    J___ F____ M____ A__ M__ J__ J__ A__S____ O____ N____ D___

11. How many guide trips to Glover’s Reef do you make each year? ___ trips

12. What is the average number of people that you take on a trip to Glover’s Reef for?:
    Sportfishing_____ Dive_____ Snorkel_____ Kayak_____ General_____ Other_____

13. What are the top 4 sportfishing species that you target at Glover’s Reef?
    1)________ 2)________ 3) ________4) __________

14. What is the charge/fee per person per trip for:
    Sportfishing_____ Dive_____ Snorkel_____ Kayak_____ General_____ Other_____

15. How many crew members are usually on your boat? ______ crew

16. What type of information do you provide your tourists on marine resource conservation and protection?
    ________________________________________________________________

17. What type of education materials on marine resource conservation and protection would be useful to you and your tourists?
    ________________________________________________________________

18. How would you rank visitor satisfaction after visiting the reserve?
19. How would you describe the condition of fisheries resources five years ago at Glover’s Reef?
very good ___ good ___ not good ___ not bad ___ bad ____ very bad ___
20. How would you describe the conditions of fisheries resources today at Glovers Reef?
very good ___ good ___ not good ___ not bad ___ bad ____ very bad _____
21. Why do you think the conditions have changed?
____________________________________________________________________
22. Would you support Glover’s Reef being managed in partnership between government and another group? Such as an NGO, Fishing Cooperative etc.
Yes _____ No ________ Don’t know ________

**Attitudes and Perceptions**
23. Are you aware that Glovers Reef is a Marine Reserve?
Yes _____ No_______
Yes _______ No_______
25. Are you familiar with any rules and regulations in the Glover’s Reef Marine Reserve related to:
Commercial fishing______ ; sport fishing ____________ ; Mangrove use____ ; resort development____ ; tourism snorkel/diving____
26. Are you a member of a tourism association?
Yes _______ Which? __________
No _________
27. How do you feel your tourism association represents you on the Glover’s Reef Advisory Committee?
Very well ____ Well ____ Fair_____ Poor______ Don’t know _________
28. Are you a member of any other organization in Dangriga/Hopkins?
Yes__________ What organization?_______________
No _________
29. Indicate degree of agreement with the following statements using the scale: don’t know (6) strongly agree (5), agree (4), neutral (3), disagree (2), or strongly disagree (1)
_____ a) The Marine Reserve is important for protecting the Atoll’s coral reef system
_____ b) The conservation zone is helping to sustain fish stocks
c) All sportfishing should be catch and release

____ d) Penalties for illegal fishing should be increased

____ e) Mangroves should be protected at Glover’s Reef

____ f) Enforcement of the reserve regulations is adequate

____ g) Participation in management decisions about Glover’s Reef Marine Reserve is important to you.

____ h) Facilities for tourists at the reserve headquarters at Middle Caye are adequate.

____ i) Most fishermen respect the marine reserve regulations.

____ j) Most tour guides respect the marine reserve regulations.

**Threats and problems**

30. What do you think are the top three major **problems** for the Glovers Reef marine resources?

Problems: 1.________________, 2._______________, 3.________________________.

31. What do you think are the possible **solutions** to these problems?

Solutions: 1._________________, 2.____________________, 3.____________________.

**Material style of life.**

32. Do you have or own:

Farm land _____ house lot_____ house_____ skiff _____ outboard engine ________ vehicle ___ bicycle _____ washer _____ VCR ____ phone ______ TV _____ stereo _____ refrigerator_____ stove_____

33. The roof of your house is made up of what type of material:

thatch ______ zinc ________ cement _______

Type wall of your house is made out of what type of material:

palmetto _____ plywood ___________wood _____ cement _______

Windows: wooden ______ metal _______ glass ____

Floors: dirt _____ cement____ wood _____ tile_____

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4 UNEP SOCIO-ECONOMIC MONITORING FOR CARIBBEAN COASTAL MANAGEMENT (SOCMON CARIBBEAN) SITE PROJECTS

4.1 Linking the social with the natural: A socio-economic review of Shoal Bay and Island Harbour, Anguilla

Most socio-economic information on Anguilla centres on demographic and employment data – population size, age, gender, ethnicity, religion, level of unemployment, occupation, infrastructure, and facilities. Information on natural resources and area use is limited. Data on the nearshore, coral reef, and marine park use are almost nonexistent. Limited information makes management of these resources and areas and enforcement of relevant regulations, legislation, and policies difficult – particularly of those areas that
have been identified as in need of special management, namely, Anguilla’s five marine parks. Given this apparent information gap, from August 2005 to April 2006, the Anguilla National Trust (ANT) and the Department of Fisheries and Marine Resources (DFMR) (Government of Anguilla [GOA]) conducted a socioeconomic assessment of the communities that border one of Anguilla’s most popular coastal areas – the Shoal Bay-Island Harbour Marine Park.

The goal of the assessment was to collect and document baseline socio-economic data of the Shoal Bay-Island Harbour Marine Park. Objectives of the study were five-fold:

1. To determine the level of public awareness (Anguillians and visitors) regarding the marine park;
2. To determine and document the various uses of the marine park;
3. To quantify the level of activity (including, but not limited to, fishing, diving, snorkelling, swimming, and boating) within the marine park boundaries;
4. To gauge the level of community support for a functioning marine park; and
5. To assess the level of management capacity of marine park stakeholders (Mukhida and Gumbs, n.d.)

4.1.1 Marine use and views survey – Residents

<table>
<thead>
<tr>
<th>Section A: General demographics and individual economics</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1) What is your age? (circle)</td>
</tr>
<tr>
<td>under 20 / 20-29 / 30-39 / 40-49 / 50-59 / 60+ years</td>
</tr>
<tr>
<td>A2) Gender? Male / Female</td>
</tr>
<tr>
<td>A3) What is your ethnicity?</td>
</tr>
<tr>
<td>Caucasian / Hispanic / Black / Asian / East Indian / other (identify)</td>
</tr>
<tr>
<td>A4) Highest level of education completed?</td>
</tr>
<tr>
<td>primary / secondary / college / graduate school / other training (identify)</td>
</tr>
<tr>
<td>A5) Marital status?</td>
</tr>
<tr>
<td>single / cohabitating / divorced or separated / widowed</td>
</tr>
<tr>
<td>A6) How many children do you have?</td>
</tr>
<tr>
<td>A7) Where were you born?</td>
</tr>
<tr>
<td>A8) How long have you lived in Anguilla? All my life / years</td>
</tr>
<tr>
<td>A9) What is your current housing type?</td>
</tr>
<tr>
<td>house / apartment / public housing / other (identify)</td>
</tr>
<tr>
<td>A10) What is your house made of?</td>
</tr>
<tr>
<td>wood / cement brick / other (identify)</td>
</tr>
<tr>
<td>A11) Do you own or rent?</td>
</tr>
<tr>
<td>own / rent</td>
</tr>
</tbody>
</table>
A12) How many **people live in your household** (including yourself)?
# adults / # children (=18 years old)

A13) What is (are) your current **income generating activity (activities)** (occupations)? If you are retired, sick, or temporarily unemployed, then please give your occupation(s) when you were working. If your primary occupation is a homemaker, please list that in addition to any income generating activities.

Activity (from activity that generates most income to least) & # years
i.
ii.
iii.

A14) What is your **contribution to total household income** (percentage)? %

**Section B: Use of the marine environment**

B1) When you visit the beach or go out on the water, which activities do you undertake on your visit(s)? (check all that apply)

- Beach walking & sunning
- SCUBA diving
- Power-boating
- Sailing
- Dining/Entertainment
- Snorkelling
- Swimming
- Fishing
- Other (identify)
- Viewing historical/archaeological sites

[If activities include fishing, go to SECTION C, if not SKIP SECTION C]

[If activities include SNORKELLING or SCUBA DIVING, go to B2, if not go to B3]

B2) What kind of marine experience are you looking for? (viewing of speices of marine life and/or marine environment)? (list)

B3) Did you know that Shoal Bay-Island Harbour is a MARINE PARK?

yes / no

B4) How often do you visit Shoal Bay-Island Harbour Marine Park?

Never / # times/year

[If interviewee visits the Park, go to SECTION D, if never visits Marine Park, SKIP SECTION D]
**Section C: Fishing**

C1) Please describe your typical fishing trip - use more paper if necessary

<table>
<thead>
<tr>
<th>Target species &amp; Gear</th>
<th>Frequency of effort</th>
<th>Location &amp; Habitat</th>
<th>Estimated catch</th>
<th>Type of operation</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>(# of times per week or season, how often do you go fishing, &amp; when?)</td>
<td>(Describe where you go - use a map if necessary - is it a reef, seagrass, deep sea, etc.)</td>
<td>(Amount - # of fish &amp; weight [lbs] or average size)</td>
<td>(Commercial, subsistence, recreational – what do you do with your catch?)</td>
</tr>
<tr>
<td>Species 1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Species 2</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Species 3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

C2) For each of the species listed in C1, how is their availability (abundance or ease of catch) compared to ten years ago?

Species 1: much higher / higher / same / lower / much lower / don’t know
Species 2: much higher / higher / same / lower / much lower / don’t know
Species 3: much higher / higher / same / lower / much lower / don’t know

C3) Do you own or have **access to a boat** that you regularly fish from? yes / no

C3a) Do you own the vessel or are you crew? own / rent / borrow / crew

C3b) What type of vessel? power / sail / other (identify)

C3c) Hull material? fiberglass / wood / other (identify)

C3d) What is the vessel length? ft

C3e) How many persons usually go out on this vessel? #

[Repeat the above for multiple vessels, mark to the side]

C4) Are there any **specific months** when there is **increased targeted fishing activity**, where, and why (e.g. grouper spawning or other fish aggregations, lobster crawl, turtles mating season, etc.)

Species Months (Start - End) Where (location & habitat) Why

1._____________
2._____________
3._____________
### Section D: Shoal Bay-Island Harbour Marine Park

**D1**) What **attributes are important** to you in choosing **Shoal Bay-Island Harbour Marine Park** over another local destination?

<table>
<thead>
<tr>
<th>Rate from</th>
<th>Most important</th>
<th>Least Important</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accessibility</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>Quality of beaches</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>Quality of fishing</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>Restaurants/entertainment</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>Clear water</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>Other (identify)</td>
<td>1</td>
<td>2</td>
</tr>
</tbody>
</table>

**D2**) When you visit Shoal Bay-Island Harbour Marine Park, what activities are you interested in participating in?

<table>
<thead>
<tr>
<th>Rate from</th>
<th>Most interested</th>
<th>Least Interested</th>
</tr>
</thead>
<tbody>
<tr>
<td>Beach walking &amp; sunning</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>Sailing</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>Power-boating</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>Swimming</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>Snorkelling</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>SCUBA diving</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>Dining/entertainment</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>Viewing historical/archaeological sites</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>Fishing</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>Other (identify)</td>
<td>1</td>
<td>2</td>
</tr>
</tbody>
</table>

**D3**) Are there any other activities that you would like to participate in that are not currently available? (identify)

**D4**) Should any activities **NOT** be allowed in the Park? (identify)
D5) Do you support the implementation of a USER FEE in order to participate in the activities listed previously (Question D2) in the Park if you knew that the money from this fee would go towards the management of the Park?

yes / no

[If yes, go to D6, if no, skip to D7]

D6) If YES, which of these activities should have an associated fee & how much would you be willing to pay? (check appropriate)

<table>
<thead>
<tr>
<th>Activity</th>
<th>No fee</th>
<th>$1-$2</th>
<th>$3-$5</th>
<th>$6-$10</th>
<th>$11-$20</th>
<th>$21-$30</th>
<th>over $30</th>
</tr>
</thead>
<tbody>
<tr>
<td>Park entrance</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>Beach walking and sunning</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>Sailing</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>Power-boating</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>Swimming</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>Snorkelling</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>SCUBA diving</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>Dining/entertainment</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>Viewing historical/sites</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>Fishing</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>Other</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
</tbody>
</table>

D6a) If NO, why not?

