OMB SUBMISSION

NOAA Coral Reef Conservation Program

National Coral Reef Monitoring Program (NCRMP)

Resident Coral Reef Survey

OMB Control Number 0648-0646

\*\*Hawaii Survey\*\*

*Survey conducted in (circle one): English*

Introduction: *[greeting specific to jurisdiction]*

Hello, my name is [interviewer name]. I’m calling from [CONTRACT COMPANY] on behalf of the National Oceanic and Atmospheric Administration (NOAA) and the National Coral Reef Monitoring Program. We are interested in obtaining your opinions on important issues related to coral reefs in Hawaii. You were selected because you live in a coastal area near coral reefs.

This survey is being conducted in accordance with the Privacy Act of 1974 and the Paperwork Reduction Act. Your participation is voluntary, your answers are confidential and you can stop the interview at any time. The interview is expected to take less than 20 minutes. If you have questions or would like to know more about the survey I will provide you with contact information.

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. The OMB Control number for this survey is 0648-0646

The 20 minute estimate includes the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

Please send comments regarding this burden estimate or any other suggestions for reducing this burden to Peter Edwards, National Oceanic and Atmospheric Agency, National Ocean Service, Coral Reef Conservation Program, (1305 East West Highway, Silver Spring, MD, 20910, USA).

1. Are you at least 18 years of age?

If “Yes” continue to screening question 2. If “No”, end survey.

1. Do you live in Hawaii at least 3 months of the year?

IF “YES” CONTINUE WITH QUESTION #1 OF THE SURVEY.

Now that we have established that you are qualified, we will continue with the survey. Remember that you can stop at any time.

**PARTICIPATION IN REEF ACTIVITIES**

1. How often do you usually participate in each of the following activities? ***[Interviewer should not read Don’t Know Refused]***

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Never | Once a month or less | 2-3 times a month | 4 times a month or more | No Response |
| Swimming/wading |  |  |  |  |  |
| Snorkeling |  |  |  |  |  |
| Diving (SCUBA or free diving) |  |  |  |  |  |
| Waterside/ beach camping |  |  |  |  |  |
| Beach recreation (land based beach sports, picnics) |  |  |  |  |  |
| Boating |  |  |  |  |  |
| *Wave riding (surfing, stand up paddle boarding, body boarding)* |  |  |  |  |  |
| *Canoeing/kayaking* |  |  |  |  |  |
| Fishing (for finfish) |  |  |  |  |  |
| Gathering of marine resources (non-finfish such as lobsters, octopus, opihi, seaweed) |  |  |  |  |  |

***SKIP PATTERN-- If respondent answers ‘never’ to BOTH fishing AND gathering of marine resources, then skip to #3:***

**CORAL REEF RELIANCE / CULTURAL IMPORTANCE OF REEFS**

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

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Frequently | Sometimes | Rarely | Never | No Response |
| To feed myself and my family/ household |  |  |  |  |  |
| To sell [INTERVIEWER CAN PROMPT: “or for work” to include fishing/harvesting as part of employment] |  |  |  |  |  |
| To give to extended family members and/or friends |  |  |  |  |  |
| For fun |  |  |  |  |  |
| For special occasions and cultural purposes/events |  |  |  |  |  |

1. How often does your family eat fish/seafood?

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

1. What are the two main sources of the fish and seafood that you and your family eats? [INTERVIEWER: CODE THE ANSWERS ACCORDING TO THE RESPONSE CATEGORIES PROVIDED. PROMPT WITH EXAMPLES IF NECESSARY.]
2. Purchased by myself or someone in my household at a store or restaurant
3. Purchased by myself or someone in my household at a market or roadside vendor
4. Caught by myself or someone in my household
5. Caught by extended family members
6. Caught by friends or neighbors
7. Other, please specify \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
8. Not Sure
9. Refused

**PERCEIVED RESOURCE CONDITION**

1. In your opinion, how are Hawaii’s marine resources currently doing? Please rank from very bad to very good.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | Very Bad | Bad | Neither Bad nor Good | Good | Very Good | Not sure |
| Ocean Water Quality (clean and clear) |  |  |  |  |  |  |
| Amount of Coral |  |  |  |  |  |  |
| Number of Fish |  |  |  |  |  |  |
| *Diversity of fish* |  |  |  |  |  |  |
| *Size of fish* |  |  |  |  |  |  |

