Visitor Surveys: List of Items

Airport Passenger Surveys

- 1. Tally Sheet
- 2. On-site Questionnaire (short form)
- 3. Reef Activities List (Blue Card)
- 4. Respondent Card (Green Card)
- 5. Full Activities List (White Card)
- 6. Region Maps (one overall showing all five regions and one for each of the five regions)
- 7. Satisfaction Mailback Questionnaire
- 8. Expenditure Mailback Questionnaire
- 9. Mailback Center GREEN PAGE with Postage Paid and Return Address (Side 1)
- 10. Mailback Center GREEN PAGE with instructions to respondent (Side 2)
- 11. Post Card Reminder for Mailbacks
- 12. Internet Panel Questionnaire: Pre-test Version
- 13. Internet Panel Questionnaire: Full Survey Version
- 14. Illustrations of Coral Reef Conditions (Low, Medium and High)
- 15. Photos for Introduction to Choice Questions
- 16. Photos for Crowding Issue in Choice Questions
- 17. Internet Panel Choice Question Dollar Amounts for each Version (pre-test dollar amounts)
- 18. Full Survey Choice Questions: 9 Versions

Items Needed:

1. Brochure for gifts in sweepstakes/lottery (still assembling gifts)

Tally Sheet Airport Survey

Hello, I am from the University of Puerto Rico and we are doing a survey on recreation-tourism in Puerto Rico. Those who complete the survey will be entered into a sweepstakes/lottery to win free vacation prizes. (Hand respondent gift brochure).

1.	Are you a permanent resident of Puerto	Rico?				
	☐ Yes Thank you. We are on (Place tic mark in colur	e are only interviewing nonresidents of Puerto Rico. k in column 4)				
	☐ No Are you ending your tri ☐ Yes ☐	p to the F] No	Puerto Rico today? Thank you. We are only interviewing people at the end of their trip to the Puerto Rico. (Place tic mark in column 5)			
	Did you do any recreation/touri activities on the coral reefs on to Puerto Rico? (show recreation/tourist activity Blue Card)		Thank you. We are only interviewing visitors that did recreation/tourist activities on coral reefs. (Place tic mark in column 6)			
] Yes				
	Will you participate in a short 5-10 minute interview about your visit					
] No	Thank you. (Place tic mark in column 7)			
] Yes	(Place tic mark in column 8)			

1	2	3	4	5	6	7	8
Site	Date	Time Period	Permanent Resident	Non Exit Visitor	Non Reef Using Recreating/ Tourist	Reef User Recreating Visitor Refusal or Language	Reef Using Recreating Visitor Interviewed

		Airport Survey		0 N I			
	Screening Criteria: 1) NOT a resident of Puerto Rico See Tally Sheet) 2) Visiting PR and did reef recreation/tourist activity						
Airpor	rt:						
		Month	Day	Time			
Numb	ber of People in Party:(#	of people)					
1.	(a) How many people in your pa	arty are ages 16 or older?	_ (# of People)				
	(b) How many people in your pa	arty are under 16?) (# of F	People)				
2.	Where is your primary residence	e?					
	City or Nearest City	County	State	Zip Code			
	Country: —						
	O _{U.S.A}	O Australia/Oceania	Oother	Europe			
	O Canada O Mexico	O Japan O Other Far East	O Middle O Africa	East			
	O Central Am./South Am.	Ounited Kingdom	Oother				
3.	On this trip to the Puerto Rico, of Including this trip, how many time the last 12 months, that is since	Nes have you visited Puerto Rico f		ay Time 'tourist reef activities in			
		Times					
5.	Including this trip, how many tourist reef activities in the last		Rico where you d	lid some recreation/			
		Days					
	If overnight visitor, hand respond	dent maps of Puerto Rico. If not	overnight visitor	, skip to next section.			
6.	Looking at the map, could you t	ell me how many nights you spe	nt on this trip to	Puerto Rico in			
	Region 1Region 2	Region 3 Reg # nights # nights	ion 4	Region 5			
	# nights	# nights # nights	# nights	# nights			
	Interviewer: Make sure if answe	r to Q.4. is greater than one, that	t answer to O 6	is not equal to 0.5			
l	interviewer. Make sure ii aliswe	Tio Q.4. is greater than one, that	t ariswer to Q.0.	is not equal to Q.S.			

Airport Survey

I would now like to ask you about some of the recreation/tourist activities in which you, or someone in your group, participated in during this trip to Puerto Rico. (Hand respondent White Card) Please refer to the white card.

- 7. In which of these activities did you or someone in your group participate?
- 8. As I read you each activity in which you said you or someone in your group participated, could you tell me in which areas of Puerto Rico you participated in the activity?

 For <activity> Region 1, Region 2, Region 3, Region 4, Region 5 (specify Vieques or Culebra)?
- 9. Now as I read each activity, could you tell me how many others in your group participated in the activity in each area of Puerto Rico?
 For <activity>, how many others participated in Region 1, Region 2, Region 3, Region 4, Region 5 (specify Vieques or Culebra)?

	Regio	on 1 #	Regi	on 2 #	Reg	ion 3	Regio	n 4 #	Reg	gion 5 #
Activity		Others		Others		Others		Others		Others
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	iii poi t	Survey
nd	respo	ndent Gre

10.	Hand respondent Green Card Please refer to Section 2 on your green card and tell me which reason best describes the primary purpose of your trip to the Puerto Rico. A Recreation or vacation C Business trip E Other (specify) B Visit family or friends D Business/pleasure
Finally,	for statistical purposes, we need to know a few things about yourself.
11.	In what year were you born? (Code last two digits)
12.	Sex male female
13.	Are you Spanish, Hispanic, or Latino?
13b.	Please refer to Section 3 on your green card and tell me the letter corresponding to the best description of your race.
	A White B Black or African American C American Indian or Alaska Native D Asian E Native Hawaiian or Pacific Islander
14.	Please refer to Section 4 on your green card and tell me which of the income categories best describes your annual household income last year before taxes. Please give the letter on the card that is the closest.
	③ ⑤ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥ ⑥ ○ refused ○ don't know
15.	Do you own a second home or time share in the Puerto Rico? Yes No
16.	On this trip, are you paying your own expenses, sharing expenses, or is someone else paying your expenses? O own expenses O shared expenses O someone else paying expenses With how many people are you sharing expenses? With how many people are you sharing expenses?

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Airport Survey

an Inter question services organize Panel, v e-mail a	uld like to collect some additional information on your visit to Puerto Rico during your trip. Would you join met Panel to answer some more questions about your trip? The information gained from these nnaires is very important to both managers of the coral reefs and business and governments providing is on your trip enjoyment. As an incentive for completing panel questions, a sweepstakes has been ed by the local business community. Hand brochure describing sweepstakes By completing the Internet we enter you in the sweepstakes each time you complete a module. No Yes Please provide your address and telephone number so the company doing the Internet Panel (Gfk Custom Research, LLC.) intact you.
E-mail:	Phone:
Remind	Your name and address and all personal information collected in the project are protected under the Privacy Act. After the survey is completed and the sweepstakes prizes awarded, all name and address information will be destroyed. No one will be allowed to use this information for contacting you about any promotions. This concludes our interview. Thank you for your time. In Appreciation for your participation, we would like to offer you this gift.
If no to	the Internet Panel, Would you complete some mailback questionnaires on your trip expenditures and your satisfaction ratings about your trip? If you return the completed questionnaires, you will be entered into the sweepstakes each time your complete a module.
19.	Will you complete these questionnaires? O Yes (Go to Satisfaction and Expenditure suggestions and questions 20 and 21) O No This concludes our interview. Thank you for your time. In appreciation for your participation we would like to offer you this gift.
	ction gest completing the satisfaction questionnaire on your way home while your thoughts about your trip to erto Rico are fresh.
Expend The exp	liture openditure survey should be completed after your trip is over and you have returned home.
	Interviewer: Code on-site survey number and location on mailback
	example of mailback questionnaire, where to start, the types of questions that are asked, and how to seal ail it back
20.	Please give us your name and address. In the event that we do not receive the take home questionnaire we will send you another. Satisfaction name and address
	Name:
	Address:
	City:State: Zip:

OMB Approval #: 0648-0000 Expiration Date:

Airport S	urvev
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	Airport Survey
21.	If someone other than yourself paid for all your expenses on this trip to Puerto Rico, we would like
	that person to answer the questionnaire. Will you please give us the name and address of that person?
	Expenditure name and address
	Name:
	Address:
	City: State: Zip:
	oncludes our interview. Thank you for your time. In appreciation for your participation, we would like to ou this gift.

REEF ACTIVITIES LIST

Number	Water-based Activities
	Snorkeling
100A	Snorkeling from charter/party boat (pay operation and includes snorkeling tours)
101A	Snorkeling from a rental boat
102A	Snorkeling from private boat (your boat or friend or relative's boat)
10A	Snorkeling from shore
	Scuba Diving
200A	Scuba diving from charter/party boat (pay operation)
201A	Scuba diving from a rental boat
202A	Scuba diving from a private boat (your boat or friend or relative's boat)
11A	Scuba diving from shore
	Special Activities while Snorkeling or Scuba Diving
300	Diving for lobsters
301	Underwater photography
303	Spear fishing
	Fishing – Inshore or Light Tackle Fishing
404A	Fishing from charter/party boat or guide (pay operation) – inshore or light tackle
405A	Fishing from rental boat – inshore or light tackle
406A	Fishing from a private boat (your boat or friend or relative's boat) – inshore or light tackle
407.4	Other Fishing
407A	Other fishing from party or head best (new energtion, above per normal)
408A 409A	Other fishing from party or head boat (pay operation, charge per person) Other fishing from a rental boat
409A 410A	
410A 14A	Other fishing from a private boat (your boat or friends or relative's boat)
14A	Fishing from shore (beach, bank, pier, bridge, jetty, dock)
500 A	Viewing Nature and Wildlife
500A	Glass bottom boat rides (pay operation)
501A	Inshore boating excursions (pay operation/guided service/NOT FISHING, including kayaking)
502A	Viewing nature and wildlife from private or rental boat
503	Bioluminescent Bays
504	Ocean kayaking
505	Whale watching
	Other Activities on the Reefs
13A	Surfing
15A	Swimming
18A	Paddle boarding, wind surfing or kite boarding

RESPONDENT CARD

CONFIDENTIALITY STATEMENT

Your participation in this interview is voluntary. There are no penalties for not answering some or all of the questions, but since each interviewed person will represent many others not interviewed, your cooperation is extremely important. This study is being conducted by the University of Puerto Rico – Mayaguez Puerto Rico Sea Grant, the National Oceanic and Atmospheric Administration and the U.S. Environmental Protection Agency. Uses of the information include the evaluation of present recreation uses and planning for future visitation. At the end of the study any materials identifying you as an individual will be destroyed.

This is a cooperative research project of the Puerto Rico Tourism Company the National Oceanic and Atmospheric Administration and the U.S. Environmental Protection Agency. Public reporting burden for this collection of information is estimated to average 4 minutes including time for reviewing instructions, searching existing data sources, gathering and maintaining the data need, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to U.S. Department of Commerce, Clearance Officer, Office of Chief Information Officer, Rm. 6625, 14th and Constitution Avenue NW, Washington, DC 20230. Notwithstanding any other provisions of the law, no person is required to respond to, nor shall any person be subject to penalty for failure to comply with, a collection of information subject to requirements of the Paperwork Reduction Act, unless that collection of information displays a currently valid OMB Control Number.

SECTION 1: Primary Purpose of Trip to Puerto Rico

- A Recreation or vacation
- **B** Visit family or friends
- C Business trip
- D Business and pleasure
- E Other (specify)

SECTION 2: Race

- A White
- **B** Black or African American
- C American Indian or Alaska Native
- D Asian
- E Native Hawaiian or Other Pacific Islander

SECTION 3: HOUSEHOLD INCOME CATEGORIES (Annual Income before taxes)

A	Less than \$5,000	G	\$30,000 to \$39,999	O	\$150,000 or more
I	\$40,000 to \$44,999	H	\$35,000 to \$39,999		
В	\$5,000 to \$9,999	${f J}$	\$45,000 to \$49,999		
\mathbf{C}	\$10,000 to \$14,999	K	\$50,000 to \$59,999		
D	\$15,000 to \$19,999	${f L}$	\$60,000 to \$74,999		
\mathbf{E}	\$20,000 to \$24,999	\mathbf{M}	\$75,000 to \$99,999		
\mathbf{F}	\$25,000 to \$29,999	\mathbf{N}	\$100,000 to \$149,999)	

ACTIVITIES LIST

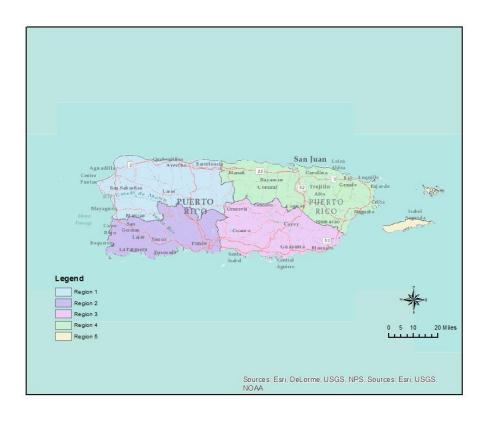
<u>Number</u>	Water-based Activities
	Snorkeling
100A	Snorkeling from charter/party boat (pay operation and includes snorkeling tours)
101A	Snorkeling from a rental boat
102A	Snorkeling from private boat (your boat or friend or relative's boat)
10A	Snorkeling from shore
	Scuba Diving
200A	Scuba diving from charter/party boat (pay operation)
201A	Scuba diving from a rental boat
202A	Scuba diving from a private boat (your boat or friend or relative's boat)
11A	Scuba diving from shore
	Special Activities while Snorkeling or Scuba Diving
300	Diving for lobsters
301	Underwater photography
302	Wreck diving or other artificial reefs
303 304	Spear fishing Cave diving
305	Diving to capture ornamental fish for aquariums (not to sell)
400 A	Fishing – Offshore
400A 402A	Fishing from charter boat (pay operation, usually six persons or less) - offshore Fishing from a rental boat – off shore
402A 403A	Fishing from a private boat (your boat or friend or relative's boat) – offshore
10311	Tishing from a private boat (Joan boat of front of following boat)
	Fishing – Inshore or Light Tackle Fishing
404A	Fishing from charter/party boat or guide (pay operation) – inshore or light tackle
405A 406A	Fishing from rental boat – inshore or light tackle Fishing from a private boat (your boat or friend or relative's boat) – inshore or light tackle
400A	risining from a private boat (your boat of mend of relative's boat) – hishore of right tackle
	Other Fishing
407A	Other fishing from charter boat (pay operation, usually six persons or less)
408A	Other fishing from party or head boat (pay operation, charge per person)
409A	Other fishing from a rental boat
410A 14A	Other fishing from a private boat (your boat or friends or relative's boat) Fishing from shore (beach, bank, pier, bridge, jetty, dock)
411	Freshwater fishing
~ 00.	Viewing Nature and Wildlife
500A	Glass bottom boat rides (pay operation)
501A 502A	Inshore boating excursions (pay operation/guided service/NOT FISHING, including kayaking) Viewing nature and wildlife from private or rental boat
502A 503	Bioluminescent Bays
504	Ocean kayaking
505	Whale watching
506	Manatee watching
	Personal Watercraft (jet skis, wave runners, etc.)
600A	Personal watercraft – rental
601A	Personal watercraft – Private (your boat or friend or relative's watercraft)
	Calling
700A	Sailing Sailing charter/party boat (pay operation)
700A 701A	Sailing rental boat
701A 702A	Sailing private boat (your boat or friend or relative's boat)

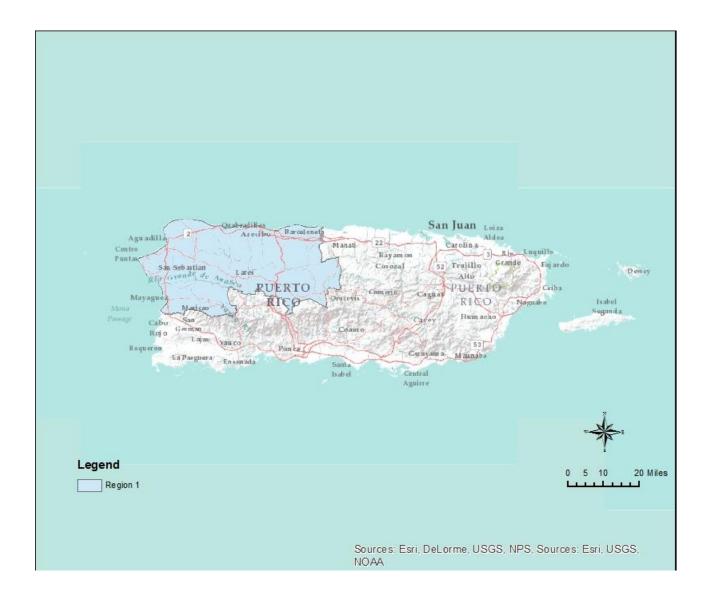
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Number	Other Water-Based Activities
Beach Act	tivities – Sunbathing
12A	Sunbathing
13A	Surfing
14	Collecting shells and sea glass
15A	Swimming
18A	Paddle boarding, wind surfing, or kite boarding
	ivities NOT MENTIONED ABOVE (parasailing, hang gliding, water-skiing, sunset cruises)
800A	Other activities from a charter/party boat (pay operation)
801A	Other activities from a rental boat
802A	Other activities from a private boat (your boat or friend or relative's boat)
Number	Land-Based Activities
	Nature Study – Wildlife Observation – Photography
19A	Wildlife observation or wildlife photography
20A	Other nature study and observation
21	Photography – Natural landscapes/scenery (not including wildlife)
	Camping – Backpacking – Hiking – Picnicking
22	Backpacking
23	Camping in developed campgrounds
24	Camping in primitive campgrounds
25	Day Hiking To The Transfer of
26	Attending guided walk (by park rangers, private companies or non-government organizations)
27	Self-guided nature or historic trail
28	Picnicking
	Cultural, Historic and Tourist Attractions
29A	Visiting historic areas, sites, buildings or memorials
30	Attending special events (fairs, festivals, ceremonies, etc.)
31	Attending outdoor concerts, plays, or other outdoor performances
32	Attending indoor concerts, plays, performances, or events
33	Sight-seeing tours and tourist attractions (paid)
34	Sight-seeing (not paid tours)
35	Reading roadside exhibits or markers
36A	Visiting a museum, education facility, or information center
37	Attending outdoor sports events (sailing or boat races; spectator at fishing tournament, surfing or other competitions like baseball, horse racing, or cock fighting)
38	Attending indoor sporting events (basketball, boxing or other indoor sporting events)
39	Agricultural tourism (visiting coffee plantations, farms, wineries)
40	Visiting Forest and Nature Reserves (El Yunque, Guánica Dry Forest, Mona Island Nature Reserve)
41	Visiting caves (Rio Camuy Cave Park or other caves)
42	Visiting Special Coral Reef Areas (Guánica, Cabo Rojo, Northeastern Reserves, Culebra)
	Outdoor Sports
43	Golf
44	Tennis
45	Zip Lining
46	Mountain climbing, rock climbing or rappelling
47	Participation in other outdoor sports and games
	Bicycling – Horseback Riding – Driving for Pleasure
48	Bicycling Bicycling
49	Horseback riding
50	Driving for Pleasure (mopeds, motorcycles)
20	Other
51	Attended Wedding