D7) Do you support the ban of fishing inside the park boundaries? yes / no

D7a) If NO, why not?

D8) What is your overall impression of Shoal Bay-Island Harbour Marine Park? (circle one)

excellent / pretty good / fair / just okay / poor

Section E: Perception of the marine environment and policy

E1) What is the **current level of fishing activity** throughout Anguilla? (circle one)

high / correct level / low / none / don’t know

E2) What is the **current level/quantity of tourism activity** throughout Anguilla? (circle one)

high / correct level / low / none / don’t know
E3) What is the **current condition** of Anguilla’s coral reefs compared to ten years ago? (circle one)

much better / better / same / worse / much worse / don’t know

E4) What is the **current condition** of Anguilla’s beaches compared to ten years ago? (circle one)

much better / better / same / worse / much worse / don’t know

E5) In ten years, what do you feel will be the **top negative impact to Anguilla’s marine environment**?

over-fishing / pollution / coastal development / hurricane or storms / other (identify)

E6) What is your over-all impression of the **management of Anguilla’s Marine Parks**? (circle one)

excellent / pretty good / fair / just okay / poor / don’t know

E7) Do you support a **ban of spearfishing inside Anguilla’s Marine Parks**? yes / no

[If yes, go to E8, if no, SKIP to E7b]

E7b) If NO, why not?

E8) What is overall impression of the **enforcement of Fishing Regulations in Anguilla**? (circle one)

excellent / pretty good / fair / just okay / poor / don’t know

E9) Who should be responsible for the **management of Shoal Bay-Island Harbour Marine Park**? (circle one)

the community / government / Anguilla National Trust / a collaborative arrangement / don’t know / other (identify)

E9a) If YES for a collaborative arrangement, between which organisations/institutions? (circle all that apply)

the community / government / Anguilla National Trust / other (identify)

E10) How important are these **sources of information** to your knowledge/understanding of the following:

i. the **marine environment**: types and locations of different species; fish behaviour; tides; etc.

ii. **marine management**: fishing rules and regulations; marine park location and regulations; etc.

(Rate importance - VI (very important), SI (somewhat important); NVI (not very important)
E11) Do you have any additional comments?

4.1.2 Marine use and views survey – Visitors

1) Is this your first visit to Anguilla?
   Yes / No

2) How many persons are in your group? #

3) What is the purpose of your trip?
   Pleasure / Business / Other (identify)

4) What attributes are important to you in choosing Anguilla over another destination?
   (Please rate from 1 to 5, 1 being the most important, 5 being the least important)

<table>
<thead>
<tr>
<th>Rate from</th>
<th>Marine Environment</th>
<th>Marine Management</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cost</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Quality of the beaches</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Quality of fishing</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Rate from</th>
<th>Most important</th>
<th>Least important</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cost</td>
<td>1</td>
<td>5</td>
</tr>
<tr>
<td>Quality of the beaches</td>
<td>1</td>
<td>5</td>
</tr>
<tr>
<td>Quality of fishing</td>
<td>1</td>
<td>5</td>
</tr>
<tr>
<td>Quality of SCUBA diving/snorkelling</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>Clear water</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>Other (identify)</td>
<td>1</td>
<td>2</td>
</tr>
</tbody>
</table>

5) Where are you from (country)?

6) What is your intended length of stay (days)? #

7) What was your method of travel to Anguilla? airplane / sailboat / ferry / power-boat / other

8) Did you know that Shoal Bay-Island Harbour is a MARINE PARK?
yes / no

[If yes, go to 8a, if no, SKIP to 9]

8a) Where did you find out about Shoal Bay-Island Harbour Marine Park? (identify)

9) How often do you visit Shoal Bay-Island Harbour Marine Park?
1st visit / #times/year

10) What attributes are important to you in choosing Shoal Bay-Island Harbour Marine Park over another local destination?

| Rate from | Most important | Least important |
| Accessibility | 1 2 3 4 5 | |
| Quality of beaches | 1 2 3 4 5 | |
| Quality of fishing | 1 2 3 4 5 | |
| Quality of marine life viewing | 1 2 3 4 5 | |
| Restaurants/Entertainment | 1 2 3 4 5 | |
| Clear water | 1 2 3 4 5 | |
| Other (identify) | 1 2 3 4 5 | |

11) During your visit to Shoal Bay-Island Harbour Marine Park, what activities are you interested in participating in and which ones will you do on this visit?

<p>| Rate from (1) Most interested to (5) Least interested | Undertake? |
| Beach walking &amp; sunning | 1 2 3 4 5 | yes/no |
| Sailing | 1 2 3 4 5 | yes/no |
| Power-boating | 1 2 3 4 5 | yes/no |
| Swimming | 1 2 3 4 5 | yes/no |</p>
<table>
<thead>
<tr>
<th>Activity</th>
<th>Rating</th>
<th>Undertake?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Snorkelling</td>
<td>1 2 3 4 5</td>
<td>yes/no</td>
</tr>
<tr>
<td>SCUBA diving</td>
<td>1 2 3 4 5</td>
<td>yes/no</td>
</tr>
<tr>
<td>Dining/Entertainment</td>
<td>1 2 3 4 5</td>
<td>yes/no</td>
</tr>
<tr>
<td>Viewing historical/</td>
<td>1 2 3 4 5</td>
<td>yes/no</td>
</tr>
<tr>
<td>archaeological sites</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fishing</td>
<td>1 2 3 4 5</td>
<td>yes/no</td>
</tr>
<tr>
<td>Other (identify)</td>
<td>1 2 3 4 5</td>
<td>yes/no</td>
</tr>
</tbody>
</table>

11a) If YES for SNORKELLING or SCUBA DIVING, what kind of marine experience are you looking for? (viewing particular species of marine life and/or marine environment) (identify)

11b) Have you been or do you intend to SNORKEL or SCUBA DIVE in any other locations around Anguilla?

yes / no

If YES, WHERE and which activity?

Location Activity

1. snorkelling / SCUBA diving
2. snorkelling / SCUBA diving
3. snorkelling / SCUBA diving

12) Are there any other activities that you would like to participate in that are not currently available in the Park? (identify)

13) Should any activities NOT be allowed in the Park?

14) What are your **typical per day expenses** for this visit to **Anguilla** (total expenses, including hotel, restaurants, entertainment, etc.) (note currency)? $

15) Do you support the implementation of a USER FEE in order to participate in the activities listed previously (Question 11) in the Park if you knew that the money from this fee would go towards the management the Park? yes / no

[If yes, go to 15b, if no SKIP to 15c]
15b) If YES, which of these activities should have an associated fee & how much would you be willing to pay? (Please note: this fee is separate from any gear or rental fee)

<table>
<thead>
<tr>
<th>Activity</th>
<th>No fee</th>
<th>$1-$2</th>
<th>$3-$5</th>
<th>$6-$10</th>
<th>$11-$20</th>
<th>$21-$30</th>
<th>over $30</th>
</tr>
</thead>
<tbody>
<tr>
<td>Park entrance</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td></td>
</tr>
<tr>
<td>Beach walking and sunning</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td></td>
</tr>
<tr>
<td>Sailing</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td></td>
</tr>
<tr>
<td>Power-boating</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td></td>
</tr>
<tr>
<td>Swimming</td>
<td>✔</td>
<td>✔</td>
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<td>✔</td>
<td>✔</td>
<td>✔</td>
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</tr>
<tr>
<td>Snorkelling</td>
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<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td></td>
</tr>
<tr>
<td>SCUBA diving</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td></td>
</tr>
<tr>
<td>Dining/entertainment</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td></td>
</tr>
<tr>
<td>Viewing historical/</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td></td>
</tr>
<tr>
<td>archaeological sites</td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fishing</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td></td>
</tr>
<tr>
<td>Other</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td></td>
</tr>
</tbody>
</table>

15c) If NO, why not?

16) What is your overall impression of Shoal Bay-Island Harbour Marine Park?
excellent / pretty good / fair / just okay / poor

17) Do you have any additional comments?

4.1.3 Guidelines for key informant interviews

Questions for all stakeholders

1. Purpose of interview

2. Information about the informant
   (a) Age
   (b) Where do you live?
   (c) How long have you been living there?
   (d) Position within the community (employment and number of years)
   (e) Level of education (optional)

3. Shoal Bay/Island Harbour Marine Park
   (a) Marine Park awareness
i. Aware that area is a marine park?
ii. Aware of when it was established?
iii. Aware of why it was established?
iv. Aware of marine park regulations and any associated fees?

(b) Activities
i. What activities currently take place within the marine park? (eg swimming, snorkelling, diving, fishing (types of fishing), reef tours, jet skiing, sailing/boating, other water sports)
ii. Do any of these activities have associated user fees?
iii. Are there any activities that should not occur within marine park boundaries?
iv. Are there any activities that currently do not take place within the marine park, but should?
v. Are there any activities that occurred in the park in the past but not any more? / Has there been a change in how the area has been used over the years?
vi. Should activities be allowed in only certain parts of the marine park (ie should the marine park be zoned)?

vii. Which activities should have associated user fees?
viii. Should spearfishing be allowed within the marine park?
• Impact of spearfishing on fish stocks?
ix. Should the moratorium on sea turtle harvesting continue?
• Are you interested in helping to collect information and/or in helping monitor beaches during sea turtle nesting season?

(c) Management
i. Were you consulted regarding the creation of the marine park?
ii. Aware of who currently manages the area?
iii. Who should manage the area?
iv. Role of informant/associated stakeholder group within the management system/ (along the co-management scale – ranging from instructive to informative.

(d) Environmental awareness
i. Has the area changed over the years?

Anguilla Tourist Board and Anguilla Hotel and Tourism Association
1. Is the marine park part of a marketing strategy for Anguilla?
   a. If so, how is it advertised/promoted?
2. Do tourists ask about the marine park?
a. If so, what information do you provide?
3. Impact of tourism on coastal resources?
a. Impact of tourism on the marine park?
4. Role of nature-based tourism?
5. What are the opportunities and constraints of managing the marine park
6. How would you describe the current state of the coastal environment/resources?
7. What is the level of public awareness concerning the marine park?
   a. If it is poor or minimal, how can it be improved?
8. Plans for future coastal development?

Department of Fisheries and Marine Resources
1. Does/Can the DFMR have a role within marine park management?
2. What are the opportunities and constraints of managing the marine park?
3. How would you describe the current state of the coastal environment/resources?
4. What is the level of public awareness concerning the marine park?
   a. If it is poor or minimal, how can it be improved?
5. Plans for future coastal development?
6. Impact of tourism on coastal resources?
a. Impact of tourism on the marine park
7. Role of nature-based tourism

Dive Operator
1. Can you give us an idea of the number of divers/visitors to your dive shop each year, the numbers diving/ snorkelling within SB/IH park itself, and any change in use patterns?
2. High season, low season for divers?
3. Where divers originate from?