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

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | A lot Worse | Somewhat Worse | No Change | Somewhat Better | A lot Better | Not Sure |
| Ocean Water Quality (clean and clear) |  |  |  |  |  |  |
| Amount of Coral |  |  |  |  |  |  |
| Number of Fish |  |  |  |  |  |  |
| *Diversity of fish* |  |  |  |  |  |  |
| *Size of fish* |  |  |  |  |  |  |

1. In the next 10 years, do you think the condition of the marine resources in Hawaii will get worse, stay the same or improve?
2. Get worse
3. Stay the same
4. Improve
5. Not sure

**AWARENESS AND KNOWLEDGE OF CORAL REEFS**

1. Please say whether you disagree or agree with each of the following statements.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | Strongly Disagree | Disagree | Neither | Agree | Strongly Agree | Not Sure |
| Coral reefs protect the Hawaii from erosion and natural disasters. |  |  |  |  |  |  |
| Coral reefs are only important to fishermen, divers and snorkelers. |  |  |  |  |  |  |
| Healthy coral reefs attract tourists to Hawaii. |  |  |  |  |  |  |
| Coral reefs are important to Hawaiian culture. |  |  |  |  |  |  |

1. How familiar are you with each of the following potential threats facing the coral reefs in Hawaii?

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | Very Unfamiliar | Unfamiliar | Neither Familiar nor Unfamiliar | Familiar | Very Familiar | Not sure |
| Climate change |  |  |  |  |  |  |
| Coral bleaching |  |  |  |  |  |  |
| Hurricanes and other natural disasters |  |  |  |  |  |  |
| Pollution (stormwater, wastewater, chemical runoff and trash/littering) |  |  |  |  |  |  |
| Increased coastal/urban development |  |  |  |  |  |  |
| Invasive species |  |  |  |  |  |  |
| Too much fishing and gathering |  |  |  |  |  |  |
| Damage from ships and boats |  |  |  |  |  |  |
| *Impacts from recreational activity (examples include trampling of reefs, anchor damage)* |  |  |  |  |  |  |
| *Ocean acidification* |  |  |  |  |  |  |

1. Do you believe that the threats to coral reefs in Hawaii are:
2. Extreme
3. Large
4. Moderate
5. Minimal
6. None
7. Not sure

**AWARENESS OF CORAL RULES AND REGULATIONS**

1. A Marine Managed Area is an area of the ocean where human activity is typically restricted to protect living, non-living, cultural, and/or historic resources. Examples in Hawaii include marine life conservation districts, fisheries management areas, and community based subsistence fishing areas. How familiar are you with Marine Managed Areas?
2. Very Unfamiliar
3. Unfamiliar
4. Neither Unfamiliar nor Familiar
5. Familiar
6. Very Familiar
7. Not sure

**ATTITUDES TOWARDS CORAL REEF MANAGEMENT STRATEGIES AND ENFORCEMENT**

1. The following are common strategies used to manage the marine environment. We are interested in your opinion about the use of these strategies for the protection of coral reefs in Hawaii. Please indicate how much you disagree or agree with each of the following:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | Strongly Disagree | Disagree | Neither Agree nor Disagree | Agree | Strongly Agree | Not Sure |
| Better regulation of land use practices to prevent sediment from going to sea |  |  |  |  |  |  |
| Catch limits per person for certain fish species (size and amount) |  |  |  |  |  |  |
| Seasonal openings/closures of fisheries |  |  |  |  |  |  |
| Gear restrictions for fishing |  |  |  |  |  |  |
| Better treatment of wastewater |  |  |  |  |  |  |
| Improved law enforcement for existing rules/regulations |  |  |  |  |  |  |
| Community participation in marine management |  |  |  |  |  |  |
| Ocean zoning |  |  |  |  |  |  |
| Designating marine managed areas |  |  |  |  |  |  |
| Limited use for recreational activities (examples include diving, snorkeling, boating) |  |  |  |  |  |  |
| No-take zones |  |  |  |  |  |  |
| Establishment of a non-commercial fishing license |  |  |  |  |  |  |

**PARTICIPATION IN BEHAVIORS THAT MAY IMPROVE CORAL CONDITION**

1. How often do you participate in any activity to protect the environment (for example, beach clean ups, volunteering with an environmental group, recycling)?
2. Not At All
3. Once a year or Less
4. Several times a year
5. At least once a month
6. Several Times a Month or more
7. Not Sure
8. Which of the following would you consider to be your top 3 sources of information about coral reefs and the environment in Hawaii?