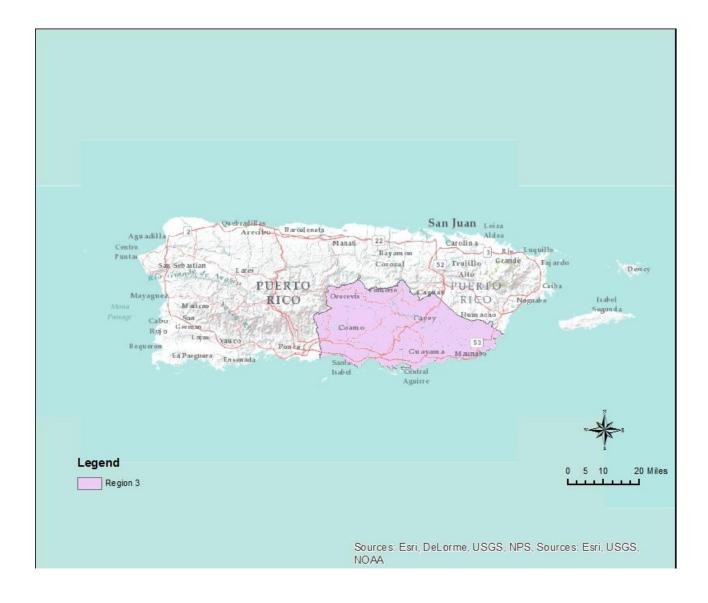
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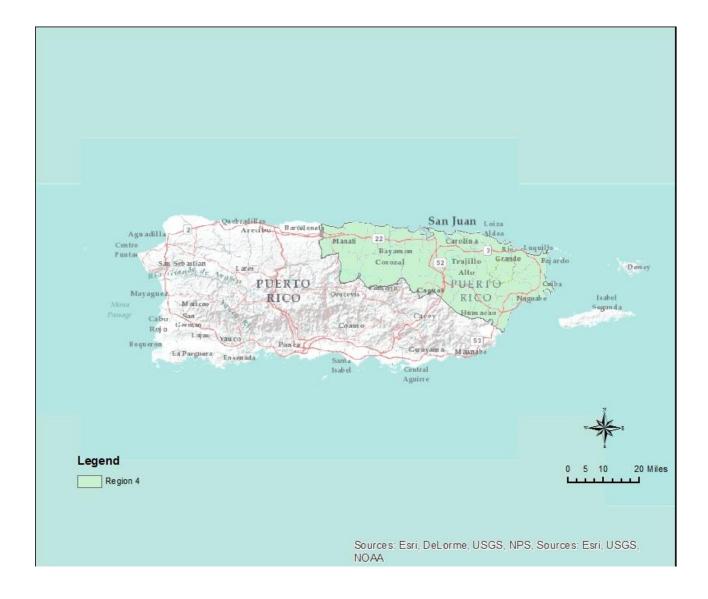
Visited Casino

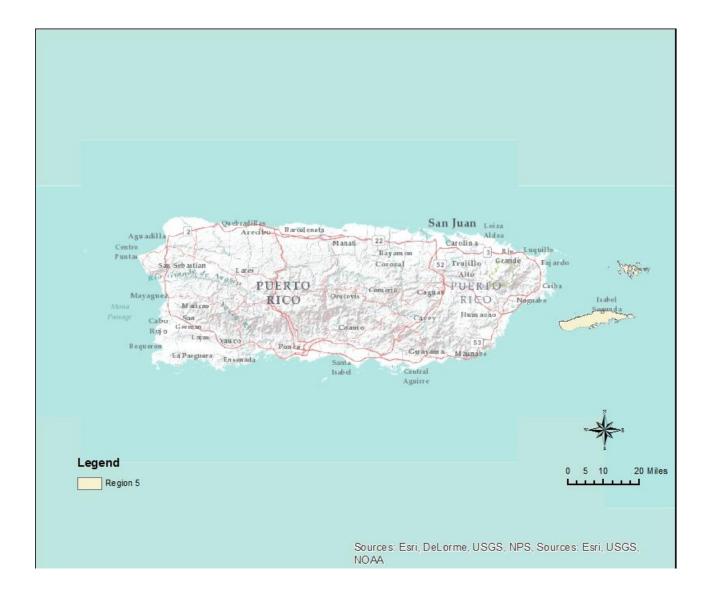












OMB Appr	oval	#:
Expiration	Date	9:

THANK YOU!

for participating in this Recreation Survey

Dear Visitor,

During your recent trip to Puerto Rico you indicated that you would be willing to complete this questionnaire. It is self-explanatory and should not take long to complete. <u>Please</u> record your answers accurately and legibly. Your answers represent many other people <u>not included</u> in this survey effort so it is <u>very important</u> that you return your questionnaire.

Your answers are voluntary and confidential. Your name will <u>never</u> 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.

When you complete the questionnaire, please reverse-fold it so that our return address on the GREEN PAGE in the inside is folded to the outside. Please staple or tape to seal the questionnaire and mail it back to us. No postage is needed. Your cooperation in this effort is greatly appreciated.

Sincerely,

Dr. Miguel del Pozo (Project Lead) University of Puerto Rico - Mayaguez Campus Telephone: (787) 941-3559 Miguel.delpozo@gmail.com

Dr. Ruperto Chaparro (Project Co-lead)
Puerto Rico Sea Grant Program
Extension Leader
University of Puerto Rico
P.O. Box 5000
Mayaguez, PR 00681
Telephone: (787) 832-8045

Telephone: (787) 832-8045 Ruperto.chaparro@upr.edu

Please note: It is very important that the same person who participated in the on-site interview also complete this questionnaire.

In this section we are interested in identifying the recreation site information that is important to you, the visitor.

IMPORTANCE (in the ideal recreational setting for activities)

la	Please read each statement and rate the importance of each
	item as it contributes to an ideal recreation/tourism setting for the
	activities you did in Puerto Rico. If an item does not apply, indicate by
	circling n/a (not applicable). Likewise, if you don't know, circle (dk).

	circling n/a (not applicable). Likewise, if you don't know, circle (dk).	JO! AR	Dou't A	TON POLY	inportan	suhat.	ortanit	H Extremel	E,
1)	Clear water (high visibility)	n/a	dk	1	2	3	4	5	
•	Clear water (high visibility)		dk	1	2	3	4	5	
2) 3)	Amount of living corals on the reefs		dk	1	2	3	4	5	
4)	Many different kinds of fishes and sea life to view	n/a	dk	1	2	3	4	5	
•	· · · · · · · · · · · · · · · · · · ·	n/a	dk	1	2	3	4	5	
5) 6)	Many different kinds of fishes and sea life to catch	n/a	dk	1	2	3	4	5	
•	Control of invasive species (lionfish)	n/a	dk	1	2	3	4	5	
7)			dk	1	2	3	4	_	
8) 9)	Artificial reefs (sunken ships, reef balls, piers)	n/a n/a	dk	1	2	3	4	5	
10)	Marina facilities, boat ramps/launching facilities		dk	1	2	3	4	5	
11)	Mooring buoys and navigational markers	n/a	dk	1	2	3	4	5	
12)	Value of lodging (cost vs amenities: clean rooms & linens, working ac, hot showers)	n/a	dk	1	2	3	4	5	
13)	Resorts with focus on Ecotourism/green initiatives: low energy use, recycling	n/a	dk	1	2	3	4	5	
•	The state of the s	n/a	dk	1	2	3	4	5 5	
14) 15)	Availability of public restrooms		dk	1	2	3	4	5 5	
,			dk	1	2	3	4	5	
16)	Well-maintained roads and bridges			1		_		5	
17)	Public transportation		dk	1	2	3	4	5	
18)	Parking	n/a	dk	1		ა 3	4 4	5	
19)	Historic preservation (historic landmarks, houses, etc.)		dk	1	2	_		5	
20)	Educational posters, signs, brochures		dk	1	2	3	4	5	
21)	Availability of tour guides		dk	1	2	3	4	5	
22)	Availability of lifeguards for beach safety		dk 	1	2	3	4	5	
23)	Customer service and friendliness of people	n/a	dk 	1	2	3	4	5	
24)	Public safety (areas with low crime rates)		dk	1	2	3	4	5	
25)	Good maps and signage for road navigation	n/a	dk	1	2	3	4	5	

lb.	On the previous page you indicated the importance of a list of items to your recreational/tourist experiences. Now please read each of the items on this list and rate how satisfied you were with each at the places you did your activities in Puerto Rico. If an item does not apply, indicate by circling n/a (not applicable).	SATISFACTION (with each of these items where you did activities in Puerto Rico) Rot Applicable Port Roticable To port Roticable Inhappy Inhap			, G),				
	Likewise, if you don't know, circle (dk).		Hotas	by.	Kerri	iple Ju	ugbby.	edHapp	y Salishted Delighted
1)	Clear water (high visibility)		n/a	dk	1	2	3	4	5
2)	Clean water healthy for swimming and other water-based activities		11/a	dk	1	_	3	4	5
3)	Amount of living corals on the reefs		n/a	dk	1	2	3	4	5
4)	Many different kinds of fishes and sea life to view		n/a	dk	1	2	3	4	5
5)	Many different kinds of fishes and sea life to catch			dk	1	2	3	4	5
6)	Control of invasive species (lionfish)		n/a	dk	1	2	3	4	5
7)	Enforcement of environmental laws and regulations		n/a	dk	1	2	3	4	5
8)	Artificial reefs (sunken ships, reef balls, piers)		n/a	dk	1	2	3	4	5
9)	Easy, abundant and quality beach and shoreline access			dk	1	2	3	4	5
10)	Marina facilities, boat ramps/launching facilities			dk	1	2	3	4	5
11)	Mooring buoys and navigational markers			dk	1	2	3	4	5
12)	Value of lodging (cost vs amenities: clean rooms & linens, working ac, hot shower)			dk	1	2	3	4	5
13)	Resorts with focus on Ecotourism/green initiatives: low energy use, recycling			dk	1	2	3	4	5
14)	Availability of public restrooms		n/a	dk	1	2	3	4	5
15)	Cleanliness of streets and sidewalks		n/a	dk	1	2	3	4	5
16)	Well-maintained roads and bridges		n/a	dk	1	2	3	4	5
17)	Public transportation		n/a	dk	1	2	3	4	5
18)	Parking			dk	1	2	3	4	5
19)	Historic preservation (historic landmarks, houses, etc.)		n/a	dk	1	2	3	4	5
20)	Educational posters, signs, brochures			dk	1	2	3	4	5
21)	Availability of tour guides		n/a	dk	1	2	3	4	5
22)	Availability of lifeguards for beach safety		n/a	dk	1	2	3	4	5
23)	Customer service and friendliness of people			dk	1	2	3	4	5
24)	Public safety (areas with low crime rates)		n/a	dk	1	2	3	4	5
25)	Good maps and signage for road navigation		n/a	dk	1	2	3	4	5

SATISEACTION

		SATISFACTION
lc.	Had you visited Puerto Rico more than five years ago?	(with each of these items five
	☐ If "yes" answer question Id.	<u>years ago</u> in Puerto Rico)
	☐ If "no" skip to question IIa on page 4.	

ld.	Now please read each of the items on this list and rate how
	satisfied you were with each five years ago or more in
	Puerto Rico. If an item does not apply, indicate by circling n/a
	(not applicable). Likewise, if you don't know, circle (dk).

	(not applicable). Likewise, if you don't know, circle (dk).	40t AQR	icable Don't A	John Letil	Je Je	appyllise	Hap	Neglished Delighted
1)	Clear water (high visibility)	n/a	dk	1	2	3	4	5
2)	Clean water healthy for swimming and other water-based activities		dk	1	2	3	4	5
3)	Amount of living corals on the reefs	n/a	dk	1	2	3	4	5
4)	Many different kinds of fishes and sea life to view	n/a	dk	1	2	3	4	5
5)	Many different kinds of fishes and sea life to catch	n/a	dk	1	2	3	4	5
6)	Control of invasive species (lionfish)	n/a	dk	1	2	3	4	5
7)	Enforcement of environmental laws and regulations	n/a	dk	1	2	3	4	5
8)	Artificial reefs (sunken ships, reef balls, piers)		dk	1	2	3	4	5
9)	Easy, abundant and quality beach and shoreline access		dk	1	2	3	4	5
10)	Marina facilities, boat ramps/launching facilities		dk	1	2	3	4	5
11)	Mooring buoys and navigational markers		dk	1	2	3	4	5
12)	Value of lodging (cost vs amenities: clean rooms & linens, working ac, hot shower)		dk	1	2	3	4	5
13)	Resorts with focus on Ecotourism/green initiatives: low energy use, recycling		dk	1	2	3	4	5
14)	Availability of public restrooms		dk	1	2	3	4	5
15)	Cleanliness of streets and sidewalks		dk	1	2	3	4	5
16)	Well-maintained roads and bridges		dk	1	2	3	4	5
17)	Public transportation	n/a	dk	1	2	3	4	5
18)	Parking		dk	1	2	3	4	5
19)	Historic preservation (historic landmarks, houses, etc.)	n/a	dk	1	2	3	4	5
20)	Educational posters, signs, brochures		dk	1	2	3	4	5
21)	Availability of tour guides	n/a	dk	1	2	3	4	5
22)	Availability of lifeguards for beach safety		dk	1	2	3	4	5
23)	Customer service and friendliness of people		dk	1	2	3	4	5
24)	Public safety (areas with low crime rates)		dk	1	2	3	4	5
25)	Good maps and signage for road navigation	n/a	dk	1	2	3	4	5

20:

IIa. Now please read each of the items on the list below and rate **your** expectations for each of the following in Puerto Rico. If an item does not apply, indicate by circling not applicable (n/a). Likewise, if you don't know, circle (dk).

EXPECTATION (with each of these items in Puerto Rico)

	(n/a). Likewise, if you don't know, circle (dk).						20.	tatio, or estative
			νe	, 4	6	× 1	3/110 10	secr Hallo Hose
		40t A	policable Oori	TUOM	ot expe	to	ation and	estation and estation
		, P ²	36. "	', ×	10° 18	18	χ ^{'ο'} , _' ο'	160 M/81.
		405	00	Oilo	2/1	No	131	2 76,
1)	Marina facilities	n/a	dk	1	2	3	4	5
2)	Availability of public restrooms	n/a	dk	1	2	3	4	5
3)	Public transportation	n/a	dk	1	2	3	4	5
4)	Parking		dk	1	2	3	4	5
5)	Cleanliness of streets and sidewalks	n/a	dk	1	2	3	4	5
6)	Boat ramps/launching facilities	n/a	dk	1	2	3	4	5
7)	Well-maintained roads and bridges	n/a	dk	1	2	3	4	5
8)	Value of lodging (cost vs amenities: clean rooms & linens, working ac, hot showers)	n/a	dk	1	2	3	4	5
9)	Mooring buoys and navigational aids	n/a	dk	1	2	3	4	5
10)	Good maps and signage for road navigation	n/a	dk	1	2	3	4	5
11)	Resorts with focus on Ecotourism/green initiatives: low energy use, recycling	n/a	dk	1	2	3	4	5
12)	Educational posters, signs, brochures		dk	1	2	3	4	5
13)	Availability of lifeguards for beach safety	n/a	dk	1	2	3	4	5
14)	Easy, abundant, and quality beach & shoreline access	n/a	dk	1	2	3	4	5
15)	Enforcement of environmental laws & regulations	n/a	dk	1	2	3	4	5
16)	Public safety (area has low crime rates)	n/a	dk	1	2	3	4	5
17)	Customer service and friendliness of people	n/a	dk	1	2	3	4	5
18)	Availability of tour guides	n/a	dk	1	2	3	4	5
19)	Historic preservation (historic landmarks, houses, etc.)	n/a	dk	1	2	3	4	5
20)	Artificial reefs (sunken ships, reef balls)	n/a	dk	1	2	3	4	5
21)	Quality restaurants	n/a	dk	1	2	3	4	5
22)	Clear water (high visibility)	n/a	dk	1	2	3	4	5
23)	Clean water healthy for swimming and other water-based activities	n/a	dk	1	2	3	4	5
24)	Amount of living corals on the reefs	n/a	dk	1	2	3	4	5
25)	Many kinds of fish and sealife to view	n/a	dk	1	2	3	4	5

IIb. Now please read each of the items on the list below and rate how they met your expectations for each of the following in If an item does not apply, indicate by circling not applicable (n/a). Likewise, if you don't know, circle (dk).

Completely did not meet expectation **ACCOMPLISHMENT** (with each of these items in Puerto Rico)

Sildtill exceded expectation Doutkon 2 3 4 5 1) dk 3 4 5 2) dk 2 3 5 3) 4 5 3 4) dk 3 5 5) dk 4 2 3 5 6) Boat ramps/launching facilities.....n/a dk 3 5 Well-maintained roads and bridges......n/a 4 7) 3 5 8) dk 3 5 9) dk 3 5 4 10) dk Resorts with focus on Ecotourism/green initiatives: low energy use, recycling n/a 3 5 11) dk Educational posters, signs, brochures......n/a 3 4 5 12) 3 4 5 13) dk 3 5 14) dk 3 4 5 dk 15) 3 5 4 16) 3 17) 4 5 dk 3 5 4 18) dk 2 3 5 19) 3 5 20) 4 3 21) 4 5 3 5 22) dk 23) 3 5 4 2 3 5 24) dk 4 2 3 4 5 25)

In this to ask	section we have a few special issues questions we would like you.		6
IIIa.	Do you own a boat in Puerto Rico? ☐ Yes (Continue) ☐ No (Go to Question IIId)		How likely is it that you will recommend Puerto Rico to a friend or family member for their next vacation? (Circle the appropriate answer)
IIIb.	What is the length of your boat? (Feet) Do you trailer your boat or do you store it at a dock or marina? ☐ Trailer		(Circle the appropriate answer) Oorit know Somewhat I kely Very Vill Recommend dk 1 2 3 4 5
IIId.	☐ Store at a dock or marina Do you own or rent a vacation home on the coast with access to the water? ☐ Yes ☐ No	IVb.	How likely is it that you will return to Puerto Rico for a visit? (Circle the appropriate answer) **Dor't Knor Return Somewhat I Kelly Very Likely Very Will Return to Puerto Rico for a visit? **Dor't Knor Return Somewhat I Kelly Very Will Return to Puerto Rico for a visit? **Dor't Knor Return to Puerto Rico for a visit. **Dor't Knor Return to Puerto Rico for a visit. **Dor't Knor Return to Puerto Rico for a visit. **Dor't Knor Return to Puerto Rico for a visit. **Dor't Knor Return to Puerto Rico for a visit. **Dor't Knor Return to Puerto Rico for a visit. **Dor't Knor Return to Puerto Rico for a visit. **Dor't Knor Return to Puerto Rico for a visit. **Dor't Knor Return to Puerto Rico for a visit. **Dor't Knor Return to Puerto Rico for a visit. **Dor't Knor Return to Puerto Rico for a visit. **Dor't Rico for a visit. **
IIIe.	How important were Puerto Rico's beaches to your decision to visit Puerto Rico? Not important important perturbatant pert	IVc.	<pre></pre> <pre><pre><pr< td=""></pr<></pre></pre>
IIIf.	Was this trip your first visit to Puerto Rico for recreation activities? ☐ Yes (Go to Question IVa) ☐ No (Continue)		☐ 6 to 12 months ☐ Greater than one year
IIIg.	How many years have you been coming to Puerto Rico for recreation activities?		

_ (Years)

Va.	On your <u>first visit</u> visit on a cruise s	<u>ever</u> to Puerto Rico, was your hip stopover?	VIa.	dev	nds like Puerto Rico face competing demands for elopment. When choosing a destination for your ation and/or recreation activities what is your preference?			
	☐ Yes	☐ No (Skip to Section VI)			eck one answer only)			
Vb.		experience in Puerto Rico result in you Rico as a destination for a non cruise ship			Low development, small town atmosphere along the coast			
	☐ Yes	□ No			Dense development, large town with high-rise hotels and casinos, many restaurant and shopping opportunities			
Vc.		hip visit was your first visit, did your you to think about planning a future non o Puerto Rico?			Mix of low development and dense development places			
	_ ,,				No preference			
	☐ Yes	□ No	VIb.	Some people may be okay with staying in dense de areas, but when doing certain recreation activities libeaches, fishing, SCUBA diving, snorkeling, boating surfing, wind surfing, paddle boarding, viewing wildle photography and hiking trails prefer to have views unobstructed by development (e.g. big hotels, offshand gas platforms, wind turbines etc.).				
					v important to you is it to have areas with natural views tected? (Check one answer only)			
					Not important			
					Somewhat important			
					Important			
					Very important			
					Extremely important			

VII. In this section, we want to ask you about several issues of importance to managing Puerto Rico's natural resources that support recreation activities, or protect the resources by preservation methods

	For the following statements, please indicate if you 1 = strongly dis 2 = disagree, 3 = neutral, 4 = agree, 5 = strongly agree, or dk = do (Please circle one number for each statement)	•	u Diss	age ^e		standly Agree
			Strongly (Disagris Wentral	rdee	Strongl'
1)	I support the creation of marine protected areas that allow activities as long as the activities don't harm the resource		1 2	2 3	4	5
2)	I support the creation of marine reserves that prohibit all activities that take things, like fishing and ornamental trade for aquariums		1 2	2 3	4	5
3)	I support the creation of research only areas that only allow scientific and educational activities		1 2	2 3	4	5
4)	I support increased protection of threatened and endangered species like turtles and elk and staghorn corals		1 2	2 3	4	5
5)	5) I support increased enforcement of environmental laws and regulations		1 2	2 3	4	5
6)	I support increased education and outreach for violators of environmental laws and regulations		1 2	2 3	4	5
7)	I support a mixed approach to using education and outreach and enforcement on violators of environmental laws and regulations		1 2	2 3	4	5

OMB Approval #: Expiration Date:

That's All!! If you would like to be entered into a sweepstakes to win a free Vacation to Puerto Rico, fill out your name, address and phone number below. All prizes will be awarded TBD.