Department of Environment and Department of Physical Planning
1. Does/Can the DoE have a role within marine park management?
2. What are the opportunities and constraints of managing the marine park?
3. How would you describe the current state of the coastal environment/resources?
4. What is the level of public awareness concerning the marine park?
   a. If it is poor or minimal, how can it be improved?
5. Plans for future coastal development?
6. Impact of tourism on coastal resources?
   a. Impact of tourism on the marine park
7. Role of nature-based tourism

**Restaurateurs and Hoteliers**
1. What are your occupancy rates?
   a. High season
   b. Low season
2. Number of meals?
   a. High season
   b. Low season
3. Do you advertise the marine park to visitors?
   a. If so, what information do you provide?
   b. Do visitors ask about the marine park?

4.2 Socio-economic monitoring in Soufriere Marine Management Area (SMMA)
Soufriere is a small town located on the south west coast of St. Lucia. The area is an established tourist destination and sustains an important artisanal fishery and has numerous local recreational areas. The Soufriere Marine Management Area (SMMA) is a marine park established to protect and conserve marine resources particularly the well-developed fringing coral reefs which is important to both the fishing and tourism sectors. Geographically, part of the SMMA also falls within the designated Pitons Management Area which is the only World Heritage Site in St. Lucia. The SMMA was formally established by the Government of St. Lucia on July 1st, 1995 with technical assistance from the French following a series of stakeholder consultations and negotiations with an aim to conserve natural coastal and marine resources and facilitate sustainable use of the area. The Agreement to Manage the Soufriere Marine Management Area was reviewed in 1998 and again in 2003. In 2005, a ten year institutional review of the Soufriere Marine Management Association was conducted. Included in the review was a proposed socio-economic monitoring to provide a baseline for future monitoring. Awareness of the social and economic factors affecting the SMMA will allow the management staff to tailor management strategies to suit the current socioeconomic climate. This information gleaned from socio-economic monitoring will also be used to demonstrate to the public and to policy makers the importance of protecting the coastal and marine environment and garner support for revising and implementing new management policies.
### SMMA questionnaire

<table>
<thead>
<tr>
<th>Questionnaire No.</th>
<th>Group:</th>
</tr>
</thead>
<tbody>
<tr>
<td>__________________________</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Interviewer’s Name</th>
<th>Notes:</th>
</tr>
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</table>

All relevant sections must be completed. The name of the “Group” at the top of the questionnaire is critical, that is, coastal resident, fisherman, diver, snorkeller, yachtsman, water taxi operator, hotelier, restaurateur, small business owner, etc. Sections A to F and K must be answered by all respondents. Sections G to J must be answered only by the specific group indicated.

### A. GENERAL

1. How old are you?
   - 15 – 19 yrs ____
   - 20 – 29 yrs ____
   - 30 – 39 yrs ____
   - 40 – 49 yrs ____
   - 50 – 59 yrs ____
   - 60 – 69 yrs ____
   - 70 + yrs ____
   - Not Stated ____

2. Gender?
   - Male _____
   - Female _____

3. Where do you live?
   - Soufriere _____
   - Other district (Please specify) ________________

### B. PERCEPTION ON GOALS AND OBJECTIVES

4. a) Have you heard about the Soufriere Marine Management Area (SMMA[NC2])?
   - Yes _______
   - No __________

   b) If yes, why do you think that the SMMA was set up or what do you think is its role or objective?
   __________________________________________________________________________
   __________________________________________________________________________

5. Who do you think is responsible for maintaining the health of the marine environment (coral reef, fish, beaches, water quality, etc) in and around the SMMA? Tick all that are named. Do not prompt

   - Government of Saint. Lucia _____
   - Department of Fisheries _______
   - SMMA___________
   - Soufriere Foundation _________
   - Soufriere Community _______
   - Town Council ______
   - Environmental Health _______
   - Other ______

6. What do you perceive as the role of the SMMA Rangers?
7. What do you perceive as the role of the SMMA Manager?

________________________________________________________________________

8. What do you perceive as the role of the Board of Directors?

________________________________________________________________________

9. a) In your opinion, has the SMMA done anything for the Soufriere community that is noteworthy or that has worked well?
   Yes_________ No__________

   b) If yes, what has the SMMA done for the Soufriere community that is noteworthy or that has worked well?

________________________________________________________________________

10. a) In your opinion, is the SMMA contributing sufficiently to the Soufriere community?
    Yes __________ No ____________

    b) If no, how can the SMMA play a more significant role in the community?

________________________________________________________________________

11. Do you think the SMMA is doing more than it should in the community?
    Yes __________ No ____________

    Explain

________________________________________________________________________

C. AWARENESS

The Resource

12. a) Are you familiar with the SMMA zones? Yes __________ No ____________

    b) If yes, name two of these zones . ___________ and ____________

13. a) Are the zones you named important to the Soufriere community?
    Yes __________ No ____________

    b) If yes, how do the named zones contribute to the Soufriere community

________________________________________________________________________

14. How would you describe the condition/health of the following coastal resources (beaches, coral reef, fish, water quality) in the SMMA?

   Scale (5) Excellent (4) Good (3) Average (2) Poor (1) Don’t Know
15. What activities do you think negatively affect marine resources (coral reef, fish, water quality, beaches) within the SMMA? *Tick all that are named. Do not prompt*

- Poor fertilizer and pesticide application
- Poor sewage disposal
- Runoff from land/sedimentation
- Yachting and anchor damage
- Diving
- Litter
- Poor planning
- Over fishing and/or destructive fishing practices
- Other *(Please specify)*

16. From among the answers provided, which activity would you say has had the greatest negative impact on SMMA resources (coral reef, fish, water quality, beaches)? *(Record all detail provided)*

________________________________________________________________________

17. a) Do you think that the degradation of coastal resources (coral reef, fish, water quality, beaches) affects the Soufriere community in any way?

Yes __________ No __________

b) If yes, how do you think that degradation of coastal resources (coral reef, fish, water quality, beaches) affects the Soufriere community? *(Record all detail provided)*

________________________________________________________________________

18. What do you think that the SMMA can do to improve the health and better manage the coastal resources (coral reef, fish, water quality, beaches) in the SMMA?

________________________________________________________________________

________________________________________________________________________

19. What do you think that you can do to improve the health of the coastal resources (coral reef, fish, water quality, beaches) in the SMMA?

________________________________________________________________________

________________________________________________________________________
Enforcement

20. Are you familiar with the rules and regulations that govern the use of the SMMA?
Very Familiar _____ Somewhat Familiar _____ Not Familiar _____ Don’t Know _____

21. Name one of the rules/regulations that govern the SMMA.
________________________________________________________________________

22. To whom do all the rules and regulations governing the SMMA apply? (N.B. not only
the one named above) Tick all that are named. Do not prompt
Fisherman _____ Divers _____ Snorkellers _____ Yachtsmen _____
Tourists _____ Locals ________ Everyone ________ Don’t know ________

23. a) Are there any ongoing conflicts between resource users?
Yes _____ No _____ Don’t Know _____ Not Sure ______
b) If yes, what is the most significant conflict that is ongoing and where is it occurring?
Conflict_____________________________
Area _______________________________

24. Do you have any recommendations for how this conflict can be resolved?
________________________________________________________________________

D. LIVELIHOODS AND ECONOMY

25. What activities are you and family members engaged in that contribute to the
household’s income?

<table>
<thead>
<tr>
<th>Activity</th>
<th>Rank</th>
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<td></td>
<td>(from [1] as the largest income earner, to the smallest income earners [2], [3] etc.)</td>
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</tbody>
</table>
26. a) Has the establishment of the SMMA affected (positively or negatively) your income?
   Yes____ No____
b) If yes, how has the establishment of the SMMA affected your income?
   Increased ___________ Decreased ___________

27. Why do you think that tourists come to Soufriere? (Tick all that apply. Do not prompt)
   Diving and/or Snorkelling _____ Yachting/sailing _______ Honey Moon _______
   Pitons/World Heritage Site _____ Sulphur Springs and/or Botanical Gardens _______
   Sites and attractions _______ Other (Please specify)____________________________

28. a) Has tourism in Soufriere influenced (positively or negatively) your life?
   Yes____ No____
b) If yes, how has tourism in Soufriere influenced your life?
   Positively _____ Negatively ______

29. Would you like to see tourism develop further in Soufriere?
   Yes _______ No ______
   Why?
________________________________________________________________________

30. What other economic (money making) activities would you like to see develop in Soufriere?
________________________________________________________________________
________________________________________________________________________

31. Do you think that the SMMA can contribute more significantly to your livelihood?
   Yes _______ No ______

32. If yes, how do you think that the SMMA can contribute meaningfully to your livelihood?
________________________________________________________________________
________________________________________________________________________

E. FUTURE MONITORING

The Resource

33. Are you aware of any monitoring activities that the SMMA is doing to check on the health of the coastal resources (beaches, coral reef, fish, water quality)?
   Yes_________ No____________

34. If yes, name one monitoring activity that the SMMA is doing to check on the health of the coastal resources (coral reef, fish, water quality, beaches)?
________________________________________________________________________
35. a) Do you see a role for yourself in assisting the SMMA with monitoring?
   Yes_________ No_________

b) If yes, what role do you think that you can play to assist the SMMA with monitoring?
   ______________________________________________________

**Enforcement**

36. a) Do you think that that rules and regulations that govern the SMMA are fair and just?
   Yes_____ No_____

b) To what extent do you think that people comply (voluntarily) with these rules and regulations?
   Always ____ Often ____ Occasionally ____ Rarely ____ Never ____

37. In your opinion, to what extent are the rules and regulations that govern the SMMA enforced (by Rangers, Police, Department of Fisheries)?
   Always ____ Often ____ Occasionally ____ Rarely ____ Never ____

38. Who do you think mostly breaks the rules and regulations that govern the SMMA? *Tick the one that is named. Do not prompt*
   Soufriere fishermen _______ Fishermen from other communities __________
   Divers/Snorkellers _______ Yachtsmen _______ Coastal residents from Soufriere _______
   Other (Please specify) ______________________________________________________

48. Why do you think people break the rules and regulations governing the SMMA?
   ____________________________________________________________

50. Do you feel comfortable reporting someone to the authorities (SMMA Rangers, Department of Fisheries, District Police, Marine Police) who has broken the rules and regulations governing the SMMA?
   **SMMA Rangers** ____ Yes ____ No Why?____________________
   **Department of Fisheries** ____ Yes ____ No Why?________________
   **District Police** ____ Yes ____ No Why?____________________
   **Marine Police** ____ Yes ____ No Why?____________________

51. How do you think that a person who breaks the rules and regulations that govern the SMMA should be punished? *Tick all that are named. Do not prompt*
   No punishment _______ Depends on the offence ______ Released with warning ______
   Pay a fine _____ Banned from SMMA _____ Confiscate gear/equipment ______
   Put in jail _____ Other (Please specify) __________________________________________
52. Do you think that it is best for the SMMA Rangers to originate (come from) and reside (live) in the Soufriere community or elsewhere? *Tick one*

Soufriere community ____ Other community ______ Does not matter ____
Why____________________________________________________________________

53. What do you think that the SMMA can do to encourage people to comply (follow) with the rules and regulations governing the SMMA?

