

Interview Number:

OMB Approval #: 0648-0000

Expiration Date:

Version 1 – Pre-test

# *Puerto Rico Resident Survey*

**Your answers are voluntary.**

Your name will never be released to anyone unless otherwise required by law. After the completion of the project all materials identifying you as an individual will be destroyed.

**Part A: Outdoor recreation activities during the past 12 months in the Puerto Rico**

Hand Respondent the White Card Activities List and maps of the Puerto Rico Regions.

- A1. Which of the activities on the enclosed Activities List did you or someone in your household do in the Puerto Rico during the last 12 months?**
- A2. Which activities did you, yourself do during the past 12 months in Region 1, Region 2, Region 3, Region 4 and Region 5?**
- A3. On how many different days did you, yourself participate in each activity in the Region 1, Region 2, Region 3, Region 4 and Region 5?**

Only ask for those activities listed with an A on the end of the activity number

- A4. How many others (excluding yourself) in your household did each activity in the Region 1, Region 2, Region 3, Region 4 and Region 5?**

A1  Activity	Region 1			Region 2			Region 3			Region 4			Region 5		
	A2	A3	A4	A2	A3	A4	A2	A3	A4	A2	A3	A4	A2	A3	A4
	Resp. days	# others	#	Resp. days	# others	#	Resp. days	# others	#	Resp. days	# others	#	Resp. days	# others	#
_____	<input type="radio"/>	_____	_____	<input type="radio"/>	_____	_____	<input type="radio"/>	_____	_____	<input type="radio"/>	_____	_____	<input type="radio"/>	_____	_____
_____	<input type="radio"/>	_____	_____	<input type="radio"/>	_____	_____	<input type="radio"/>	_____	_____	<input type="radio"/>	_____	_____	<input type="radio"/>	_____	_____
_____	<input type="radio"/>	_____	_____	<input type="radio"/>	_____	_____	<input type="radio"/>	_____	_____	<input type="radio"/>	_____	_____	<input type="radio"/>	_____	_____
_____	<input type="radio"/>	_____	_____	<input type="radio"/>	_____	_____	<input type="radio"/>	_____	_____	<input type="radio"/>	_____	_____	<input type="radio"/>	_____	_____
_____	<input type="radio"/>	_____	_____	<input type="radio"/>	_____	_____	<input type="radio"/>	_____	_____	<input type="radio"/>	_____	_____	<input type="radio"/>	_____	_____
_____	<input type="radio"/>	_____	_____	<input type="radio"/>	_____	_____	<input type="radio"/>	_____	_____	<input type="radio"/>	_____	_____	<input type="radio"/>	_____	_____
_____	<input type="radio"/>	_____	_____	<input type="radio"/>	_____	_____	<input type="radio"/>	_____	_____	<input type="radio"/>	_____	_____	<input type="radio"/>	_____	_____
_____	<input type="radio"/>	_____	_____	<input type="radio"/>	_____	_____	<input type="radio"/>	_____	_____	<input type="radio"/>	_____	_____	<input type="radio"/>	_____	_____
_____	<input type="radio"/>	_____	_____	<input type="radio"/>	_____	_____	<input type="radio"/>	_____	_____	<input type="radio"/>	_____	_____	<input type="radio"/>	_____	_____
_____	<input type="radio"/>	_____	_____	<input type="radio"/>	_____	_____	<input type="radio"/>	_____	_____	<input type="radio"/>	_____	_____	<input type="radio"/>	_____	_____
_____	<input type="radio"/>	_____	_____	<input type="radio"/>	_____	_____	<input type="radio"/>	_____	_____	<input type="radio"/>	_____	_____	<input type="radio"/>	_____	_____
_____	<input type="radio"/>	_____	_____	<input type="radio"/>	_____	_____	<input type="radio"/>	_____	_____	<input type="radio"/>	_____	_____	<input type="radio"/>	_____	_____
_____	<input type="radio"/>	_____	_____	<input type="radio"/>	_____	_____	<input type="radio"/>	_____	_____	<input type="radio"/>	_____	_____	<input type="radio"/>	_____	_____
_____	<input type="radio"/>	_____	_____	<input type="radio"/>	_____	_____	<input type="radio"/>	_____	_____	<input type="radio"/>	_____	_____	<input type="radio"/>	_____	_____
_____	<input type="radio"/>	_____	_____	<input type="radio"/>	_____	_____	<input type="radio"/>	_____	_____	<input type="radio"/>	_____	_____	<input type="radio"/>	_____	_____
_____	<input type="radio"/>	_____	_____	<input type="radio"/>	_____	_____	<input type="radio"/>	_____	_____	<input type="radio"/>	_____	_____	<input type="radio"/>	_____	_____
_____	<input type="radio"/>	_____	_____	<input type="radio"/>	_____	_____	<input type="radio"/>	_____	_____	<input type="radio"/>	_____	_____	<input type="radio"/>	_____	_____
_____	<input type="radio"/>	_____	_____	<input type="radio"/>	_____	_____	<input type="radio"/>	_____	_____	<input type="radio"/>	_____	_____	<input type="radio"/>	_____	_____
_____	<input type="radio"/>	_____	_____	<input type="radio"/>	_____	_____	<input type="radio"/>	_____	_____	<input type="radio"/>	_____	_____	<input type="radio"/>	_____	_____
_____	<input type="radio"/>	_____	_____	<input type="radio"/>	_____	_____	<input type="radio"/>	_____	_____	<input type="radio"/>	_____	_____	<input type="radio"/>	_____	_____