Name:				
City: _				
State:_		_Zip:	Phone:	
* TBD * TBD * TBD * TBD * TBD * TBD	o be awarded are GRAND PRIZE	:		
* TBD * TBD * TBD	<u>FIRST PRIZE</u>			
* TBD * TBD * TBD	SECOND PRIZE	Ē		

This is a cooperative research project of the University of Puerto Rico-Mayaguez, Puerto Rico Sea Grant, the U.S. Environmental Protection Agency and the National Oceanic and Atmospheric Administration. Public reporting burden for this collection of information is estimated to average 10 minutes including time for reviewing instructions, searching existing data sources, gathering and maintaining the data need, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to U.S. Department of Commerce, Clearance Officer, Office of Chief Information Officer, Rm. 6625, 14th and Constitution Avenue NW, Washington, DC 20230.

Your participation in this recreation expenditure survey is

GREATLY APPRECIATED

Dear Visitor,

During your recent trip to Puerto Rico you indicated that you would be willing to complete this questionnaire. It is self-explanatory and should not take long to complete. Please record your answers accurately and legibly. Your answers represent many other people not included in this survey effort so it is very important that you return your questionnaire.

Your answers are voluntary and confidential. Your name will <u>never</u> 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.

Before you mail back the questionnaire, please reverse-fold it so that our return address is on the outside. Please staple or tape to seal the questionnaire and mail it back to us. No postage is needed. Your cooperation in this effort is greatly appreciated.

Sincerely,

Dr. Miguel del Pozo (Project Lead) University of Puerto Rico - Mayaguez Campus Telephone: (787) 941-3559 Miguel.delpozo@gmail.com

Dr. Ruperto Chaparro (Project Co-lead)
Puerto Rico Sea Grant Program
Extension Leader
University of Puerto Rico
P.O. Box 5000
Mayaguez, PR 00681
Telephone: (787) 832-8045

Telephone: (787) 832-8045 Ruperto.chaparro@upr.edu

Please note: It is very important that the same person who participated in the on-site interview also complete this questionnaire.

PART A: YOUR EXPENDITURES FOR THIS TRIP

We would like to ask you about the expenses related to your recent trip to Puerto Rico.	Please complete one
of the questions below, indicating for how many people you paid expenses.	

If you <u>paid your own expenses</u> or if you shared expenses with someone else, please check this box On the following pages, report <u>only</u> those trip expenses you personally paid for.	
2) If you were paying all the <u>expenses for yourself and for one or more others</u> , please check this box and record in the box below the number of persons you paid expenses for, <u>including yourself</u> . Report the total amount of expenses you paid for on the following pages.	
Number of people you were paying expenses for, <u>including yourself</u>	

Please report your expenditures for each of the items listed to the nearest whole dollar. In Column A, put the total amount of money you spent on that item, regardless of where you were when you spent it. In Column B, report only the amount you spent while you were in Puerto Rico.

EXAMPLE: Joe and Jane Smith purchased round-trip tickets to Puerto Rico online at \$400 each, or a total of \$800. Their total amount spent for the trip was \$800 (Column A). The amount spent in

Puerto Rico was \$0 (Column B).

Item	Column A: Total amount spent for this trip	Column B: Of the amount in column A, how much did you spend in Puerto Rico?
TRANSPORTATION Airline Fare a) Package tour b) Any other airline fare	800	0

Item	Column A: Total amount spent for this trip	Column B: Of the amount in Column A, how much did you spend in Puerto Rico?
LODGING, PRIVATELY OWNED (non-government)		
Hotel/motel/bed & breakfast, etc.		
Rental home, cottage, cabin, condo		
Camping site (RV/tent/camper)		
LODGING, PUBLICLY OWNED (government)		
Hotel/motel/bed & breakfast/cabin, etc.		
Camping site (RV/tent/camper)		
FOOD & BEVERAGES		
Food and drinks consumed at restaurants and bars	-	
Drinks consumed at bars and clubs during non-meal times (nighttime recreation)		
Beverages purchased at a store for carry-out	<u> </u>	
Food purchased at a store for carry-out		
TRANSPORTATION		
Rental automobile, motor home, trailer, motorcycle or other recreation vehicle		
Gas & oil - auto/RV		
Repair & service - auto/RV		
Parking fees & tolls		
Taxi fare		
Ferry		
Train		
Bus fare		
a) Package tour		
b) Any other bus fare		
Airline fare		
a) Package tour		
b) Any other airline fare		

Item	Column A:	Column B:
itom	Total amount	Of the amount
	spent for this trip	in Column A,
		how much did you spend in
		Puerto Rico?
BOATING		
Boat, jet ski, and wave runner rental		
Boat fuel and oil		
Boat repairs		
Boat launch fees		
Boat slip fees or marina fees (this trip only)		
Sailing charters or sunset cruises		
FISHING		
Cut bait		
Live bait		
Daily or special fishing permits		
Fishing lines, fly lines, fish nets, and minnow traps		
Charter/party boat, guide service		
SCUBA DIVING/SNORKELING		
Rental fee for equipment		
Charter/party boat, guide service		
SIGHTSEEING		
Sightseeing tours		
Glass bottom boat rides		
Excursions, kayak tours		
Park entrance fees		
Admission to tourist, amusement, festivals and other commercial attractions		
Food and drinks on sightseeing tours		

Item	Column A: Total amount spent for this trip	Column B: Of the amount in Column A, how much did you spend in Puerto Rico?
OTHER ACTIVITY EXPENDITURES		
Rental fee for recreation equipment (surfboards, golf carts or others not listed above)		
Guide service, tour, or outfitters (not listed above, like parasailing)		
Admission to motion pictures, theaters, museums, etc.		
Admission to musical performances, concerts		l ————————————————————————————————————
Spa treatments		
Fitness activities (gym fees, fitness classes/instruction)		
MISCELLANEOUS EXPENDITURES		
Film Purchases		
Film Developing		
Footwear		
Clothing		l ———
Souvenirs and gifts (not clothing)		
Barber, laundry and other personal services		
Telephone, copying, fax and other business		
services		
Physician, dentist, and other medical services		

PART B: ANNUAL VACATION AND EQUIPMENT PURCHASES

This section asks about money people spent on recreational equipment, boat storage, time-share and condo fees and related purchases over the past 12 months. For each of the items listed, indicate in Column A the total amount of money you spent on that equipment in the past 12 months. In Column B, report the total amount of purchases you made <u>just</u> in the county where you live. In Column C, report the total amount of purchases you made in Puerto Rico.

First, please answer these questions regarding your boating recreation.	

\rightarrow	During the past 12 months, how many times did you take a trip away from home for a boating-related
	activity (sailing, waterskiing, canoeing, fishing from a boat, motor boating, SCUBA diving, jet skiing,
	etc.)?

Of these trips, how many were to some place outside Puerto Rico?	
--	--

Example:

Joe and Jane Smith purchased a boat for \$17,000 from a dealer at their home in New York last summer. They also purchased a jet ski for \$12,000 from a dealer in Puerto Rico. Here is how they would report these expenditures.

Item	Column A: Total Purchases in Past 12 Months	Column B: Purchases in Your Home County	Column C: Purchases in Puerto Rico
BOATING EQUIPMENT New motorized boats or jet skis	29,000	17,000	12,000

Item	Column A: Total Purchases in Past 12 Months	Column B: Purchases in Your Home County	Column C: Purchases in Puerto Rico
MAJOR RECREATIONAL EQUIPMENT			
Diving or snorkeling equipment			
Fishing rods and reels			
Cameras and other photo gear			
Binoculars and other viewing equipment			
Miscellaneous (boats, guns, surfboard, vehicles, any other major equipment), specify			
BOATING EQUIPMENT			
New motorized boats or jet skis			
New nonmotorized boats (sailboats, row boats, canoes, kayaks, etc.)			
New boat engines			
New boat accessories			
New sails or rigging			
New boat trailer			
Boat storage and marina fees			
Other boating expenses Describe:			
ANNUAL LODGING-RELATED FEES			
Condo and time-share fees			
RV or trailer park fees			

OMB Approval #: Expiration Date:

Number:				
That's All!! If you would like to be entered into a sweepstakes to win a free Vacation to Puerto Rico, fill out your name, address and phone number below. All prizes will be awarded in TBD.				
Name:				
Addres	s:			
City:				
State:_	Zip:Phone:			
* TBD * TBD * TBD * TBD * TBD * TBD	o be awarded are: GRAND PRIZE			
* TBD TBD * TBD	<u>FIRST PRIZE</u>			
* TBD * TBD * TBD	SECOND PRIZE			

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	NO POSTAGE NECESSARY IF MAILED IN THE
	UNITED STATES
L	UNITED STATES
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_	

BUSINESS REPLY MAIL

FIRST CLASS MAIL PERMIT NO. X MAYAGUEZ, PR

Dr. Miguel del Pozo Sea Grant College Program UPR-RUM Call Box 9000 Mayaguez, PR 00681-9000

Please begin this questionnaire on Page 1

If you have already mailed us a questionnaire, thank you for your cooperation. You do not need to send us a second questionnaire.

Please turn page for more questions.

NO POSTAGE
NECESSARY
IF MAILED
IN THE
UNITED
STATES

Respondent's Name Respondents' Street Address Respondents's City, State/Territory/Country, Zip Code (US) You completed a survey at the airport in Puerto Rico on a recent trip. We handed you two mailback questionnaires.

If you have already mailed us the questionnaires, thank you for your cooperation. You do not need to send us a second questionnaire. You will be entered into the sweepstakes/lottery for each survey questionnaire you completed.

If you have not completed the questionnaires, please complete them and put them in the mail. Postage is already paid.

If you lost your copies, you will receive another copy in the mail in a couple of weeks.

Thanks You, Miguel del Pozo, Project Leader, University of Puerto Rico – Mayaguez 787-941-3559

Visitor Internet Panel Questionnaire

Note: This is a paper version of the survey intended to show the type of questions in the survey. The actual content of the Internet Panel on-line survey will take advantage of computer programming so that information not relevant need not appear. In addition, information obtained in the on-site short form for general activity participation and demographics is not repeated here. For general activities, the contractor will program the information from the on-site survey so only those activities done in each region will come up when asking number of days of use and number of dives.

INTRODUCTION

This survey is a follow-up to the survey you took part in while in Puerto Rico. You will be asked:

- For more details on the activities you did on that rip.
- To rate various items as to how important and satisfied you were and you expectations about these items and what you actually experienced.
- Special issues of importance to local agencies and businesses related to your recreation experience.
- About your expenditures for that trip. We ask that the person who made the expenditures answer this part of the survey.
- Your value for the coral reef ecosystems in Puerto Rico under different conditions of the reefs.

PART A: GENERAL ACTIVITIES

Here you will be asked for the number of different days and number of dives (snorkeling and SCUBA diving activities) you did for each activity in each region. You will only be asked for activities you said you did while on that trip.

Need to put maps of regions in questionnaire.

Definitions: Day: A day is equal to any part of a day or a whole day

Dive: A dive is equal to an entrance and exit from the water.

- A1. For activities with an activity number with an "A" suffix and the respondent did the activity ask, "how many different days did you do the activity on that trip to Puerto Rico in each region you did the activity?"
- A2. For snorkeling and SCUBA diving activities with an activity number with an "A" suffix and the respondent did the activity ask, "how many different dives did you do on that trip to Puerto Rico in each region you did the activity?"

PART B: REEF ACTIVITIES

Here you will be asked for the activities you or anyone in your recreation party did on the natural coral reefs while on your trip to Puerto Rico where you were interviewed. You will be asked if you participated in each activity in each region, how many others in your party did the activity in each region, how many different days you did each activity in each region, and how many dives you did for snorkeling and SCUBA diving activities in each region.

Remind respondents they can go back to maps if needed.

B1. Which activities did you or anyone in your party do on the reefs in Puerto Rico on that visit? (**Radio buttons**)

Snorkeling				
100A	Snorkeling from charter/party boat (pay operation and includes snorkeling tours)			
101A	Snorkeling from a rental boat			
102A	Snorkeling from private boat (your boat or friend or relatives boat)			
10A	Snorkeling from shore			
200A 201A 202A 11A	Scuba Diving Scuba diving from charter/party boat (pay operation) Scuba diving from a rental boat Scuba diving from a private boat (your boat or friend or relatives boat) Scuba diving from shore			
	Special Activities while Snorkeling or Scuba Diving			
300	Diving for lobsters			
301	Underwater photography			
303	Spear fishing			
404A 405A 406A	Fishing – Inshore or Light Tackle Fishing Fishing from charter/party boat or guide (pay operation) – inshore or light tackle Fishing from rental boat – inshore or light tackle Fishing from a private boat (your boat or friend or relatives boat) – inshore or light tackle			
407A 408A 409A 410A 14A	Other Fishing Other fishing from charter boat (pay operation, usually six persons or less) Other fishing from party or head boat (pay operation, charge per person) Other fishing from a rental boat Other fishing from a private boat (your boat or friends or relatives boat) Fishing from shore (beach, bank, pier, bridge, jetty, dock)			
	Viewing Nature and Wildlife			
500A	Glass bottom boat rides (pay operation)			
501A	Inshore boating excursions (pay operation/guided service/NOT FISHING, including			
502 A	kayaking)			
502A 503	Viewing nature and wildlife from private or rental boat Bioluminescent Bays			
504	Ocean kayaking			
505	Whale Watching			
13A 15A	Other Activities on the Reefs Surfing Swimming			
18A	Paddle boarding, wind surfing or kite boarding			

Activity	Region 1	Region 2	Region 3	Region 4	Region 5	
33. For each activach region?	vity done by the	e responden	at or membe	r of party, l	now many others in the party did ac	ctiv
Activity	Region 1	Region 2	Region 3	Region 4	Region 5	
		-				
		_				
34. For each activach region? (On)					different days did you do each act 'suffix)	ivi
Activity	Region 1	Region 2	Region 3	Region 4	Region 5	
	-	_	• •		From B2), how many different dive	es c
Activity	Region 1					

PART C: IMPORTANCE & SATISFACTION RATINGS AND SPECIAL ISSUES In this section, we will ask you to rate various items as to how important and satisfied you were, your expectations about these items, and what you actually experienced. We will also ask you some questions or special issues of importance to local agencies and businesses related to your recreation experience. Here we are interested in identifying the recreation site information that is important to you, the visitor. NOTE: Items are different here for Pre-test to help identify relative importance of Choice Question Attributes. We will use items in the mailback surveys for the final survey. IMPORTANCE C1. Please rate each item as it contributes to an ideal setting for the recreation activities you did while in Puerto Rico. (Use radio buttons for responses dk=don*t know, n/a=not applicable, 1=Not important, 2=Somewhat Important, 3=Important, 4=Very Important and 5=Extremely Important) 1) Clear water (high visibility) 2) Clean water healthy for swimming and other water-based activities. 3) Abundance and diversity of stony corals on the reefs. 4) Abundance and diversity of soft corals and sponges on the reefs. 5) Abundance and diversity of soft corals and sponges on the reefs. 6) Abundance and diversity of fish to eat on the reefs. 7) Abundance and diversity of fropical fish to see on the reefs. 8) Artificial reefs (sunken ships, reef balls, piers). 8) Easy, abundant and quality beach and shoreline access. 10) Marina facilities, boat ramps/launching facilities.		tinued)
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	•	
11) Mooring buoys and navigational markers	,	Marina facilities, boat ramps/launching facilities
12) Opportunity to see large wildlife (sharks, rays, turtles, manatees, dolphins)	,	
	12)	
	•	
	13)	• • • • • • • • • • • • • • • • • • • •
16) Well-maintained roads and bridges	13) 14)	
17) Public transportation	13) 14) 15)	
	13) 14) 15) 16)	Well-maintained roads and bridges
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23) Customer service and friendliness of people	13) 14) 15) 16) 17) 18) 19) 20) 21) 22)	Well-maintained roads and bridges Public transportation Parking Historic preservation (historic landmarks, houses, etc.) Educational posters, signs, brochures

25)

Here we are interested in how satisfied you were with each item.

SATISFACTION

C2

Please rate each item as to how satisfied you were with each item at the places you recreated. (Use radio buttons for responses dk=don't know, n/a=Not applicable, 1=Terrible, 2=Unhappy/dissatisfied, 3=Mixed, 4=Happy/Satisfied and 5=Delighted)

1)	Clear water (high visibility)
2)	Clean water healthy for swimming and other water-based activities
3)	Abundance and diversity of stony corals on the reefs
4)	Abundance and diversity of soft corals and sponges on the reefs
5)	Abundance and diversity of fish to eat on the reefs
6)	Abundance and diversity of tropical fish to see on the reefs
7)	Abundance and diversity of macroinvertebrates (urchins, conchs, lobsters)
8)	Artificial reefs (sunken ships, reef balls, piers)
9)	Easy, abundant and quality beach and shoreline access
10)	Marina facilities, boat ramps/launching facilities
11)	Mooring buoys and navigational markers
12)	Opportunity to see large wildlife (sharks, rays, turtles, manatees, dolphins)
13)	Depth of Reefs (easy to access for snorkeling, SCUBA diving)
14)	Opportunity to see or catch Sport/Trophy fish
15)	Un-Crowded conditions on reefs (number of other people you see)
16)	Well-maintained roads and bridges
17)	Public transportation
18)	Parking
19)	Historic preservation (historic landmarks, houses, etc.)
20)	Educational posters, signs, brochures
21)	Availability of tour guides
22)	Availability of lifeguards for beach safety
23)	Customer service and friendliness of people
24)	Public safety (areas with low crime rates)
25)	Good maps and signage for road navigation
C3. Had	you visited Puerto Rico more than five years ago?
	☐ If "yes" answer question next set of questions
	If "no" skip to questions on expectancy and accomplishments.

Please rate how satisfied you were with each item five years ago. (Use radio buttons for responses dk=don't know, n/a=not applicable, 1=Not important, 2=Somewhat Important, 3=Important, 4=Very Important and 5=Extremely Important)
C4.

1)	Clear water (high visibility)
2)	Clean water healthy for swimming and other water-based activities
3)	Abundance and diversity of stony corals on the reefs
4)	Abundance and diversity of soft corals and sponges on the reefs
5)	Abundance and diversity of fish to eat on the reefs
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8)	Artificial reefs (sunken ships, reef balls, piers)
9)	Easy, abundant and quality beach and shoreline access
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14)	Opportunity to see or catch Sport/Trophy fish
15)	Un-Crowded conditions on reefs (number of other people you see)
16)	Well-maintained roads and bridges
17)	Public transportation
18)	Parking
19)	Historic preservation (historic landmarks, houses, etc.)
20)	Educational posters, signs, brochures
21)	Availability of tour guides
22)	Availability of lifeguards for beach safety
23)	Customer service and friendliness of people
24)	Public safety (areas with low crime rates)
25)	Good maps and signage for road navigation

Here we want to know what your expectations were for the quality of the item below when you were planning your trip to Puerto Rico.

Please rate each item as it relates to the activities you did while in Puerto Rico. (Use radio buttons n/a=Not applicable, dk=don't know, 1=Did not expect, 2=Small expectation, 3=Moderate expectation, 4=Large Expectation, 5=Very large expectation).

C5.