Recognition (Awards) _______ Incentives (training and gear) __________
Better sensitization _________ Contribute to community activities _________
Other ________________________________________________________________

54. What do you think that the SMMA can do to improve enforcement within the SMMA?

Longer sentences _____________ Heftier fines ______________
More rangers ________________ Marine Police base in Soufriere ___________
Other ________________________________________________________________

55. What do you think that you can do to assist with the improvement of compliance and enforcement in the SMMA? [following rules and regulations and punishing those who break them]
________________________________________________________________________

F. PERCEPTIONS ON PERFORMANCE

56. In your opinion, do you think that the SMMA is achieving its objectives?

Yes _____ No ______ Somewhat ______ Don’t know ______

57. Do you think that the SMMA has improved marine resources, it’s uses and activities? *(beaches, coral reef, fish, water quality)*

**Marine Resources** Yes ____ No _____
How?
________________________________________________________________________

**Marine uses and activities** Yes ____ No _____
How?
________________________________________________________________________

58. In your opinion, how effective are the SMMA Rangers in conducting their duties?

Very effective ____ Somewhat effective ____ Not effective ____ Don’t know ____

59. In your opinion, how effective is the SMMA Manager in conducting his duties?

Very effective ____ Somewhat effective ____ Not effective ____ Don’t know ____
60. Do you think that the SMMA has an adequate number of rangers and equipment to effectively carry out its tasks?

**Rangers:** Yes ________ No _______ Don’t know ________

**Equipment:** Yes ________ No _______ Don’t know ________

61. How effectively do you think that the SMMA is being managed?

Very effectively ____ Somewhat effectively ____ Not effectively ____ Don’t know ____

**G. FISHERMEN**

63. In what type of fishing are you engaged? *Tick all that are named. Do not prompt*

Pot ___ Line ___ Seine ___ Deep sea ___ Other *(Please specify)_____

64. What equipment/gear do you own? *Please prompt*

Nets ______________________ *(Please specify type)* Boat ______________
Spear Gun ______________ Fish pots _________
Other *(Please specify)______________________________

65. How much do you spend per week/month (whichever respondent is more comfortable supplying) on the following items?

Gas_________ (w) (m) Boat maintenance ________ (w) (m) Storage rental_______ (w) (m)
Crew (Matlo)_________ (w) (m) Equipment repair/replacement____________________ (w) (m) Other __________________________ (w) (m)

66. How often in a given week do you fish in the SMMA?

Twice a week _____ Three times a week _____ Every day ______ Other *(Please specify)_____

66. List the five most important species (types) that you catch in the SMMA.

**Target Species Name Fishing gear used Name of place harvested**

67. On average, how much (in pounds) reef fish or pot fish do you catch in the SMMA per trip/per day/per week *(let respondent answer using the time frame with which he feels most comfortable)*?

_________________________________________ (trip) (day) (week)

68. On average, how much *(percentage, pounds or description such as ‘most’) reef fish or pot fish caught in the SMMA do you eat and sell? *(Indicate unit used i.e. %, lbs, etc.)*

Eat___________ Sell___________

69. On average, how much (in pounds) pelagic (deep sea) fish do you catch per week/per day/per trip *(let respondent answer using the time frame with which he feels comfortable)*?

___________________________________________ (trip) (day) (week)
70. On average, how much (percentage, pounds or description such as ‘most’) pelagic (deep sea) fish do you eat and sell? (Indicate unit used i.e. %, lbs, etc.)

Eat ___________ Sell ___________

71. Are there any areas in the SMMA that you have difficulty going to or are prevented from using for fishing?

Yes ___________ No ___________

Explain
_______________________________________________________________________
________________________________________________________________________

72. How important, do you think is the health of the marine environment (coral reef, fish, water quality, beaches) to your livelihood?

Extremely important __________ Reasonably important __________

Not important __________ Don’t Know __________

73. Do you think that fishermen contribute to marine environment (coral reef, fish, water quality, beaches) destruction in any way?

Yes ___________ No ___________

Explain
_______________________________________________________________________
________________________________________________________________________

H. DIVERS/SNORKELLERS

74. Rate the current condition of the following dive/snorkel sites, the state of coral and water quality and the abundance and diversity of marine life.

<table>
<thead>
<tr>
<th>Site</th>
<th>State of coral</th>
<th>Water quality</th>
<th>Abundance of marine life</th>
<th>Diversity of marine life</th>
<th>Avg. no. of dives per: (allow respondent to select week or month)</th>
<th>Ave. no. of divers per: (allow respondent to select week or month)</th>
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<tbody>
<tr>
<td></td>
<td>1.Excellent</td>
<td>1.Excellent</td>
<td>1.High</td>
<td>1.High</td>
<td>week</td>
<td>week</td>
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<td></td>
<td>3.Average</td>
<td>3.Average</td>
<td>3.Low</td>
<td>3.Low</td>
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<td></td>
<td>5 Can’t say</td>
<td>5 Can’t say</td>
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<tr>
<td>Coral Gardens</td>
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<tr>
<td>Jalousie</td>
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<td>Piton Wall</td>
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<tr>
<td>Destination</td>
<td>Avg. no. of dives per: (allow respondent to select week or month)</td>
<td>Ave. no. of divers per: (allow respondent to select week or month)</td>
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<td>Superman’s Flight</td>
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<td>Pinnacles</td>
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<td>Grand Caille</td>
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<td>Fairyland</td>
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<td>Anse Chastanet Reef</td>
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<tr>
<td>Turtle Reef</td>
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<tr>
<td>Anse Cochon</td>
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<tr>
<td>Wreck of Lesleen M.</td>
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<tr>
<td>Wreck of Daini Koyomaru</td>
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<tr>
<td>Other (Please specify)</td>
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75. How much do you spend per week/month *(whichever respondent is more comfortable supplying)* on the following items?

Gas _________ (w) (m) Boat maintenance _________ (w) (m) Storage rental _________ (w) (m) Crew _________ (w) (m) Equipment repair/replacement _________ (w) (m) Material _________ (w) (m) Other ________________________________ (w) (m)
76. Are there problems with dive/snorkel access or prohibition/restriction from such in the SMMA?
Yes ____________ No ___________
Explain
_______________________________________________________________________
________________________________________________________________________

77. How important, do you think is the health of the marine environment (beaches, coral reef, fish, water quality) to your livelihood?
Extremely important __________ Reasonably important __________
Not important __________ Don’t Know __________

78. Do you think that divers/snorkellers contribute to marine environment (beaches, coral reef, fish, water quality) degradation in any way?
Yes ____________ No ___________
Explain
_______________________________________________________________________
________________________________________________________________________

I. YATCHSMEN, WATER TAXIS, OTHER BOATMEN

79. How often during a given week do you patronize (visit) local restaurants and other businesses in Soufriere or carry passengers to these places? Please tick one. [Peak: December – April] Off-Peak

[May – November]

**Peak**
Twice weekly_________ Three times weekly_______ Every day_______
Other________________ (Please indicate)

**Off-peak**
Twice weekly_________ Three times weekly_______ Every
day_______ Other________________ (Please indicate)

Repeat Yachtsmen only

When you visit the SMMA, how often do you and your guests patronize (visit) local restaurants and other businesses in Soufriere?
Always ____ Often ____ Occasionally ____ Rarely ____ Never ____

81. Are there problems with mooring/anchorage access in the SMMA?
Yes ____________ No ___________
Explain
_______________________________________________________________________
________________________________________________________________________
82. How important, do you think is the health of the marine environment (coral reef, fish, water quality, beaches) to your livelihood/yachting?

Extremely important __________ Reasonably important __________
Not important __________ Don’t Know __________

83. Do you think that boatmen (yachters, water taxis, etc) contribute to marine environment (coral reef, fish, water quality, beaches) degradation in any way?

Yes __________ No __________

Explain
_______________________________________________________________________
________________________________________________________________________

J. HOTELS, RESTAURANTS & SMALL BUSINESS OWNERS

84. What year was your business established? ________________

85. On average, how many of your customers (divers, snorkellers, tour visitors) visit/use the SMMA per week?

Peak: Divers and snorkellers ___________Tour visitors ___________Other ___________

Off-peak: Divers and snorkellers ___________Tour visitors ___________Other ___________

85. Are there problems with visitor access to your business directly related to the SMMA?

Yes __________ No __________

Explain
_______________________________________________________________________
________________________________________________________________________

86. How important, do you think is the health of the marine environment (coral reef, fish, water quality, beaches) to your business?

Extremely important __________ Reasonably important __________
Not important __________ Don’t Know __________

87. Do you think that your business contributes to marine environment (coral reef, fish, water quality, beaches) degradation in any way?

Yes __________ No __________

Explain
_______________________________________________________________________
________________________________________________________________________

88. Do you see your business as being profitable to you?
89. Do you intend on expanding your business within the next five to ten years?
Yes __________ No __________ Why?
________________________________________

K. ANY ADDITIONAL COMMENTS
________________________________________________________________________
________________________________________________________________________
________________________________________________________________________
________________________________________________________________________
________________________________________________________________________

4.3 Carriacou, Sandy Island/Oyster Bed Marine Protected Area: Socio-economic monitoring (SocMon) survey of nearby communities

4.3.1 Questionnaire

The first four questions are to be filled out by the Research Assistant before conducting interview

Date of survey: dd-mm-yy……………………………………… _________
Start time: ……………………………………………………….. _________
Interviewer ID: ……………………………………………………_______
Community: ………………………………………………………_______

Research Assistant Introduction
The Carriacou Environmental Committee, along with Caribbean Regional Environmental Programme, are conducting a baseline SocMon study to assess and monitor the main activities within the Sandy Island / Oyster Bed area, to include, Fishing, Diving and Recreation. The information collected will assist in identifying the relationship or impact of the Marine Park Area [MPA] implementation on the livelihood of stakeholders and activities, within the study area. In addition, the SocMon will provide information on how to apply the best management strategy for the MPA, its stakeholders, marine resources and appropriate awareness programs. Simply answer as well as you can. It is important for you to know your answers will be kept confidential. The questions will take no more than 20 minutes of your time.

Record the gender without asking it

1) Male  Female
2) How old are you (read out categories)
15-20 21-26 26-30 31-35 36-40 41-45 46-50 51-55 56-60 61-65 66-over
(guess the respondent’s age if he/she is unwilling to give it)

3) Where do you live?
Harvey Vale
Hillsborough
L’Esterre
Paradise Beach
Belmont/Bellevue
Bogles
Windward
Mt. Pleasant
Others_______________________

4) What religion are you? (Read out categories)
Catholic
Anglican
Pentecost
Seven Days
Evangelist
Other_______________________

5) No. of Dependants [choose age range]:
? 0-5
? 6-10
? 11-20
? 21-30
? 31-40
? 41-60
? Over 60

6) What was your highest level of education?
None  Primary  Secondary  College  University-Bachelors
Post-graduate studies- Masters, Doctorate
7) What is your occupation? _____________________________

8) Are you employed Full Time Part Time Sporadically
Other_______________________

9) How much do you earn monthly? (read out categories)
10) Have you ever heard about the Sandy Island /Oyster Bed Project?
Yes No

What have you heard?