Interview Number:

---

--	--	--	--	--	--

**A5. What would you say is the most important recreational activity you did in Puerto**

**Rico? Most Important Activity \_\_\_\_\_ (Activity List Number)**

**No Activity Most Important (check box)**

**A6. On how many different days did you participate in outdoor recreation activities outside of Puerto Rico during the past 12 months? \_\_\_\_\_ (# of days)**

## Part B: C o r a l reef use in the Puerto Rico during the past 12 months.

Hand respondent Blue Card with Activities List for reef use and maps of the Puerto Rico Regions

- B1. Which activities did you or someone in your household do on natural/coral reefs during the past 12 months in northwest Puerto Rico (Region 1), southwest Puerto Rico (Region 2), southeast Puerto Rico (Region 3), northeast Puerto Rico (Region 4) and the islands of Culebra and Vieques (Region 5)?**

If respondent did not do anything in a region, check the box indicating no reef use in the region

- B2. Did you, yourself, do (*read activity*) during the past 12 months in Region 1, Region 2, Region 3, Region 4, Region 5.**
- B3. How many others in your household did each activity on the reefs in Region 1, Region 2, Region 3, Region 4, Region 5 during the past 12 months?**
- B4. On how many different days did you, yourself, participate in each activity on the reefs in Region 1, Region 2, Region 3, Region 4, Region 5 during the past 12 months?**

Note: Count any part of a day as a whole day for each activity.

- B5. How many different dives did you, yourself, make for each type of diving activity you did on the reefs in Region 1, Region 2, Region 3, Region 4, Region 5 during the past 12 months?**

Diving activities include all snorkeling and scuba diving activities on the Blue Card-Activities List (Reef)

A dive is defined as an entry and exit from the water to snorkel or scuba dive

Please refer to Questions B1 – B5 when filling in the tables on the following two pages

There is one table for each of the five regions of the Puerto Rico  
(Region 1, Region 2, Region 3, Region 4, Region 5)

No Reef Use

Region 1

B1	B2	B3	B4	B5
Activity	Resp.	# Others	Respondent # of days	Respondent # of dives
_____	○	_____	_____	_____
_____	○	_____	_____	_____
_____	○	_____	_____	_____
_____	○	_____	_____	_____
_____	○	_____	_____	_____
_____	○	_____	_____	_____
_____	○	_____	_____	_____
_____	○	_____	_____	_____
_____	○	_____	_____	_____

No Reef Use

Region 2

B1	B2	B3	B4	B5
Activity	Resp.	# Others	Respondent # of days	Respondent # of dives
_____	○	_____	_____	_____
_____	○	_____	_____	_____
_____	○	_____	_____	_____
_____	○	_____	_____	_____
_____	○	_____	_____	_____
_____	○	_____	_____	_____
_____	○	_____	_____	_____
_____	○	_____	_____	_____
_____	○	_____	_____	_____