EXPECTATIONS

1)	Marina facilities
2)	Availability of public restrooms
3)	Public transportation
4)	Parking
5)	Cleanliness of streets and sidewalks
6)	Boat ramps/launching facilities
7)	Well-maintained roads and bridges
8)	Value of lodging (cost vs amenities: clean rooms & linens, working ac, hot showers) showers)
9)	Mooring buoys and navigational aids
10)	Good maps and signage for road navigation
11)	Resorts with focus on Ecotourism/green initiatives: low energy use, recycling
12)	Educational posters, signs, brochures
13)	Availability of lifeguards for beach safety
14)	Easy, abundant, and quality beach & shoreline access
15)	Enforcement of environmental laws & regulations
16)	Public safety (area has low crime rates)
17)	Customer service and friendliness of people
18)	Availability of tour guides
19)	Historic preservation (historic landmarks, houses, etc.)
20)	Artificial reefs (sunken ships, reef balls, piers)
21)	Quality restaurants
22)	Clear water (high visibility)
23)	Clean water healthy for swimming and other water-based activities
24)	Amount of living coral on the reefs
25)	Many kinds of fish and sealife to view

ACCOMPLISHMENTS (WHAT YOU ACTUALLY EXPERIENCED)

Please rate each item for what you accomplished or actually experienced. (Use radio buttons n/a=Not applicable, dk=don't know, 1=Completely did not meet expectations, 2=Slightly met expectations, 3=met expectations, 4=Slightly exceeded expectations, 5=Completely exceeded expectations)

C6.

1)	Marina facilities
2)	Availability of public restrooms
3)	Public transportation
4)	Parking
5)	Cleanliness of streets and sidewalks
6)	Boat ramps/launching facilities
7)	Well-maintained roads and bridges
8)	Value of lodging (cost vs amenities: clean rooms & linens, working ac, hot showers) showers)
9)	Mooring buoys and navigational aids
10)	Good maps and signage for road navigation
11)	Resorts with focus on Ecotourism/green initiatives: low energy use, recycling
12)	Educational posters, signs, brochures
13)	Availability of lifeguards for beach safety
14)	Easy, abundant, and quality beach & shoreline access
15)	Enforcement of environmental laws & regulations
16)	Public safety (area has low crime rates)
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20)	Artificial reefs (sunken ships, reef balls, piers)
21)	Quality restaurants
22)	Clear water (high visibility)
23)	Clean water healthy for swimming and other water-based activities
24)	Amount of living corals on the reefs
25)	Many kinds of fish and sealife to view

SPECIAL ISSUES

Here we have some questions addressing special local issues in Puerto Rico. C7. Do you own a boat in Puerto Rico? a. ☐ Yes (Continue) No (Go to Question d) What is the length of your boat? b. (Feet) Do you trailer your boat or do you store it at a dock or marina? C. Trailer Store at a dock or marina d. Do you own or rent a vacation home on the coast with access to the water? ☐ Yes How important were Puerto Rico's beaches to your decision to visit Puerto Rico? e. 5 f. Was this trip your first visit to Puerto Rico for recreation activities? ☐ No (Continue) Yes (Go to Question IVa) g. How many years have you been coming to Puerto Rico for recreation activities? How likely is it that you will recommend Puerto Rico to a friend or family member for their next h. vacation? (Use radio buttons dk=Don't know, 1=Will not recommend, 2=Somewhat Likely, 3=Likely, 4=Very Likely, 5=Will Recommend) How likely is it that you will return to Puerto Rico for a visit? (Use radio buttons dk=Don't know, 1=Will not Return, 2=Somewhat Likely, 3=Likely, 4=Very Likely, 5=Will return) j. How soon will you return? Don't Know In less than 3 months 3 to 6 months 6 to 12 months Greater than one year

k. On		st visit ever to for a cruise ship	Puerto Rico, was your stopover?				
		Yes	No (Skip to Section VI)				
L.	•	Did your stopover experience in Puerto Rico result in you choosing Puerto Rico as a destination for a non_cruise ship_visit?					
		Yes	No				
m.	n. If this cruise ship visit was your first visit, did your experience lead you to think about planning future non cruise ship visit to Puerto Rico?						
		Yes] No				
			co face competing demands for development. When choosing a destination for ation activities what is your preference? (Check one answer only)				
		Low developm	nent, small town atmosphere along the coast				
	 Dense development, large town with high-rise hotels and casinos, many restaurant and shopping opportunities 						
	☐ Mix of low development and dense development places						
	☐ No preference						
activ boar	ities like ding, vi	e visiting beaclewing wildlife,	okay with staying in dense developed areas, but when doing certain recreation hes, fishing, SCUBA diving, snorkeling, boating, surfing, wind surfing, paddle photography and hiking trails prefer to have views unobstructed by development il and gas platforms, wind turbines etc.).				
Hov	v impor	tant to you is it	to have areas with natural views protected? (Check one answer only)				
	Importa Very ir	hat Important					

In this next set of questions, we want to ask you about several issues of importance in managing Puerto Rico's natural resources that support recreation activities or protect resources by preservation methods.

Please indicate your level of agreement with each of the statements below. (Use radio buttons 1=Strongly Disagree, 2=Disagree, 3=Neutral, 4=Agree and 5=Strongly Agree).

C8.

- 1) I support the creation of marine protected areas that allow activities as long as the activities don't harm the resource.
- 2) I support the creation of marine reserves that prohibit all activities that take things like fishing and ornamental trade for aquariums.

- 3) I support the creation of research only areas that only allow scientific and educational activities.
- 3) I support increased protection of threatened and endangered species like turtles and Elkhorn and Staghorn corals.
- 5) I support increased enforcement of environmental laws and regulations
- 6) I support increased education and outreach for violators of environmental laws and regulations.
- 7) I support a mixed approach to using education and outreach and enforcement on violators of environmental laws and regulations.
- 8) I support more coral nurseries to help restore coral reefs.

PART D. Expenditures

Section 1 – TRIP EXPENDITURES

Here we would like to ask you about the expenses related to the most recent trip to do recreation activities on Puerto Rico's coral reefs (the trip when we interviewed you).

Please complete one of the questions below, indicating for how many people you paid expenses.

D1-1a. If you <u>paid your own expenses</u> or if you shared expenses with someone else, please check this box (**radio button**).

D1-1b. If you were paying <u>all the expenses for yourself and for one or more others</u>, please check this box (**radio button**).

D1-2.	Number	of pec	ov ela	u were	paving	expenses	for including yourself.	

D1-3. For which of the following items did you have expenditures on your last trip. (use radio buttons, in next section on expenditure amounts only ask for expenditures categories selected here).

Trip expenditures include expenditures you made while at home planning the trip and expenditures you made in Puerto Rico.

LODGING, PRIVATELY OWNED (NON-GOVERNMENT)

Hotel/motel/bed & breakfast, etc. Rental home, cottage, cabin, condo Camping site (RV/tent/camper)

FOOD & BEVERAGES

Food and drinks consumed at restaurants and bars

Drinks consumed at bars and clubs during non-meal times (nighttime recreation)

Beverages purchased at a store for carryout

Food purchased at a store for carryout

TRANSPORTATION

Rental automobile, motor home, trailer, motorcycle or other recreation vehicle Gas & oil – auto/RV

Repair & service - auto/RV

Parking fees & tolls

Taxi fare

Ferry

Train

Airline Fare

- a. Package tour
- b. Any other airline fare

BOATING

Boat, jet ski, and wave runner rental

Boat fuel and oil

Boat repairs

Boat launch fees

Boat slip fees or marine fees (this trip only)

Sailing charters or sunset cruises

FISHING

Cut bait

Live bait

Daily or special fishing permits

Fishing lines, fly lines, fishnets, and minnow traps

Charter/party boat, guide service

SCUBA DIVING/SNORKELING

Rental fee for equipment

Charter/party boat, guide service

SIGHTSEEING

Sightseeing tours

Glass-bottom boat rides

Excursions, kayak tours

Park entrance fees

Admission to tourist, amusement, festivals and other commercial attractions

Food and drinks on sightseeing tours

OTHER ACTIVITY EXPENDITURES

Rental fee for recreation equipment (surfboards, paddleboards, kite boards,

Golf carts, or others not listed above)

Guide service, tour, or outfitters (not listed above)

Admission to motion pictures, theaters, museums, musical performances, concerts, etc.

Admission to musical performances, concerts (not listed above)

Spa treatments

Fitness activities (gym fees, fitness classes/instruction)

MISCELLANEOUS EXPENDITURES

Film purchases

Film developing

Footwear

Clothing

Souvenirs and gifts (not clothing)

Barber, laundry, and other personal services

Telephone, copying, fax or other business services

Physician, dentist, or other medical services

Other, Specify _____

Next you will be asked your expenditures for each of the items where you said you made expenditures.

Please report your expenditures for each of the items to the nearest whole dollar. In Column A, put the total amount of money you spent on the item, regardless of where you spent it. In Column B, report only the amount

you spent while in Puerto Rico.

EXAMPLE: Joe and Jane Smith purchase roundtrip tickets to Puerto Rico on-line at \$400 each, for a total of \$800. Their total amount spent for the trip was \$800 (Column A). The amount spent while in Puerto Rico was \$0 (Column B).

Item	Column A: Total amount spent on this trip	Column B: Of the amount in Column A, how much did you spend in Puerto Rico?
TRANSPORTATION		
Airline Fare		
a. Package tour		
b. Any other airline fare	800	0

Item	Column A: Total amount spent on this trip	Column B: Of the amount in Column A, how much did you spend in Puerto Rico?

Section 2 – ANNUAL VACATION AND EQUIPMENT PURCHASES

This section asks about money people spent on recreational equipment, boat storage, time-share and condo fees and related purchases over the past 12 months.

D2-1. During the past 12 months, how many times did you take a trip away from home for a boating-related activity (sailing, waterskiing, canoeing, fishing from a boat, motor boating, SCUBA diving, jet skiing, etc.)?
D2-2. Of these trips, how many were to some place outside Puerto Rico? (number of times)
D2-3. For which of the following items have you made a purchase or made an expenditure in the past 12 months. Please include purchases you made anywhere. (radio buttons to be programmed for next section).

MAJOR RECREATIONAL EQUIPMENT

Diving or snorkeling equipment Fishing rods and reels Cameras and other photo gear

Binoculars and other viewing equipment

BOATING EQUIPMENT

New motorized boats or jet skis/wave runners

New non-motorized boats (sailboats, row boats, canoes, kayaks, etc.)

New boat engines

New sails or rigging

New boat trailer

Boat storage and marina fees

Other boating expenses

ANNUAL LODGING-RELATED FEES

Condo and time-share fees

RV or trailer park fees

D2-4 For each of the items where you made purchases or expenditures, indicate in Column A the total amount of money you spent on that equipment in the past 12 months. In Column B, report the total amount of purchases you made just in the county or city where you live. In Column C, report the total amount of purchases you made in Puerto Rico.

EXAMPLE: Joe and Jane Smith purchased a boat for \$17,000 from a dealer at their home in New York last summer. They also purchased a jet ski for \$12,000 from a dealer in Puerto Rico. Here is how they would report these expenditures.

Item	Column A:	Column B:	Column C:	
	Total purchases in	Purchases in home county	Purchases in Puerto	
	past 12 months	or city	Rico	
BOATING EQUIPMENT				
New motorized boats or jet skis	29,000	17,000	12,000	

Item	Column A:	Column B:	Column C:
	Total purchases in past 12	Purchases in home county	Purchases in Puerto Rico
	months	or city.	

PART E: Economic Valuation of Puerto Rico's Coral Reef Ecosystems

In this section of the survey, we will first present to you some definitions and scientific facts about Puerto Rico's coral reef ecosystems. We will then present you with different reef conditions and the cost to your household to achieve those conditions. We will then ask you to choose among a set of different conditions and the cost to your household. You can think of this like you think about buying a car or a house, which would have many different features at different costs.

First, here are some photographs of the kinds of features or attributes one might see on Puerto Rico's coral reef ecosystems.

(put in photos).

Here are some definitions of what we mean by coral reefs and coral reef ecosystems; what the conditions of coral reefs are; the current and future health of Puerto Rico's coral reef ecosystems; and the problems and possible management solutions.

Definitions

- Coral reefs are colonies of connected skeletons of millions of small animals called corals.
- <u>Coral reef ecosystems</u> include the coral reefs, neighboring areas of sea bottom, ocean waters, sponges, algae, seagrasses and mangroves.
- <u>Coral reef ecosystems</u> provide a place to live for many ocean species including, fish, sea turtles, conchs, lobsters, crabs, sponges, urchins, sea plants and marine mammals like dolphins and manatees.
- Most coral reef ecosystems in Puerto Rico are in water less than 60 feet deep.

Conditions

- Research by the U.S. Environmental Protection Agency (EPA) and the National Oceanic and Atmospheric Administration (NOAA) has measured the abundance and diversity (number of different species) of stony corals, soft corals, sponges, fish, and macroinvertebrates (conch, spiny lobster, and urchins) on Puerto Rico's coral reefs.
- Measures of abundance and diversity were measured on how much was there per square meter of coral reef area.
- For <u>abundance</u>, the following measures were taken:
 - <u>Stony corals</u>: Percent (%) of hard-bottom covered per square meter and percent of the coral tissue is alive.
 - Soft corals and Sponges: Square centimeters per square meter of reef area.
 - Fish: Number per square meter.

Fish were classified into fish people eat (consumptive) and fish that people just view (Tropical/Ornamental fish). A few fish that normally would be classified as consumptive were not counted as consumptive because of ciguatera poisoning. Fish were also classified as Sport/Trophy fish (Ladyfish, Permit, Bonefish, Tarpon, Barracuda, Jacks). Some of these may be known to have ciguatera poisoning but are still fun to catch.

- <u>Consumptive fish</u>: Puerto Rico has only a few species with limits on length to be legal for keeping (Yellowtail Snapper, White Grunt, Silk Snapper, and Black Snapper). Some are permanently closed to fishing (Nassau Grouper and Goliath Grouper). Still others have closed seasons (Silk, Vermillion, Black and Blackfin Snappers Oct. Dec.; Mutton and Lane Snappers April-May; Red Hind Dec. –Feb.). We present the number of consumptive fish that meet legal size for keeping per square meter of reef area.
- Tropical/Ornamental fish: Number of fish per square meter.
- <u>Sport/Trophy fish</u>: Opportunity to catch or see trophy fish on the entire reef <u>not</u> the number per square meter.
- <u>Macroinvertebrates (conchs, spiny lobsters, and urchins)</u>: The number per square meter. For <u>conchs</u>, the maximum number observed was 3 per square meter, while for <u>spiny lobster</u>, the maximum observed was 1 per square meter. Urchins tend to be observed in much higher numbers. For Longspined urchins, the maximum observed was 8 per square meter, while for smaller species of urchins as many as 37 per square meter have been observed. Seasonal closure of Queen Conch is July Sept.

Health of the Reefs

- Urchins are known to increase the health of reefs for stony corals.
- Stony corals predominate in the healthiest reefs.
- <u>Soft Corals</u> and <u>Sponges</u> tend to dominate in reef areas where the water quality is relatively poor. Scientists have found that soft corals and sponges are more able than <u>stony corals</u> to thrive in relatively poor water quality and move into places where <u>stony corals</u> have died.
- <u>Soft Corals</u> and <u>Sponges</u> are often very colorful, serve as important habitat for fish, and help improve water quality by filtering nutrients thereby reducing algal growth that can smother reefs and improving water clarity/visibility
- Most of the coral reef ecosystems in Puerto Rico are currently in a poor or fair condition.
 Overfishing, water pollution, careless anchoring, and sediments from runoff from development and agricultural areas have been the most important factors damaging the coral reef ecosystems.

Problems and Management Solutions

- If <u>current management practices</u> continue in the future (<u>Status Quo</u>), in 10 to 20 years scientists expect that all but the few areas that are receiving special protection will be in a poor or <u>low condition</u> with respect to the corals, sponges, fish, and water clarity/visibility. If rules and regulations are not enforced even the specially protected areas will be in poor or low condition.
- If <u>management is changed</u> to improve reef conditions, it will require both public and private investments to protect and restore the coral reef ecosystems, which would include enforcement of rules and regulations.
- In the next section of the survey, you will be presented with several sets of coral reef ecosystem conditions. There is an estimated cost to your household per year that would be required to achieve each condition.
- The <u>cost per year</u> is based on the costs that will be paid by businesses and households to pay for investments that protect and restore the coral reef ecosystems like improved sewage treatment, filtering and cleaning urban run-off, erosion control from agricultural areas and development projects, installation of mooring buoys to protect reefs from anchor damage, restoration of reefs, and enforcement of rules and regulations.
- The <u>costs per year</u> would be paid by all residents and visitors to Puerto Rico through increased prices of goods and services. This might also include increases in local sales taxes to cover government costs to pay for protection and restoration.

- The <u>Option A: Status Quo</u> (No change in management), will cost your household nothing (\$0 per year), but will result in <u>low reef conditions</u> on all of Puerto Rico's coral reef ecosystems, except for the few specially protected areas if rules and regulations are enforced.
- You will always have the option of choosing the Status Quo (Option A).

Before we get started on presenting to you the choices we are asking you to make, here are three illustrations showing coral reef ecosystem conditions where all conditions are at a high level, a medium level and a low level. You will be presented with different mixes of these conditions for different attributes of the reefs and the corresponding costs to your household of achieving these conditions.

Insert illustrations

Low, Medium and High Conditions for Reefs

Crowding: Beaches and Reefs

Choice 1

Changes in management Corals and Sponges No stony corals, only soft corals and sponges Corals and Sponges Up to 4 species of stony corals covering 5 to 20% of hard-bottom with 60 to 90% live coral tissue. Up to 4 species of soft corals for a total of 14 to 25 square centimeters per square meter Up to 4 species of sponges for a total of 7 to 15 square centimeters per square meter Up to 4 species of sponges for a total of 7 to 15 square centimeters per square meter Up to 4 species of sponges for a total of 2 to 7 square centimeters per square meter. Fish and Wildlife Up to two species of consumptive fish for a total of 2 to 7 square centimeters per square meter. Fish and Wildlife Up to two species of consumptive fish for a total of 5 fish per square meter with no fish of legal size to keep Up to 3 species of tropical/ornamental fish with a total of 3 fish per square meter No Macroinvertebrates (conch, lobster or urchins) No opportunity to see large wildlife (sharks, rays, turtles, manatees, dolphins) No opportunity to see or catch Sport/Trophy fish (ladyfish, permit, bonefish, tarpon, snook, jacks) Water Condition Medium Level of Condition Corals and Sponges Corals and Sponges So to 17 species of stony corals covering more than 20% and up to 100% of hard-bottom with 60 to 90% live coral tissue. It pot 6 species of soft corals for a total of 14 to 14 square centimeters per square meter. Up to 4 species of sponges for a total of 4 to 14 square centimeters per square meter. Up to 3 species of sponges for a total of 10 fish per square meter. Fish and Wildlife Up to two species of consumptive fish for a total of 10 fish per square meter. Fish and Wildlife Up to two species of consumptive fish for a total of 10 fish per square meter. Fish and Wildlife Up to 5 species of consumptive fish for a total of 10 fish per square meter. Fish and Wildlife Up to 15 species of for a total of 10 fish per square meter. Fish and Wildlife Up to 5 species of tropical/ornamental fish with a total of 3 fish per square me	Option A: Status Quo – No	Option B: Coral Reefs In	Option C: Coral Reefs in
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Water ConditionsWater ConditionsClarity/Visibility: Less than 10 feetClarity/Visibility: 10 to 50 feetClarity/Visibility: Greater than 50 feetCleanliness: Not healthy for swimmingCleanliness: healthy for swimmingCleanliness: healthy for swimmingCleanliness: healthy for swimmingDepth of Reefs: Greater than 60 feetDepth of Reefs: 20 to 60 feetDepth of Reefs: less than 20 feetCrowdedness: 21 or moreCrowdedness: 11 to 20Crowdedness: 0 to 10 people	1 =	1 -	-
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60 feet feet Crowdedness: 21 or more Crowdedness: 11 to 20 Crowdedness: 0 to 10 people	Depth of Reefs: Greater than	Depth of Reefs: 20 to 60 feet	Depth of Reefs: less than 20
	_	_	_
people people people	Crowdedness: 21 or more	Crowdedness: 11 to 20	Crowdedness: 0 to 10 people
<u>, , , , , , , , , , , , , , , , , , , </u>	people		
\$0 \$		1 1	\$
(Cost to your household per (Cost to your household per (Cost to your household per	(Cost to your household per	(Cost to your household per	(Cost to your household per
year) year) year)	_	1 '	_

E1.	Which option do you prefer?	A	B	C					
E2.	How many days would you us	e Puerto	Rico's	s Coral 1	eefs under	the reef	conditions	for the o	ption you
pref	erred? (number of days)								

E4. How sure are you that the option you chose as your most preferred among the three options is your most preferred (radio buttons 1=not sure at all, 2=slightly sure, 3=moderately sure, 4=very sure, 5=extremely sure)