11) Thank you. In your own words, please describe the current state of Sandy Island/Oyster Bed Area:


12) Would you say you visit Sandy Island/Oyster Bed Area: Regularly, Often, Seldom, Never. If “never” skip next question and continue with question #18 substituting “you” with “others”

13) Have you visited Sandy Island in the last two years? Yes No

14) Has the general state of Sandy Island/Oyster Bed Area gotten better, worse or stayed the same in the past two years?
Better Worse Stayed Same

15) If “better” or “worse” please explain


16) When you visit Sandy Island/Oyster Bed Area is it for: Recreation, Work, Other
If “other,” please describe:

17) What kind of recreational activities do you or others engage in- on or near Sandy Island/Oyster Bed Area?
Walk bathe picnic fish dive bird watch cook Other

18) What kind of occupational (work related) activities do you or others engage in- on or near Sandy Island?
19) In your opinion, how much harm are these activities causing Sandy Island/Oyster Bed Area?
Much  Some  Little  None  Unsure

20) Please tell me about any type of damage you see occurring on Sandy Island/Oyster Bed Area:
Sand mining, plant destruction, littering, dumping, fires, beach erosion/destruction, animal habitat destruction, reef destruction,
Other________________________________________________________________________
________________________________________________________________________

21) Which problems are most severe? Please list the problems in order of most severe to least severe.
________________________________________________________________________
________________________________________________________________________

22) The creation of rules and regulations regarding the use of the area around Sandy Island/Oyster Bed Area would help the problem…
Much  Some  Little  None  Unsure

23) What is a Marine Protected Area?
________________________________________________________________________
________________________________________________________________________
*If respondent does not know,*

24) Does the term “Marine Protect Area” seem positive or negative to you?
________________________________________________________________________
________________________________________________________________________

25) What types of plants are found on Sandy Island?
Palm, coconut trees, vines, shrubs, others
________________________________________________________________________

26) What type of animals can be found on or near Sandy Island/Oyster Bed Area?
________________________________________________________________________

27) What type of animals/Fish can be found in the reefs and sea surrounding Sandy Island?
________________________________________________________________________
________________________________________________________________________

28) How would you rank the fish catch from the Sandy Island/Oyster Bed Area?
29) Increased human presence on or near Sandy Island/Oyster Bed Area affects these plants and animals…
Much Some Little None Unsure

30) Do you know where the Oyster Bed is in Carriacou?
Yes No Unsure

31) How important is it to keep Sandy Island/Oyster Bed Area as a healthy, thriving place for plants and animals?
Very Some Little None Unsure

32) To what extent would you agree with the statement “I would support a Sandy Island/Oyster Bed Area marine area conservation effort”?
Strongly Agree Agree Neutral Disagree Strongly Disagree

33) Why?
__________________________________________________________________

Thank you. You’re doing very well. We have just a few more questions and then we are done.

34) To what extent do you agree with this statement: “Sandy Island and its surrounding marine environment are important to me”?

Strongly Agree Agree Neutral Disagree Strongly Disagree

35) Why did you respond this way?
__________________________________________________________________

36) To what extent do you agree with the statement “I think that Sandy Island and its surrounding marine environment are in danger”
Strongly Agree Agree Neutral Disagree Strongly Disagree

37) Why did you respond this way?
__________________________________________________________________

38) In your opinion do you think protecting Sandy Island/Oyster Bed Area will save the Plants, Fishes, Corals and Islands?

Please explain your answer:
__________________________________________________________________
__________________________________________________________________
__________________________________________________________________

Thank you. The last few questions are on people’s ‘willingness to pay’ to visit Sandy Island/Oyster Bed Area:
39) In your opinion who do you think should pay for the protection of Sandy Island/Oyster Bed Area: Check all that apply.

Carriacouians  Petite Martiniqueians  Grenadians from the Mainland
Native Visitors [Carriacouians from aboard]  Foreign Tourists
Government  Other
__________________________________________________________________
__________________________________________________________________
__________________________________________________________________

How much should these sets of visitors pay?

If indicated above, Carriacouians and Petite Martiniqueians: 1 EC, 2 EC, 5 EC, 10, EC, other
__________________________________________________________________

Visitors [Carriacouians from aboard]
1 EC, 2 EC, 5 EC, 10, EC
__________________________________________________________________

Grenadian from the Mainland:
1 EC, 2 EC, 5 EC, 10, EC
__________________________________________________________________

Foreign Tourists.
1 US, 2 US, 5 US, 10 US
__________________________________________________________________

Lastly. Do you have any other comments?
__________________________________________________________________
__________________________________________________________________
__________________________________________________________________
4.4 Socio-economic monitoring in Cades Bay Marine Reserve, Antigua and Barbuda

The primary purpose of this socioeconomic assessment is to provide an avenue to demonstrate some of the principles that were the basis of a training course on Social and Economic Monitoring (SocMon) in Marine Protected Areas (MPAs) held in St. Lucia, 9-13 May 2005. The Cades Bay Marine Reserve (CBMR), one of the four established marine reserves of Antigua and Barbuda, is the main study site from which baseline data on the social and economic conditions will be studied. The project is jointly funded by UNEP-CAR/RCU and NOAA. The project has three (3) focal areas on which specific objectives are based. These are management, monitoring and communication. Most of the primary data were collected through interviews carried out in the three (3) communities, Old Road, Urlings and Johnsons Point, using a household questionnaire. Emphasis was placed on key stakeholders such as fishermen and their activities since the three main communities were traditionally fishing villages. It is evident that fishing is still a major economic activity but all three communities depend on tourism-based activities as sources of income (James 2007).

4.4.1 Cades Bay Marine Reserve (CBMR) questionnaire

<table>
<thead>
<tr>
<th>Questionnaire Number: _______</th>
<th>Location : (Village) __________________________</th>
</tr>
</thead>
</table>

**Compliance and Enforcement**

2) On a scale of 1 to 5 (1=No Compliance, 5=Full Compliance) to what extent do people comply with coastal management rules and regulations? *(Fisheries Regulations, DCA rules, etc.)*

3) On a scale of 1 to 5 (1=No Enforcement, 5=Full Enforcement) to what extent are the rules and regulations enforced? *(DCA, Fisheries, Government enforcing laws)*

4) On a scale of 1 to 5 (1=No Participation, 5=Full Participation) to what extent do you participate in or is involved in making decisions on how the coast including CBMR is managed? *

**Livelihood**

5) Has your means of income changed since the establishment of CBMR? *(1999)*

? Yes ? No

How?

**Marine Resource Uses and Activities**

6) How would you describe current coastal resource conditions on a scale from Very Good (5), Good (4), Not Good Not Bad (3), Bad (2), to Very Bad (1)

Amount of Fish seen or caught _____ The Quality of Water _____ Condition of
Beaches_______ Condition of Coral reefs ______
7) Has the CBMR enhanced the uses of marine resource and increased the number of activities within the community?  ? Yes  ? No
How?______________________________________________________________

**Governance**

8) Were your views represented in how CBMR would be managed when it was established?
   ? Yes  ? No
Are your views better represented now?  ? Yes  ? No

**Fish Technology and Practices (only fishers)**

9) What changes have been made in fishing technology and practices since the establishment of the CBMR? *(Changes in boats, fishing gear, how you fish, etc..)*

________________________________________________________________________
________________________________________________________________________

10) What changes in the quality and quantity of marine resources have you noticed over the past 5years?

________________________________________________________________________

<table>
<thead>
<tr>
<th>Amount of Fish/Lobster/Conch:</th>
<th>Positive</th>
<th>Negative</th>
<th>No change</th>
<th>Don’t know</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Quality of Water:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Condition of Beaches:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Condition of Coral reef:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**General (All)**

11) What problem do you think will occur with the establishment of CBMR?
________________________________________________________________________

________________________________________________________________________

12) What are some of the things you would like to see happening in the CBMR area?
________________________________________________________________________
5 INFORMATION FOR THE NEGRIL MARINE PARK’S FISHERIES MANAGEMENT PLAN

Years of overfishing and habitat destruction have lead to a decline in fisheries throughout the Negril Marine Park (NMP). Still today, the communities around the NMP are dependent on fisheries resources for food and income. Currently, there is no active fisheries management for the park and the benefits the fisheries provide will continue to decline if no management plan is implemented. The Negril Coral Reef Preservation Society is looking to improve the fish stocks through the development of a Fisheries Management Plan (FMP) within the framework of the Park’s general management plan and governing policy.

The main objectives of this research were to determine the kind of information needed for the FMP; how the information should be generated and the implications of information use for management. A socio-economic monitoring survey, 1998 Jamaica fisheries census, fisheries management plan consultation meetings and interviews with charter boat fishers and restaurant owners provided adequate means for demonstrating the generation of information relevant to the FMP (Blackman 2005).

5.1 Individual and household survey for Negril Marine Park by the Negril Coral Reef Preservation Society (NCRPS)

This survey is being done by the non-governmental organization that manages the Negril Marine Park so as to improve how the area is managed. Any information you give cannot be traced back to you. You will not be personally identified in any reports. So that you know what is going on, you will be invited to a meeting where the information from the whole survey will be presented. After a few years you may be asked questions again to see if things have changed.

Date ______________ Settlement
yyyy – mm – dd

Record questionnaire number, settlement, respondent identity and address on separate sheet Write DK = do not know and NR = no response as appropriate by the question where necessary

This survey asks the head of the household about his or her opinions, and about other people in the household. I would like to speak to the head of the household or the person closest to head.

1. What is your relationship to the head of the household?
   [ ] head of household
   [ ] wife / husband of head
   [ ] common law partner of head
   [ ] child of head / head’s spouse / head’s partner
The Negril Marine Park stretches along the coast from the mouth of the New Savannah River, by Broughton, in the south to Davis Cove in the north … and out to sea for two miles from the coast. This is what it looks like on a map … and this is where we are now. Discuss if necessary.

SHOW MAP, KEEP NEARBY TO REFER TO, TELL PERSON THEY CAN KEEP IT AFTERWARDS

2. Have you heard about the Negril Marine Park before now?
   [ ] yes … In about what year did you first hear of the NMP? ______
   [ ] no

The Negril Coral Reef Preservation Society, or NCRPS for short, is the non-governmental organization responsible for managing the Negril Marine Park along with the government.

3. Have you heard about the Negril Coral Reef Preservation Society, or NCRPS, before now?
   [ ] yes … In about what year did you first hear of the NCRPS? ______
   [ ] no

In order to better manage the NMP the NCRPS needs to know how people use the area now.
We would like to know how you and others in your household, that includes all of the people who live in this house, use the Negril Marine Park and its coastline for both work and pleasure.

4. What activities do you and others in your household do in the Negril Marine Park and along its coast for work or fun?

5. Can you describe this activity in a bit more detail?

6. Does this activity typically generate income, or not?

7. Where along the area of the Negril Marine Park does the activity mostly take place?

<table>
<thead>
<tr>
<th>Q4</th>
<th>Q5</th>
<th>Q6</th>
<th>Q7</th>
</tr>
</thead>
<tbody>
<tr>
<td>Activity done in NMP e.g. fishing, tourism</td>
<td>Specifics of activity e.g. snapper, diving</td>
<td>Income from it Put Yes or No</td>
<td>Location of activity e.g. Orange Bay, whole area</td>
</tr>
<tr>
<td>Q4</td>
<td>Q5</td>
<td>Q6</td>
<td>Q7</td>
</tr>
<tr>
<td>----</td>
<td>----</td>
<td>----</td>
<td>----</td>
</tr>
<tr>
<td>Activity done in NMP e.g. fishing, tourism</td>
<td>Specifics of activity e.g. snapper, diving</td>
<td>Income from it Put Yes or No</td>
<td>Location of activity e.g. Orange Bay, whole area</td>
</tr>
<tr>
<td>b.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>c.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>d.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>e.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

8. What, in your own opinion, should be the main purpose of the Negril Marine Park?

________________________________________________________________________________________

9. Thinking back from when you first knew of it, has the Negril Marine Park been beneficial?

[ ] Yes  \[ ] No

\[ ] Yes  \rightarrow How?

\[ ] No  \rightarrow Why?

