



Coral Reef Conservation Survey

| Question Number | Category | Description |
|-----------------|--|---|
| 1-13 | Attitude toward / importance of coral reefs | Importance of coral reef aspects, including willingness to pay for coral reef protection, and satisfaction with the state of coral reefs over time |
| 14-28 | Participation in coral reef activities | Frequency of participation in coral reef activities, including activities conducted at the coral reef jurisdiction and how deterioration of coral reef conditions could affect participation in these activities |
| 29-35 | Perceived threats to coral reefs | Perceived threats in coral reef jurisdiction, including familiarity with common threats to coral reefs and perception on their potential impact |
| 36-48 | Marine Protected Areas | Familiarity with Marine Protected areas (MPAs), including perceived purpose, benefits and impact, and effect on coral reef activities |
| 49-66 | Resource conditions of coral reefs | Perception of the condition of coral reefs over time, and willingness to accept actions such as limited access, increased restrictions on coral reef activities (e.g. fishing, boating), more stringent pollution regulation, and statutes limiting development |
| 67-73 | Coral reef changes since establishment of MPAs | Perceived changes since the introduction of MPAs and impact of these changes on personal use of coral reef areas |
| 74-81 | Knowledge of rules/regulations | Knowledge of applicable regulations and restrictions to coral reef activities in MPA, and knowledge/perceptions on the effectiveness of traditional or cultural methods for managing resources |
| 82-85 | Compliance with rules/regulations | Perception on level of compliance with regulations related coral reefs (e.g. by fishers, divers, local population, tourists), perception of enforcement levels, and rationale to follow coral reef regulations |
| 86-102 | Coral reef management processes | Level of support towards environmental causes, including donations, volunteering activities, and involvement in activities related to the management of coral reefs. Perceptions on the success of coral reef strategies and regulations and the roles of the Federal, local government, and local communities to protect coral reefs |
| 103-106 | Support for management processes and regulations | Perception on the success of different actors and regulation to address problems in coral reef areas. Level of support towards specific regulations and measures aimed to protecting coral reefs. |
| 107-111 | Sources of information available | Identification of most relevant sources of information about coral reefs (e.g. newspapers, radio, brochures, NOAA publications, etc.), and level of trust in information sources |
| 112-121 | Coral reef financial reliance | Reliability of coral reefs as a personal source of food or income, including involvement on commercial fishing activities and their impact on personal income |
| 122-124 | Consumption of Coral reef products (fish, shellfish) | Indication of the amount of reef based marine products/seafood consumed (weekly) and sources |
| 125-143 | Demographic questions | Generic demographic information to facilitate the categorization |



| | | |
|--|--|--|
| | | and analysis of the responses. Information includes family members, age, gender, education, occupation, household income, place of residence, race, languages, religious affiliation, and membership in community groups |
|--|--|--|

Coral Reefs Conservation Survey Categories

CATEGORY 1: Attitude Toward/Importance of Coral Reefs

Q1. How important are the following aspects of coral reefs?

| | Very Unimportant | Unimportant | Neither Important nor Unimportant | Important | Very Important | Not Sure |
|--|------------------|-------------|-----------------------------------|-----------|----------------|----------|
| The reef is not too far from my access point | | | | | | |
| The reef is near a breakwater | | | | | | |
| Getting to reefs is safe | | | | | | |
| Reefs are large | | | | | | |
| The reef is in deep water | | | | | | |
| The reef is in shallow water | | | | | | |
| Reefs are of good quality | | | | | | |
| Large amount of live coral at the reefs | | | | | | |
| Low amount of algae cover at the reef | | | | | | |
| Clear water is readily available (i.e., high visibility) | | | | | | |
| Low level of pollution near the reefs | | | | | | |
| Fish are abundant at the reefs | | | | | | |
| Reef has a variety of types of fish (i.e., diversity) | | | | | | |
| Reef has a variety of sizes of fish | | | | | | |
| Invertebrates (e.g., lobster, conchs, sea cucumbers) are abundant | | | | | | |
| Reef has a variety of invertebrates | | | | | | |
| Other sea life (e.g., manatees, whales, dolphins, sea turtles) is abundant | | | | | | |
| That reefs are in designated protected area | | | | | | |
| It is safe to swim near reef | | | | | | |
| The reef is not too overcrowded with people | | | | | | |



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| | Very Unimportant | Unimportant | Neither Important nor Unimportant | Important | Very Important | Not Sure |
|---|------------------|-------------|-----------------------------------|-----------|----------------|----------|
| No boating restrictions at the reef | | | | | | |
| Stringent fishing regulations at the reef | | | | | | |
| Environmental protection of coral reefs | | | | | | |
| Environmental protection of mangroves | | | | | | |
| Environmental protection of seagrasses | | | | | | |
| Protection of endangered species | | | | | | |
| Other, not mentioned, specify: | | | | | | |

Q2. To what degree would you be willing to do to each of the following in order to protect and maintain the coral reefs in <location>?

| | Would Not Do | Would Consider | Would Do | Not Sure |
|--|--------------|----------------|----------|----------|
| Pay more to participate in reef related activities like snorkeling and diving | | | | |
| Donate money or items (e.g. used boat, computer) to an organization working to protect the reef | | | | |
| Pay higher local <location> taxes | | | | |
| Pay higher state taxes | | | | |
| Pay higher federal taxes | | | | |
| Volunteer with an organization once a year that is working to protect the reefs (e.g. participate in coastal clean up) | | | | |
| Volunteer with an organization more than once a year that is working to protect the reefs | | | | |

Q3. Would you be willing to donate money in order to protect the reefs?

1. Yes
2. No

Q4. How much money would you be willing to donate at least once in order to protect the reefs?



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- 1. Nothing
- 2. Less than \$50
- 3. \$50 - \$100
- 4. \$101 - \$250
- 5. \$251 - \$500
- 6. More than \$500
- 7. Not sure

Q5. How often would you be willing to donate in order to protect the reefs?

- 1. Once
- 2. Once a year
- 3. More than once a year

Q6. How much money would you be willing to donate annually in order to protect the reefs?

- 1. Nothing
- 2. Less than \$50
- 3. \$50 - \$100
- 4. \$101 - \$250
- 5. \$251 - \$500
- 6. More than \$500
- 7. Not sure

Q7. Please rate the extent to which you agree/disagree with each of the following statements.

| | Strongly Disagree | Disagree | Neither | Agree | Strongly Agree | Not Sure |
|--|-------------------|----------|---------|-------|----------------|----------|
| Coral reefs are important for protecting the coast from erosion and natural disasters. | | | | | | |
| Coral reefs are critical components of our natural ecosystem | | | | | | |
| Mangroves are not important for protecting the coast from erosion. | | | | | | |



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| | Strongly Disagree | Disagree | Neither | Agree | Strongly Agree | Not Sure |
|---|-------------------|----------|---------|-------|----------------|----------|
| Coral reefs are only important if you fish or dive. | | | | | | |
| We should restrict fishing in certain areas to allow the fish and coral to grow. | | | | | | |
| We should restrict development in certain areas to protect the natural environment. | | | | | | |
| Establishing size restrictions to regulate fishing is a good management practice. | | | | | | |
| There are no problems with water quality at coral reefs. | | | | | | |
| Diving and snorkeling are not harmful to coral reefs. | | | | | | |
| Mooring buoys that reduce the use of anchors have a positive effect on the marine environment. | | | | | | |
| Coral reefs provide coastal protection from storm surge associated with tropical hurricanes and typhoons. | | | | | | |
| Large coral reef barrier systems can help reduce the impacts of tsunamis. | | | | | | |
| Coral reefs cannot be restored once damage occurs | | | | | | |
| Coral reefs provide sustainable resources that support the development of coastal communities | | | | | | |
| Sediment runoff from land activities such as construction and development can harm coral reefs | | | | | | |
| Pesticides and herbicides used in commercial and residential activities can be carried by runoff and affect coral reefs | | | | | | |
| Coral reefs have an important role in our culture | | | | | | |
| Effects from climate change can severely affect coral reefs | | | | | | |
| Pathogens, like some type of fungus, can affect the health of coral reefs | | | | | | |
| Eliminating some species, like sea urchins, can affect the ecological dynamics of coral reefs | | | | | | |
| Oil spills can affect or destroy coral reefs | | | | | | |
| Grounding of ships on coral reef can cause long term damage | | | | | | |
| Offshore aquaculture farms located in coral reefs are harmful to the coral reefs | | | | | | |
| Coral reefs can be a source of new substances that may be used to develop new medicines | | | | | | |



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Q8. Please indicate how important each of the following factors is in terms of deciding whether or not you would choose to visit a specific coral reef.

| | Very Unimportant | Unimportant | Neither Important nor Unimportant | Important | Very Important | Not Sure |
|---|------------------|-------------|-----------------------------------|-----------|----------------|----------|
| Clear water (high visibility) | | | | | | |
| Quality of the reef | | | | | | |
| Abundance of fish at the reef | | | | | | |
| Types of fish at the reef (i.e., diversity) | | | | | | |
| Size of fish at the reef | | | | | | |
| Amount of live coral at the reef | | | | | | |
| Size of the reef | | | | | | |
| Abundance of other sea life (e.g., manatees, whales, dolphins, sea turtles, invertebrates) | | | | | | |
| Whether the reef is a specially protected area | | | | | | |
| Amount of algae cover on the reef | | | | | | |
| Difficulty of the conditions for participating in recreational activities on the coral reef | | | | | | |
| Distance from my shore access point to the reef | | | | | | |
| Ease of getting to the reef | | | | | | |
| Adequacy of my boat to get to the reef | | | | | | |
| Mooring buoys near coral reefs | | | | | | |
| Level of crowding at the reef | | | | | | |
| Seasonal or rotational closures at desirable reef locations | | | | | | |
| Restrictions on fishing | | | | | | |
| Presence of other groups that I don't like | | | | | | |
| Amount of pollution near the reef | | | | | | |
| Safety of swimming near reef | | | | | | |
| Fish catch per trip to reef | | | | | | |
| Whether or not a particular commercial charter boat goes to the reef | | | | | | |
| Ease of finding a charter/ company to go to the reef | | | | | | |
| Cost to get to the reef | | | | | | |



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| | Very Unimportant | Unimportant | Neither Important nor Unimportant | Important | Very Important | Not Sure |
|---|------------------|-------------|-----------------------------------|-----------|----------------|----------|
| Opportunities to participate in coral reef activities at the reef | | | | | | |
| The information available about the reef | | | | | | |
| Availability of protected calm waters | | | | | | |
| Availability of shore-side support facilities (e.g. dive shops, piers, hospitals, recompression chambers) | | | | | | |
| Absence of dangerous animals (e.g., sharks, jellyfishes) | | | | | | |
| Water at the reef is deep | | | | | | |
| Occurrence of unusual features (e.g., underwater caves, ship wrecks) | | | | | | |
| Opportunities to do other aquatic activities (e.g. surfing) | | | | | | |
| Other: Please list | | | | | | |



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Q9. How satisfied were you with the each of the following items on your last trip to <a coral reef>?

| | Very Unsatisfied | Unsatisfied | Neither Satisfied nor Unsatisfied | Satisfied | Very Satisfied | Not Sure |
|---|------------------|-------------|-----------------------------------|-----------|----------------|----------|
| Clear water (high visibility) | | | | | | |
| Quality of the reef | | | | | | |
| Abundance of fish at the reef | | | | | | |
| Types of fish at the reef (i.e., diversity) | | | | | | |
| Size of fish at the reef | | | | | | |
| Amount of live coral at the reef | | | | | | |
| Size of the reef | | | | | | |
| Abundance of other sea life (e.g., manatees, whales, dolphins, sea turtles, invertebrates) | | | | | | |
| Whether the reef is a specially protected area | | | | | | |
| Amount of algae cover on the reef | | | | | | |
| Difficulty of the conditions for participating in recreational activities on the coral reef | | | | | | |
| Distance from my shore access point to the reef | | | | | | |
| Ease of getting to the reef | | | | | | |
| Adequacy of my boat to get to the reef | | | | | | |
| Mooring buoys near coral reefs | | | | | | |
| Level of crowding at the reef | | | | | | |
| Seasonal closures at desirable reef locations | | | | | | |
| Presence of other groups that I don't like | | | | | | |
| Amount of pollution near the reef | | | | | | |
| Safety of swimming near reef | | | | | | |
| Fish catch per trip to reef | | | | | | |
| Whether or not a particular commercial charter boat goes to the reef | | | | | | |
| Ease of finding a charter/ company to go to the reef | | | | | | |
| Cost to get to the reef | | | | | | |
| Opportunities to participate in coral reef activities at the | | | | | | |