Choice 2

Option A: Status Quo – No. | Option B: 6M & 6H | Option C: 6H & 6M

Option A: Status Quo – No	Option B: 6M & 6H	Option C: 6H & 6M
changes in management		
Corals and Sponges	Corals and Sponges	Corals and Sponges
No stony corals, only soft	M:.Up to 4 species of stony	H: 5 to 17 species of stony
corals and sponges	corals covering 5 to 20% of	corals covering more than
	hard-bottom with 60 to 90%	20% and up to 100% of hard-
	live coral tissue.	bottom with over 90% to
		100% live coral tissue.
Up to 4 species of soft corals	M: Up to 3 species of soft	H: 1 species of soft corals for
for a total of 14 to 25 square	corals for a total of 4 to 14	a total of less than 4 square
centimeters per square meter	square centimeters per square	centimeters per square meter.
	meter.	
Up to 4 species of sponges for	M: Up to 3 species of sponges	H: 1 species of sponges for a
a total of 7 to 15 square	for a total of 2 to 7 square	total of less than 2 square
centimeters per square meter	centimeters per square meter.	centimeters per square meter.
Fish and Wildlife	Fish and Wildlife	Fish and Wildlife
Up to two species of	M: 3 to 6 species of	H: Up to 15 species of
consumptive fish for a total of	consumptive fish for a total of	consumptive fish for a total of
3 fish per square meter with	10 fish per square meter with	100 or more fish per square
no fish of legal size to keep	up to 50% of legal size to	meter with 75 to 100% of
	keep.	legal size to keep.
Up to 3 species of	M: 4 to 10 species of	H: 25 to 30 species of
tropical/ornamental fish with a	tropical/ornamental fish with a	tropical/ornamental fish for a
total of 3 fish per square meter	total of 10 fish per square	total of 20 to 100 or more fish
	meter.	per square meter.
No Macroinvertebrates	M: 1 species of	H: 2 or more species of
(conch, lobster or urchins)	Macroinvertebrates (urchins)	Macroinvertebrates (conch, lobster
	with 1 to 20 per square meter.	or urchins) 1 lobster, 1 conch, and 20 or more urchins per square meter.
No opportunity to see large	H : Opportunity to see large	M: No opportunity to see
wildlife (sharks, rays, turtles,	wildlife (sharks, rays, turtles,	large wildlife (sharks, rays,
manatees, dolphins)	manatees, dolphins)	turtles, manatees, dolphins)
No opportunity to see or catch	H: Opportunity to catch or	M: No opportunity to see or
Sport/Trophy fish (ladyfish,	see Sport/Trophy fish	catch Sport/Trophy fish
permit, bonefish, tarpon,	(ladyfish, permit, bonefish,	(ladyfish, permit, bonefish,
snook, jacks)	tarpon, snook, jacks)	tarpon, snook, jacks)
Water Conditions	Water Conditions	Water Conditions
Clarity/Visibility: Less than	H: Clarity/Visibility: Greater	M: Clarity/Visibility: 10 to 50
10 feet	than 50 feet	feet
Cleanliness: Not healthy for	H: Cleanliness: Healthy for	M: Cleanliness: Healthy for
swimming	swimming	swimming
Depth of Reefs: Greater than	H: Depth of Reefs: Less than	M: Depth of Reefs: 20 to 60
60 feet	20 feet	feet
Crowdedness: 21 or more	H: Crowdedness: 0 to 10	M: Crowdedness: 11 to 20
people	people	people
\$0	\$	\$
·	· ·	· · · · · · · · · · · · · · · · · · ·

(Cost to your household per	(Cost to your household per	(Cost to your household per	
year)	year)	year)	
preferred? (number of day	use Puerto Rico's Coral reefs und (s)	ler the reef conditions for the option you mos	•
E8. How sure are you that the o	ption you chose as your most pre	ferred among the thre options is y	our most

E8. How sure are you that the option you chose as your most preferred among the thre options is your most preferred (radio buttons 1=not sure at all, 2=slightly sure, 3=moderately sure, 4=very sure, 5=extremely sure) Choice 3

Option A: Status Quo – No	Option B: 6L and 6H	Option C: 6 H and 6L
changes in management	Option B. OE and off	option c. off and off
Corals and Sponges	Corals and Sponges	Corals and Sponges
No stony corals, only soft	L: No stony corals, only soft	H: 5 to 17 species of stony
corals and sponges	corals and sponges	corals covering more than
gorans and sponges		20% and up to 100% of hard-
		bottom with over 90% to
		100% live coral tissue.
Up to 4 species of soft corals	L: Up to 4 species of soft	H: 1 species of soft corals for
for a total of 14 to 25 square	corals for a total of 14 to 25	a total of less than 4 square
centimeters per square meter	square centimeters per square	centimeters per square meter.
	meter	1 1
Up to 4 species of sponges for	L: Up to 4 species of sponges	H: 1 species of sponges for a
a total of 7 to 15 square	for a total of 7 to 15 square	total of less than 2 square
centimeters per square meter	centimeters per square meter	centimeters per square meter.
Fish and Wildlife	Fish and Wildlife	Fish and Wildlife
Up to two species of	L: Up to two species of	H: Up to 15 species of
consumptive fish for a total of	consumptive fish for a total of	consumptive fish for a total of
3 fish per square meter with	3 fish per square meter with	100 or more fish per square
no fish of legal size to keep	no fish of legal size to keep	meter with 75 to 100% of
		legal size to keep.
Up to 3 species of	L: Up to 3 species of	H: 25 to 30 species of
tropical/ornamental fish with a	tropical/ornamental fish with a	tropical/ornamental fish for a
total of 3 fish per square meter	total of 3 fish per square meter	total of 20 to 100 or more fish
		per square meter.
No Macroinvertebrates	L: No Macroinvertebrates	H: 2 or more species of
(conch, lobster or urchins)	(conch, lobster or urchins)	Macroinvertebrates (conch, lobster
		or urchins) 1 lobster, 1 conch, and 20 or more urchins per square meter.
No opportunity to see large	H: Opportunity to see large	L: No opportunity to see
wildlife (sharks, rays, turtles,	wildlife (sharks, rays, turtles,	large wildlife (sharks, rays,
manatees, dolphins)	manatees, dolphins)	turtles, manatees, dolphins)
No opportunity to see or catch	H: Opportunity to catch or see	L: No opportunity to see or
Sport/Trophy fish (ladyfish,	Sport/Trophy fish (ladyfish,	catch Sport/Trophy fish
permit, bonefish, tarpon,	permit, bonefish, tarpon,	(ladyfish, permit, bonefish,
snook, jacks)	snook, jacks)	tarpon, snook, jacks)
Water Conditions	Water Conditions	Water Conditions
Clarity/Visibility: Less than	H: Clarity/Visibility: Greater	L: Clarity/Visibility: Less
10 feet	than 50 feet	than 10 feet
Cleanliness: Not healthy for	H: Cleanliness: Healthy for	L: Cleanliness: Not healthy

swimming	swimming	for swimming
Depth of Reefs: Greater than	H: Depth of Reefs: less than	L: Depth of Reefs: Greater
60 feet	20 feet	than 60 feet
Crowdedness: 21 or more	H: Crowdedness: 0 to 10	L: Crowdedness: 21 or more
people	people	people
\$0	\$	\$
(Cost to your household per	(Cost to your household per	(Cost to your household per
year)	year)	year)

E9. Which option do you prefer?ABC
E10. How many days would you use Puerto Rico's Coral reefs under the reef conditions for the option you
preferred? (number of days)
E11. Please provide a brief comment that helps us to understand why you chose the option you most preferred.

E12. How sure are you that the option you chose as your most preferred among the three options is your most preferred (radio buttons 1=not sure at all, 2=slightly sure, 3=moderately sure, 4=very sure, 5=extremely sure)

Choice 4

Option A: Status Quo – No	Option B: 6L and 6 M	Option C: 6M and 6 L
changes in management		
Corals and Sponges	Corals and Sponges	Corals and Sponges
No stony corals, only soft	L: No stony corals, only soft	M: Up to 4 species of stony
corals and sponges	corals and sponges	corals covering 5 to 20% of
		hard-bottom with 60 to 90%
		live coral tissue.
Up to 4 species of soft corals	L: Up to 4 species of soft	M: Up to 3 species of soft
for a total of 14 to 25 square	corals for a total of 14 to 25	corals for a total of 4 to 14
centimeters per square meter	square centimeters per square	square centimeters per square
	meter	meter
Up to 4 species of sponges for	L: Up to 4 species of sponges	M: Up to 3 species of
a total of 7 to 15 square	for a total of 7 to 15 square	sponges for a total of 2 to 7
centimeters per square meter	centimeters per square meter	square centimeters per square
		meter.
Fish and Wildlife	Fish and Wildlife	Fish and Wildlife
Up to two species of	L: Up to two species of	M: 3 to 6 species of
consumptive fish for a total of	consumptive fish for a total of	consumptive fish for a total of
3 fish per square meter with	3 fish per square meter with	10 fish per square meter with
no fish of legal size to keep	no fish of legal size to keep	up to 50% of legal size to
		keep.
Up to 3 species of	L: Up to 3 species of	M : 4 to 10 species of
tropical/ornamental fish with a	tropical/ornamental fish with a	tropical/ornamental fish with a
	1 60 6 1	
total of 3 fish per square meter	total of 3 fish per square meter	total of 10 fish per square
total of 3 fish per square meter	total of 3 fish per square meter	total of 10 fish per square meter.
total of 3 fish per square meter No Macroinvertebrates	L: No Macroinvertebrates	<u> </u>
		meter.
No Macroinvertebrates	L: No Macroinvertebrates	meter. M: 1 species of
No Macroinvertebrates	L: No Macroinvertebrates	meter. M: 1 species of Macroinvertebrates (urchins)
No Macroinvertebrates (conch, lobster or urchins) No opportunity to see large wildlife (sharks, rays, turtles,	L: No Macroinvertebrates (conch, lobster or urchins)	meter. M: 1 species of Macroinvertebrates (urchins) with 1 to 20 per square meter.
No Macroinvertebrates (conch, lobster or urchins) No opportunity to see large	L: No Macroinvertebrates (conch, lobster or urchins) M: No opportunity to see	meter. M: 1 species of Macroinvertebrates (urchins) with 1 to 20 per square meter. L: No opportunity to see
No Macroinvertebrates (conch, lobster or urchins) No opportunity to see large wildlife (sharks, rays, turtles,	L: No Macroinvertebrates (conch, lobster or urchins) M: No opportunity to see large wildlife (sharks, rays,	meter. M: 1 species of Macroinvertebrates (urchins) with 1 to 20 per square meter. L: No opportunity to see large wildlife (sharks, rays,

permit, bonefish, tarpon,	(ladyfish, permit, bonefish,	(ladyfish, permit, bonefish,
snook, jacks)	tarpon, snook, jacks)	tarpon, snook, jacks)
Water Conditions	Water Conditions	Water Conditions
Clarity/Visibility: Less than	M: Clarity/Visibility: 10 to 50	L: Clarity/Visibility: Less than
10 feet	feet	10 feet
Cleanliness: Not healthy for	M: Cleanliness: Healthy for	L: Cleanliness: Not healthy
swimming	swimming	for swimming
Depth of Reefs: Greater than	M: Depth of Reefs: 20 to 60	L: Depth of Reefs: Greater
60 feet	feet	than 60 feet
Crowdedness: 21 or more	M: Crowdedness: 11 to 20	L: Crowdedness: 21 or more
people	people	people
\$0	\$	\$
(Cost to your household per	(Cost to your household per	(Cost to your household per
year)	year)	year)

E13. Which option do you prefer?ABC			
E14. How many days would you use Puerto Rico's Coral reefs under the reef conditions for the option you			
oreferred? (number of days)			
E15. Please provide a brief comment that helps us to understand why you chose the option you most preferred			
E16. How sure are you that the option you chose as your most preferred among the three options is your most	st		
preferred (radio buttons 1=not sure at all, 2=slightly sure, 3=moderately sure, 4=very sure, 5=extremely sure	:)		

E17. 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.

If you had to choose, would you prefer to pay for new environmental programs through higher income taxes or through higher prices? (radio buttons 1=though higher income taxes, 2=through higher prices, 3=no preference).

- E18. Who do you think should manage the additional funding obtained for reef management? (radio buttons 1=Federal government, 2=Territorial government, 3=Non-government Organization like The Nature Conservancy or Protectores de Cuencas, a local organization, 4= Other (specify)______
- E19. Would you say you think of yourself as (radio buttons 1=not an environmentalist at all, 2=slightly an environmentalist, 3=moderate environmentalist, 4=a strong environmentalist, 5=very strong environmentalist).
- E20. We would like to learn more about how you reacted to the questions that asked you to choose between various options of reef conditions. For each of the statement below, tells us how strongly you agree or disagree with each statement. (use radio buttons 1=Strongly Disagree, 2=Somewhat Disagree, 3=Neither Agree of Disagree, 4=Somewhat Agree, 5=Strongly Agree).
- E20a. Costs should not be a factor when protecting the environment.
- E20b. I found it difficult to select an option of reef conditions I preferred.
- E20c. I was concerned that the Puerto Rico government cannot effectively manage coral reefs.
- E20d. I should not have to pay more to protect or restore coral reefs in Puerto Rico.
- E20e. 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.

E20. Please provide us any comments you would like to make to help us understand your views about cora
reefs in Puerto Rico and your Reponses to this survey.

THANK YOU that concludes our survey. You will be entered into the sweepstakes/lottery to win a free vacation and other prizes. If your contact information changes, you can send your new information to Miguel.delpozo@upr.edu. Your contact information will be destroyed after the prizes are awarded.

Visitor Internet Panel Questionnaire

Note: This is a paper version of the survey intended to show the type of questions in the survey. The actual content of the Internet Panel on-line survey will take advantage of computer programming so that information not relevant need not appear. In addition, information obtained in the on-site short form for general activity participation and demographics is not repeated here. For general activities, the contractor will program the information from the on-site survey so only those activities done in each region will come up when asking number of days of use and number of dives.

INTRODUCTION

This survey is a follow-up to the survey you took part in while in Puerto Rico. You will be asked:

- For more details on the activities you did on that rip.
- To rate various items as to how important and satisfied you were and you expectations about these items and what you actually experienced.
- Special issues of importance to local agencies and businesses related to your recreation experience.
- About your expenditures for that trip. We ask that the person who made the expenditures answer this part of the survey.
- Your value for the coral reef ecosystems in Puerto Rico under different conditions of the reefs.

PART A: GENERAL ACTIVITIES

Here you will be asked for the number of different days and number of dives (snorkeling and SCUBA diving activities) you did for each activity in each region. You will only be asked for activities you said you did while on that trip.

Need to put maps of regions in questionnaire.

Definitions: Day: A day is equal to any part of a day or a whole day

Dive: A dive is equal to an entrance and exit from the water.

- A1. For activities with an activity number with an "A" suffix and the respondent did the activity ask, "how many different days did you do the activity on that trip to Puerto Rico in each region you did the activity?"
- A2. For snorkeling and SCUBA diving activities with an activity number with an "A" suffix and the respondent did the activity ask, "how many different dives did you do on that trip to Puerto Rico in each region you did the activity?"

PART B: REEF ACTIVITIES

Here you will be asked for the activities you or anyone in your recreation party did on the natural coral reefs while on your trip to Puerto Rico where you were interviewed. You will be asked if you participated in each activity in each region, how many others in your party did the activity in each region, how many different days you did each activity in each region, and how many dives you did for snorkeling and SCUBA diving activities in each region.

Remind respondents they can go back to maps if needed.

B1. Which activities did you or anyone in your party do on the reefs in Puerto Rico on that visit? (**Radio buttons**)

Snorke	eling
100A	Snorkeling from charter/party boat (pay operation and includes snorkeling tours)
101A	Snorkeling from a rental boat
102A	Snorkeling from private boat (your boat or friend or relatives boat)
10A	Snorkeling from shore
200A 201A 202A 11A	Scuba Diving Scuba diving from charter/party boat (pay operation) Scuba diving from a rental boat Scuba diving from a private boat (your boat or friend or relatives boat) Scuba diving from shore
	Special Activities while Snorkeling or Scuba Diving
300	Diving for lobsters
301	Underwater photography
303	Spear fishing
404A 405A 406A	Fishing – Inshore or Light Tackle Fishing Fishing from charter/party boat or guide (pay operation) – inshore or light tackle Fishing from rental boat – inshore or light tackle Fishing from a private boat (your boat or friend or relatives boat) – inshore or light tackle
407A 408A 409A 410A 14A	Other Fishing Other fishing from charter boat (pay operation, usually six persons or less) Other fishing from party or head boat (pay operation, charge per person) Other fishing from a rental boat Other fishing from a private boat (your boat or friends or relatives boat) Fishing from shore (beach, bank, pier, bridge, jetty, dock)
	Viewing Nature and Wildlife
500A	Glass bottom boat rides (pay operation)
501A	Inshore boating excursions (pay operation/guided service/NOT FISHING, including
502A	kayaking)
502A	Viewing nature and wildlife from private or rental boat Bioluminescent Bays
504	Ocean kayaking
505	Whale Watching
13A 15A 18A	Other Activities on the Reefs Surfing Swimming Paddle boarding, wind surfing or kite boarding
	6, 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11

Activity	Region 1	Region 2	Region 3	Region 4	Region 5
33. For each activach region?	vity done by the	e responden	t or membe	r of party, h	now many others in the party did
ctivity	Region 1	Region 2	Region 3	Region 4	Region 5
34. For each activach region? (On)					different days did you do each a suffix)
Activity	Region 1	Region 2	Region 3	Region 4	Region 5
					From B2), how many different details the an "A" suffix)

B5 (con	ntinued)	
Activity	Region 1 Region 2 Region 3 Region 4 Region 5	
PART	C: IMPORTANCE & SATISFACTION RATINGS AND SPECIAL ISSUES	
expecta	section, we will ask you to rate various items as to how important and satisfied you were, your tions about these items, and what you actually experienced. We will also ask you some questions issues of importance to local agencies and businesses related to your recreation experience.	s on
Here we	e are interested in identifying the recreation site information that is important to you, the visitor.	
IMPOI	RTANCE	
C1.		
	rate each item as it contributes to an ideal setting for the recreation activities you did while in Pue	rto
	Use radio buttons for responses dk=don't know, n/a=not applicable, 1=Not important, ewhat Important, 3=Important, 4=Very Important and 5=Extremely Important)	
2-SUIII	ewhat Important, 3-Important, 4-very Important and 3-Extremely Important)	
1)	Clear water (high visibility)	
2)	Clean water healthy for swimming and other water-based activities	
3)	Amount of living corals on the reefs	
4)	Many different kinds of fishes and sea life to view	
5)	Many different kinds of fishes and sea life to catch	
6)	Control of invasive species (lionfish)	
7)	Enforcement of environmental laws and regulations	
8)	Artificial reefs (sunken ships, reef balls, piers)	
9)	Easy, abundant and quality beach and shoreline access	
10)	Marina facilities, boat ramps/launching facilities	
11)	Mooring buoys and navigational markers	
12) 13)	Resorts with focus on Ecotourism/green initiatives: low energy use, recycling	
14)	Availability of public restrooms	
15)	Cleanliness of streets and sidewalks	
16)	Well-maintained roads and bridges	
17)	Public transportation	
18)	Parking	
19)	Historic preservation (historic landmarks, houses, etc.)	
20)	Educational posters, signs, brochures	
21)́	Availability of tour guides	
22)	Availability of lifeguards for beach safety	
23)	Customer service and friendliness of people	
24)	Public safety (areas with low crime rates)	
25)	Good maps and signage for road navigation	

Here we are interested in how satisfied you were with each item.

SATISFACTION

C2

Please rate each item as to how satisfied you were with each item at the places you recreated. (Use radio buttons for responses dk=don't know, n/a=Not applicable, 1=Terrible, 2=Unhappy/dissatisfied, 3=Mixed, 4=Happy/Satisfied and 5=Delighted)

1)	Clear water (high visibility)
2)	Clean water Healthy for swimming and other water-based activities
3)	Amount of living corals on the reefs
4)	Many different kinds of fishes and sea life to view
5)	Many different kinds of fishes and sea life to catch
6)	Control of invasive species (lionfish)
7)	Enforcement of environmental laws and regulations
8)	Artificial reefs (sunken ships, reef balls, piers)
9)	Easy, abundant and quality beach and shoreline access
10)	Marina facilities, boat ramps/launching facilities
11)	Mooring buoys and navigational markers
12)	Value of lodging (cost vs amenities: clean rooms & linens, working ac, hot showers)
13)	Resorts with focus on Ecotourism/green initiatives: low energy use, recycling
14)	Availability of public restrooms
15)	Cleanliness of streets and sidewalks
16)	Well-maintained roads and bridges
17)	Public transportation
18)	Parking
19)	Historic preservation (historic landmarks, houses, etc.)
20)	Educational posters, signs, brochures
21)	Availability of tour guides
22)	Availability of lifeguards for beach safety
23)	Customer service and friendliness of people
24)	Public safety (areas with low crime rates)
25)	Good maps and signage for road navigation
C3. Had	I you visited Puerto Rico more than five years ago?
	☐ If "yes" answer question next set of questions
	☐ If "no" skip to questions on expectancy and accomplishments.