No Reef Use

Region 3

B1	B2	B3	B4	B5
Activity	Resp.	# Others	Respondent # of days	Respondent # of dives
_____	○	_____	_____	_____
_____	○	_____	_____	_____
_____	○	_____	_____	_____
_____	○	_____	_____	_____
_____	○	_____	_____	_____
_____	○	_____	_____	_____
_____	○	_____	_____	_____
_____	○	_____	_____	_____
_____	○	_____	_____	_____

\_\_\_\_\_  \_\_\_\_\_  
 **No Reef Use** \_\_\_\_\_ Region 4

<b>B1</b> Activity	<b>B2</b> Resp.	<b>B3</b> # Others	<b>B4</b> Respondent # days	<b>B5</b> Respondent # of dives
<input type="checkbox"/>	<input type="radio"/>	_____	_____	_____
<b>B1</b>	<b>B2</b>	<b>B3</b>	<b>B4</b>	<b>B5</b>
Activity	Resp.	# Others	Respondent # of days	Respondent # of dives
_____	<input type="radio"/>	_____	_____	_____
_____	<input type="radio"/>	_____	_____	_____
_____	<input type="radio"/>	_____	_____	_____
_____	<input type="radio"/>	_____	_____	_____
_____	<input type="radio"/>	_____	_____	_____

No Reef Use Region 5

_____	<input type="radio"/>	_____	_____	_____
_____	<input type="radio"/>	_____	_____	_____
_____	<input type="radio"/>	_____	_____	_____
_____	<input type="radio"/>	_____	_____	_____
_____	<input type="radio"/>	_____	_____	_____
_____	<input type="radio"/>	_____	_____	_____

### Part C. Economic Valuation of Puerto Rico's Coral Reef Ecosystems

In this section of the survey, I will first present to you some definitions and scientific facts about Puerto Rico's coral reef ecosystems. I will then present you with different reef conditions and the cost to your household to achieve those conditions. I will then ask you to choose among a set of different conditions and the cost to your household.

First, here are some definitions of what we mean by coral reefs and coral reef ecosystems.

Hand respondent the Reef Definitions and Conditions Information Card.

**Please read the Reef Definitions and Conditions Card.**

**C1. Do you have any questions about these definitions or reef conditions?**

After answering questions, show respondent cards with examples of the kinds of stony corals, soft corals, sponges, fish and macroinvertebrates that have been observed on Puerto Rico's coral reef ecosystems.

After respondent finishes viewing the cards, present the Management Solutions card.

**Please read the information on the card and tell me when you are done.**

**C2. Do you have any questions before we proceed?**

After answering respondents questions, proceed.

C3. Did you believe the information by coral scientists that in 10 to 20 years if current management practices continue that nearly all the coral reefs in Puerto Rico would be in a poor or low condition?

- a. Yes
- b. No (Go to C4)

C4. If we don't change current management practices (Status Quo), do you think that the coral reefs conditions in 10 to 20 years in Puerto Rico will

- a. Stay the same
- b. Improve
- c. Worsen

**I now will present to you a set of reef conditions at different prices and will ask you for your most preferred option. The Status Quo means no change in the management of the coral reef ecosystems and choosing this option will cost your household nothing (\$0), but will result in the poorest or lowest conditions of coral reef ecosystems on all Puerto Rico's coral reefs, except a few places that are already specially protected. In each set of options, you will always have the option of choosing the Status Quo as your most preferred**



**option.**

**Remember when making your choices on how much you are willing to pay that you only have so much income and if you pay to improve reef conditions you will have less to spend on other goods, services, and social issues that are important to you.**

**Also, even under the low conditions there are three coral reefs within Puerto Rico that have strong protections that you could use, in addition to coral reefs outside Puerto Rico.**

Hand the respondent the card with Choice Set Number 1.