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| | Very Unsatisfied | Unsatisfied | Neither Satisfied nor Unsatisfied | Satisfied | Very Satisfied | Not Sure |
|--|------------------|-------------|-----------------------------------|-----------|----------------|----------|
| reef | | | | | | |
| The information available about the reef | | | | | | |
| Availability of protected calm waters | | | | | | |
| Availability of shore-side support facilities (e.g. dive shops, piers, hospitals, recompression chambers) | | | | | | |
| Absence of dangerous animals (e.g., sharks, jellyfishes) | | | | | | |
| Water at the reef is deep | | | | | | |
| Occurrence of unusual features (e.g., underwater caves, ship wrecks, overhangs, walls) | | | | | | |
| Opportunities to do other aquatic activities (e.g. surfing, windsurfing) | | | | | | |
| Other: Please list | | | | | | |



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Q10. Where was your last trip to <a coral reef>? [Open Ended]

Q11. In thinking about a trip to that same reef <# of years> years ago, how satisfied were you then with the same items.

| | This was my First Trip | Very Unsatisfied | Unsatisfied | Neither Satisfied nor Unsatisfied | Satisfied | Very Satisfied | Not Sure |
|---|------------------------|------------------|-------------|-----------------------------------|-----------|----------------|----------|
| Clear water (high visibility) | | | | | | | |
| Quality of the reef | | | | | | | |
| Abundance of fish at the reef | | | | | | | |
| Types of fish at the reef (i.e., diversity) | | | | | | | |
| Size of fish at the reef | | | | | | | |
| Amount of live coral at the reef | | | | | | | |
| Size of the reef | | | | | | | |
| Abundance of other sea life (e.g., manatees, whales, dolphins, sea turtles) | | | | | | | |
| Whether the reef is a specially protected area | | | | | | | |
| Amount of algae cover on the reef | | | | | | | |
| Difficulty of the conditions for participating in recreational activities on the coral reef | | | | | | | |
| Distance from my shore access point to the reef | | | | | | | |
| Ease of getting to the reef | | | | | | | |
| Adequacy of my boat to get to the reef | | | | | | | |
| Mooring buoys near coral reefs | | | | | | | |
| Level of crowding at the reef | | | | | | | |
| Seasonal closures at desirable reef locations | | | | | | | |
| Presence of other groups that I don't like | | | | | | | |
| Amount of pollution near the reef | | | | | | | |
| Safety of swimming near reef | | | | | | | |
| Fish catch per trip to reef | | | | | | | |
| Whether or not a particular commercial charter boat goes to the reef | | | | | | | |



| | This was my First Trip | Very Unsatisfied | Unsatisfied | Neither Satisfied nor I Unsatisfied | Satisfied | Very Satisfied | Not Sure |
|--|------------------------|------------------|-------------|--|-----------|----------------|----------|
| Ease of finding a charter/ company to go to the reef | | | | | | | |
| Cost to get to the reef | | | | | | | |
| Opportunities to participate in coral reef activities at the reef | | | | | | | |
| The information available about the reef | | | | | | | |
| Availability of protected calm waters | | | | | | | |
| Availability of shore-side support facilities (e.g. dive shops, piers, decompression chambers) | | | | | | | |
| Absence of dangerous animals (e.g., shark, jellyfishes) | | | | | | | |
| Water at the reef is deep | | | | | | | |
| Occurrence of unusual features (e.g., underwater caves, ship wrecks) | | | | | | | |
| Opportunities to do other aquatic activities (e.g. surfing) | | | | | | | |
| Other: Please list | | | | | | | |

Q12. How important are coral reefs to your culture?

1. Very Unimportant
2. Unimportant
3. Neither Important nor Unimportant
4. Important
5. Very Important
6. Not Sure

Q12a. Please explain [Open Ended]

Q13. How important are coral reefs to your way of life?

1. Very Unimportant
2. Unimportant
3. Neither Important nor Unimportant



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4. Important
5. Very Important
6. Not Sure



CATEGORY 2: Participation in Coral Reef Activities

Q14. How often do you participate in each of the following activities?

| | Never | Once a Year or Less | A Few Times a Year | At Least Once a Month | 2 to 3 Times a Month | Once a Week | Several Times a Week | Every Day | No Answer |
|---|-------|---------------------|--------------------|-----------------------|----------------------|-------------|----------------------|-----------|-----------|
| Invertebrate harvesting | | | | | | | | | |
| Gathering of marine resources | | | | | | | | | |
| Coral harvesting | | | | | | | | | |
| Seaweed harvesting | | | | | | | | | |
| Spear fishing | | | | | | | | | |
| Fish collecting | | | | | | | | | |
| Sport fishing | | | | | | | | | |
| Cast net-fishing | | | | | | | | | |
| Gillnet, surround net and drag net-fishing | | | | | | | | | |
| Trap fishing | | | | | | | | | |
| Pole/line fishing | | | | | | | | | |
| Other kind of fishing: Please list | | | | | | | | | |
| Interacting w dolphins | | | | | | | | | |
| Swimming/wading | | | | | | | | | |
| Snorkeling | | | | | | | | | |
| Outrigging | | | | | | | | | |
| Paddling | | | | | | | | | |
| Beach sports | | | | | | | | | |
| Diving (SCUBA or Free diving) | | | | | | | | | |
| Boarding (surfing, kitesurfing, SUP, body-surfing, body-boarding) | | | | | | | | | |
| Jet-ski/thrill-craft | | | | | | | | | |
| Water sports/water skiing/wake boarding | | | | | | | | | |
| Pleasure boating | | | | | | | | | |
| Sailing | | | | | | | | | |
| Kayaking | | | | | | | | | |
| Canoe/wa'a | | | | | | | | | |
| Glass bottom boating | | | | | | | | | |
| Underwater photography | | | | | | | | | |
| Waterside camping | | | | | | | | | |
| Beach recreation (BBQ, picnic, | | | | | | | | | |



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| | Never | Once a Year or Less | A Few Times a Year | At Least Once a Month | 2 to 3 Times a Month | Once a Week | Several Times a Week | Every Day | No Answer |
|--|-------|---------------------|--------------------|-----------------------|----------------------|-------------|----------------------|-----------|-----------|
| sports) | | | | | | | | | |
| Walking/Hiking/Running around the reef | | | | | | | | | |
| Collecting herbal medicines | | | | | | | | | |
| Bird watching | | | | | | | | | |
| Beach clean up | | | | | | | | | |
| Hunting | | | | | | | | | |
| Mountain biking | | | | | | | | | |
| Other activities: Please list | | | | | | | | | |

**Q15. Which of the following activities did you participate in at <location>?
(Please check all you have done)**

- | | |
|---|------------------------------------|
| 1. Invertebrate harvesting | 17. Pleasure boating |
| 2. Harvesting of mangrove resources | 18. Sailing |
| 3. Spear fishing | 19. Kayaking |
| 4. Fish collecting | 20. Canoe/wa'a |
| 5. Sport fishing | 21. Glass bottom boating |
| 6. Net-fishing | 22. Underwater photography |
| 7. Trap fishing | 23. Waterside camping |
| 8. Other kind of fishing: Please list | 24. Beach recreation, BBQ, picnic |
| 9. Sand/coral extraction | 25. Walking/Hiking/Running |
| 10. Interacting w dolphins | 26. Collecting Herbal Medicines |
| 11. Swimming/wading | 27. Bird watching |
| 12. Snorkeling | 28. Beach Clean up |
| 13. Diving (SCUBA) | 29. Hunting |
| 14. Boarding (surfing, kitesurfing, SUP, body-surfing, body-boarding) | 30. Seaweed harvesting |
| 15. Jet-ski/thrill-craft | 31. Other activities: Please list. |
| 16. Water sports/water skiing | 32. None |



Q16. To what extent do you do these activities on natural and/or artificial reefs?

1. Always on natural reefs
2. Mostly natural reefs, but some on artificial reefs
3. Varies between both natural and artificial reefs
4. Mostly on artificial reefs, but some on natural reefs
5. Always on artificial reefs
6. Not sure

Q17. How many other people participated in <activity> with you? ____#

Q18. In which of the coral reefs in the area did you do these activities?

List reef options for the specific location

Q19. Which coral reefs do you visit most often to participate in each of activities selected? List reef options for the specific location

Q20. Please select which (if any) activity was the main reason for your visit to <location>. (Please select no more than 2).

- | | |
|---|------------------------------------|
| 1. Invertebrate harvesting | 17. Pleasure Boating |
| 2. Harvesting of Mangrove resources | 18. Sailing |
| 3. Spear fishing | 19. Kayaking |
| 4. Fish collecting | 20. Canoe/wa'a |
| 5. Sport fishing | 21. Glass bottom boating |
| 6. Net-fishing | 22. Underwater photography |
| 7. Trap fishing | 23. Waterside camping |
| 8. Other kind of fishing: Please list | 24. Beach recreation, BBQ, picnic |
| 9. Sand/coral extraction | 25. Walking/Hiking/Running |
| 10. Interacting w dolphins | 26. Collecting Herbal Medicines |
| 11. Swimming/wading | 27. Bird watching |
| 12. Snorkeling | 28. Beach Clean up |
| 13. Diving (SCUBA) | 29. Hunting |
| 14. Boarding (surfing, kitesurfing, SUP, body-surfing, body-boarding) | 30. Seaweed harvesting |
| 15. Jet-ski/thrill-craft | 31. Other activities: Please list. |
| 16. Water sports/water skiing | 32. None |



Q21. To what extent do you think your coral reef related activities affect the coral reefs?

1. No impact on the reefs
2. Significantly helps the reefs
3. Helps the reef somewhat
4. Both helps and hurts the reefs
5. Hurts the reef somewhat
6. Significantly hurts the reefs
7. Not sure

Q22. Please explain why you think your activities help/hurt the coral reefs? [Open Ended]

Q23. How do you participate in <activities>?

1. Use my own boat and equipment (or that of a member of my group)
2. Rent a boat that my group uses, but use our own equipment
3. Rent a boat and equipment that my group uses
4. Use a service that provides transportation and all equipment for the activity
5. Other: Please list
6. I do not participate in any activities that require a boat
7. Not Sure

Q24. Please indicate how important each of the following factors is in terms of deciding where you would like to participate in coral reef related activities at <location>.

| | Very Unimportant | Unimportant | Neither Important nor Unimportant | Important | Very Important | Not Sure |
|---|------------------|-------------|-----------------------------------|-----------|----------------|----------|
| Clear water (high visibility) | | | | | | |
| Quality of the reef | | | | | | |
| Abundance of fish at the reef | | | | | | |
| Types of fish at the reef (i.e., diversity) | | | | | | |



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| | Very Unimportant | Unimportant | Neither Important nor Unimportant | Important | Very Important | Not Sure |
|--|------------------|-------------|-----------------------------------|-----------|----------------|----------|
| Size of fish at the reef | | | | | | |
| Amount of live coral at the reef | | | | | | |
| Size of the reef | | | | | | |
| Abundance of other sea life (e.g., manatees, whales, dolphins, sea turtles) | | | | | | |
| Whether the reef is a specially protected area | | | | | | |
| Amount of algae cover on the reef | | | | | | |
| Difficulty of the conditions for participating in recreational activities on the coral reef | | | | | | |
| Distance from my shore access point to the reef | | | | | | |
| Ease of getting to the reef | | | | | | |
| Adequacy of my boat to get to the reef | | | | | | |
| Mooring buoys near coral reefs | | | | | | |
| Level of crowding at the reef | | | | | | |
| Seasonal closures at desirable reef locations | | | | | | |
| Presence of other groups that I don't like | | | | | | |
| Amount of pollution near the reef | | | | | | |
| Safety of swimming near reef | | | | | | |
| Fish catch per trip to reef | | | | | | |
| Whether or not a particular commercial charter boat goes to the reef | | | | | | |
| Ease of finding a charter/ company to go to the reef | | | | | | |
| Cost to get to the reef | | | | | | |
| Opportunities to participate in coral reef activities at the reef | | | | | | |
| The information available about the reef | | | | | | |
| Availability of protected calm waters | | | | | | |
| Availability of shore-side support facilities (e.g. dive shops, piers, recompression chambers) | | | | | | |
| Absence of dangerous animals (e.g., sharks, jellyfishes) | | | | | | |
| Water at the reef is deep | | | | | | |