Please rate how satisfied you were with each item five years ago. (Use radio buttons for responses dk=don't know, n/a=not applicable, 1=Not important, 2=Somewhat Important, 3=Important, 4=Very Important and 5=Extremely Important)
C4.

1)	Clear water (high visibility)
2)	Clean water healthy for swimming and other water-based activities
3)	Amount of living corals on the reefs
4)	Many different kinds of fishes and sea life to view
5)	Many different kinds of fishes and sea life to catch
6)	Control of invasive species (lionfish)
7)	Enforcement of environmental laws and regulations
8)	Artificial reefs (sunken ships, reef balls, piers)
9)	Easy, abundant and quality beach and shoreline access
10)	Marina facilities, boat ramps/launching facilities
11)	Mooring buoys and navigational markers
12)	Value of lodging (cost vs amenities: clean rooms & linens, working ac, hot shower)
13)	Resorts with focus on Ecotourism/green initiatives: low energy use, recycling
14)	Availability of public restrooms
15)	Cleanliness of streets and sidewalks
16)	Well-maintained roads and bridges
17)	Public transportation
18)	Parking
19)	Historic preservation (historic landmarks, houses, etc.)
20)	Educational posters, signs, brochures
21)	Availability of tour guides
22)	Availability of lifeguards for beach safety
23)	Customer service and friendliness of people
24)	Public safety (areas with low crime rates)
25)	Good maps and signage for road navigation

Here we want to know what your expectations were for the quality of the item below when you were planning your trip to Puerto Rico.

Please rate each item as it relates to the activities you did while in Puerto Rico. (Use radio buttons n/a=Not applicable, dk=don't know, 1=Did not expect, 2=Small expectation, 3=Moderate expectation, 4=Large Expectation, 5=Very large expectation).

C5.

EXPECTATIONS

1)	Marina facilities
2)	Availability of public restrooms
3)	Public transportation
4)	Parking
5)	Cleanliness of streets and sidewalks
6)	Boat ramps/launching facilities
7)	Well-maintained roads and bridges
8)	Value of lodging (cost vs amenities: clean rooms & linens, working ac, hot showers) showers)
9)	Mooring buoys and navigational aids
10)	Good maps and signage for road navigation
11)	Resorts with focus on Ecotourism/green initiatives: low energy use, recycling
12)	Educational posters, signs, brochures
13)	Availability of lifeguards for beach safety
14)	Easy, abundant, and quality beach & shoreline access
15)	Enforcement of environmental laws & regulations
16)	Public safety (area has low crime rates)
17)	Customer service and friendliness of people
18)	Availability of tour guides
19)	Historic preservation (historic landmarks, houses, etc.)
20)	Artificial reefs (sunken ships, reef balls, piers)
21)	Quality restaurants
22)	Clear water (high visibility)
23)	Clean water healthy for swimming and other water-based activities
24)	Amount of living coral on the reefs
25)	Many kinds of fish and sealife to view

ACCOMPLISHMENTS (WHAT YOU ACTUALLY EXPERIENCED)

Please rate each item for what you accomplished or actually experienced. (Use radio buttons n/a=Not applicable, dk=don't know, 1=Completely did not meet expectations, 2=Slightly met expectations, 3=met expectations, 4=Slightly exceeded expectations, 5=Completely exceeded expectations)

C6.

1)	Marina facilities
2)	Availability of public restrooms
3)	Public transportation
4)	Parking
5)	Cleanliness of streets and sidewalks
6)	Boat ramps/launching facilities
7)	Well-maintained roads and bridges
8)	Value of lodging (cost vs amenities: clean rooms & linens, working ac, hot showers) showers)
9)	Mooring buoys and navigational aids
10)	Good maps and signage for road navigation
11)	Resorts with focus on Ecotourism/green initiatives: low energy use, recycling
12)	Educational posters, signs, brochures
13)	Availability of lifeguards for beach safety
14)	Easy, abundant, and quality beach & shoreline access
15)	Enforcement of environmental laws & regulations
16)	Public safety (area has low crime rates)
17)	Customer service and friendliness of people
18)	Availability of tour guides
19)	Historic preservation (historic landmarks, houses, etc.)
20)	Artificial reefs (sunken ships, reef balls, piers)
21)	Quality restaurants
22)	Clear water (high visibility)
23)	Clean water healthy for swimming and other water-based activities
24)	Amount of living corals on the reefs
25)	Many kinds of fish and sealife to view

SPECIAL ISSUES

Here we have some questions addressing special local issues in Puerto Rico. C7. Do you own a boat in Puerto Rico? a. ☐ Yes (Continue) No (Go to Question d) What is the length of your boat? b. (Feet) Do you trailer your boat or do you store it at a dock or marina? C. Trailer Store at a dock or marina d. Do you own or rent a vacation home on the coast with access to the water? ☐ Yes How important were Puerto Rico's beaches to your decision to visit Puerto Rico? e. 5 f. Was this trip your first visit to Puerto Rico for recreation activities? ☐ No (Continue) Yes (Go to Question IVa) g. How many years have you been coming to Puerto Rico for recreation activities? How likely is it that you will recommend Puerto Rico to a friend or family member for their next h. vacation? (Use radio buttons dk=Don't know, 1=Will not recommend, 2=Somewhat Likely, 3=Likely, 4=Very Likely, 5=Will Recommend) How likely is it that you will return to Puerto Rico for a visit? (Use radio buttons dk=Don't know, 1=Will not Return, 2=Somewhat Likely, 3=Likely, 4=Very Likely, 5=Will return) j. How soon will you return? Don't Know In less than 3 months 3 to 6 months 6 to 12 months Greater than one year

k. On		st visit ever to n a cruise ship	Puerto Rico, was your stopover?
		Yes	No (Skip to Section VI)
L.	•	ur stopover ex cruise ship vis	xperience in Puerto Rico result in you choosing Puerto Rico as a destination for sit?
		Yes	No
m.		•	visit was your first visit, did your experience lead you to think about planning a nip visit to Puerto Rico?
		Yes [] No
			co face competing demands for development. When choosing a destination for eation activities what is your preference? (Check one answer only)
		Low developn	nent, small town atmosphere along the coast
		Dense develo shopping opp	pment, large town with high-rise hotels and casinos, many restaurant and ortunities
		Mix of low dev	velopment and dense development places
		No preference	
activ boar	ities like ding, vi	e visiting beac ewing wildlife,	okay with staying in dense developed areas, but when doing certain recreation thes, fishing, SCUBA diving, snorkeling, boating, surfing, wind surfing, paddle photography and hiking trails prefer to have views unobstructed by development oil and gas platforms, wind turbines etc.).
Hov	v impor	tant to you is i	t to have areas with natural views protected? (Check one answer only)
	Importa Very ir	hat Important	

In this next set of questions, we want to ask you about several issues of importance in managing Puerto Rico's natural resources that support recreation activities or protect resources by preservation methods.

Please indicate your level of agreement with each of the statements below. (Use radio buttons 1=Strongly Disagree, 2=Disagree, 3=Neutral, 4=Agree and 5=Strongly Agree).

C8.

- 1) I support the creation of marine protected areas that allow activities as long as the activities don't harm the resource.
- 2) I support the creation of marine reserves that prohibit all activities that take things like fishing and ornamental trade for aquariums.

- 3) I support the creation of research only areas that only allow scientific and educational activities.
- 3) I support increased protection of threatened and endangered species like turtles and Elkhorn and Staghorn corals.
- 5) I support increased enforcement of environmental laws and regulations
- 6) I support increased education and outreach for violators of environmental laws and regulations.
- 7) I support a mixed approach to using education and outreach and enforcement on violators of environmental laws and regulations.
- 8) I support more coral nurseries to help restore coral reefs.

PART D. Expenditures

Section 1 – TRIP EXPENDITURES

Here we would like to ask you about the expenses related to the most recent trip to do recreation activities on Puerto Rico's coral reefs (the trip when we interviewed you).

Please complete one of the questions below, indicating for how many people you paid expenses.

D1-1a. If you <u>paid your own expenses</u> or if you shared expenses with someone else, please check this box (**radio button**).

D1-1b. If you were paying <u>all the expenses for yourself and for one or more others</u>, please check this box (**radio button**).

D1-2.	Number	of people y	ou were paying	expenses for	r including yourself.	
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D1-3. For which of the following items did you have expenditures on your last trip. (use radio buttons, in next section on expenditure amounts only ask for expenditures categories selected here).

Trip expenditures include expenditures you made while at home planning the trip and expenditures you made in Puerto Rico.

LODGING, PRIVATELY OWNED (NON-GOVERNMENT)

Hotel/motel/bed & breakfast, etc. Rental home, cottage, cabin, condo Camping site (RV/tent/camper)

FOOD & BEVERAGES

Food and drinks consumed at restaurants and bars

Drinks consumed at bars and clubs during non-meal times (nighttime recreation)

Beverages purchased at a store for carryout

Food purchased at a store for carryout

TRANSPORTATION

Rental automobile, motor home, trailer, motorcycle or other recreation vehicle Gas & oil – auto/RV

Repair & service - auto/RV

Parking fees & tolls

Taxi fare

Ferry

Train

Airline Fare

- a. Package tour
- b. Any other airline fare

BOATING

Boat, jet ski, and wave runner rental

Boat fuel and oil

Boat repairs

Boat launch fees

Boat slip fees or marine fees (this trip only)

Sailing charters or sunset cruises

FISHING

Cut bait

Live bait

Daily or special fishing permits

Fishing lines, fly lines, fishnets, and minnow traps

Charter/party boat, guide service

SCUBA DIVING/SNORKELING

Rental fee for equipment

Charter/party boat, guide service

SIGHTSEEING

Sightseeing tours

Glass-bottom boat rides

Excursions, kayak tours

Park entrance fees

Admission to tourist, amusement, festivals and other commercial attractions

Food and drinks on sightseeing tours

OTHER ACTIVITY EXPENDITURES

Rental fee for recreation equipment (surfboards, paddleboards, kite boards,

Golf carts, or others not listed above)

Guide service, tour, or outfitters (not listed above)

Admission to motion pictures, theaters, museums, musical performances, concerts, etc.

Admission to musical performances, concerts (not listed above)

Spa treatments

Fitness activities (gym fees, fitness classes/instruction)

MISCELLANEOUS EXPENDITURES

Film purchases

Film developing

Footwear

Clothing

Souvenirs and gifts (not clothing)

Barber, laundry, and other personal services

Telephone, copying, fax or other business services

Physician, dentist, or other medical services

Other, Specify _____

Next you will be asked your expenditures for each of the items where you said you made expenditures.

Please report your expenditures for each of the items to the nearest whole dollar. In Column A, put the total amount of money you spent on the item, regardless of where you spent it. In Column B, report only the amount

you spent while in Puerto Rico.

EXAMPLE: Joe and Jane Smith purchase roundtrip tickets to Puerto Rico on-line at \$400 each, for a total of \$800. Their total amount spent for the trip was \$800 (Column A). The amount spent while in Puerto Rico was \$0 (Column B).

Item	Column A: Total amount spent on this trip	Column B: Of the amount in Column A, how much did you spend in Puerto Rico?
TRANSPORTATION		
Airline Fare		
a. Package tour		
b. Any other airline fare	800	0

Item	Column A: Total amount spent on this trip	Column B: Of the amount in Column A, how much did you spend in Puerto Rico?

Section 2 – ANNUAL VACATION AND EQUIPMENT PURCHASES

This section asks about money people spent on recreational equipment, boat storage, time-share and condo fees and related purchases over the past 12 months.

D2-1. During the past 12 months, how many times did you take a trip away from home for a boating-related activity (sailing, waterskiing, canoeing, fishing from a boat, motor boating, SCUBA diving, jet skiing, etc.)?
D2-2. Of these trips, how many were to some place outside Puerto Rico? (number of times)
D2-3. For which of the following items have you made a purchase or made an expenditure in the past 12 months. Please include purchases you made anywhere. (radio buttons to be programmed for next section).

MAJOR RECREATIONAL EQUIPMENT

Diving or snorkeling equipment
Fishing rods and reels
Cameras and other photo gear
Binoculars and other viewing equipment

Diffoculars and other viewing

BOATING EQUIPMENTNew motorized boats or jet skis/wave runners

New non-motorized boats (sailboats, row boats, canoes, kayaks, etc.)

New boat engines

New sails or rigging

New boat trailer

Boat storage and marina fees

Other boating expenses

ANNUAL LODGING-RELATED FEESCondo and time-share fees

RV or trailer park fees

D2-4 For each of the items where you made purchases or expenditures, indicate in Column A the total amount of money you spent on that equipment in the past 12 months. In Column B, report the total amount of purchases you made just in the county or city where you live. In Column C, report the total amount of purchases you made in Puerto Rico.

EXAMPLE: Joe and Jane Smith purchased a boat for \$17,000 from a dealer at their home in New York last summer. They also purchased a jet ski for \$12,000 from a dealer in Puerto Rico. Here is how they would report these expenditures.

Item	Column A:	Column B:	Column C:
	Total purchases in	Purchases in home county	Purchases in Puerto
	past 12 months	or city	Rico
BOATING EQUIPMENT			
New motorized boats or jet skis	29,000	17,000	12,000

Item	Column A:	Column B:	Column C:
	Total purchases in past 12	Purchases in home county	Purchases in Puerto Rico
	months	or city.	

PART E: Economic Valuation of Puerto Rico's Coral Reef Ecosystems

In this section of the survey, we will first present to you some definitions and scientific facts about Puerto Rico's coral reef ecosystems. We will then present you with different reef conditions and the cost to your household to achieve those conditions. We will then ask you to choose among a set of different conditions and the cost to your household. You can think of this like you think about buying a car or a house, which would have many different features at different costs.

First, here are some photographs of the kinds of features or attributes one might see on Puerto Rico's coral reef ecosystems.

(put in photos).

Here are some definitions of what we mean by coral reefs and coral reef ecosystems; what the conditions of coral reefs are; the current and future health of Puerto Rico's coral reef ecosystems; and the problems and possible management solutions.

Definitions

- Coral reefs are colonies of connected skeletons of millions of small animals called corals.
- <u>Coral reef ecosystems</u> include the coral reefs, neighboring areas of sea bottom, ocean waters, sponges, algae, seagrasses and mangroves.
- <u>Coral reef ecosystems</u> provide a place to live for many ocean species including, fish, sea turtles, conchs, lobsters, crabs, sponges, urchins, sea plants and marine mammals like dolphins and manatees.
- Most coral reef ecosystems in Puerto Rico are in water less than 60 feet deep.

Conditions

- Research by the U.S. Environmental Protection Agency (EPA) and the National Oceanic and Atmospheric Administration (NOAA) has measured the abundance and diversity (number of different species) of stony corals, soft corals, sponges, fish, and macroinvertebrates (conch, spiny lobster, and urchins) on Puerto Rico's coral reefs.
- Measures of abundance and diversity were measured on how much was there per square meter of coral reef area.
- For abundance, the following measures were taken:
 - <u>Stony corals</u>: Percent (%) of hard-bottom covered per square meter and percent of the coral tissue is alive.
 - Soft corals and Sponges: Square centimeters per square meter of reef area.
 - Fish: Number per square meter.

Fish were classified into fish people eat (consumptive) and fish that people just view (Tropical/Ornamental fish). A few fish that normally would be classified as consumptive were not counted as consumptive because of ciguatera poisoning. Fish were also classified as Sport/Trophy fish (Ladyfish, Permit, Bonefish, Tarpon, Barracuda, Jacks). Some of these may be known to have ciguatera poisoning but are still fun to catch.

- Consumptive fish: Puerto Rico has only a few species with limits on length to be legal for keeping (Yellowtail Snapper, White Grunt, Silk Snapper, and Black Snapper). Some are permanently closed to fishing (Nassau Grouper and Goliath Grouper). Still others have closed seasons (Silk, Vermillion, Black and Blackfin Snappers Oct. Dec.; Mutton and Lane Snappers April-May; Red Hind Dec. Feb.). We present the number of consumptive fish that meet legal size for keeping per square meter of reef area.
- Tropical/Ornamental fish: Number of fish per square meter.
- <u>Sport/Trophy fish</u>: Opportunity to catch or see trophy fish on the entire reef <u>not</u> the number per square meter.
- <u>Macroinvertebrates (conchs, spiny lobsters, and urchins)</u>: The number per square meter. For <u>conchs</u>, the maximum number observed was 3 per square meter, while for <u>spiny lobster</u>, the maximum observed was 1 per square meter. Urchins tend to be observed in much higher numbers. For Longspined urchins, the maximum observed was 8 per square meter, while for smaller species of urchins as many as 37 per square meter have been observed. Seasonal closure of Queen Conch is July Sept.

Health of the Reefs

- Urchins are known to increase the health of reefs for stony corals.
- Stony corals predominate in the healthiest reefs.
- <u>Soft Corals</u> and <u>Sponges</u> tend to dominate in reef areas where the water quality is relatively poor. Scientists have found that soft corals and sponges are more able than <u>stony corals</u> to thrive in relatively poor water quality and move into places where <u>stony corals</u> have died.
- <u>Soft Corals</u> and <u>Sponges</u> are often very colorful, serve as important habitat for fish, and help improve water quality by filtering nutrients thereby reducing algal growth that can smother reefs and improving water clarity/visibility
- Most of the coral reef ecosystems in Puerto Rico are currently in a poor or fair condition.
 Overfishing, water pollution, careless anchoring, and sediments from runoff from development and agricultural areas have been the most important factors damaging the coral reef ecosystems.

Problems and Management Solutions

- If <u>current management practices</u> continue in the future (<u>Status Quo</u>), in 10 to 20 years scientists expect that all but the few areas that are receiving special protection will be in a poor or <u>low condition</u> with respect to the corals, sponges, fish, and water clarity/visibility. If rules and regulations are not enforced even the specially protected areas will be in poor or low condition.
- If <u>management is changed</u> to improve reef conditions, it will require both public and private investments to protect and restore the coral reef ecosystems, which would include enforcement of rules and regulations.
- In the next section of the survey, you will be presented with several sets of coral reef ecosystem conditions. There is an estimated cost to your household per year that would be required to achieve each condition.
- The <u>cost per year</u> is based on the costs that will be paid by businesses and households to pay for investments that protect and restore the coral reef ecosystems like improved sewage treatment, filtering and cleaning urban run-off, erosion control from agricultural areas and development projects, installation of mooring buoys to protect reefs from anchor damage, restoration of reefs, and enforcement of rules and regulations.
- The <u>costs per year</u> would be paid by all residents and visitors to Puerto Rico through increased prices of goods and services. This might also include increases in local sales taxes to cover government costs to pay for protection and restoration.

- The <u>Option A: Status Quo</u> (No change in management), will cost your household nothing (\$0 per year), but will result in <u>low reef conditions</u> on all of Puerto Rico's coral reef ecosystems, except for the few specially protected areas if rules and regulations are enforced.
- You will always have the option of choosing the Status Quo (Option A).

Before we get started on presenting to you the choices we are asking you to make, here are three illustrations showing coral reef ecosystem conditions where all conditions are at a high level, a medium level and a low level. You will be presented with different mixes of these conditions for different attributes of the reefs and the corresponding costs to your household of achieving these conditions.