**Please review the three options. Option A is the Status Quo and costs you Nothing, but all reef conditions are in a low condition. For Option B, all the reef conditions are at a medium level of condition and will cost your household \$\_\_ per year. For Option C, all reef conditions are improved to the highest condition and will cost your household \$\_\_ per year.**

C5. Which option do you prefer? \_\_\_\_\_

C6. How many days would you use Puerto Rico's Coral Reefs under the reef conditions for the option you prefer? \_\_\_\_\_ (number of days per year)

C7. Please provide a brief comment that helps us understand why you chose the option as your most preferred option? \_\_\_\_\_  
\_\_\_\_\_

Hand respondent the Economic Valuations Card

C8. How sure are you that the option you chose as your most preferred among the three options is your most preferred, not sure at all, slightly sure, moderately sure, very sure, or extremely sure? Please refer to Section 1 of the Economics Valuation Card and tell me the letter corresponding to your answer. Select one answer only.  
\_\_\_\_\_ (letter)

Hand respondent the card with Choice Set Number 2.

Please review the three options. Option A is the Status Quo and costs you Nothing, but all reef conditions are in a low condition. For Option B, some reef conditions are at a medium level and some at the high level of condition and will cost your household \$\_\_ per year. For Option C, some reef conditions are at the medium level and some are improved to the highest condition and this will cost your household \$\_\_ per year.

C9. Which option do you prefer? \_\_\_\_\_

C10. How many days would you use Puerto Rico's Coral Reefs under the reef conditions for the option you prefer? \_\_\_\_\_ (number of days per year)

C11. Please provide a brief comment that helps us understand why you chose the option as your most preferred option?  
\_\_\_\_\_  
\_\_\_\_\_

C12. How sure are you that the option you chose as your most preferred among the three options is your most preferred, not sure at all, slightly sure, moderately sure, very sure, or extremely sure? Please refer to Section 1 of the Economics Valuation Card and tell me the letter corresponding to your answer. Select one answer only.  
\_\_\_\_\_ (letter)

Hand respondent the card with Choice Set Number 3.

Please review the three options. Option A is the Status Quo and costs you Nothing, but all reef conditions are in a low condition. For Option B, some reef conditions are at a low level and some at the high level of condition and will cost your household \$\_\_ per year. For Option C, some reef conditions are at the low level and some are improved to the highest condition and this will cost your household \$\_\_ per year.  
\_\_\_\_\_

C13. Which option do you prefer? \_\_\_\_\_

C14. How many days would you use Puerto Rico's Coral Reefs under the reef conditions for the option you prefer? \_\_\_\_\_ (number of days per year)

C15. Please provide a brief comment that helps us understand why you chose the option as your most preferred option?

---

---

C16. How sure are you that the option you chose as your most preferred among the three options is your most preferred, not sure at all, slightly sure, moderately sure, very sure, or extremely sure? Please refer to Section 1 of the Economics Valuation Card and tell me the letter corresponding to your answer. Select one answer only. \_\_\_\_\_(letter)

Hand respondent the card with Choice Set Number 4.

Please review the three options. Option A is the Status Quo and costs you Nothing, but all reef conditions are in a low condition. For Option B, some reef conditions are at a low level and some at the medium level of condition and will cost your household \$\_\_ per year. For Option C, some reef conditions are at the medium level and some are the low condition and this will cost your household \$\_\_ per year.

C17. Which option do you prefer? \_\_\_\_\_

C18. How many days would you use Puerto Rico's Coral Reefs under the reef conditions for the option you prefer? \_\_\_\_\_ (number of days per year)

C19. Please provide a brief comment that helps us understand why you chose the option as your most preferred option?

---

---

C20. How sure are you that the option you chose as your most preferred among the three options is your most preferred, not sure at all, slightly sure, moderately sure, very sure, or extremely sure? Please refer to Section 1 of the Economics Valuation Card and tell me the letter corresponding to your answer. Select one answer only. \_\_\_\_\_(letter)

C21. Did you understand that the dollar amount for each alternative was the annual (yearly) cost to your household?

- a. Yes
- b. No

C22. There are different ways for people to pay for new programs to protect the environment. One way is for the government to pay the cost. This will raise everyone's taxes. The other way is for businesses to pay the

---

cost. This will make prices go up for everyone. Another way is for the government to create incentives for investment in environmental protection. Still another way is for businesses to pay the cost. This will make prices go up for everyone.

If you had to choose, would you prefer to pay for new environmental programs through higher taxes, the cost of incentives to businesses and households, or through higher prices? Please refer to Section 2 of the Economics Valuation Card and tell me the letter corresponding to your answer. Select one answer only.

\_\_\_ (letter)

C23. Who do you think should manage the additional funding obtained for reef management?