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| | Very Unimportant | Unimportant | Neither Important nor Unimportant | Important | Very Important | Not Sure |
|--|------------------|-------------|-----------------------------------|-----------|----------------|----------|
| Occurrence of unusual features (e.g., underwater caves, ship wrecks) | | | | | | |
| Opportunities to do other aquatic activities (e.g. surfing) | | | | | | |
| Other: Please list | | | | | | |

Q25. Please indicate how important each of the following factors is in terms of deciding whether or not you would choose to do coral reef related activities at a reef other than the one you visit most often.

| | Very Unimportant | Unimportant | Neither Important nor Unimportant | Important | Very Important | Not Sure |
|---|------------------|-------------|-----------------------------------|-----------|----------------|----------|
| Clear water (high visibility) | | | | | | |
| Quality of the reefs | | | | | | |
| Abundance of fish at the reefs | | | | | | |
| Types of fish at the reefs (i.e., diversity) | | | | | | |
| Size of fish at the reefs | | | | | | |
| Amount of live coral at the reefs | | | | | | |
| Size of the reefs | | | | | | |
| Abundance of other sea life (manatees, whales, dolphins, sea turtles, etc.) | | | | | | |
| Whether reefs are in specially protected area | | | | | | |
| Difficulty of the conditions on coral reef | | | | | | |
| Distance to coral reefs | | | | | | |
| Mooring buoys near coral reefs | | | | | | |
| Level of crowding | | | | | | |
| Area closures at desirable reef locations | | | | | | |
| Presence of other groups that I don't like | | | | | | |
| Amount of pollution near the reefs | | | | | | |
| Safety of swimming near reefs | | | | | | |
| Fish catch per trip to reefs | | | | | | |



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| | Very Unimportant | Unimportant | Neither Important nor Unimportant | Important | Very Important | Not Sure |
|---|------------------|-------------|-----------------------------------|-----------|----------------|----------|
| Whether or not a particular outfit goes to the reef | | | | | | |
| Ease of finding a charter/ company to go to the reefs | | | | | | |
| Cost to get to the reefs | | | | | | |
| Quality of the beaches | | | | | | |
| Availability of parking | | | | | | |
| Presence of active conservation/management | | | | | | |
| Presence of surfing contests | | | | | | |
| Maps, brochures and other tourist information | | | | | | |
| Customer service and friendliness of people | | | | | | |
| Value for the price | | | | | | |
| Safety of the location/Amount of crime | | | | | | |
| Ease of getting to location | | | | | | |
| Number of activities to do at the locations | | | | | | |
| Quality of accommodations | | | | | | |
| Ease of finding a company that provides the activity | | | | | | |
| Price companies charge to do the activity | | | | | | |
| Level of crowding at the reefs | | | | | | |
| Other: Please list | | | | | | |

Q26. Assuming each of the following conditions, how would that affect the amount of time you would spend on outdoor recreation activities in <location> during a 12-month period?

| | Same Amount of Time | Slightly Less Often | About Half as Often | Much Less Often | Almost Never | Not Sure |
|---|---------------------|---------------------|---------------------|-----------------|--------------|----------|
| Less living coral cover than it currently has | | | | | | |
| Very little living coral cover | | | | | | |
| No living coral cover | | | | | | |

Q27. How would the disappearance of live coral cover in <location> affect the amount of time you would spend on outdoor recreation activities outside <location>?



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1. No change in the amount of time I spend in <location>
2. I would visit other locations slightly more often
3. I would visit other locations about half the time
4. I would visit other locations much more often
5. I would visit other locations almost exclusively (and would rarely if ever return to [location])
6. Not Sure

Q28. *How many times have you participated in a coral reef related activity in [location] in the last 12 months, that is, since (date last year)?*

1. None
2. 1
3. 2
4. 3-5
5. 6-8
6. 8-12
7. More than 12
8. No Response



CATEGORY 3: Perceived threats to coral reefs

Q29. *To what degree do you think any problems or threats exist to the coral reefs in <location>?*

1. None
2. Minimal
3. Moderate
4. Large
5. Extreme
6. Not sure

Q30. *What do you see as the greatest threats to the reefs in <location>? [Open Ended]*

Q31. *How familiar are you with each of the following potential threats facing the coral reefs in <location>?*



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| | Very Unfamiliar | Unfamiliar | Neither Familiar nor Unfamiliar | Familiar | Very Familiar | Not Sure |
|---|-----------------|------------|---------------------------------|----------|---------------|----------|
| Climate change | | | | | | |
| Coral bleaching | | | | | | |
| Ocean acidification | | | | | | |
| Sand Extraction/Mining | | | | | | |
| Erosion | | | | | | |
| Pollution (stormwater, wastewater, chemical runoff and trash/littering) | | | | | | |
| Increased coastal/urban development | | | | | | |
| Stormwater and wastewater runoff | | | | | | |
| Chemical runoff (pesticides, herbicides, fertilizers, detergents, phosphates) | | | | | | |
| Dredging | | | | | | |
| Taking coral or live rock from beaches | | | | | | |
| Taking coral or live rock from the sea | | | | | | |
| Coral bashing (damaging the reef) | | | | | | |
| Trash/littering | | | | | | |
| Marine pollution (e.g. sewage/ dumping/ trash/ sedimentation) | | | | | | |
| Poor water quality | | | | | | |
| Cruise ship traffic | | | | | | |
| Ships and boats grounding on reefs | | | | | | |
| Scuba divers | | | | | | |
| Irresponsible diving | | | | | | |
| Too many divers | | | | | | |
| Number of tourists | | | | | | |
| Overuse for recreation | | | | | | |
| Illegal fishing | | | | | | |
| Illegal harvesting | | | | | | |
| Harmful Fishing practices | | | | | | |
| Overfishing | | | | | | |
| Other illegal activities | | | | | | |
| Invasive species, e.g. lion fish | | | | | | |
| Introduced species | | | | | | |
| Increasing Population size | | | | | | |
| Hurricanes | | | | | | |
| Natural disasters | | | | | | |
| Other: Please list | | | | | | |



Q32. How important do you consider the following potential threats facing the coral reefs in <location>?



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| | Very Unimportant | Unimportant | Neither Important nor Unimportant | Important | Very Important | Not Sure |
|--|------------------|-------------|-----------------------------------|-----------|----------------|----------|
| Climate change | | | | | | |
| Coral bleaching | | | | | | |
| Ocean acidification | | | | | | |
| Sand Extraction/Mining | | | | | | |
| Erosion | | | | | | |
| Increased coastal/urban development | | | | | | |
| Stormwater and wastewater runoff | | | | | | |
| Chemical runoff (pesticides, herbicides, fertilizers) | | | | | | |
| Sedimentation | | | | | | |
| Dredging | | | | | | |
| Taking coral and live rock from beaches | | | | | | |
| Taking coral and live rock from the sea | | | | | | |
| Coral bashing | | | | | | |
| Trash/littering | | | | | | |
| Pollution (e.g. sewage/ dumping/ trash/ sedimentation) | | | | | | |
| Poor water quality | | | | | | |
| Cruise ship traffic | | | | | | |
| Ships and boats grounding on reefs | | | | | | |
| Scuba divers | | | | | | |
| Irresponsible diving | | | | | | |
| Too many divers | | | | | | |
| Too many divers | | | | | | |
| Number of tourists | | | | | | |
| Overuse for recreation | | | | | | |
| Illegal fishing | | | | | | |
| Illegal harvesting | | | | | | |
| Harmful Fishing practices | | | | | | |
| Overfishing | | | | | | |
| Other illegal activities | | | | | | |
| Invasive species, e.g. lion fish, Roi, Taape, etc. | | | | | | |
| Introduced species | | | | | | |
| Increasing Population size | | | | | | |
| Hurricanes | | | | | | |
| Other natural disaster | | | | | | |
| Other: Please list | | | | | | |



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Q33. Of the following list, what do you think are the greatest threats to the reefs in <location>? (Please check up to 4)

1. Climate change
2. Coral bleaching
3. Ocean acidification
4. Sand Extraction/Mining
5. Erosion
6. Increased coastal/urban development
7. Stormwater and wastewater runoff
8. Chemical runoff (pesticides, herbicides, fertilizers)
9. Sedimentation
10. Dredging
11. Taking coral and live rock from beaches
12. Taking coral and live rock from the sea
13. Coral bashing
14. Trash/littering
15. Pollution (e.g. sewage/ dumping/ trash/ sedimentation)
16. Poor water quality
17. Cruise ship traffic
18. Ships and boats grounding on reefs
19. Scuba divers
20. Irresponsible diving
21. Too many divers
22. Number of tourists
23. Overuse for recreation
24. Illegal fishing
25. Illegal harvesting
26. Harmful Fishing practices
27. Destructive fishing
28. Overfishing
29. Spear fishing
30. Other illegal activities
31. Invasive species, e.g. lion fish
32. Introduced species
33. Increasing Population size
34. Hurricanes
35. Other Natural Disasters
36. Other: Please list
37. Not sure



Q34. *How familiar are you with coral bleaching?*

1. Very Unfamiliar
2. Unfamiliar
3. Neither Familiar nor Unfamiliar
4. Familiar
5. Very Familiar
6. Not Sure

Q35. *In your opinion, what is the primary cause of coral bleaching? Ask only if they are at least moderately familiar with coral bleaching (per Q36)*

1. Local factors exclusively
2. Non-local factors such as climate change, exclusively
3. Non-local factors aggravated by local factors
4. Local factors aggravated by non-local factors
5. I don't know



CATEGORY 4: Marine Protected Areas

Q36. How familiar are you with Marine Protected Areas (MPAs)? A Marine Protected Area is a an area whose boundaries include some area of ocean and typically restricts human activity for the purpose of protecting living, non-living, cultural, and/or historic resources.

1. Very Unfamiliar
2. Unfamiliar
3. Neither Familiar nor Unfamiliar
4. Familiar
5. Very Familiar
6. Not Sure

Q37. Please indicate which each of the following statements are true for <Name> MPA.

| | True | False |
|--|------|-------|
| <Name> MPA is closed to all human activities | | |
| <Name> MPA exists for conservation | | |
| <Name> MPA exists for cultural use | | |
| <Name> MPA exists for subsistence use | | |
| <Name> MPA allows specific recreation and commercial uses | | |
| <Name> MPA encompasses a variety of conservation and management methods | | |
| <Name> MPA enables research and education on coral reefs and the environment | | |
| <Name> MPA restricts fishing practices within its boundaries | | |
| <Name> MPA has routine closings | | |
| <Name> MPA has boating restrictions | | |
| <Name> MPA restricts the use of the coral reef for certain recreational activities | | |

Q38. Which of the following are considered Marine Protected Areas (MPA)? (please check all that apply)

1. Marine Sanctuary
2. National Monument
3. Marine Reserve
4. Commercial Port
5. National Park
6. None
7. Not Sure



Q39. Which of the following do you believe represents the primary purpose(s) of MPAs? (Please check all that apply)

1. Increasing overall fish stocks and biomass within the zones
2. Increasing overall fish stocks and biomass outside the zones
3. Conserving and protecting corals, fish, and other marine life inside the zones
4. Resolving user group conflicts
5. Supporting scientific research
6. Food security
7. Protecting a sacred place
8. Cultural heritage
9. Educating the public
10. Recreational use
11. Building resiliency for future natural disasters,
12. Shoreline protection
13. Other: Please list

Q40. How knowledgeable are you with the rules and regulations governing [name] MPA?

1. Not at all knowledgeable
2. Somewhat knowledgeable
3. Moderately knowledgeable
4. Knowledgeable
5. Extremely knowledgeable
6. Not Sure

Q41. How has <Name> MPA impacted your livelihood?