Insert illustrations

Low, Medium and High Conditions for Reefs

Crowding: Beaches and Reefs

Choice 1

Option A: Status Quo – No	Option B: Coral Reefs In	Option C: Coral Reefs in
changes in management	Medium Level of Condition	High Level of Condition
Corals and Sponges	Corals and Sponges	Corals and Sponges
No stony corals, only soft	Up to 4 species of stony corals	5 to 17 species of stony corals
corals and sponges	covering 5 to 20% of hard-	covering more than 20% and
	bottom with 60 to 90% live	up to 100% of hard-bottom
	coral tissue.	with over 90% to 100% live
		coral tissue.
Up to 4 species of soft corals	Up to 3 species of soft corals	1 species of soft corals for a
for a total of 14 to 25 square	for a total of 4 to 14 square	total of less than 4 square
centimeters per square meter	centimeters per square meter.	centimeters per square meter.
Up to 4 species of sponges for	Up to 3 species of sponges for	1 species of sponges for a total
a total of 7 to 15 square	a total of 2 to 7 square	of less than 2 square
centimeters per square meter	centimeters per square meter.	centimeters per square meter.
Fish and Wildlife	Fish and Wildlife	Fish and Wildlife
Up to two species of	3 to 6 species of consumptive	Up to 15 species of
consumptive fish for a total of	fish for a total of 10 fish per	consumptive fish for a total of
3 fish per square meter with	square meter with up to 50%	100 or more fish per square
no fish of legal size to keep	of legal size to keep.	meter with 75 to 100% of
		legal size to keep.
Up to 3 species of	4 to 10 species of	25 to 30 species of
tropical/ornamental fish with a	tropical/ornamental fish with a	tropical/ornamental fish for a
total of 3 fish per square meter	total of 10 fish per square	total of 20 to 100 or more fish
27.26	meter.	per square meter.
No Macroinvertebrates	1 species of	2 or more species of
(conch, lobster or urchins)	Macroinvertebrates (urchins)	Macroinvertebrates (conch,
	with 1 to 20 per square meter.	lobster or urchins) with 20 or
		more per square meter (mostly urchins).
No opportunity to see large	No opportunity to see large	Opportunity to see large
wildlife (sharks, rays, turtles,	wildlife (sharks, rays, turtles,	wildlife (sharks, rays, turtles,
manatees, dolphins)	manatees, dolphins)	manatees, dolphins)
No opportunity to see or catch	No opportunity to see or catch	Opportunity to catch or see
Sport/Trophy fish (ladyfish,	Sport/Trophy fish (ladyfish,	Sport/Trophy fish (ladyfish,
permit, bonefish, tarpon,	permit, bonefish, tarpon,	permit, bonefish, tarpon,
snook, jacks)	snook, jacks)	snook, jacks)
Water Conditions	Water Conditions	Water Conditions
Clarity/Visibility: Less than	Clarity/Visibility: 10 to 50 feet	Clarity/Visibility: Greater than
10 feet		50 feet
Cleanliness: Not healthy for	Cleanliness: healthy for	Cleanliness: healthy for
swimming	swimming	swimming
Depth of Reefs: Greater than	Depth of Reefs: 20 to 60 feet	Depth of Reefs: less than 20
60 feet		feet
Crowdedness: 21 or more	Crowdedness: 11 to 20	Crowdedness: 0 to 10 people
people	people	
\$0	\$	\$
(Cost to your household per	(Cost to your household per	(Cost to your household per
year)	year)	year)

E1. Which option do you prefer? $__A$ $__B$ $__C$

E2. How many days would you use Puerto Rico's Coral reefs under the reef conditions for the option you preferred? ____ (number of days)
E3. Please provide a brief comment that helps us to understand why you chose the option you most preferred.

E4. How sure are you that the option you chose as your most preferred among the three options is your most preferred (radio buttons 1=not sure at all, 2=slightly sure, 3=moderately sure, 4=very sure, 5=extremely sure) **Choice 2**

Option A: Status Quo – No	Option B : 6M & 6H	Option C: 6H & 6M
changes in management		
Corals and Sponges	Corals and Sponges	Corals and Sponges
No stony corals, only soft	M:.Up to 4 species of stony	H: 5 to 17 species of stony
corals and sponges	corals covering 5 to 20% of	corals covering more than
	hard-bottom with 60 to 90%	20% and up to 100% of hard-
	live coral tissue.	bottom with over 90% to
		100% live coral tissue.
Up to 4 species of soft corals	M: Up to 3 species of soft	H: 1 species of soft corals for
for a total of 14 to 25 square	corals for a total of 4 to 14	a total of less than 4 square
centimeters per square meter	square centimeters per square	centimeters per square meter.
	meter.	
Up to 4 species of sponges for	M: Up to 3 species of sponges	H: 1 species of sponges for a
a total of 7 to 15 square	for a total of 2 to 7 square	total of less than 2 square
centimeters per square meter	centimeters per square meter.	centimeters per square meter.
Fish and Wildlife	Fish and Wildlife	Fish and Wildlife
Up to two species of	M: 3 to 6 species of	H: Up to 15 species of
consumptive fish for a total of	consumptive fish for a total of	consumptive fish for a total of
3 fish per square meter with	10 fish per square meter with	100 or more fish per square
no fish of legal size to keep	up to 50% of legal size to	meter with 75 to 100% of
	keep.	legal size to keep.
Up to 3 species of	M: 4 to 10 species of	H: 25 to 30 species of
tropical/ornamental fish with a	tropical/ornamental fish with a	tropical/ornamental fish for a
total of 3 fish per square meter	total of 10 fish per square	total of 20 to 100 or more fish
	meter.	per square meter.
No Macroinvertebrates	M: 1 species of	H: 2 or more species of
(conch, lobster or urchins)	Macroinvertebrates (urchins)	Macroinvertebrates (conch,
	with 1 to 20 per square meter.	lobster or urchins) with 20 or
		more per square meter (mostly
		urchins).
No opportunity to see large	H: Opportunity to see large	M: No opportunity to see
wildlife (sharks, rays, turtles,	wildlife (sharks, rays, turtles,	large wildlife (sharks, rays,
manatees, dolphins)	manatees, dolphins)	turtles, manatees, dolphins)
No opportunity to see or catch	H: Opportunity to catch or	M: No opportunity to see or
Sport/Trophy fish (ladyfish,	see Sport/Trophy fish	catch Sport/Trophy fish
permit, bonefish, tarpon,	(ladyfish, permit, bonefish,	(ladyfish, permit, bonefish,
snook, jacks)	tarpon, snook, jacks)	tarpon, snook, jacks)
Water Conditions	Water Conditions	Water Conditions
Clarity/Visibility: Less than	H: Clarity/Visibility: Greater	M : Clarity/Visibility: 10 to 50
10 feet	than 50 feet	feet III III III f
Cleanliness: Not healthy for	H: Cleanliness: Healthy for	M: Cleanliness: Healthy for
swimming	swimming	swimming
Depth of Reefs: Greater than	H: Depth of Reefs: Less than	M: Depth of Reefs: 20 to 60

60 feet	20 feet	feet
Crowdedness: 21 or more	H: Crowdedness: 0 to 10	M: Crowdedness: 11 to 20
people	people	people
\$0	\$	\$
(Cost to your household per	(Cost to your household per	(Cost to your household per
year)	vear)	year)

E5.	Which	option	do	you	prefer?	A	B	C
-----	-------	--------	----	-----	---------	---	---	---

E6. How many days would you use Puerto Rico's Coral reefs under the reef conditions for the option you preferred? _____ (number of days)

E7. Please provide a brief comment that helps us to understand why you chose the option you most preferred.

E8. How sure are you that the option you chose as your most preferred among the thre options is your most preferred (radio buttons 1=not sure at all, 2=slightly sure, 3=moderately sure, 4=very sure, 5=extremely sure) **Choice 3**

Option A: Status Quo – No	Option B: 6L and 6H	Option C: 6 H and 6L
changes in management		
Corals and Sponges	Corals and Sponges	Corals and Sponges
No stony corals, only soft	L: No stony corals, only soft	H: 5 to 17 species of stony
corals and sponges	corals and sponges	corals covering more than
		20% and up to 100% of hard-
		bottom with over 90% to
		100% live coral tissue.
Up to 4 species of soft corals	L: Up to 4 species of soft	H: 1 species of soft corals for
for a total of 14 to 25 square	corals for a total of 14 to 25	a total of less than 4 square
centimeters per square meter	square centimeters per square	centimeters per square meter.
	meter	
Up to 4 species of sponges for	L: Up to 4 species of sponges	H: 1 species of sponges for a
a total of 7 to 15 square	for a total of 7 to 15 square	total of less than 2 square
centimeters per square meter	centimeters per square meter	centimeters per square meter.
Fish and Wildlife	Fish and Wildlife	Fish and Wildlife
Up to two species of	L: Up to two species of	H : Up to 15 species of
consumptive fish for a total of	consumptive fish for a total of	consumptive fish for a total of
3 fish per square meter with	3 fish per square meter with	100 or more fish per square
no fish of legal size to keep	no fish of legal size to keep	meter with 75 to 100% of
		legal size to keep.
Up to 3 species of	L: Up to 3 species of	H: 25 to 30 species of
tropical/ornamental fish with a	tropical/ornamental fish with a	tropical/ornamental fish for a
total of 3 fish per square meter	total of 3 fish per square meter	total of 20 to 100 or more fish
		per square meter.
No Macroinvertebrates	L: No Macroinvertebrates	H: 2 or more species of
(conch, lobster or urchins)	(conch, lobster or urchins)	Macroinvertebrates (conch,
		lobster or urchins) with 20 or
		more per square meter (mostly
		urchins).
No opportunity to see large	H: Opportunity to see large	L: No opportunity to see
wildlife (sharks, rays, turtles,	wildlife (sharks, rays, turtles,	large wildlife (sharks, rays,
manatees, dolphins)	manatees, dolphins)	turtles, manatees, dolphins)
No opportunity to see or catch	H: Opportunity to catch or see	L: No opportunity to see or
Sport/Trophy fish (ladyfish,	Sport/Trophy fish (ladyfish,	catch Sport/Trophy fish

permit, bonefish, tarpon,	permit, bonefish, tarpon,	(ladyfish, permit, bonefish,
snook, jacks)	snook, jacks)	tarpon, snook, jacks)
Water Conditions	Water Conditions	Water Conditions
Clarity/Visibility: Less than	H: Clarity/Visibility: Greater	L: Clarity/Visibility: Less
10 feet	than 50 feet	than 10 feet
Cleanliness: Not healthy for	H: Cleanliness: Healthy for	L: Cleanliness: Not healthy
swimming	swimming	for swimming
Depth of Reefs: Greater than	H: Depth of Reefs: less than	L: Depth of Reefs: Greater
60 feet	20 feet	than 60 feet
Crowdedness: 21 or more	H: Crowdedness: 0 to 10	L: Crowdedness: 21 or more
people	people	people
\$0	\$	\$
(Cost to your household per	(Cost to your household per	(Cost to your household per
year)	year)	year)

E9. Which option do you prefer?ABC
E10. How many days would you use Puerto Rico's Coral reefs under the reef conditions for the option you
preferred? (number of days)
E11. Please provide a brief comment that helps us to understand why you chose the option you most preferred.

E12. How sure are you that the option you chose as your most preferred among the three options is your most preferred (radio buttons 1=not sure at all, 2=slightly sure, 3=moderately sure, 4=very sure, 5=extremely sure) **Choice 4**

Choice 4		
Option A: Status Quo – No	Option B: 6L and 6 M	Option C: 6M and 6 L
changes in management		
Corals and Sponges	Corals and Sponges	Corals and Sponges
No stony corals, only soft	L: No stony corals, only soft	M: Up to 4 species of stony
corals and sponges	corals and sponges	corals covering 5 to 20% of
		hard-bottom with 60 to 90%
		live coral tissue.
Up to 4 species of soft corals	L: Up to 4 species of soft	M: Up to 3 species of soft
for a total of 14 to 25 square	corals for a total of 14 to 25	corals for a total of 4 to 14
centimeters per square meter	square centimeters per square	square centimeters per square
	meter	meter
Up to 4 species of sponges for	L: Up to 4 species of sponges	M: Up to 3 species of
a total of 7 to 15 square	for a total of 7 to 15 square	sponges for a total of 2 to 7
centimeters per square meter	centimeters per square meter	square centimeters per square
		meter.
Fish and Wildlife	Fish and Wildlife	Fish and Wildlife
Up to two species of	L: Up to two species of	M: 3 to 6 species of
consumptive fish for a total of	consumptive fish for a total of	consumptive fish for a total of
3 fish per square meter with	3 fish per square meter with	10 fish per square meter with
no fish of legal size to keep	no fish of legal size to keep	up to 50% of legal size to
	_	keep.
Up to 3 species of	L: Up to 3 species of	M: 4 to 10 species of
tropical/ornamental fish with a	tropical/ornamental fish with a	tropical/ornamental fish with a
total of 3 fish per square meter	total of 3 fish per square meter	total of 10 fish per square
		meter.
No Macroinvertebrates	L: No Macroinvertebrates	M: 1 species of
(conch, lobster or urchins)	(conch, lobster or urchins)	Macroinvertebrates (urchins)

		with 1 to 20 per square meter.
No opportunity to see large	M: No opportunity to see	L: No opportunity to see
wildlife (sharks, rays, turtles,	large wildlife (sharks, rays,	large wildlife (sharks, rays,
manatees, dolphins)	turtles, manatees, dolphins)	turtles, manatees, dolphins)
No opportunity to see or catch	M : No opportunity to see or	L: No opportunity to see or
Sport/Trophy fish (ladyfish,	catch Sport/Trophy fish	catch Sport/Trophy fish
permit, bonefish, tarpon,	(ladyfish, permit, bonefish,	(ladyfish, permit, bonefish,
snook, jacks)	tarpon, snook, jacks)	tarpon, snook, jacks)
Water Conditions	Water Conditions	Water Conditions
Clarity/Visibility: Less than	M: Clarity/Visibility: 10 to 50	L: Clarity/Visibility: Less than
10 feet	feet	10 feet
Cleanliness: Not healthy for	M: Cleanliness: Healthy for	L: Cleanliness: Not healthy
swimming	swimming	for swimming
Depth of Reefs: Greater than	M: Depth of Reefs: 20 to 60	L: Depth of Reefs: Greater
60 feet	feet	than 60 feet
Crowdedness: 21 or more	M: Crowdedness: 11 to 20	L: Crowdedness: 21 or more
people	people	people
\$0	\$	\$
(Cost to your household per	(Cost to your household per	(Cost to your household per
year)	year)	year)

E15.	Please pro	ovide a brief comn	nent that help	s us to und	erstand why yo	ou chose the option	on you most preferred.
prefer	rred?	_ (number of days))				
E14.]	How many	y days would you	use Puerto Ri	co's Coral	reefs under the	reef conditions	for the option you
E13.	Which op	tion do you prefer	?A	ВС			

- E16. How sure are you that the option you chose as your most preferred among the three options is your most preferred (radio buttons 1=not sure at all, 2=slightly sure, 3=moderately sure, 4=very sure, 5=extremely sure)
- E17. 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.

If you had to choose, would you prefer to pay for new environmental programs through higher income taxes or through higher prices? (radio buttons 1=though higher income taxes, 2=through higher prices, 3=no preference).

- E18. Who do you think should manage the additional funding obtained for reef management? (radio buttons 1=Federal government, 2=Territorial government, 3=Non-government Organization like The Nature Conservancy or Protectores de Cuencas, a local organization, 4= Other (specify)______
- E19. Would you say you think of yourself as (radio buttons 1=not an environmentalist at all, 2=slightly an environmentalist, 3=moderate environmentalist, 4=a strong environmentalist, 5=very strong environmentalist).
- E20. We would like to learn more about how you reacted to the questions that asked you to choose between various options of reef conditions. For each of the statement below, tells us how strongly you agree or disagree with each statement. (use radio buttons 1=Strongly Disagree, 2=Somewhat Disagree, 3=Neither Agree of Disagree, 4=Somewhat Agree, 5=Strongly Agree).

E20a. Costs should not be a factor when protecting the environment.
E20b. I found it difficult to select an option of reef conditions I preferred.
E20c. I was concerned that the Puerto Rico government cannot effectively manage coral reefs.
E20d. I should not have to pay more to protect or restore coral reefs in Puerto Rico.
E20e. 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.
E20. Please provide us any comments you would like to make to help us understand your views about coral reefs in Puerto Rico and your Reponses to this survey.

THANK YOU that concludes our survey. You will be entered into the sweepstakes/lottery to win a free vacation and other prizes. If your contact information changes, you can send your new information to Miguel.delpozo@upr.edu. Your contact information will be destroyed after the prizes are awarded.

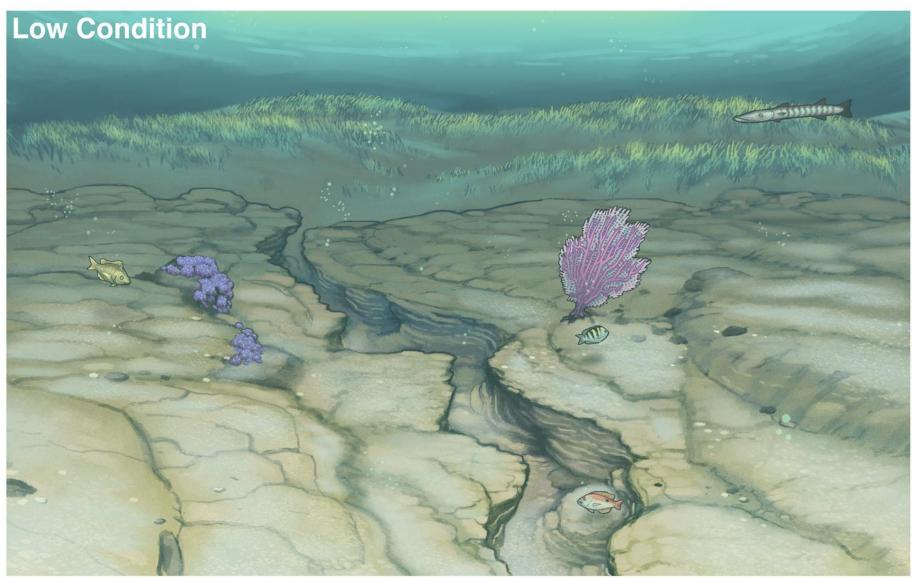


Illustration by Daniel Irizarri Oquendo

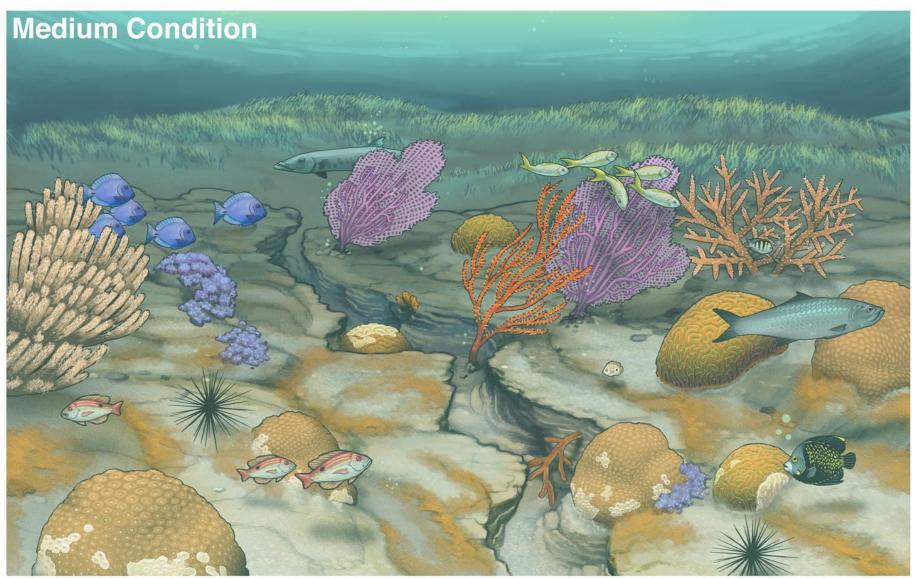


Illustration by Daniel Irizarri Oquendo

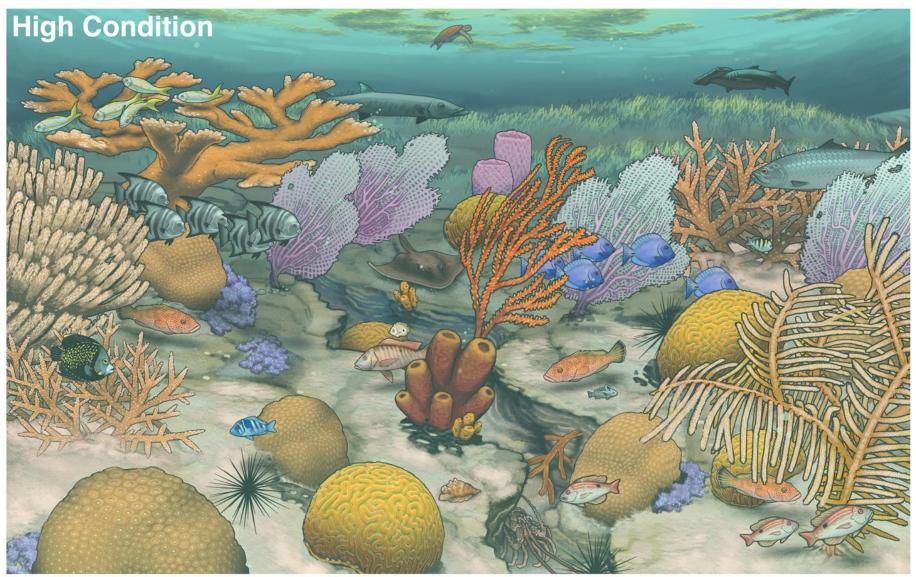
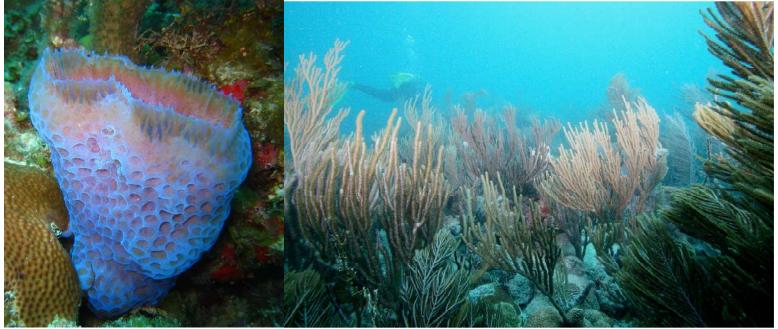