________________________________________________________________________________________

10. The marine resources of the area include the beaches, seagrass and mangroves, reefs and fisheries. How would you generally describe the condition of each of these marine resources based on the locations in the NMP that you are familiar with (tick choice, write DK or NR).

   a. ten years ago (1995)
   b. five years ago (2000)
   c. today (2005)?
<table>
<thead>
<tr>
<th>10 (a) Beaches</th>
<th>Ten years ago — 1995</th>
<th>Five years ago — 2000</th>
<th>Today — 2005</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>very good</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>good</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>neither good nor bad</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>bad</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>very bad</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>10 (b) Seagrass beds and mangroves</th>
<th>Ten years ago — 1995</th>
<th>Five years ago — 2000</th>
<th>Today — 2005</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>very good</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>good</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>neither good nor bad</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>bad</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>very bad</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>10 (c) Coral reefs and shallow reef fisheries</th>
<th>Ten years ago — 1995</th>
<th>Five years ago — 2000</th>
<th>Today — 2005</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>very good</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>good</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>neither good nor bad</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>bad</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>very bad</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>10 (d) Offshore, deep water, fisheries</th>
<th>Ten years ago — 1995</th>
<th>Five years ago — 2000</th>
<th>Today — 2005</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>very good</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>good</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>neither good nor bad</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>bad</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>very bad</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

11. Thinking about these marine resources of the park (beaches, seagrass, mangroves, reefs, fisheries), what are the three main problems that you have observed with these resources?

_____________________________________________________________________

_____________________________________________________________________
12. What are the three main solutions that you recommend to solve the three problems?

<table>
<thead>
<tr>
<th>Q11 Nature of problem</th>
<th>Q12 Recommended solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

13. What, if anything, have you seen done that has really improved the NMP in any big way?

_________________________________________________________________________________

14. Whose responsibility is it to solve problems within the Marine Park? (tick all that apply)
   [ ] Government agencies e.g. NEPA, Fisheries Division
   [ ] Negril Coral Reef Preservation Society (NCRPS)
   [ ] Negril Area Environmental Protection Trust (NEPT)
   [ ] Negril-Green Island Area Local Planning Authority (NGIALPA)
   [ ] Parish Development Councils (Hanover and Westmoreland)
   [ ] Fishermen, watersports operators etc. who work inside the NMP
   [ ] Businesses like hotels, tour operators, around the marine park
   [ ] Other people who live or farm in the area around the marine park
   [ ] Other (not listed) Identify________________________________

15. Which of the above would you say should have the most responsibility for taking decisions about managing the marine park? (tick only one)
   [ ] Government agencies e.g. NEPA, Fisheries Division
   [ ] Negril Coral Reef Preservation Society (NCRPS)
   [ ] Negril Area Environmental Protection Trust (NEPT)
   [ ] Negril-Green Island Area Local Planning Authority (NGIALPA)
   [ ] Parish Development Councils (Hanover and Westmoreland)
[ ] Fishermen, watersports operators etc. who work inside the NMP
[ ] Businesses like hotels, tour operators, around the marine park
[ ] Other people who live or farm in the area around the marine park
[ ] Other (not listed) Identify__________________________

16. How much influence do you think that you can have on how the NMP is managed?
[ ] Very much influence
[ ] Much influence
[ ] Some influence
[ ] Little influence
[ ] No influence at all

17. Have you ever participated in any meeting, workshop or other event organized by NCRPS or any other agency to get your input into matters related to the Negril Marine Park?
[ ] Yes
       Describe?
[ ] No
       Reason?

18. What would cause you to contribute to decisions concerning how the NMP is managed?

_____________________________________________________________________

19. If there was no Negril Marine Park tomorrow, just the regular sea coast without a park, would it make a difference to you?
[ ] Yes
       How?
[ ] No
       Why?

20. Various types of fishing and tourism are two of the main uses of the Negril Marine Park. Do you think that fishing and tourism can thrive well together in the NMP to provide livelihoods?
[ ] Yes
       How?
[ ] No
       Why?

21. What do you think about the amounts of fishing and tourism that you see in the whole NMP?
<table>
<thead>
<tr>
<th>Q21</th>
<th>Amount of fishing</th>
<th>Amount of tourism</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Way too much</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Too much</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Just right</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Too little</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Way too little</td>
<td></td>
</tr>
</tbody>
</table>

22. Do you think that fishermen of various ages, types of fishing etc. can work together among themselves to solve fishery problems in the marine park?
   [ ] Yes → How?
   [ ] No → Why?

23. About how many times a week do you normally have a meal that includes seafood (fish, lobster, conch)? Times per week ____

24. Of the seafood that you eat over the course of a month, in what order would you rank where that seafood came from according to the amount of it that you have eaten? (insert 1, 2, 3)
   [ ] From within the Negril Marine Park
   [ ] From Jamaica, but outside of the Negril Marine Park
   [ ] From outside of Jamaica, imported seafood

25. Based on these three sources of the seafood that you eat, where do you mostly buy each?

<table>
<thead>
<tr>
<th>Source of seafood consumed</th>
<th>Where seafood is mostly purchased</th>
</tr>
</thead>
<tbody>
<tr>
<td>From within the Negril Marine Park</td>
<td></td>
</tr>
<tr>
<td>From Jamaica, but outside of the NMP</td>
<td></td>
</tr>
<tr>
<td>From outside of Jamaica, imported seafood</td>
<td></td>
</tr>
</tbody>
</table>

In order to relate your information to the 2001 national census and other studies that describe the Negril area we need to get some basic information on the household in which you live.

26. Sex of respondent (observed)
   [ ] Male  [ ] Female

27. What is your date of birth? _____________ yyyy – mm – dd

28. How old were you on your last birthday? _______ years old
29. Which is the last type of school that you attended?
[ ] 1. none
[ ] 2. primary (all-age to 10y)
[ ] 3. secondary (past 11y)
[ ] 4. post-secondary / technical
[ ] 5. university
[ ] 6. Other __________________________

30. What is your religion, if any, or the denomination that you belong to?
[ ] 1. Anglican
[ ] 2. Jehovah’s Witness
[ ] 3. Moravian
[ ] 4. Rastafarian
[ ] 5. Seventh Day Adventist
[ ] 6. Baptist
[ ] 7. Methodist
[ ] 8. Pentecostal
[ ] 9. Roman Catholic
[ ] 10 Other __________________________

31. What job or type of work is your primary or main source of income?
__________________________________________

32. What job or type of work is your second most important source of income?
__________________________________________

33. How many other people, including children, live in this household (under this roof)?
___ people

34. For each person >16 in the household, please answer similar questions to those I just asked

<table>
<thead>
<tr>
<th>Question #</th>
<th>Q26</th>
<th>Q28</th>
<th>Q29</th>
<th>Q30</th>
<th>Q31</th>
<th>Q32</th>
</tr>
</thead>
<tbody>
<tr>
<td>Relationship of household member to respondent</td>
<td>Sex</td>
<td>Age</td>
<td>Educate</td>
<td>Religion</td>
<td>Primary income source (write out)</td>
<td>Secondary income source (write out)</td>
</tr>
<tr>
<td>M / F</td>
<td>#</td>
<td>Use code</td>
<td>Use code</td>
<td>source (write out)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

35. What are the 3 most important occupations, or types of work, of household members >16 in order of the amount of income that they bring in to the household over the year?
36. What else, if anything, brings income into the household, including from overseas sources?

37. Are there additional sources of household income that you would rather not describe?
[  ] Yes
[  ] No

38. What other income-generating activities do members of the household want to get involved in, but have not yet got involved in the particular type of work?

39. For each alternative income-generating activity, what is the main reason why it has not been done yet by household members?

<table>
<thead>
<tr>
<th>Q38 Alternative income-generating activity</th>
<th>Q39 Reason for not pursuing it yet</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
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<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

40. Are you or others in the household currently being trained for any specific new occupation?
[  ] Yes
     ➔ What?

[  ] No
     ➔ Why?

41. How long has the household been located in this settlement?
Years ago___________   Year date____________

42. If, over the past 5 years, members >16 have joined the household from somewhere else, or left the household to go and live somewhere else,
   a. where have they come from?
   b. where have they gone to?
<table>
<thead>
<tr>
<th>Q42 a. Where members joined from</th>
<th>Q42 b. Where members left to go to</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
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<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

43. What organizations, of any kind, do people in this household belong to?

<table>
<thead>
<tr>
<th>Self or relationship of household member to respondent</th>
<th>Kind of organization e.g. fishing cooperative, church group, sport team</th>
<th>Name of organization (if known)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

44. Which is the best way to get information to you about the Negril Marine Park?

- [ ] Television
- [ ] Radio
- [ ] School
- [ ] Workplace
- [ ] Flyers/posters
- [ ] Newspapers
- [ ] Area liming spot
- [ ] Organization (Name)

- [ ] Other
(Please describe)

45. If you wanted to get information about the Negril Marine Park to the attention of the NCRPS management of the park, what would you do to ensure it is successfully communicated?

46. To compare your area to others around the Negril Marine Park we ask you about property

   - a. Material(s) of outer walls [ ] wood [ ] concrete [ ] metal
   - b. Material(s) of roof [ ] wood [ ] metal [ ] tile
   - c. Material(s) of floors [ ] wood [ ] concrete [ ] tile
d. Does household own [ ] land [ ] house [ ] boat [ ] car

[ ] TV [ ] refrigerator [ ] stove [ ] stereo

e. Main source of lighting [ ] electricity [ ] kerosene [ ] other

f. Main source of water [ ] piped into house [ ] piped into yard [ ] standpipe

47. The ability to make choices is often determined by household income. What do you think is the household’s weekly, monthly or annual income from everyone’s sources of income?

<table>
<thead>
<tr>
<th>Weekly income</th>
<th>Monthly income</th>
<th>Annual income</th>
</tr>
</thead>
<tbody>
<tr>
<td>[ ] less than 1,000</td>
<td>[ ] less than 3,500</td>
<td>[ ] less than 40,000</td>
</tr>
<tr>
<td>[ ] 1,000 – 1,499</td>
<td>[ ] 3,500 – 5,999</td>
<td>[ ] 40,000 – 79,999</td>
</tr>
<tr>
<td>[ ] 1,500 – 5,999</td>
<td>[ ] 6,000 – 24,999</td>
<td>[ ] 80,000 – 299,999</td>
</tr>
<tr>
<td>[ ] 6,000 – 9,999</td>
<td>[ ] 25,000 – 39,999</td>
<td>[ ] 300,000 – 499,999</td>
</tr>
<tr>
<td>[ ] 10,000 – 19,999</td>
<td>[ ] 40,000 – 79,999</td>
<td>[ ] 500,000 – 999,999</td>
</tr>
<tr>
<td>[ ] 20,000 – 29,999</td>
<td>[ ] 80,000 – 129,999</td>
<td>[ ] 1,000,000 – 1,499,999</td>
</tr>
<tr>
<td>[ ] 30,000 – 59,999</td>
<td>[ ] 130,000 and over</td>
<td>[ ] 1.5 million – 2,999,999</td>
</tr>
<tr>
<td>[ ] 60,000 and over</td>
<td></td>
<td>[ ] 3 million and over</td>
</tr>
</tbody>
</table>

48. Is there anything else that you would like to say about the NMP that I have not asked about?

____________________________________________________________________________________________________________________________________

49. Is there anything you would like to know about the NMP? I will pass along your questions.

____________________________________________________________________________________________________________________________________

50. Would you attend the meeting where the results of the survey will be presented? [ ] Y [ ] N

On behalf of the NCRPS — Thanks very much indeed for your assistance. Please keep the map
6 SOCIO-ECONOMIC PROFILE OF FISHERIES IN THE GRENADINES ISLANDS

For proper and effective management of fisheries, there is a need to understand not only their biophysical environment but also their demographic and socio-economic environment and dynamics. From June to August 2006, students from the Centre for Resource Management and Environmental Studies (CERMES) embarked on a trans-boundary socio-economic and livelihood assessment of fisheries in the Grenadines. The study was divided into two stages and took place in the Vincentian islands of Bequia, Mustique, Canouan, Mayreau and Union Island and the Grenadian islands of Petit Martinique and Carriacou.