1. Very positive impact
2. Somewhat positive impact
3. Both positive and negative impacts
4. Somewhat negative impact
5. Very negative impact
6. No impact
7. Not sure



Q42. How have MPAs impacted the livelihoods of people from your community that you are aware of?

1. Very positive impact
2. Somewhat positive impact
3. Both positive and negative impacts
4. Somewhat negative impact
5. Very negative impact
6. No impact
7. Not sure

Q43. In your opinion, which groups have most benefited from <Name> MPAs? (Please select no more than 3)

1. Commercial fishers
2. Local subsistence fishers
3. Recreational/sport fishers
4. Commercial fish and dive operators
5. Local dive operators
6. Recreational (local and tourist) divers
7. Conservation groups
8. Local communities
9. Local government
10. Other: Please list

Q44. Please indicate the extent to which you agree or disagree with each of the following statements.

| | Strongly Disagree | Disagree | Neither Agree nor Disagree | Agree | Strongly Agree | Not Sure |
|---|-------------------|----------|----------------------------|-------|----------------|----------|
| MPAs protect the ocean environments | | | | | | |
| MPAs protect coral reefs | | | | | | |
| MPAs improve the environment | | | | | | |
| MPAs have been effective in restoring coral reefs in <location> | | | | | | |
| There should be more MPAs zones in <location> | | | | | | |
| MPAs increase the number of fish within their boundaries | | | | | | |



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| | Strongly Disagree | Disagree | Neither Agree nor Disagree | Agree | Strongly Agree | Not Sure |
|--|-------------------|----------|----------------------------|-------|----------------|----------|
| MPAs increase the number of fish outside of their boundaries | | | | | | |
| MPAs have reduced conflicts between different user groups in <location> | | | | | | |
| MPAs have increased conflicts between different user groups in <location> | | | | | | |
| I support the establishment of MPAs as they are currently established | | | | | | |
| I support the establishment of MPAs in <location> | | | | | | |
| I generally support the establishment of MPAs | | | | | | |
| I support the establishment of a research only area in <location> | | | | | | |
| A research only area in the <name> MPA would have a positive impact on the marine environment | | | | | | |
| Research only areas protect and improve coral reefs | | | | | | |
| I support boundary expansion of the <name> MPA | | | | | | |
| Boundary expansion of the <name> MPA would have a positive impact on the marine environment | | | | | | |
| <location> has benefited environmentally from establishment of the <name> MPA | | | | | | |
| There has been a net economic benefit to the <location> coastal economy from the establishment of the <name> MPA | | | | | | |
| There should be more than one reef location set aside as a research only area in the <name> MPA | | | | | | |
| Commercial fisheries have benefited from the establishment of the <name> MPA | | | | | | |
| Local fisherman have benefited from the establishment of the <name> MPA | | | | | | |
| Recreational/sport fisherman have benefited from the establishment of the <name> MPA | | | | | | |
| <Name> MPA regulations have had no effect on my business | | | | | | |
| The establishment of MPAs in <location> will increase the likelihood that I will vacation there | | | | | | |



| | Strongly Disagree | Disagree | Neither Agree nor Disagree | Agree | Strongly Agree | Not Sure |
|---|-------------------|----------|----------------------------|-------|----------------|----------|
| I have visited <location> because of the establishment of MPAs | | | | | | |
| MPAs help increase tourism | | | | | | |
| Having all the waters surrounding <location> in an MPA makes the area a more attractive destination | | | | | | |
| Boating regulations should exist to protect coral reef systems | | | | | | |

Q45. How has the <name> MPA been most successful? (Please check all that apply)

1. Protecting specific species of concern or of commercial value
2. Protecting the whole coral reef ecosystem
3. Protecting the environment of the entire region, not only the coral reef system
4. Increasing the public environmental awareness
5. Increasing the opportunities to use the resources
6. Increasing tourism
7. Increasing security (i.e., reduction in criminal activity)
8. Increasing scientific research
9. Improving the water quality of the area/reducing contamination
10. Reducing user conflicts
11. Protecting cultural artifacts or traditions
12. Other: Please list
13. None

Q46. Least successful?

1. Protecting specific species of concern or of commercial value
2. Protecting the whole coral reef ecosystem
3. Protecting the environment of the entire region, not only the coral reef system
4. Increasing the public environmental awareness
5. Increasing the opportunities to use the resources
6. Increasing tourism
7. Increasing security (i.e., reduction in criminal activity)



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8. Increasing scientific research
9. Improving the water quality of the area/reducing contamination
10. Reducing user conflicts
11. Protecting cultural artifacts or traditions
12. Other: Please list
13. None

Q47. *Has your use of < Name> MPA increased, decreased, or stayed the same since its establishment?*

1. Increased significantly
2. Increased a little
3. Stayed the same
4. Decreased a little
5. Decreased significantly

Q48. *Why has your use changed? (Please check all that apply)*

1. Doing activities other places by choice
2. New regulations prevent doing former activities
3. Crowding has become a problem
4. Doing the activities less
5. The activities are less enjoyable since the implementation of the regulations
6. Other: Please list
7. Has not changed



CATEGORY 5: Resource Conditions of Coral Reefs

Q49. What is the current condition of each of the following at <Location>? OR In your opinion, how are [jurisdiction's] marine resources currently doing? Please rank from very bad to very good

| | Very Bad | Bad | Neither Bad nor Good | Good | Very Good | Don't Know |
|---|----------|-----|----------------------------|------|--------------|---------------|
| Fish on the Reef Flat | | | | | | |
| Number of Fish | | | | | | |
| Fish on the Reef Slope | | | | | | |
| Pelagic Fish | | | | | | |
| Invertebrates on the Reef Flat | | | | | | |
| Invertebrates on the Reef Slope | | | | | | |
| Spawning Stocks | | | | | | |
| Reef Flat Habitat | | | | | | |
| Reef Slope Habitat | | | | | | |
| Ocean Water Quality (clean and clear) | | | | | | |
| Mangrove Crab | | | | | | |
| Mangrove Trees | | | | | | |
| Sea Shells | | | | | | |
| Amount of Coral | | | | | | |
| Seagrasses | | | | | | |
| Abundance of fish | | | | | | |
| Size of fish | | | | | | |
| Types of fish (i.e., diversity) | | | | | | |
| Abundance of Invertebrates | | | | | | |
| Diversity of Invertebrates | | | | | | |
| Number of sea urchins and sea cucumbers | | | | | | |
| Number of Lobsters | | | | | | |
| Number Octopus | | | | | | |
| Abundance of Living Coral | | | | | | |
| Diversity of Living Coral | | | | | | |
| Turtle Nesting Sites | | | | | | |
| Presence of other sea life (manatees, whales, dolphins, sea turtles, sharks, etc.) | | | | | | |
| Abundance of other sea life (manatees, whales, dolphins, sea turtles, sharks, etc.) | | | | | | |
| Land-based pollution/sewage | | | | | | |



| | Very Bad | Bad | Neither Bad nor Good | Good | Very Good | Don't Know |
|-----------------------------------|----------|-----|----------------------------|------|--------------|---------------|
| Sea-based pollution/marine debris | | | | | | |
| Fisheries | | | | | | |
| Sandy beaches | | | | | | |
| Mooring buoys | | | | | | |
| Fewer vessel groundings | | | | | | |
| Other bottom habitat | | | | | | |
| Overgrowth of algae | | | | | | |
| Sedimentation of reefs | | | | | | |
| Crowding (too many people) | | | | | | |

Q50. How are the current conditions of the marine resources in <location>?

1. Very Bad
2. Bad
3. Neither Good nor Bad
4. Good
5. Very Good
6. Not Sure

Q51. Has the condition of marine resources in <location> gotten better or worse over the last 5 years?

1. Significantly Worse
2. Worse
3. No Change
4. Better
5. Significantly Better
6. Not Sure

Q52. Has the condition of marine resources in <location> gotten better or worse over the last 20 years?

1. Significantly Worse
2. Worse
3. No Change
4. Better



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- 5. Significantly Better
- 6. Not Sure

Q53. How would you say the condition of each of the following in <location> changed over the last 10 years: from 1=it has gotten a lot worse to 5=it has gotten a lot better?

| | Significantly Worse | Worse | No Change | Better | Significantly Better | Not Sure |
|---|---------------------|-------|-----------|--------|----------------------|----------|
| Ocean Water Quality (clean and clear) | | | | | | |
| Amount of Coral | | | | | | |
| Fish on the Reef Flat | | | | | | |
| Fish on the Reef Slope | | | | | | |
| Pelagic Fish | | | | | | |
| Invertebrates on the Reef Flat | | | | | | |
| Invertebrates on the Reef Slope | | | | | | |
| Spawning Stocks | | | | | | |
| Reef Flat Habitat | | | | | | |
| Reef Slope Habitat | | | | | | |
| Water Quality | | | | | | |
| Mangrove Crab | | | | | | |
| Mangrove Trees | | | | | | |
| Sea Shells | | | | | | |
| Corals | | | | | | |
| Seagrasses | | | | | | |
| Abundance/Amount of fish | | | | | | |
| Size of fish | | | | | | |
| Types of fish (i.e., diversity) | | | | | | |
| Abundance of Invertebrates | | | | | | |
| Size of Invertebrates | | | | | | |
| Number of sea urchins and sea cucumbers | | | | | | |
| Number of Lobsters | | | | | | |
| Number Octopus | | | | | | |
| Abundance of Living Coral | | | | | | |
| Turtle Nesting Sites | | | | | | |
| Other sea life (manatees, whales, dolphins, sea turtles, etc.) | | | | | | |
| Abundance of other sea life (manatees, whales, dolphins, sea turtles, etc.) | | | | | | |



| | Significantly Worse | Worse | No Change | Better | Significantly Better | Not Sure |
|---|---------------------|-------|-----------|--------|----------------------|----------|
| Any other large scale changes over time like changes in weather patterns, water temperature, or fishing seasons | | | | | | |
| Large scale changes due to natural disasters | | | | | | |
| Overgrowth of algae | | | | | | |
| Sedimentation of reefs | | | | | | |
| Other bottom habitat | | | | | | |

Q54. In the next 10 years, do you think the condition of the marine resources in [jurisdiction] will get worse, stay the same or improve? [New]

- a. Get worse
- b. Stay the same
- c. Improve
- d. Not sure

Q55. To what degree have the changes you have observed affected your <activity> practices?

- 1. Not At All
- 2. Very Little
- 3. A Moderate Amount
- 4. Large
- 5. Significant
- 6. Not Sure

Q56. Which of these change have affected your <activity> practices and how? [Open Ended]

Q57. To what degree have you noticed any other large scale changes over time like changes in fish populations, weather patterns, water temperature, or fishing seasons?



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1. Not At All
2. Very Little
3. A Moderate Amount
4. Large
5. Significant
6. Not Sure

Q58. Please describe those changes. [Open Ended]

Q59. To what extent would you be willing to accept more limited access to <Name> MPA to have...

| | Strongly Disagree | Disagree | Neither Agree nor Disagree | Agree | Strongly Agree | Not Sure |
|---|-------------------|----------|----------------------------|-------|----------------|----------|
| More fish in reef | | | | | | |
| More living coral | | | | | | |
| More invertebrates | | | | | | |
| More turtle nesting grounds | | | | | | |
| More seagrass | | | | | | |
| More mangroves | | | | | | |
| More other sea life (manatees, whales, dolphins, sea turtles, etc.) | | | | | | |
| Cleaner water | | | | | | |
| Less algae overgrowth | | | | | | |
| Other: Please list | | | | | | |

Q60. To what extent would you be willing to accept increased fishing regulations in <Name> MPA to have...

| | Strongly Disagree | Disagree | Neither Agree nor Disagree | Agree | Strongly Agree | Not Sure |
|--------------------|-------------------|----------|----------------------------|-------|----------------|----------|
| More fish in reef | | | | | | |
| More living coral | | | | | | |
| More invertebrates | | | | | | |



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| | Strongly Disagree | Disagree | Neither Agree nor Disagree | Agree | Strongly Agree | Not Sure |
|---|-------------------|----------|----------------------------|-------|----------------|----------|
| More turtle nesting grounds | | | | | | |
| More seagrass | | | | | | |
| More mangroves | | | | | | |
| More other sea life (manatees, whales, dolphins, sea turtles, etc.) | | | | | | |
| Cleaner water | | | | | | |
| Less algae overgrowth | | | | | | |
| Other: Please list | | | | | | |

Q61. To what extent would you be willing to accept increased restrictions on invertebrate harvesting to have...

| | Strongly Disagree | Disagree | Neither Agree nor Disagree | Agree | Strongly Agree | Not Sure |
|---|-------------------|----------|----------------------------|-------|----------------|----------|
| More fish in reef | | | | | | |
| More living coral | | | | | | |
| More invertebrates | | | | | | |
| More turtle nesting grounds | | | | | | |
| More seagrass | | | | | | |
| More mangroves | | | | | | |
| More other sea life (manatees, whales, dolphins, sea turtles, etc.) | | | | | | |
| Cleaner water | | | | | | |
| Less algae overgrowth | | | | | | |
| Other: Please list | | | | | | |

Q62. To what extent would you be willing to accept increased pollution regulations to have...