\_\_\_ The Federal government \_\_\_ the Territorial government \_\_\_ Non Government Organization like The Nature Conservancy or Protectores de Cuencas, a local organization \_\_\_ Other (Specify \_\_\_\_\_)

C24. Would you say you think of yourself as not an environmentalist at all, slightly an environmentalist, a moderate environmentalist, a strong environmentalist or a very strong environmentalist? Please refer to Section 2 of the Economics Valuation Card and tell me the letter corresponding to your answer. Select on answer only. \_\_\_ (letter)

**C25. We would like to learn more about how you reacted to the questions that asked you to choose between various options of reef conditions. Please refer to Section 4 of the Economics Valuation Card. As I read each statement tell me the letter corresponding to your answer.**

Check the box corresponding to the respondent's answer for each statement.

Statement	Strongly Disagree (a)	Somewhat Disagree (b)	Neither agree nor disagree (c)	Somewhat Agree (d)	Strongly Agree (e)
Costs should not be a factor when protecting the environment.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I found it difficult to select an option of reef conditions I preferred.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I was concerned that the Puerto Rico government cannot effectively Manage coral reefs.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I should not have to pay more to protect or restore coral reefs in Puerto Rico.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
The public's views as expressed in this survey should be important to the Puerto Rico government when it chooses how to manage coral reefs.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I understood the different alternatives presented in each choice question.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
The different reef attribute levels in each alternative were clear and I was able to distinguish the difference across the "Status Quo" and alternatives B and C in making my choice.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
The illustrations of coral reef conditions helped me distinguish the low, medium and high conditions for all reef attributes.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
The pictures of different levels of crowding helped me distinguish low, medium and high crowding conditions.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
The government should use incentives to businesses and households to pay for environmental protections instead of regulations that result in higher prices or taxes to businesses and households.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**C26. What condition are the reefs in that you personally visit or use?**

- a. Low
- b. Medium
- c. High

**C27. How certain are you that additional funding would achieve the goals of protecting the environment?**

**Please refer to Section 5 of the Economic Valuation Card and tell me the letter corresponding to your answer.**

**Select one answer only. \_\_\_ (letter)**

**C28. Please provide us any other comments you would like to make to help us understand your views about coral reefs in Puerto Rico and your responses to this survey.**

---

---

---

**Go to Part D: Demographics**

## Part D: Demographic Profile

In this final section, we need to know information about you and your household to make sure we have a representative sample of Puerto Rico residents.

Again, your privacy will be protected and any information identifying you or your household will not be revealed to anyone.

- D1. How many people in your household are permanent residents of Puerto Rico?**  
\_\_\_\_ number of people
- D2. How many of these household members are age 16 or older?** \_\_\_\_\_ number of people
- D3. Do you own a boat?** \_\_\_ Yes \_\_\_ No
- D4. How many years have you lived in Puerto Rico?** \_\_\_\_\_ number of years
- D5. In what year were you born?** \_\_\_\_\_ year
- D6. Are you Hispanic, Latino, or of Spanish origin?** \_\_\_ Yes \_\_\_ No

Hand Respondent Demographics Card.

- D7. What race do you consider yourself? Please refer to Section 1 of the Demographics Card and tell me the letter or letters that best describes you.** \_\_\_ \_\_\_ \_\_\_ (letters)
- D8. What is the highest level of education that you have completed? Please refer to Section 2 of the Demographics Card and tell me the letter corresponding to the category that best describes you.** \_\_\_ (letter)
- D9. What is your employment status? Please refer to Section 3 of the Demographics Card and tell me the letter corresponding to the category that best describes you.** \_\_\_ (letter)
- D10. What is your household income before taxes? Please refer to Section 4 of the Demographics Card and tell me the letter corresponding to the category that best describes you.** \_\_\_ (letter)

That concludes the survey today. We would like to know if you would fill out two mail back questionnaires. They ask about your expenditures while doing reef activities on your last trip and what things are important to you and how satisfied you are with them. These mail back questions are self-addressed to the University of Puerto Rico - Mayaguez and postage is paid.

- D11. Will you take these questionnaires, fill them out and mail them to us?** \_\_\_ Yes \_\_\_ No.

**THANK YOU that concludes our interview.**