The goal of the first stage was to create a basic demographic profile of the fishers and to gather data on their gear and resource-use patterns. This was done through extensive interviews at all of the major fishing villages in the Grenadines. During this stage 267 fishers were interviewed. The second phase of this project aimed to create a more detailed socio-economic profile of the fisheries. This stage involved acquiring more detail on temporal and spatial features of fishing practices, information on the market orientation of the fishers, revenue, expenditures and material style of life (Gill et al. 2007).

6.1 Rapid assessment survey

<table>
<thead>
<tr>
<th>Rapid Assessment/Inventory Survey</th>
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</thead>
<tbody>
<tr>
<td>Location: _______________________</td>
</tr>
<tr>
<td>Respondent #:__________________  Date: ______________</td>
</tr>
</tbody>
</table>

**Respondent Information & Fishing Practices**

1. a) Respondent name:__________________  b) M F
2. a) Age: ________  b) Address: ________________________________
3. a) Is fishing your primary occupation? Y N  
   b) Do you get most of your income from fishing? Y N  
   c) What percentage of your income is from fishing? ______%  
4. How long have you been fishing (years)? ______

**Boat Information**

5. Name of Boat:__________________  Registration Number:______________
6. a) Name of Owner:__________________  b) M F
7. Average number of crew working on boat: _________
8. Name and sex of other crew:

__________________________________________________________________________
9. What gear is used on the boat? 
__________________________________________________________________

10. Length of Boat: _______

11. Type of Boat (wood, fibreglass, pirogue, cigarette, flatstern, other): 
__________________________________________________________________

12. # of engines: ____ Brand: _____________________ Horsepower ______
   Brand: _____________________ Horsepower ______

13. Where do you operate from? ________________________________

14. What kind of fishing do you do? What islands do you mostly fish around?

15. a) Do you know of any places where fish gather to breed?   Y        N
   b) What kind of fish? __________________________________________
   c) Location/s _________________________________________________

16. Will you be willing to take part in a more in depth interview?  Y     N

Contact Info: ____________________________________________________

6.2 In-depth survey

Detailed interview for collecting socio-economic data on Grenadine fisheries

The purpose of this study is to gather detailed socio-economic information on fishing in the Grenadines. This looks at how you fish, sell your fish, fishing expenses and other aspects of your livelihood. Information on individuals will not be shared or reported.

1. Respondent #:_______________ Location_______________ Date__________

Resource Use Patterns: This looks at the different types of fishing that you do and where and when you fish.

2. Are you a: boat owner ?  captain ?  crew member ?  solo fisher ?

3. How many fishing trips do you make per week?

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<thead>
<tr>
<th>J</th>
<th>F</th>
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<th>A</th>
<th>M</th>
<th>J</th>
<th>J</th>
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</tbody>
</table>
4. This table looks at how you would normally fish.

<table>
<thead>
<tr>
<th>Species Group</th>
<th>Average hours fished per trip</th>
<th>Average lbs caught per trip</th>
<th>Where species are caught (island)</th>
<th>Gear Used</th>
<th>What months</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
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<td>5.</td>
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<td>6.</td>
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</tbody>
</table>

Goods and Services: This section will look at how you are able to sell fish and on average what you get for your fish. It also looks at some of the expenses of your fishing trips.

5. How and where do you sell your fish? How much do you get for the fish?

<table>
<thead>
<tr>
<th>Location</th>
<th>Species Group</th>
<th>Price Received per lb</th>
<th>Quantity of catch sold</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<td></td>
<td>Most</td>
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<td></td>
<td>3</td>
<td></td>
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</tr>
</tbody>
</table>
6. Reasons for selling to different merchants:

<table>
<thead>
<tr>
<th>Location</th>
<th>Reliable buyers</th>
<th>Price</th>
<th>Convenience</th>
<th>Other reason(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
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<td>4</td>
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</tr>
</tbody>
</table>

7. How many boats do you own? ______

8. What fishing gear do you own?
   ________________________________________________________________
   ________________________________________________________________

9. What was the initial cost of the:
   boat $__________  engine $__________  gear $__________

10. What are the average costs of the following (per trip):

<table>
<thead>
<tr>
<th>Item</th>
<th>Amount</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fuel and oil</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gear</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Item</td>
<td>Amount</td>
<td>Cost</td>
</tr>
<tr>
<td>-------</td>
<td>--------</td>
<td>------</td>
</tr>
<tr>
<td>Bait</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Food</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

11. How often do you service engine? _________ Bottom Paint? _________


13. What are some of your other fishing costs? (e.g. insurance, repairs)

<table>
<thead>
<tr>
<th>Item</th>
<th>Amount per mth</th>
<th>Amount per yr</th>
</tr>
</thead>
<tbody>
<tr>
<td>Repairs</td>
<td>$_________</td>
<td></td>
</tr>
<tr>
<td>Insurance</td>
<td>$_________</td>
<td></td>
</tr>
<tr>
<td>Gear</td>
<td>$_________</td>
<td></td>
</tr>
<tr>
<td>Other:</td>
<td>$_________</td>
<td></td>
</tr>
<tr>
<td>Other:</td>
<td>$_________</td>
<td></td>
</tr>
</tbody>
</table>

14. If you have a share system in place (for crew), how is the money distributed?

______________________________________________________________

Demographic Information: This is some personal information that will help us to know more about the fishers.

What is your marital status?

- Single ?
- Married ?
- Common law ?
- Divorced ?
- Other: _____________

15. What was the last school you went to?

- Primary ?
- Secondary ?
- Post Secondary ?
- Professional/ Vocational/ Training ?

16. Ethnicity

- African/Negro/Black ?
- Carib ?
- East Indian ?
- Mixed ?
- White/Caucasian ?
- Other: _____________
17. What is your religion?

18. What are your four main sources of income in the past year? (*Ranked and give proportion*)
   1. _____________________________   ________ %
   2. _____________________________   ________ %
   3. _____________________________   ________ %
   4. _____________________________   ________ %

19. Are you the main provider for the household?    Y    N

20. This table looks at who lives in your house and their occupations:

<table>
<thead>
<tr>
<th>Household Members (in relation to household head)</th>
<th>Age</th>
<th>Gender</th>
<th>Primary occupation</th>
<th>Secondary occupation</th>
</tr>
</thead>
<tbody>
<tr>
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</tbody>
</table>

*Material style of life: This section looks at some aspects of your quality of life.*

21. Do you own land? Y    N

22. Is your house you live in:
   Your own ?     rented ?     family /friends ?

23. Type of roof:
   galvanized ?     shingle ?

24. Type of outside structural walls:
   concrete ?     wood ?
The British Virgin Islands is heavily dependent on tourism and the Caribbean spiny lobster (*Panulirus argus*) is one of the delicacies which the visitors enjoy. The British Virgin Islands 1998 Fisheries Management Plan identified signs of overfishing in the lobster fishery throughout the territory with acute overfishing in certain areas. Measures were implemented in the 2003 Fisheries Management Regulations aimed at conserving this species. Among these measures, the closed season for lobster, from March through June, was the one expected by the stakeholders to cause hardship. This closed season was expected to have negative socio-economic impacts on fishers and restaurants. These stakeholders therefore asked for a socio-economic survey to be made. This survey was arranged by the Conservation and Fisheries Department of the Ministry of Labour and Natural Resources which has responsibility for the fishing industry.

The objectives of the survey were to determine the economics of the lobster fishery in respect of expenditure and revenue and describe its social importance to the stakeholders. It was also to update and expand a previous economic survey to specifically include lobster. The survey was also to establish or strengthen linkages among stakeholders for research on the lobster fishery through the use of participatory research methods and to recommend a system of socio-economic monitoring for the lobster fishery. The primary methods for conducting the survey were questionnaires, focus group meetings and key informant interviews (Franklin 2007).


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### 7.1 Fishers’ questionnaire

<table>
<thead>
<tr>
<th>Section A</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Respondent age_____.</td>
</tr>
<tr>
<td>2. Sex of respondent (<em>observed</em>) Male_____. Female_____.</td>
</tr>
<tr>
<td>3. In which area do you live? _________________________________.</td>
</tr>
<tr>
<td>4. Are you a belonger? Y__, N____, N/R___</td>
</tr>
<tr>
<td>5. If not, what is your citizenship? ___________________________.</td>
</tr>
<tr>
<td>6. How long have you been fishing? _________________.</td>
</tr>
<tr>
<td>7. How long have you been fishing lobster? _________________.</td>
</tr>
<tr>
<td>8. What is your mooring site _________________________________.</td>
</tr>
</tbody>
</table>
9. What landing sites do you normally use?

____________________________________.
____________________________________.
____________________________________.
____________________________________.

10. **Boat**
   a) type_____________________________________________ length____ feet
   
   b) engine type: Outboard, Inboard, O/I ______ HP_____

11. What is the current value of the boat and engine? ______________, N/R____.

12. Are you the
   
   Boat owner Y___, N___  Captain? Y___, N___  Crew? Y___, N___ , N/R____.

13. a) Do you normally fish on other boats Y_____, N____

   If yes.

   b) How many other boats do you fish on____

**For boat owner/captain.** –

14. How many Crew members do you have:

   Full time.______, Part time. ________.

   Are any of them related to you?

   1.Full time___,  Part time___, Relationship________________.
   2.Full time___,  Part time___, Relationship________________.
   3.Full time___,  Part time___, Relationship________________.
   4.Full time___,  Part time___, Relationship________________.

15. a) Is there a sharing system for the catch or money? Y___, N___  D/K____

   b) How is the catch or money shared?

   Owner ______%  Captain ______%  Crew, ______%  Boat ______%,

   Engine ______%  Gear_______%, Other________%, D/K____

   ____________________________________________________________________
   ____________________________________________________________________

16. How much of your income do you make from fishing?

   __________%  OR  3/4 ___  1/2____,  1/4 ____. _____________
17. With the exception of fishing, what are your other sources of personal income in order of importance/value?

1 being most important

Farming _______,
Business_________,
Office work______,
Construction _____,
Investment________,
Other _____________

Household Income

18. Are you the main provider for the household?  Y___, N___, NR___

19. Who are the members of your household?

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<th>H1</th>
<th>H2</th>
<th>H3</th>
<th>H4</th>
<th>H5</th>
<th>H6</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Household Members (by role)</td>
<td>Age</td>
<td>Gender</td>
<td>Education level completed if over 16 in age</td>
<td>Primary occupation</td>
<td>Secondary occupation</td>
</tr>
<tr>
<td>1</td>
<td>Wife, Son, etc</td>
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</table>

Wife, Son, etc

Fishing season.