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| | Strongly Disagree | Disagree | Neither Agree nor Disagree | Agree | Strongly Agree | Not Sure |
|---|-------------------|----------|----------------------------|-------|----------------|----------|
| More fish in reef | | | | | | |
| More living coral | | | | | | |
| More invertebrates | | | | | | |
| More turtle nesting grounds | | | | | | |
| More seagrass | | | | | | |
| More mangroves | | | | | | |
| More other sea life (manatees, whales, dolphins, sea turtles, etc.) | | | | | | |
| Better water transparency | | | | | | |
| Less algae overgrowth | | | | | | |
| Other: Please list | | | | | | |

Q63. To what extent would you be willing to accept more limited construction and development, particularly near the seashore, to have...

| | Strongly Disagree | Disagree | Neither Agree nor Disagree | Agree | Strongly Agree | Not Sure |
|---|-------------------|----------|----------------------------|-------|----------------|----------|
| More fish in reef | | | | | | |
| More living coral | | | | | | |
| More invertebrates | | | | | | |
| More turtle nesting grounds | | | | | | |
| More seagrass | | | | | | |
| More mangroves | | | | | | |
| More other sea life (manatees, whales, dolphins, sea turtles, etc.) | | | | | | |
| Better water transparency | | | | | | |
| Less algae overgrowth | | | | | | |
| Less sediment on reef | | | | | | |
| Other: Please list | | | | | | |

Q64. To what extent would you be willing to accept increased regulation of coral reef activities to have...



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| | Strongly Disagree | Disagree | Neither Agree nor Disagree | Agree | Strongly Agree | Not Sure |
|---|-------------------|----------|----------------------------|-------|----------------|----------|
| More fish in reef | | | | | | |
| More living coral | | | | | | |
| More invertebrates | | | | | | |
| More turtle nesting grounds | | | | | | |
| More seagrass | | | | | | |
| More mangroves | | | | | | |
| More other sea life (manatees, whales, dolphins, sea turtles, etc.) | | | | | | |
| Better water transparency | | | | | | |
| Less algae overgrowth | | | | | | |
| Other: Please list | | | | | | |

Q65. To what extent would you be willing to accept increased boating restrictions in <Name> MPA to have...

| | Strongly Disagree | Disagree | Neither Agree nor Disagree | Agree | Strongly Agree | Not Sure |
|---|-------------------|----------|----------------------------|-------|----------------|----------|
| More fish in reef | | | | | | |
| More living coral | | | | | | |
| More invertebrates | | | | | | |
| More turtle nesting grounds | | | | | | |
| More seagrass | | | | | | |
| More mangroves | | | | | | |
| More other sea life (manatees, whales, dolphins, sea turtles, etc.) | | | | | | |
| Better water transparency | | | | | | |
| Less algae overgrowth | | | | | | |
| Less anchor damage to reefs | | | | | | |
| Less marine-based pollution | | | | | | |
| Other: Please list | | | | | | |

Q66. How familiar are you with each of the following conservation local, national, and international coral reef conservation programs?



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| | Very Unfamiliar | Unfamiliar | Neither Familiar nor Unfamiliar | Familiar | Very Familiar | Not Sure |
|--|-----------------|------------|---------------------------------|----------|---------------|----------|
| <Program name> jurisdictional coral reef program | | | | | | |
| NOAA/National Coral Reef Conservation Program | | | | | | |
| Micronesia Challenge | | | | | | |
| International Coral Reef Initiative | | | | | | |
| Caribbean Challenge | | | | | | |



CATEGORY 6: Coral Reefs Changes Since Establishment of MPAs

Q67. To what degree have you seen changes in the following within the <name> MPA since it was established?

| | Significantly Fewer | Fewer | No Change | More | Significantly More | Not Sure |
|--|---------------------|-------|-----------|------|--------------------|----------|
| Fish (used for food) | | | | | | |
| Mangrove crab | | | | | | |
| Mangrove trees | | | | | | |
| Round clam (popol) | | | | | | |
| Conch and other sea shells | | | | | | |
| Corals | | | | | | |
| Seagrasses | | | | | | |
| Invertebrates | | | | | | |
| Turtle nesting grounds | | | | | | |
| Sandy beaches | | | | | | |
| Sea urchins | | | | | | |
| Octopus | | | | | | |
| Lobsters | | | | | | |
| Sea birds | | | | | | |
| Other sea life (manatees, whales, dolphins, sea turtles, etc.) | | | | | | |
| Other bottom habitat | | | | | | |
| <i>Specific species to be added as determined by location</i> | | | | | | |

Q68. To what degree have you seen changes in the abundance/condition of each of the following since <name> MPA was established?



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| | Significantly Worse | Worse | No Change | Better | Significantly Better | Not Sure |
|---|---------------------|-------|-----------|--------|----------------------|----------|
| Fish on the Reef Flat | | | | | | |
| Fish on the Reef Slope | | | | | | |
| Pelagic Fish | | | | | | |
| Invertebrates on the Reef Flat | | | | | | |
| Invertebrates on the Reef Slope | | | | | | |
| Spawning Stocks | | | | | | |
| Reef Flat Habitat | | | | | | |
| Reef Slope Habitat | | | | | | |
| Water Quality | | | | | | |
| Mangrove Crab | | | | | | |
| Mangrove Trees | | | | | | |
| Sea Shells | | | | | | |
| Corals | | | | | | |
| Seagrasses | | | | | | |
| Number of fish | | | | | | |
| Size of fish | | | | | | |
| Types of fish (i.e., diversity) | | | | | | |
| Abundance of Invertebrates | | | | | | |
| Abundance of Living Coral | | | | | | |
| Turtle Nesting Sites | | | | | | |
| Other sea life (manatees, whales, dolphins, sea turtles, etc.) | | | | | | |
| Abundance of other sea life (manatees, whales, dolphins, sea turtles, sharks etc.) | | | | | | |
| Any other large scale changes over time like changes in weather patterns, water temperature, or fishing seasons | | | | | | |
| Other bottom habitat | | | | | | |



Q69. To what degree have you seen a change in the amount of each of the following directly outside the <name> MPA now versus XX years ago? (Years to vary depending on location)

| | Significantly Fewer | Fewer | No Change | More | Significantly More | Not Sure |
|---|---------------------|-------|-----------|------|--------------------|----------|
| Food fish | | | | | | |
| Aquarium fish | | | | | | |
| Mangrove crab | | | | | | |
| Mangrove trees | | | | | | |
| Round clam (popol) | | | | | | |
| Conch and other sea shells | | | | | | |
| Corals | | | | | | |
| Seagrasses | | | | | | |
| Invertebrates | | | | | | |
| Turtle nesting grounds | | | | | | |
| Sea urchins | | | | | | |
| Octopus | | | | | | |
| Lobsters | | | | | | |
| Sea birds | | | | | | |
| Other sea life (manatees, whales, dolphins, sea turtles, sharks etc.) | | | | | | |
| Other bottom habitat | | | | | | |

Q70. To what degree have you seen changes in abundance/condition in each of the following directly outside the <name> MPA now versus 5 years ago?

| | Significantly Worse | Worse | No Change | Better | Significantly Better | Not Sure |
|---------------------------------|---------------------|-------|-----------|--------|----------------------|----------|
| Fish on the Reef Flat | | | | | | |
| Fish on the Reef Slope | | | | | | |
| Pelagic Fish | | | | | | |
| Invertebrates on the Reef Flat | | | | | | |
| Invertebrates on the Reef Slope | | | | | | |
| Spawning Stocks | | | | | | |



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| | Significantly Worse | Worse | No Change | Better | Significantly Better | Not Sure |
|---|---------------------|-------|-----------|--------|----------------------|----------|
| Reef Flat Habitat | | | | | | |
| Reef Slope Habitat | | | | | | |
| Water Quality | | | | | | |
| Mangrove Crab | | | | | | |
| Mangrove Trees | | | | | | |
| Sea Shells | | | | | | |
| Corals | | | | | | |
| Seagrasses | | | | | | |
| Number of fish | | | | | | |
| Size of fish | | | | | | |
| Types of fish (i.e., diversity) | | | | | | |
| Abundance of Invertebrates | | | | | | |
| Abundance of Living Coral | | | | | | |
| Turtle Nesting Sites | | | | | | |
| Other sea life (manatees, whales, dolphins, sea turtles, etc.) | | | | | | |
| Abundance of other sea life (manatees, whales, dolphins, sea turtles, etc.) | | | | | | |
| Any other large scale changes over time like changes in weather patterns, water temperature, or fishing seasons | | | | | | |
| Other bottom habitat | | | | | | |

Q71. Please rate the change in status/condition of the following since the implementation of the <name> MPA.

| | Significantly Worse | Worse | No Change | Better | Significantly Better | Not Sure |
|-----------------------------------|---------------------|-------|-----------|--------|----------------------|----------|
| Land-based pollution/sewage | | | | | | |
| Sediment runoff in the reef area | | | | | | |
| Sea-based pollution/marine debris | | | | | | |
| Sea water quality | | | | | | |
| Coral reef fisheries | | | | | | |



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| | Significantly Worse | Worse | No Change | Better | Significantly Better | Not Sure |
|---|---------------------|-------|-----------|--------|----------------------|----------|
| Pelagic fisheries | | | | | | |
| Mooring buoys | | | | | | |
| Fewer vessel groundings | | | | | | |
| Crowding (too many people) | | | | | | |
| Incidence of harmful algal blooms (e.g., red tides) | | | | | | |
| Number of shark sightings | | | | | | |
| Improvement in reef-related livelihoods | | | | | | |
| Access to reefs | | | | | | |

Q72. To what degree do you feel the <name> MPA is responsible for the status/condition of these resources?

| | Not At All | Slightly | Somewhat | To A Large Degree | Completely | Not Sure |
|---|------------|----------|----------|-------------------|------------|----------|
| Land-based pollution/sewage | | | | | | |
| Sediment runoff in the reef area | | | | | | |
| Sea-based pollution/marine debris | | | | | | |
| Sea water quality | | | | | | |
| Coral reef fisheries | | | | | | |
| Pelagic fisheries | | | | | | |
| Mooring buoys | | | | | | |
| Fewer vessel groundings | | | | | | |
| Crowding (too many people) | | | | | | |
| Incidence of harmful algal blooms (e.g., red tides) | | | | | | |
| Number of shark sightings | | | | | | |

Q73. To what degree has your use of <name> MPA changed since the zone was established?