***Interviewer checks the top 3 sources of information in box below.***

1. To what degree do you trust each of your top rated sources of information to provide you the most accurate information on coral reefs and coral reef related topics in Hawaii?

***Respondent rates only the top 3 sources of information in box below.***

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Top 3 | Sources | Very untrustworthy | Untrustworthy | Neither Trustworthy nor Untrustworthy | Trustworthy | Very Trustworthy | Not sure |
|  | **Newspapers, other print publications** |  |  |  |  |  |  |
|  | **Radio** |  |  |  |  |  |  |
|  | **TV** |  |  |  |  |  |  |
|  | **Internet** |  |  |  |  |  |  |
|  | **Friends and family** |  |  |  |  |  |  |
|  | **Community leaders** |  |  |  |  |  |  |
|  | **Religious leaders** |  |  |  |  |  |  |
|  | **Government (jurisdictional)** |  |  |  |  |  |  |
|  | **Federal government agencies (NOAA, EPA)** |  |  |  |  |  |  |
|  | **Non-profit organizations** |  |  |  |  |  |  |
|  | **Other** |  |  |  |  |  |  |

1. How involved is your local community in protecting and managing coral reefs?
2. Not at all involved
3. Somewhat involved
4. Moderately involved
5. Involved
6. Very involved
7. Not sure
8. In thinking about the previous question, how would you briefly define “your local community”? [***open ended***] \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
9. How involved are you in making decisions related to the management of coral reefs in Hawaii?
10. Not at all involved
11. Slightly involved
12. Moderately involved
13. Involved
14. Very involved
15. Not sure

**DEMOGRAPHICS**

**I just have a few more questions that will help us to interpret our results. As a reminder, the information you provide is completely confidential.**

1. Are you male or female?
2. Male
3. Female
4. What is your year of birth? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. How long have you lived in Hawaii?
6. 1 year or less
7. 2-5 years
8. 6-10 years
9. more than 10 years [but less than all my life]
10. all my life
11. Including your primary language, please name each language you speak. [***interviewer should not read options below, but should allow respondent to answer***]
12. English
13. Spanish
14. French
15. Illocano
16. Vietnamese
17. Chinese
18. Japanese
19. Korean
20. Tagolog
21. Hawaiian
22. Hawaii Pidgin English
23. Sāmoan
24. Chamorro
25. Carolinian
26. Tongan
27. Other: Please list \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
28. 17. No Response
29. What race/ethnicity do you consider yourself? [***interviewer should not read options below, but should allow respondent to answer and check all that apply***]
30. White
31. Native Hawaiian
32. Chinese
33. Japanese
34. Filipino
35. Korean
36. Vietnamese
37. Other Asian \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
38. Micronesian (includes Chuukese, Kasraean, Marshallese, Palauan, Pohnpeian, Yapese, Carolinian, Chamorro, and others)
39. Samoan
40. Tongan
41. Other Pacific Islander \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
42. Black or African American
43. American Indian or Alaskan Native
44. Hispanic or Latino
45. Other
46. No response
47. What is the highest level of education you have completed?
48. 8th Grade or Less
49. Some high school
50. High School Graduate, GED
51. Some college, community college or AA
52. College Graduate
53. Graduate School, Law School, Medical School
54. No Response
55. What is your current employment status?
56. Unemployed
57. Student
58. Employed full-time
59. Homemaker
60. Employed part-time
61. Retired
62. None of the above: Please specify \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
63. No Response
64. What is your occupation? [***open ended***] \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
65. May I ask, what is your annual household income?
66. Under $10,000
67. $10,000-19,999
68. $20,000-29,999
69. $30,000-39,999
70. $40,000-49,999
71. $50,000-59,999
72. $60,000-74,999
73. $75,000-99,999
74. $100,000-149,999
75. $150,000 or More
76. No Response

THANK YOU FOR YOUR TIME

*If you would like a copy of the results, please provide us with your mailing address or email address (write on separate contact sheet that is not linked to survey answers).*

*Do you have questions or comments for which you would like me to provide our contact information?*