20. What species do you set out to catch?

Lobster____, Fish____, Both____, Any other (name)_______,

21. How do you fish in terms of species and gear throughout the year?
<table>
<thead>
<tr>
<th>Target species</th>
<th>J</th>
<th>F</th>
<th>M</th>
<th>A</th>
<th>M</th>
<th>J</th>
<th>J</th>
<th>A</th>
<th>S</th>
<th>O</th>
<th>N</th>
<th>D</th>
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</thead>
<tbody>
<tr>
<td>1. Fishing gear(s)</td>
<td>Area(s)</td>
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<td>4. Fishing gear(s)</td>
<td>Area(s)</td>
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</table>

(use the map, write the grid numbers in the table)

22. Is there a specific time in the year when lobsters are berried / have eggs
   Y___, N___, D/K____.
   When is that____________________________________

23. Is there a specific time in the year when lobsters have tar spots
   Y___, N___, D/K____.
   When _________________________________________

24. Is there a specific time in the year when lobsters moult  Y___, N____,  D/K____
   (shell light in colour and soft)
   When _________________________________________

25. Is there a specific time in the year when there are more **male** than **female** or more
    **female** than **male** lobsters Y___, N____. D/K____.
    More Male.

<table>
<thead>
<tr>
<th>J</th>
<th>F</th>
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<th>A</th>
<th>M</th>
<th>J</th>
<th>J</th>
<th>A</th>
<th>S</th>
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</table>
More Female

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<tr>
<th>J</th>
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<th>M</th>
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<th>M</th>
<th>J</th>
<th>J</th>
<th>A</th>
<th>S</th>
<th>O</th>
<th>N</th>
<th>D</th>
</tr>
</thead>
</table>

(females have an extra claw on last leg - closest to tail - and may have eggs or tar spot, .)

Section B

26. Do you own fishing gear?

27. How much gear do you use or own

- **Fish pots**: Number____, Value____, Lifespan____, ______
- **Lobster pots**: Number____, Value____, Lifespan____, ______
- **Hook and line**: Number____, Value____, Lifespan____, ______
- **Trolling rods**: Number____, Value____, Lifespan____, ______
- **Vertical long lines**: Number____, Value____, Lifespan____, ______
- **Horizontal long lines**: Number____, Value____, Lifespan____, ______
- **Gill net**: Number____, Value____, Lifespan____, ______
- **Beach seine**: Number____, Value____, Lifespan____, ______
- **Other ___________**: Number____, Value____, Lifespan____, ______

28. Do you dive while fishing? Y___, N___, N/R

29. Do you use SCUBA while fishing? Y___, N___, N/R

**During an average week this season:**

30. Number of trips made__________.

31. Number of crew__________.

32. Average total length of trip (time spent out from shore)_______hours,

33. Average time spent using gear ________hours,
(using fishing gear: hauling pots or setting and hauling nets or lines, or time spent diving)

34. **Fishing effort:**
   Number of traps hauled _______.
   Number of dives _______.

35. **Average total catch per trip** _______ (lbs)

<table>
<thead>
<tr>
<th>Fish</th>
<th>Species</th>
<th>Weight</th>
<th>Price per pound</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Species</td>
<td>Weight</td>
<td>Price per pound</td>
</tr>
<tr>
<td>Lobster</td>
<td>Weight</td>
<td>Price per pound</td>
<td></td>
</tr>
<tr>
<td>Other (Conch, Whelk, any other?)</td>
<td>Species</td>
<td>Weight</td>
<td>Price per pound</td>
</tr>
<tr>
<td></td>
<td>Species</td>
<td>Weight</td>
<td>Price per pound</td>
</tr>
</tbody>
</table>

36. In general, what percentage/proportion of the catch is sold
   Fish_____%  Lobster_____%  Other_____%

37. Who do you sell the catch to

<table>
<thead>
<tr>
<th></th>
<th>Fish</th>
<th>Lobster</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>BVI Fishing Complex</td>
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</tr>
<tr>
<td>General public</td>
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<tr>
<td>Hotel / Restaurant</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Fish Buyer</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Other</td>
<td></td>
<td></td>
<td></td>
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</tbody>
</table>

38. What is your reason for choosing this market outlet
   Price____.Nearness____.Have always done it this way____.Other______.

39. Average total value per trip $________

40. Average operating cost per trip (*quantities can be substituted*)
   Gas $______
   Oil $_______
   Engine oil $______
Ice $_______,
Bait $_______,
Food $_______,
Other (name) $_______, $_______,

41. On average, how many traps do you lose in a year outside of hurricane damage? _______.

**Investment in electronic equipment**

42. If you own or use any of the following, what is its age and value

<table>
<thead>
<tr>
<th>Equipment</th>
<th>Age</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fish finder</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GPS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Depth Sounder</td>
<td></td>
<td></td>
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<tr>
<td>Other navigation equipment</td>
<td></td>
<td></td>
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<tr>
<td>VHF Radio</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Licences**

Do you have the following licences?

- Fishing Licence  Y___, N___, N/R
- Coastal Craft Licence  Y___, N___, N/R

**Safety equipment**

43. If you have the following safety gear on board, what is its age and value?

<table>
<thead>
<tr>
<th>Equipment</th>
<th>Number</th>
<th>Age</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Life jackets</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Life rings</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flares</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fire extinguisher</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sound signalling device</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Anchor</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bilge pump</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other safety equipment</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Maintenance**

44. How often does the boat need repairs? ____________________________

45. What is the estimated cost of repair or maintenance each year $_____________
46. Is the boat or gear insured? Y___, N___, N/R
47. What is the annual cost of insurance for the boat? $_____________
48. What is the annual cost of insurance for the gear? $_____________
49. Do you have a loan on the boat or gear? Y___, N___, N/R
50. What is the amount of the loan?

7.2 Attitudes and perceptions regarding resources and management

Attitudes and Perceptions Regarding Resources and Management

1. Are you aware of the rules and regulations related to lobster fishing
   Y___, N___, N/R__.

2. On a scale of 1 to 5 (1=no compliance, 5=full compliance), to what extent do people comply with fisheries rules and regulations for lobster?
   _____ DK___, NR___

3. On a scale of 1 to 5 (1=no enforcement, 5=full enforcement), to what extent are the rules and regulations for lobster enforced? _____

4. Have you noticed a change in abundance of fish or lobster
   a). between 2000 and 2005  Y___, N___.  Increase____, Decrease____
   b). between 1995 and 2000  Y___, N___  Increase____, Decrease____

5. Have you noticed a change in the number of fishers
   a). between 2000 and 2005  Y___, N___.  Increase____, Decrease____
   b). between 1995 and 2000  Y___, N___  Increase____, Decrease____

6. Has the demand for lobster changed in the last 5 years? (quantity required)
   No change ________, Increasing _____, Decreasing____

7. Has the price paid for lobster changed in the last 5 years?
   No change ________, Increasing _____, Decreasing____

8. Do you agree or disagree with having a lobster closed-season.
   Agree____, Disagree____, DK____ NR
If they agree with a closed season,

9. In your opinion, in which months should lobsters not be harvested?

<table>
<thead>
<tr>
<th>J</th>
<th>F</th>
<th>M</th>
<th>A</th>
<th>M</th>
<th>J</th>
<th>J</th>
<th>A</th>
<th>S</th>
<th>O</th>
<th>N</th>
<th>D</th>
</tr>
</thead>
</table>

10. Do you agree or disagree with the minimum size restrictions.

Agree____, Disagree____, DK______ NR

*(minimum length 3.5 inches; minimum tail weight of 12 ounces [Fisheries Regulations 21.3.b]*)

11. Do you agree or disagree with the restrictions on gear that can be used.

Agree____, Disagree____,DK______ NR ______.

*(No person may spear, hook or otherwise impale a lobster. – [Fisheries Regulations 21.2.b]*)

*No person may use spear-gun or SCUBA diving equipment for fishing. – [Fisheries Act 50.1] –*

12. Do you agree or disagree with the restrictions on taking lobsters with eggs.

Agree____, Disagree____, DK______ NR ______.

13. Do you agree or disagree with the restrictions on taking lobsters that are moulting.

Agree____, Disagree____, DK______ NR ______.

*(No person shall harm… have in his possession, sell or purchase a lobster that is undersized, carrying eggs or moulting. [Fisheries Regulations 21.1]*)

14. Should the government, the fishermen or both make decisions on managing the fisheries

   Government only______, Fishers only _____ Both,______

____________________________________________________________________
____________________________________________________________________
____________________________________________________________________

15. Have you been affected by the fisheries regulations on lobster *(for example closed season minimum size, fishing method, prohibition from taking berried lobster)*

Y______, N______. DK______ NR ______.
16. If not, do you think you will be affected by these regulations?
   Y ______, N_______ . NR ______ .

(if yes to either of the 2 questions above)
17. In what way have you been affected or do you think you will be affected by these regulations?

____________________________________________________________________
____________________________________________________________________
____________________________________________________________________

18. Were you aware of any consultation meetings before the regulations were established? Yes____, No______ .

19. What do you think are the major threats to the lobster fishery?
   1.______________________________________________________ .
   2.______________________________________________________ .
   3.______________________________________________________ .
   4.______________________________________________________ .
   5.______________________________________________________ .

20. Are you a member of a fisherfolk or similar organisation? Y____, N_____.

21. If so, which one?________________________________________________________ .

____________________________________________________________________
____________________________________________________________________
____________________________________________________________________
____________________________________________________________________
____________________________________________________________________
7.3 Restaurant questionnaire

RESTAURANT QUESTIONNAIRE

Date  day__________/ month___________ / year __________
Restaurant name ____________________________________________
Respondent's name __________________________________________

1. What year was the restaurant opened? __________.

2. How many people are employed?

<table>
<thead>
<tr>
<th></th>
<th>Male</th>
<th>Female</th>
<th>Or give total number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Full time</td>
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<td></td>
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<tr>
<td>Part time</td>
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<tr>
<td>Seasonal</td>
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</tbody>
</table>

3. Has the restaurant changed in size over the past 5 years?
   Grown bigger, [____]   Grown smaller, [____]   Remained the same, [____]

4. Is there an "off season" when the restaurant is closed? Yes [___]   No [___]
   When is that? ________________________________________________.

5. What are the peak months for business?

<table>
<thead>
<tr>
<th></th>
<th>Jan</th>
<th>Feb</th>
<th>Mar</th>
<th>Apr</th>
<th>May</th>
<th>Jun</th>
<th>Jul</th>
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</table>

6. If available, what is the average number of guests per week during the “peak” months?______________

7. What is the average number of guests per week during the other “off-peak” months?______________
8. What amount of lobster do you buy monthly?

<table>
<thead>
<tr>
<th>Month</th>
<th>Jan</th>
<th>Feb</th>
<th>Mar</th>
<th>Apr</th>
<th>May</th>
<th>Jun</th>
<th>Jul</th>
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</table>

9. Where do you buy the lobster and in what proportions?

- BVI fishermen ____________________________
- Supplier _______________________________
- Import _________________________________
- Other (name) ___________________________  _____

10. Does the cost of lobster you buy change during the year? Yes [___]  No [___]

11. What is the purchase price of lobster per pound?

<table>
<thead>
<tr>
<th>Month</th>
<th>Jan</th>
<th>Feb</th>
<th>Mar</th>
<th>Apr</th>
<th>May</th>
<th>Jun</th>
<th>Jul</th>
<th>Aug</th>
<th>Sept</th>
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</tbody>
</table>
8 REFERENCES