1. Rarely or never used and still do not
2. Decreased significantly
3. Decreased some



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4. Has not changed
5. Increased some
6. Increased Significantly
7. Not sure



CATEGORY 7: Knowledge of Rules/Regulations

Q74. Here in [jurisdiction], do regulations exist for participating in each of the following activities in or near a coral reef in <location>/<Name> MPA?

| | Yes | No | Don't know |
|--------------------------------------|-----|----|------------|
| Coral Harvesting | | | |
| Invertebrate Harvesting | | | |
| Harvesting of Mangroves | | | |
| Harvesting of mangrove species | | | |
| Fishing with Rod & Reel | | | |
| Sport / Recreational fishing | | | |
| Net-fishing | | | |
| Trap fishing | | | |
| Talakhaya (Throw Net) Fishing | | | |
| SCUBA Spearfishing | | | |
| Freedive Spearfishing | | | |
| Gillnet Fishing | | | |
| Spear Fishing | | | |
| Live Fish Collecting | | | |
| Commercial Fishing | | | |
| Subsistence Fishing | | | |
| Collecting Trochus | | | |
| Collecting Sea Cucumbers | | | |
| Size of fish that can be removed | | | |
| Number of fish catch per trip | | | |
| Driving on Beach | | | |
| Burning | | | |
| Trash Dumping | | | |
| SCUBA diving | | | |
| Snorkeling/swimming | | | |
| Boating | | | |
| Water sports | | | |
| Sea Turtle Harvesting | | | |
| Taking Sea Turtle Eggs | | | |
| Taking Bird Eggs | | | |
| Residential / Commercial Development | | | |
| Sand Extraction | | | |
| Anchoring | | | |
| Using chemicals for fishing | | | |
| Using explosives for fishing | | | |



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Q75. When you were planning your recent trip to <location>, were you aware that there were special zones where certain activities are restricted or not allowed? OR How familiar are you with rules and regulations associated with coral reefs in [your jurisdiction]

1. Yes
2. No
3. Not Sure

Q76. Did you know before your recent visit to <location> that all <name/region> is a Marine Protected Area?

1. Yes
2. No
3. Not Sure

Q77. Which of the following restrictions exist in <name> MPA? (Please check all that apply)

1. No fishing
2. Designated no take areas
3. Seasonal fishing restrictions
4. Species restrictions
5. Fish size restrictions
6. No anchoring
7. Prohibited discharge of sewage or graywater from vessels
8. Restrictions on coastal construction/development
9. Vessel transit restrictions (e.g., no transit of oil tankers)
10. Restrictions on types of fishing gear used
11. Diving restrictions
12. Restrictions on tourist activities
13. Permits required for use
14. Cultural use only
15. Bag limits
16. Limits on gear types
14. Other: Please list

Q78. How familiar are you with more traditional or cultural methods for managing marine resources and coral reefs in [Location]? OR To what extent are coral reef environments important to you and your family's cultural beliefs and practices?

1. Very unfamiliar



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2. Unfamiliar
3. Neither familiar nor unfamiliar
4. Familiar
5. Very Familiar
6. Not Sure

Q79. Does your village have a local, traditional, or cultural method for managing marine resources and coral reefs?

1. Yes
2. No
3. Not Sure

Q79a. Please describe. [Open Ended]

Q80. How effective are the more traditional or cultural methods for managing marine resources and coral reefs?

1. Very ineffective
2. Ineffective
3. Neither effective nor ineffective
4. Effective
5. Very effective
6. Not Sure

Q80a. Please explain [Open Ended]

Q81. How effective are the more traditional or cultural methods for managing marine resources and coral reefs as compared to more “modern” rules and regulations for governing marine resources and coral reefs?

1. Traditional methods are much less effective
2. Traditional methods are less effective
3. No difference between the traditional and modern methods
4. Traditional methods are more effective
5. Traditional methods are much more effective
6. Not Sure





CATEGORY 8: Compliance with Rules/Regulations

Q82. Please rate the extent to which you believe each of the following occur.

| | Never | 1-25% Rarely | 26-50% Sometimes | 51-75% About Half of the Time | 76-99% Most of the Time | Always | Not Sure |
|---|-------|-----------------|---------------------|-------------------------------------|----------------------------|--------|----------|
| How often do you believe fishers do not comply with regulations? | | | | | | | |
| How often do you believe that a fisher who is not complying with fisheries regulations would be seen or detected by enforcement agents? | | | | | | | |
| How often do you believe that fishers who do not comply with fisheries regulations are caught and penalized? | | | | | | | |
| How often do you believe that people fish inside the <name> MPA no-take zones? | | | | | | | |
| Based on your observations, how often would you say that commercial fishers do not comply with fisheries regulations? | | | | | | | |
| Based on your observations, how often would you say that non-commercial fishers do not comply with fisheries regulations? | | | | | | | |
| How often do people from <location> not comply with MPA regulations? | | | | | | | |
| How often do people from outside <location> not comply with MPA regulations? | | | | | | | |
| How often do you believe commercial or recreational divers do not comply with regulations? | | | | | | | |
| How often do you believe that a commercial or recreational diver who is not complying with regulations would be seen or detected by the enforcement agencies? | | | | | | | |
| How often do you believe commercial or recreational divers who do not comply with regulations are caught and penalized? | | | | | | | |
| Based on your observations, how often would you say that commercial dive operators do not | | | | | | | |



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| | Never | 1-25% Rarely | 26-50% Sometimes | 51-75% About Half of the Time | 76-99% Most of the Time | Always | Not Sure |
|--|-------|-----------------|---------------------|-------------------------------------|----------------------------|--------|----------|
| comply with regulations? | | | | | | | |
| Based on your observations, how often would you say that recreational divers do not comply with regulations? | | | | | | | |

Q83. Please rate the extent to which you agree/disagree with each of the following.

| | Strongly | Disagree | Neither | Agree | Strongly | Not Sure |
|---|----------|----------|---------|-------|----------|----------|
| People from <location> respect the MPA regulations. | | | | | | |
| People from outside <location> respect the MPA regulations. | | | | | | |
| Commercial diving operations respect MPA regulations. | | | | | | |
| Local diving operations respect MPA regulations. | | | | | | |
| Commercial fishing operations respect MPA regulations. | | | | | | |
| Local fishing operations respect MPA regulations. | | | | | | |
| Tourists respect MPA regulations. | | | | | | |
| Tourists are knowledgeable of MPA regulations. | | | | | | |
| Local people are knowledgeable about MPA regulations | | | | | | |
| Commercial and local fisheries are treated differently by authorities for violating regulations. | | | | | | |
| Commercial and local diving operations are treated differently by authorities for not complying with regulations. | | | | | | |
| Enforcement of regulations is fairly carried out. | | | | | | |
| Enforcement of regulations is adequate. | | | | | | |
| Penalties are fair and in line with the violation. | | | | | | |
| No specific groups are singled out in enforcement of regulations. | | | | | | |
| No specific groups are singled out in allocating penalties. | | | | | | |

Q84. Why do you think some people do not follow the regulations?



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| | Strong Reason | Sort of a reason | Not a reason | Not Sure |
|--|---------------|------------------|--------------|----------|
| It is easy to do- not likely to get caught | | | | |
| They don't know it's illegal | | | | |
| They don't know it can harm the environment | | | | |
| They don't know it can harm wildlife and the coral reef ecosystem | | | | |
| They need to earn a living and feel they have no other option | | | | |
| They don't care | | | | |
| People are lazy | | | | |
| They think it's fun | | | | |
| They want to fish/dive in a less populated area | | | | |
| MPAs have more fish/coral to see/catch | | | | |
| People do not appreciate how much of an impact violating regulations has on the environment/coral reef ecosystem | | | | |
| The MPA is easier to get to (or safer) than other fishing areas | | | | |
| There is not enough enforcement | | | | |
| Other, please specify | | | | |

Q85. Please rate your confidence level that each of the following is accurately and fairly enforcing coral reef related rules and regulations.

| | Not at all Confident | Slightly Confident | Moderately Confident | Confident | Very Confident | Not Sure |
|--------------------------------|----------------------|--------------------|----------------------|-----------|----------------|----------|
| Enforcement officers | | | | | | |
| Administrative hearings | | | | | | |
| Legal and trial process | | | | | | |



CATEGORY 9: Coral Reef Management Processes

Q86. *Have you donated any money or time towards an environmental cause in the last 12 month?*

1. Time
2. Money
3. Both
4. Neither

Q87. *How much time did you donate over the last 12 months? (if yes to previous question)*

1. Less than 5 hours
2. 5-25 hours
3. 25-50 hours
4. 50-75 hours
5. More than 100 hours
6. No response

Q88. *How much money did you donate over the last 12 months? (if yes to prior question)*

1. Less than \$20
2. \$20 - \$50
3. \$50 - \$100
4. \$100 - \$200
5. More than \$200
6. No response

Q89. *How often do you participate in the following activities to protect the environment?*



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| | Not At All | Once a year or Less | Several times a year | At least once a month | Several Times a Month or More |
|---|------------|---------------------|----------------------|-----------------------|-------------------------------|
| Coastal Cleanup (beach clean up) | | | | | |
| Community watch | | | | | |
| Volunteer as a docent (school, visitor center, etc) | | | | | |
| Volunteer with a non-governmental organization | | | | | |
| Develop or maintain a coral reef blog, web site, or other Internet presence | | | | | |
| Fish monitoring/fish counts | | | | | |
| Community-based creel survey | | | | | |
| Local education/awareness initiatives | | | | | |
| Other: Please list | | | | | |

[INTERVIEWER READS] Please carefully consider the following plan to protect coral reefs in [Jurisdiction].

Suppose, because of the need to raise funds to improve management of coral reefs, the state/territorial government of [Jurisdiction] was considering adding a “Reef Conservation Tax” on top of your existing local taxes. The funds generated from the special tax would go directly towards the agencies involved in the conservation of coral reefs. The funds would pay for some of the management actions described in earlier questions and should result in improving the amount of reef fish, reduced pollution from the land and restore damaged coral reefs.

Suppose, in order to implement the new policy, the [Jurisdiction] had to call a <statewide/jurisdictional> vote where all residents of [Jurisdiction] over age 18 were asked to vote on the amount of the tax increase. If the majority of persons vote for the increase, then the tax would be implemented.

As a reminder, this is a hypothetical plan, and people often overstate the amount they would be willing to pay in surveys like this, but we’d like you to consider what decision you would really make if you had to spend the extra money, given your current budget.

Q90. If the proposed tax were to cause your household expenses to increase by \$XX per year, or in other words, \$Y extra per month, how would you vote?¹

1. YES
2. NO

SKIP PATTERN-- If respondent answers ‘YES’, then skip to #Next Question in Series:

¹ (Bid Range \$5, \$10, \$25, \$50, \$100, \$250 and \$500; based on average income in jurisdiction): These prices will be distributed across the surveys (\$XX) and used for estimating the non-market value. Presented as an annual & monthly rate so the respondent can make an informed tradeoff based on their budget constraint.



Q91. If you answered NO to the hypothetical tax increase question, please state your reason (Check all that apply)

- a. This increased tax would be too expensive for me
- b. I don't trust the government to give the money to the environmental agencies
- c. I don't think the environmental agencies are effective
- d. I prefer to donate directly to environmental organizations
- e. I don't believe in raising taxes on principle
- f. I think that current management is effective and doesn't require more economic resources
- g. Other

Q92. To what degree are you involved in making decisions related to the management of coral reefs in <location>?

1. Not at all involved
2. Slightly involved
3. Moderately involved
4. Involved
5. Very involved

Q93. How satisfied are you with the current management strategies for coral reefs in <location>?

1. Very unsatisfied
2. Unsatisfied
3. Neither
4. Satisfied
5. Very Satisfied
6. Not sure

Q94. How effective are each of the following management strategies or regulations in the <name> MPA/Jurisdiction?



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| | Very Ineffective | Ineffective | Neither Effective Nor Ineffective | Effective | Very Effective | Not Sure |
|--|------------------|-------------|--------------------------------------|-----------|----------------|----------|
| Restricting use of anchors and or designate mooring areas | | | | | | |
| Limiting shoreside/streamside activities (e.g., agriculture or construction) to reduce pollution | | | | | | |
| Fishing restrictions (e.g., fish size class, number of fish, fishing seasons, locations) | | | | | | |
| Species restrictions | | | | | | |
| Catch shares | | | | | | |
| Traditional management methods | | | | | | |
| Controlling access to coral reefs | | | | | | |
| Limiting construction maritime facilities (piers, waterfronts, boat ramps) | | | | | | |
| Dive tourism restrictions | | | | | | |
| Seasonal/rotational closures | | | | | | |
| Distributing coral reef educational materials to visitor | | | | | | |
| Conducting outreach activities to educate public | | | | | | |
| Marine zoning | | | | | | |
| Other: Please list | | | | | | |

Q95. What, if any, management strategies or regulations do you think should be changed in the <name> MPA?

1. Restricting use of anchors and or designate mooring areas
2. Limiting shoreside/streamside activities (e.g., agriculture or construction) to reduce pollution
3. Fishing restrictions (e.g., fish size class, number of fish, fishing seasons, locations)
4. Controlling access to coral reefs
5. Limiting construction maritime facilities (piers, waterfronts, boat ramps)
6. Dive tourism restrictions
7. Seasonal/rotational closures
8. Distributing coral reef educational materials to visitor
9. Conducting outreach activities to educate public
10. Marine zoning
11. Other: Please list



Q96. How effective do you think [regulation] of each of the following are at [location]?

| Management of: | Very Ineffective | Ineffective | Neither Effective nor Ineffective | Effective | Very Effective | Don't Know |
|---|------------------|-------------|-----------------------------------|-----------|----------------|------------|
| Fishing | | | | | | |
| Beach Use | | | | | | |
| Littering or dumping | | | | | | |
| Illegal burning | | | | | | |
| Road Maintenance | | | | | | |
| Watershed issues (e.g. pollution, nutrient runoff, sediment, coastal development) | | | | | | |
| No-take MPAs | | | | | | |
| Restricted use MPAs | | | | | | |
| Gear restrictions | | | | | | |
| Size restrictions on fishing | | | | | | |
| Species restrictions on fishing | | | | | | |
| Seasonal and/or rotational closures | | | | | | |
| Dive tourism | | | | | | |
| Other tourist activities | | | | | | |
| Sand mining | | | | | | |
| Other: Please list | | | | | | |

Q97. How successful is the Federal government in protecting coral reefs?

1. Not at all successful
2. Somewhat successful
3. Moderately successful
4. Successful
5. Extremely successful
6. Not sure

Q98. How successful is the local government in protecting coral reefs?

1. Not at all successful
2. Somewhat successful



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3. Moderately successful
4. Successful
5. Extremely successful
6. Not sure

Q99. *How involved is the local community in protecting and managing coral reefs?*

1. Not at all involved
2. Somewhat involved
3. Moderately involved
4. Involved
5. Very involved
6. Not sure

Q100. *How effective is the local community in protecting and managing coral reefs?*

1. Not at all effective
2. Somewhat effective
3. Moderately effective
4. Effective
5. Very effective
6. Not sure

Q101. *In your opinion, who has primary decision making authority over the coral reefs (and associated species)?*

1. Residents of <location>
2. A particular family
3. Village leadership
4. Village residents
5. Community group
6. No one
7. Residents of [territory]
8. The local government
9. The federal government
10. Other: Please list



Q102. In your opinion, who is primarily responsible for management activities to protect coral reefs (and associated species)?

1. Residents of <location>
2. A particular family
3. Village leadership
4. Village residents
5. Community group: _____
6. No one
7. Residents of <territory>
8. The local government
9. The federal government
10. Other: Please list



CATEGORY 10: Support for Management Processes and Regulations

Q103. Please rate the extent to which you agree or disagree with each of the following.

| | Strongly Disagree | Disagree | Neither Agree nor Disagree | Agree | Strongly Agree | Not Sure |
|---|-------------------|----------|----------------------------|-------|----------------|----------|
| The process that the government has used to develop rules and regulations for <Name> MPA was open and fair to all groups | | | | | | |
| It has not mattered whether the average person participated in the workshops and meeting on the <Name> MPA because the average person could not influence the final decisions | | | | | | |
| The government agency responsible for designating the <Name> MPA has not addressed the concerns of local and state (or other federal) governments in developing rules and regulations for the MPA | | | | | | |
| The government has not addressed the concerns of individual citizens in developing rules and regulations for <Name> MPA | | | | | | |
| Once <Name> MPA regulations have been in effect, there has been no way that the average person to voice his/her opinion on the usefulness of the regulations | | | | | | |
| The procedures that the government has established to deal with violations of <Name> MPA regulations have been fair and just | | | | | | |
| <Location> has benefited environmentally from <Name> MPA | | | | | | |
| <Location> has benefited socially from <Name> MPA | | | | | | |
| <Location> has benefited culturally from <Name> MPA | | | | | | |
| <Location> has benefited financially from <Name> MPA | | | | | | |
| Sufficient resources and staff are available to enforce current regulations | | | | | | |
| I know where to go to find information about regulations | | | | | | |
| When developing regulations, the government takes the needs of the local community affected by the regulations into consideration | | | | | | |
| Boating regulations are too stringent | | | | | | |
| Fishing regulations are too stringent | | | | | | |
| Construction regulations are too stringent | | | | | | |
| Recreational activity regulations are too stringent | | | | | | |



| | Strongly Disagree | Disagree | Neither Agree nor Disagree | Agree | Strongly Agree | Not Sure |
|--|-------------------|----------|----------------------------|-------|----------------|----------|
| Pollution regulations are too stringent | | | | | | |
| Harvesting regulations are too stringent | | | | | | |
| Access regulations are too stringent | | | | | | |
| Boating regulations hurt the local economy | | | | | | |
| Fishing regulations hurt the local economy | | | | | | |
| Construction regulations hurt the local economy | | | | | | |
| Recreational activity regulations hurt the local economy | | | | | | |
| Pollution regulations hurt the local economy | | | | | | |
| Harvesting regulations hurt the local economy | | | | | | |
| Access regulations hurt the local economy | | | | | | |

Q104. To sufficiently protect the coral reefs, do you believe stronger, weaker, or no change to the existing regulations in <location> is warranted?

1. Significantly weaker regulations
2. Weaker regulations
3. No change
4. Stronger regulations
5. Significantly stronger regulations
6. Not Sure

Q105. To what extent would you support each of the following possible changes to existing rules and regulations or to existing management processes to improve the protection of the coral reefs in <location>? OR The following are proposed or existing strategies used to manage the marine environment and specifically, to improve the protection of coral reefs in [jurisdiction]. Please rate whether you oppose or support each type of strategy

| Fishing and Harvesting Practices | Strongly Oppose | Oppose | Neither Support nor Oppose | Support | Strongly Support | Don't Know |
|-------------------------------------|-----------------|--------|----------------------------|---------|------------------|------------|
| Ban commercial harvesting | | | | | | |
| Ban commercial fishing | | | | | | |
| Create area for traditional fishing | | | | | | |



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| Fishing and Harvesting Practices | Strongly Oppose | Oppose | Neither Support nor Oppose | Support | Strongly Support | Don't Know |
|--|-----------------|--------|----------------------------|---------|------------------|------------|
| Allow more types of resource use in reserve | | | | | | |
| Prohibit Scuba-spear fishing | | | | | | |
| Prohibit destructive gear-types | | | | | | |
| Prohibit [specific gear types] | | | | | | |
| Create more no-catch (no-take) fishing zones | | | | | | |
| Create more restricted use zones | | | | | | |
| Bag limits | | | | | | |
| Minimum size limits on fish that can be taken | | | | | | |
| Maximum size limits on fish that can be taken | | | | | | |
| Species restrictions | | | | | | |
| Slot limits (fish take is allowed above or below a certain size) | | | | | | |
| Seasonal/spawning periods | | | | | | |
| Fishing activities must be approved by the existing reef boards | | | | | | |
| Catch shares | | | | | | |
| Efforts to restore damaged coral reefs | | | | | | |
| No harvesting of bottom formations inside <Name> MPA | | | | | | |
| No taking of invertebrates inside <Name> MPA | | | | | | |
| Incorporate traditional [jurisdictional: e.g. "Hawaiian"] practices into coral reef management | | | | | | |
| The hook-and-line only fishing regulation in <Name> MPA | | | | | | |

| Other Rules/Regulations | Strongly Oppose | Oppose | Neither Support nor Oppose | Support | Strongly Support | Don't Know |
|--|-----------------|--------|----------------------------|---------|------------------|------------|
| Increase enforcement of existing rules/regulations | | | | | | |
| Expand boundaries of MPA | | | | | | |
| Expand no-take area | | | | | | |
| Decrease size no-take area | | | | | | |
| Seasonal and/or rotational openings/closures | | | | | | |
| Increase community participation in reserve management | | | | | | |



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| Other Rules/Regulations | Strongly Oppose | Oppose | Neither Support nor Oppose | Support | Strongly Support | Don't Know |
|---|-----------------|--------|----------------------------|---------|------------------|------------|
| Stricter controls on sediment and nutrient runoff from land to the ocean | | | | | | |
| More stringent control of pollutants to preserve water quality | | | | | | |
| Stricter regulations on discharging of pollutants in <Name> MPA | | | | | | |
| Restrictions on coastal development | | | | | | |
| Banning commercial/recreational activities | | | | | | |
| Limiting dive tourism | | | | | | |
| Limiting other tourist activities | | | | | | |
| Enforced training/certification of scuba divers and snorkelers | | | | | | |
| Dive/snorkel operations should have limited entry in <location> | | | | | | |
| Implement/enforce monetary fines for violation | | | | | | |
| Stronger shipping regulations | | | | | | |
| Ban anchoring in MPA | | | | | | |
| Limit vessel size for mooring use in the MPA | | | | | | |
| Require vessels use mooring buoys within the MPA | | | | | | |
| Regulations on minimum distance and speed from vessels flying a dive flag | | | | | | |
| The requirement that all dive vessels fly a dive flag | | | | | | |
| Other: Please list | | | | | | |

Q106. Please rate the extent to which you agree or disagree with each of the following statements.

| | Strongly Disagree | Disagree | Neither Agree nor Disagree | Agree | Strongly Agree | Not Sure |
|---|-------------------|----------|----------------------------|-------|----------------|----------|
| I support the <Name> MPA as it is currently established | | | | | | |
| I support the no anchoring regulation in the MPA | | | | | | |
| I support the prohibition on disturbing the sea bed including all mining and oil & gas activities | | | | | | |



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| | Strongly Disagree | Disagree | Neither Agree nor Disagree | Agree | Strongly Agree | Not Sure |
|---|-------------------|----------|----------------------------|-------|----------------|----------|
| I support the prohibition of commercial fishing use of wire fishing traps | | | | | | |
| I support the prohibition commercial fishing using bottom trawls | | | | | | |
| I support the prohibition on the damage or removal of bottom formations (e.g. corals and rock) | | | | | | |
| I support the prohibition on the use of explosives for fishing | | | | | | |
| I support the prohibition on the discharge of pollutants in <Name> MPA waters | | | | | | |
| I support the prohibition on spear fishing in the MPA | | | | | | |
| The process that <name> MPA used to develop its rules and regulations was open and fair to all groups | | | | | | |
| It has not mattered whether the average person participated in the workshops and meeting of the <Name> MPA because the average person could not influence the final decisions | | | | | | |
| <Name> MPA has not addressed the concerns of other federal and state governments in developing its rules and Regulations | | | | | | |
| <Name> MPA has not addressed the concerns of individual citizens in developing its rules and regulations | | | | | | |
| Once the <Name> MPA regulations have been in effect, there has been no way that the average person to voice his/her opinion on the usefulness of the regulations | | | | | | |
| The procedures that <Name> MPA has established to deal with violations of its regulations has been fair and just | | | | | | |
| <Name> MPA does a good job of enforcing its regulations | | | | | | |
| <Name> MPA does a good job of educating the public about its rules and regulations | | | | | | |



CATEGORY 11: Sources of Information Available

Q107. Which of the following sources would you consider to be your primary sources of information about coral reefs in <location>? (Please check up to 5). List region specific sources as well

- | | |
|---------------------------|---|
| 1. Newspaper | 15. [<input type="checkbox"/>] Website |
| 2. Radio | 16. [<input type="checkbox"/>] Staff |
| 3. Television | 17. Sanctuary Advisory Council |
| 4. Brochures | 18. People who participate in coral reef related activities |
| 5. Informational Signs | 19. Magazines |
| 6. Community Members | 20. Government agency publications |
| 7. Community/club Meeting | 21. Conservation organization publications |
| 8. Work | 22. NOAA sponsored Publications or websites |
| 9. Friends | 23. Other: Please list |
| 10. Family | 24. None |
| 11. Teachers | |
| 12. Religious Leaders | |
| 13. Workshop | |
| 14. Word of mouth | |

Q108. Which of the following sources would you consider to be your primary sources of information on participating in coral reef related activities you enjoy and its impact on coral reefs? (Please check up to 5). List region specific sources as well

- | | |
|---------------------------|---|
| 1. Newspaper | 13. Workshop |
| 2. Radio | 14. Word of mouth |
| 3. Television | 15. [<input type="checkbox"/>] Website |
| 4. Brochures | 16. [<input type="checkbox"/>] Staff |
| 5. Informational Signs | 17. Sanctuary Advisory Council |
| 6. Community Members | 18. People who participate in coral reef related activities |
| 7. Community/club Meeting | 19. Magazines |
| 8. Work | 20. Government agency publications |
| 9. Friends | 21. Conservation organization publications |
| 10. Family | |
| 11. Teachers | |
| 12. Religious Leaders | |



22. NOAA sponsored Publications or websites

23. Other: Please list

24. None

Q109. Which of the following sources would you consider to be your primary sources of information on government rules and regulations of coral reefs in <location>? (Please check up to 5). List region specific sources as well

1. Newspaper

2. Radio

3. Television

4. Brochures

5. Informational Signs

6. Community Members

7. Community/club Meeting

8. Work

9. Friends

10. Family

11. Teachers

12. Religious Leaders

13. Workshop

14. Word of mouth

15. [] Website

16. [] Staff

17. Sanctuary Advisory Council

18. People who participate in coral reef related activities

19. Magazines

20. Government agency publications

21. Conservation organization publications

22. NOAA sponsored Publications or websites

23. Other: Please list

24. None

Q110. Which of the following sources would you consider to be your primary sources of information about coral reefs management processes in <location>? (Please check up to 5). List region specific sources as well

1. Newspaper

2. Radio

3. Television

4. Brochures

5. Informational Signs

6. Community Members

7. Community/club Meeting

8. Work

9. Friends

10. Family

11. Teachers

12. Religious Leaders

13. Workshop

14. Word of mouth

15. [] Website

16. [] Staff

17. Sanctuary Advisory Council

18. People who participate in coral reef related activities

19. Magazines

20. Government agency publications

21. Conservation organization publications



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22. NOAA sponsored Publications or websites

23. Other: Please list

24. None

Q111. How often do you use each of the following sources of information to provide you accurate information on coral reefs and coral reef related topics in [jurisdiction]? List region specific sources as well

| | Never | Rarely | Sometimes | Frequently |
|---|-------|--------|-----------|------------|
| Newspaper | | | | |
| Radio | | | | |
| Television | | | | |
| Online news sources/websites | | | | |
| Social Media | | | | |
| Brochures | | | | |
| Informational Signs | | | | |
| Community Members | | | | |
| Community/club Meeting | | | | |
| Village leaders | | | | |
| Village council | | | | |
| Work | | | | |
| Friends | | | | |
| Family | | | | |
| Teacher | | | | |
| Religious Leaders | | | | |
| Workshop | | | | |
| Word of mouth | | | | |
| Sanctuary Advisory Council | | | | |
| People who participate in coral reef related activities | | | | |
| Magazines | | | | |
| Government agency publications | | | | |
| Conservation organization publications | | | | |
| Government sponsored publications or websites | | | | |
| Other: Please list | | | | |



CATEGORY 12: Coral Reef Financial Reliance

Q112. To what degree do you rely on coral reefs as a source of food for yourself and your family?

1. Not at all
2. For a small part of the food we consume
3. For about half of my food we consume
4. For the majority, but not all of my food we consume
5. For my all of my food we consume
6. Not sure

Q113. To what degree do you rely on coral reefs for a source of income?

1. Not at all
2. For a small part of my income
3. For about half of my income
4. For the majority, but not all of my income
5. For my all of my income
6. Not sure

Q114. How often do you fish or harvest marine resources for each of the following reasons?

| | Never | Rarely | Sometimes | Often | Frequently | No Response |
|---|-------|--------|-----------|-------|------------|-------------|
| To feed myself and my family/ household | | | | | | |
| To sell for profit | | | | | | |
| To give to extended family members and/or friends | | | | | | |
| For fun | | | | | | |
| For special occasions and cultural events | | | | | | |
| To donate to charities | | | | | | |
| Other: Please list | | | | | | |



Q115. Is your occupation affiliated with the marine environment/industry in <location>?

1. Yes
2. No
3. Not sure

Q116. If YES, please circle the industry that best fits your primary profession.

1. Commercial fishing
 2. Charter fishing
 3. Dive/snorkel operation
 4. Marina/boat operation
 5. Other watersports
 6. Eco-tour operation
 7. Ecological research
 8. Ocean/coastal management
 9. Artisan
 10. Education
- Other _____

Q117. Do you belong to a fishery cooperative?

1. Yes
2. No
3. No Response

Q118. If yes, which one?

List fish house options for specific location

Q119. What approximate percentage of your TOTAL household income is derived from fishing?

1. Less than 10%
2. 10 - 25%
3. 26 - 50%
4. 51 - 80%
5. 80 - 100%



Q120. What is your primary launch location or access point to the water?

List options specific to <location>

Q121. Do you have a secondary launch location or access point to the water, from which you port part of the year? If so, please check.

1. I do not have a launch location or access point to the water

List options specific to <location>

Category 13: Consumption of Coral Reef products

Q122. How often do you or your family eat fish/seafood? [New]

- a. Every day
- b. A few times a week
- c. About once a week
- d. 1-3 times a month
- e. Less than once a month
- f. Never
- g. Not sure

SKIP PATTERN -- If respondent answers 'never' then skip next question

Q123. How often do you or your family eat locally-caught fish/seafood that is harvested from coral reefs? (For example parrotfish, humphead wrasse, unicorn fish, octopus or shells from nearby coral reefs)? [New]

- a. Every day
- b. A few times a week
- c. About once a week
- d. 1-3 times a month
- e. Less than once a month



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- f. Never
- g. Not sure

Q124. Where do you get the fish or seafood your family eats? [New]

- a. Purchased by myself or someone in my household at a store or restaurant
- b. Purchased by myself or someone in my household at a market or roadside vendor
- c. Caught by myself or someone in my household
- d. Caught by extended family members
- e. Caught by friends or neighbors
- f. Other, please specify _____



CATEGORY 13: Demographic Questions

Q125. How many family members do you support (including yourself)?

1. Myself Only
2. 2
3. 3
4. 4
5. 5
6. 6
7. 7
8. Greater than 7
9. No Response

Q126. What is your age? [Open Ended]

Q127. What is your sex?

1. Male
2. Female
3. No Response

Q128. What is the highest level of education you have completed?

1. 8th Grade or Less
2. 9th to 11th Grade
3. 12th Grade, High School Grad, GED
4. 13 to 15 Years (some community college or vocational training)
5. College Graduate
6. Graduate School, Law School, Medical School
7. No Response

Q129. What is your current employment status?

1. Unemployed
2. Student
3. Employed full-time



4. Homemaker
5. Employed part-time
6. Retired
7. None of the above (Please specify)
8. No Response

Q130. What is your occupation? [Open Ended]

Q131. In which sector are you employed? (Ask only for those who check employed full or part time) (check all that apply)

- | | |
|----------------------------------|---------------------------------|
| 1. Management, professional etc. | 10. Agriculture |
| 2. Service & Tourism | 11. Education |
| 3. Retail Sales | 12. Manufacturing /Oil Refinery |
| 4. Fishing/ Aquaculture | 13. Law Enforcement |
| 5. Fish Processing/Cannery | 14. Health / Medical |
| 6. Construction & Maintenance | 15. Communications |
| 7. Transportation | 16. Textiles |
| 8. Government (Federal) | 17. Other: Please list |
| 9. Government (Local) | 18. No Response |

Q132. What is your annual household income?

- | | |
|-------------------------|---------------------------|
| 1. Under \$10,000 | 7. \$60,000 to \$74,999 |
| 2. \$10,000 to \$19,999 | 8. \$75,000 to \$99,999 |
| 3. \$20,000 to \$29,999 | 9. \$100,000 to \$149,999 |
| 4. \$30,000 to \$39,999 | 10. \$150,000 or More |
| 5. \$40,000 to \$49,999 | 11. No Response |
| 6. \$50,000 to \$59,999 | |

Q133. Please list the city, state, and postal code of your primary residence [Open end]

Q134. For how many years have you lived at this location?

1. Less than 1 year
2. 1 - 5 years



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3. 5 – 10 years
4. 10 – 20 years
5. 20 – 30 years
6. More than 30 years

Q135. Do you have direct access to the water from your residence?

1. I can get to the water from my property
2. My residence is a short walk to the water
3. My residence is a short drive to the water
4. My residence does not have direct access to the water
5. No Response

Q136. What race/ethnicity do you consider yourself?

- | | |
|--------------------------------------|---|
| 1. American Indian or Alaskan Native | 13. Mexican |
| 2. Asian | 14. Native Hawaiian or other Pacific Islander |
| 3. Black or African American | 15. Samoan |
| 4. Puerto Rican | 16. Taino |
| 5. Carolinian | 17. Thai |
| 6. Chamorro | 18. Tongan |
| 7. Chinese | 62 |
| 8. Cuban | 19. Vietnamese |
| 9. Filipino | 20. White |
| 10. Japanese | 21. Other/Mixed |
| 11. White | 22. No response |
| 12. Korean | 23. Hispanic or Latino |

Q137. How proficient are you in English?

1. I speak no English
2. I speak very little English
3. Conversational
4. Completely Fluent
5. Not sure



**Q138. What language(s) do you speak, including your primary language?
(Please check each language you speak).**

- | | |
|---------------|---------------------------|
| 1. English | 12. Hindi |
| 2. Spanish | 13. Hawaiian |
| 3. French | 14. Hawaii Pidgin English |
| 4. German | 15. Sāmoan |
| 5. Italian | 16. Chamorro |
| 6. Portuguese | 17. Carolinian |
| 7. Arabic | 18. Creole |
| 8. Chinese | 19. Crucian |
| 9. Japanese | 20. Tongan |
| 10. Korean | 21. Other: Please list |
| 11. Tagalog | 22. No Response |

Q139. What religion do you consider yourself?

- | | |
|---|------------------------|
| 1. Episcopal | 19. Other: Please list |
| 2. Presbyterian | 20. None |
| 3. Baptist | 21. No Response |
| 4. Methodist | |
| 5. Lutheran | |
| 6. Christian Congregational | |
| 7. Assembly of God | |
| 8. Pentecostal | |
| 9. Seventh Day Adventist | |
| 10. Other Protestant/Non-denominational Christian | |
| 11. Mormon (LDS) | |
| 12. Catholic | |
| 13. Jewish | |
| 14. Muslim | |
| 15. Hindu | |
| 16. Bhuddist | |
| 17. Bahai | |
| 18. Atheist/Humanist | |



Q140. Do you have a particular title, leadership, or cultural status in your community? If so, please list. [Open Ended]

Q141. Do you hold the Samoan title of matai?

Q142. Please check each group of which you a member?

1. Chamber of Commerce
 2. Environmental Group
 3. Conch Coalition
 4. MCCF
 5. OFF
 6. NAUI
 7. PADI
 8. KADO
 9. FADO
 10. SSI
 11. Last Stand
 12. Reef Relief
 13. Sanctuary Friends of the Florida Keys
 14. Local religious or community organization
- Which one? _____
15. Other, please specify
 16. No response
- Include other groups in list relevant to location.

Q143. Do you own a boat?

1. Yes
2. No
3. No response



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Other important information that should be included as part of the survey instrument:

Public reporting burden for this collection of information is estimated to average 25-30 minutes per respondent, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. [*This means when developing each specific questionnaire the appropriate number of questions should be selected so as not to exceed the public burden of 30 minutes*]

Send comments regarding this burden estimate or any other suggestions for reducing this burden to (name), NOAA Line office, (address). [*This is required information as part of the questionnaire, usually at the end*]

[*A Statement on confidentiality, if applicable, should be inserted at the end unless already provided elsewhere on the form*]. Notwithstanding any other provisions of the law, no person is required to respond to, nor shall any person be subjected to a penalty for failure to comply with, a collection of information subject to the requirements of the Paperwork Reduction Act, unless that collection of information displays a currently valid OMB Control Number XXXX-XXXX.