Illustration by Daniel Irizarri Oquendo

Stony Corals



Soft Corals and Sponges



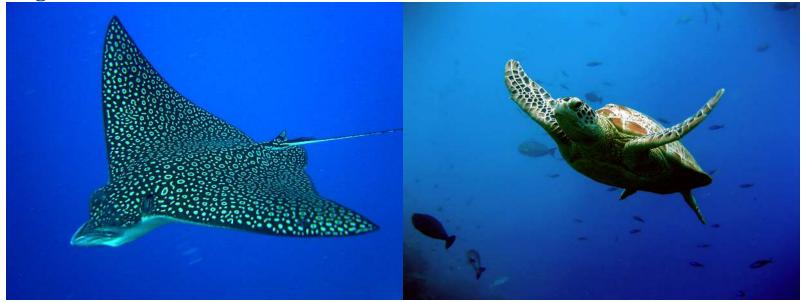
Reef Fish



Invertebrates



Mega Fauna









Puerto Rico Coral Reef Ecosystem Valuation

Choice Questions _Pre-test Bids: Internet Panel

For the pre-test there will be four choice sets in which respondents will choose between three options/alternatives. The same four choice sets are used in each version. The differences in versions are the prices/bids for each option. The Status Quo is included in each choice set and is labelled Option A and the dollar amount is always zero (\$). Each choice set also has a B and C option. Versions should be randomized across Internet Panel members. Below are the dollar amounts for each Option in each version.

Choice 1: A=Status Quo (all attributes in low condition), B (all attributes in medium condition), C (all attributes in high condition)

```
Version 1: Prices: A=$0, B=$500, C=$1,000
Version 2: Prices: A=$0, B=$250, C=$500
Version 3: Prices: A=$0, B=$125, C=$250
Version 4: Prices: A=$0, B=$60, C=$125
```

Choice 2: A=Status Quo (all attributes in low condition), B (6 attributes in medium and 6 attributes in high), C (6 attributes in high condition and 6 attributes in medium condition)

```
Version 1: Prices: A=$0, B=$750, C=$750
Version 2: Prices: A=$0, B=$375, C=$375
Version 3: Prices: A=$0, B=$190, C=$190
Version 4: Prices: A=$0, B=$95, C=$95
```

Choice 3: A=Status Quo (all attributes in low condition), B (6 attributes in low and 6 attributes in high), C (6 attributes in high condition and 6 attributes in low condition)

```
Version 1: Prices: A=$0, B=$500, C=$500
Version 2: Prices: A=$0, B=$250, C=$250
Version 3: Prices: A=$0, B=$125, C=$125
Version 4: Prices: A=$0, B=$60, C=$60
```

Choice 3: A=Status Quo (all attributes in low condition), B (6 attributes in low and 6 attributes in medium), C (6 attributes in medium condition and 6 attributes in low condition)

```
Version 1: Prices: A=$0, B=$250, C=$250
Version 2: Prices: A=$0, B=$125, C=$125
Version 3: Prices: A=$0, B=$60, C=$60
Version 4: Prices: A=$0, B=$30, C=$30
```

Pre-test options are purposely designed at the extremes to help design bid amounts for the final survey. Final survey will use options in choice sets based on a fractional factorial design.

Option A: Status Quo – No changes in management (All Low Conditions)	Option B	Option C
Corals and Sponges	Corals and Sponges	Corals and Sponges
No stony corals, only soft corals and	H: 5 to 17 species of stony corals	M: Up to 4 species of stony corals
sponges	covering more than 20% and up to 100%	covering 5 to 20% of hard-bottom with 60
	of hard-bottom with over 90% to 100%	to 90% live coral tissue.
	live coral tissue.	
Up to 4 species of soft corals for a total of	L: Up to 4 species of soft corals for a	M: Up to 3 species of soft corals for a
14 to 25 square centimeters per square meter	total of 14 to 25 square centimeters per	total of 4 to 14 square centimeters per
	square meter	square meter.
Up to 4 species of sponges for a total of 7 to	Up to 4 species of sponges for a total of 7	Up to 3 species of sponges for a total of 2
15 square centimeters per square meter	to 15 square centimeters per square meter	to 7 square centimeters per square meter.
Fish and Wildlife	Fish and Wildlife	Fish and Wildlife
Up to two species of consumptive fish for a	H: Up to 15 species of consumptive fish	M: 3 to 6 species of consumptive fish for
total of 3 fish per square meter with no fish	for a total of 100 or more fish per square	a total of 10 fish per square meter with up
of legal size to keep	meter with 75 to 100% of legal size to	to 50% of legal size to keep.
	keep.	
Up to 3 species of tropical/ornamental fish	M: 4 to 10 species of tropical/ornamental	L: Up to 3 species of tropical/ornamental
with a total of 3 fish per square meter	fish with a total of 10 fish per square	fish with a total of 3 fish per square meter
	meter.	
No Macroinvertebrates (conch, lobster or	H: 2 or more species of	L: No Macroinvertebrates (conch, lobster
urchins)	Macroinvertebrates (conch, lobster or	or urchins)
	urchins) 1 lobster, 1 conch, and 20 or	
	more urchins per square meter.	
No opportunity to see large wildlife (sharks,	H: Opportunity to see large wildlife	L: No opportunity to see large wildlife
rays, turtles, manatees, dolphins)	(sharks, rays, turtles, manatees, dolphins)	(sharks, rays, turtles, manatees, dolphins)
No opportunity to see or catch Sport/Trophy	L: No opportunity to see or catch	H: Opportunity to see or catch
fish (ladyfish, permit, bonefish, tarpon,	Sport/Trophy fish (ladyfish, permit,	Sport/Trophy fish (ladyfish, permit,
snook, jacks)	bonefish, tarpon, snook, jacks)	bonefish, tarpon, snook, jacks)
Water Conditions	Water Conditions	Water Conditions
Clarity/Visibility: Less than 10 feet	H: Clarity/Visibility: Greater than 50	L: Clarity/Visibility: Less than 10 feet
Cl. 1: N. 1. 141 C.	feet	TT TT 1.1 C
Cleanliness: Not healthy for swimming	H: Healthy for swimming	H: Healthy for swimming
Depth of Reefs: Greater than 60 feet	H: Depth of Reefs: less than 20 feet	M: Depth of Reefs: 20 to 60 feet
Crowdedness: 21 or more people	H: Crowdedness: 0 to 10 people	M: Crowdedness: 11 to 20 people
\$0	2	4
(Cost to your household per year)	(Cost to your household per year)	(Cost to your household per year)

Option A: Status Quo – No changes in	Option B	Option C
management (All Low Conditions) Corals and Sponges	Corals and Sponges	Corals and Sponges
No stony corals, only soft corals and	H: 5 to 17 species of stony corals	L: No stony corals, only soft corals and
sponges	covering more than 20% and up to 100%	sponges
sponges	of hard-bottom with over 90% to 100%	sponges
	live coral tissue.	
Up to 4 species of soft corals for a total of	M: Up to 3 species of soft corals for a	H: 1 species of soft corals for a total of
14 to 25 square centimeters per square meter	total of 4 to 14 square centimeters per	less than 4 square centimeters per square
14 to 25 square contineters per square meter	square meter.	meter.
Up to 4 species of sponges for a total of 7 to	Up to 3 species of sponges for a total of 2	1 species of sponges for a total of less
15 square centimeters per square meter	to 7 square centimeters per square meter.	than 2 square centimeters per square
	re a dame comment by a dame commen	meter.
Fish and Wildlife	Fish and Wildlife	Fish and Wildlife
Up to two species of consumptive fish for a	H: Up to 15 species of consumptive fish	L: Up to two species of consumptive fish
total of 3 fish per square meter with no fish	for a total of 100 or more fish per square	for a total of 3 fish per square meter with
of legal size to keep	meter with 75 to 100% of legal size to	no fish of legal size to keep
	keep.	
Up to 3 species of tropical/ornamental fish	H: 25 to 30 species of	M: 4 to 10 species of tropical/ornamental
with a total of 3 fish per square meter	tropical/ornamental fish for a total of 20	fish with a total of 10 fish per square
	to 100 or more fish per square meter.	meter.
No Macroinvertebrates (conch, lobster or	L: No Macroinvertebrates (conch,	M: 1 species of Macroinvertebrates with
urchins)	lobster or urchins)	1 to 20 per square meter (urchins).
No opportunity to see large wildlife (sharks,	L: No opportunity to see large wildlife	H: Opportunity to see large wildlife
rays, turtles, manatees, dolphins)	(sharks, rays, turtles, manatees, dolphins)	(sharks, rays, turtles, manatees, dolphins)
No opportunity to see or catch Sport/Trophy	H: Opportunity to see or catch	H: Opportunity to see or catch
fish (ladyfish, permit, bonefish, tarpon,	Sport/Trophy fish (ladyfish, permit,	Sport/Trophy fish (ladyfish, permit,
snook, jacks)	bonefish, tarpon, snook, jacks)	bonefish, tarpon, snook, jacks)
Water Conditions	Water Conditions	Water Conditions
Clarity/Visibility: Less than 10 feet	L: Clarity/Visibility: Less than 10 feet	H: Clarity/Visibility: Greater than 50
		feet
Cleanliness: Not healthy for swimming	H: Cleanliness: Not healthy for	H: Cleanliness: Healthy for swimming
	swimming	
Depth of Reefs: Greater than 60 feet	H: Depth of Reefs: less than 20 feet	L: Depth of Reefs: Greater than 60 feet
Crowdedness: 21 or more people	H: Crowdedness: 0 to 10 people	L: Crowdedness: 21 or more people
\$0	3	1
(Cost to your household per year)	(Cost to your household per year)	(Cost to your household per year)

Option A: Status Quo – No changes in management (All Low Conditions)	Option B	Option C
Corals and Sponges	Corals and Sponges	Corals and Sponges
No stony corals, only soft corals and sponges	H: 5 to 17 species of stony corals covering more than 20% and up to 100% of hard-bottom with over 90% to 100%	M: Up to 4 species of stony corals covering 5 to 20% of hard-bottom with 60 to 90% live coral tissue.
Up to 4 species of soft corals for a total of 14 to 25 square centimeters per square meter Up to 4 species of sponges for a total of 7 to 15 square centimeters per square meter	live coral tissue. H: 1 species of soft corals for a total of less than 4 square centimeters per square meter. 1 species of sponges for a total of less than 2 square centimeters per square	M: Up to 3 species of soft corals for a total of 4 to 14 square centimeters per square meter. Up to 3 species of sponges for a total of 2 to 7 square centimeters per square meter.
Fish and Wildlife	meter. Fish and Wildlife	Fish and Wildlife
Up to two species of consumptive fish for a total of 3 fish per square meter with no fish of legal size to keep	L: Up to two species of consumptive fish for a total of 3 fish per square meter with no fish of legal size to keep	H: Up to 15 species of consumptive fish for a total of 100 or more fish per square meter with 75 to 100% of legal size to keep.
Up to 3 species of tropical/ornamental fish with a total of 3 fish per square meter	H: 25 to 30 species of tropical/ornamental fish for a total of 20 to 100 or more fish per square meter.	L: Up to 3 species of tropical/ornamental fish with a total of 3 fish per square meter
No Macroinvertebrates (conch, lobster or urchins)	H: 2 or more species of Macroinvertebrates (conch, lobster or urchins) 1 lobster, 1 conch, and 20 or more urchins per square meter.	M: 1 species of Macroinvertebrates with 1 to 20 per square meter (urchins).
No opportunity to see large wildlife (sharks, rays, turtles, manatees, dolphins)	H: Opportunity to see large wildlife (sharks, rays, turtles, manatees, dolphins)	L: No opportunity to see large wildlife (sharks, rays, turtles, manatees, dolphins)
No opportunity to see or catch Sport/Trophy fish (ladyfish, permit, bonefish, tarpon, snook, jacks) Water Conditions	L: No opportunity to see or catch Sport/Trophy fish (ladyfish, permit, bonefish, tarpon, snook, jacks) Water Conditions	H: Opportunity to catch or see Sport/Trophy fish (ladyfish, permit, bonefish, tarpon, snook, jacks) Water Conditions
Clarity/Visibility: Less than 10 feet Cleanliness: Not healthy for swimming	M: Clarity/Visibility: 10 to 50 feet L: Cleanliness: Not healthy for swimming	H: Clarity/Visibility: Greater than 50 feet H: Cleanliness: Healthy for swimming
Depth of Reefs: Greater than 60 feet	L: Depth of Reefs: Greater than 60 feet	H: Depth of Reefs: less than 20 feet
Crowdedness: 21 or more people	L: Crowdedness: 21 or more people	H: Crowdedness: 0 to 10 people
\$0	4	6
(Cost to your household per year)	(Cost to your household per year)	(Cost to your household per year)

Option A: Status Quo – No changes in management (All Low Conditions)	Option B	Option C
Corals and Sponges	Corals and Sponges	Corals and Sponges
No stony corals, only soft corals and sponges	M: Up to 4 species of stony corals covering 5 to 20% of hard-bottom with 60 to 90% live coral tissue.	L: No stony corals, only soft corals and sponges
Up to 4 species of soft corals for a total of 14 to 25 square centimeters per square meter	L: Up to 4 species of soft corals for a total of 14 to 25 square centimeters per square meter	M: Up to 3 species of soft corals for a total of 4 to 14 square centimeters per square meter.
Up to 4 species of sponges for a total of 7 to 15 square centimeters per square meter	Up to 4 species of sponges for a total of 7 to 15 square centimeters per square meter	Up to 3 species of sponges for a total of 2 to 7 square centimeters per square meter.
Fish and Wildlife	Fish and Wildlife	Fish and Wildlife
Up to two species of consumptive fish for a total of 3 fish per square meter with no fish of legal size to keep	M: 3 to 6 species of consumptive fish for a total of 10 fish per square meter with up to 50% of legal size to keep.	L: Up to two species of consumptive fish for a total of 3 fish per square meter with no fish of legal size to keep
Up to 3 species of tropical/ornamental fish with a total of 3 fish per square meter	L: Up to 3 species of tropical/ornamental fish with a total of 3 fish per square meter	H: 25 to 30 species of tropical/ornamental fish for a total of 20 to 100 or more fish per square meter.
No Macroinvertebrates (conch, lobster or urchins)	M: No Macroinvertebrates (conch, lobster or urchins)	H: 2 or more species of Macroinvertebrates (conch, lobster or urchins) 1 lobster, 1 conch, and 20 or more urchins per square meter.
No opportunity to see large wildlife (sharks, rays, turtles, manatees, dolphins)	L: No opportunity to see large wildlife (sharks, rays, turtles, manatees, dolphins)	H: Opportunity to see large wildlife (sharks, rays, turtles, manatees, dolphins)
No opportunity to see or catch Sport/Trophy fish (ladyfish, permit, bonefish, tarpon, snook, jacks)	H: Opportunity to catch or see Sport/Trophy fish (ladyfish, permit, bonefish, tarpon, snook, jacks)	L: No opportunity to see or catch Sport/Trophy fish (ladyfish, permit, bonefish, tarpon, snook, jacks)
Water Conditions	Water Conditions	Water Conditions
Clarity/Visibility: Less than 10 feet	H: Clarity/Visibility: Greater than 50 feet	M: Clarity/Visibility: 10 to 50 feet
Cleanliness: Not healthy for swimming	H: Cleanliness: Healthy for swimming	H: Cleanliness: Healthy for swimming
Depth of Reefs: Greater than 60 feet	L: Depth of Reefs: Greater than 60 feet	M: Depth of Reefs: 20 to 60 feet
Crowdedness: 21 or more people	L: Crowdedness: 21 or more people	M: Crowdedness: 11 to 20 people
\$0	4	5
(Cost to your household per year)	(Cost to your household per year)	(Cost to your household per year)

Option A: Status Quo – No changes in management (All Low Conditions)	Option B	Option C
Corals and Sponges	Corals and Sponges	Corals and Sponges
No stony corals, only soft corals and sponges	H: Up to 4 species of stony corals covering 5 to 20% of hard-bottom with 60 to 90% live coral tissue.	M: Up to 4 species of stony corals covering 5 to 20% of hard-bottom with 60 to 90% live coral tissue.
Up to 4 species of soft corals for a total of 14 to 25 square centimeters per square meter	H: 1 species of soft corals for a total of less than 4 square centimeters per square meter.	M: Up to 3 species of soft corals for a total of 4 to 14 square centimeters per square meter.
Up to 4 species of sponges for a total of 7 to 15 square centimeters per square meter	1 species of sponges for a total of less than 2 square centimeters per square meter.	Up to 3 species of sponges for a total of 2 to 7 square centimeters per square meter.
Fish and Wildlife	Fish and Wildlife	Fish and Wildlife
Up to two species of consumptive fish for a total of 3 fish per square meter with no fish of legal size to keep	M: 3 to 6 species of consumptive fish for a total of 10 fish per square meter with up to 50% of legal size to keep.	L: Up to two species of consumptive fish for a total of 3 fish per square meter with no fish of legal size to keep
Up to 3 species of tropical/ornamental fish with a total of 3 fish per square meter	H: 25 to 30 species of tropical/ornamental fish for a total of 20 to 100 or more fish per square meter.	L: Up to 3 species of tropical/ornamental fish with a total of 3 fish per square meter
No Macroinvertebrates (conch, lobster or urchins)	M: 1 species of Macroinvertebrates with 1 to 20 per square meter (urchins).	H: 2 or more species of Macroinvertebrates (conch, lobster or urchins) 1 lobster, 1 conch, and 20 or more urchins per square meter.
No opportunity to see large wildlife (sharks, rays, turtles, manatees, dolphins)	L: No opportunity to see large wildlife (sharks, rays, turtles, manatees, dolphins)	L: No opportunity to see large wildlife (sharks, rays, turtles, manatees, dolphins)
No opportunity to see or catch Sport/Trophy fish (ladyfish, permit, bonefish, tarpon, snook, jacks)	H: Opportunity to catch or see Sport/Trophy fish (ladyfish, permit, bonefish, tarpon, snook, jacks)	H: Opportunity to catch or see Sport/Trophy fish (ladyfish, permit, bonefish, tarpon, snook, jacks)
Water Conditions	Water Conditions	Water Conditions
Clarity/Visibility: Less than 10 feet	L: Clarity/Visibility: Less than 10 feet	H: Clarity/Visibility: Greater than 50 feet
Cleanliness: Not healthy for swimming	H: Cleanliness: Healthy for swimming	L: Cleanliness: Not healthy for swimming
Depth of Reefs: Greater than 60 feet	L: Depth of Reefs: Greater than 60 feet	L: Depth of Reefs: Greater than 60 feet
Crowdedness: 21 or more people	L: Crowdedness: 21 or more people	L: Crowdedness: 21 or more people
\$0	5	1
(Cost to your household per year)	(Cost to your household per year)	(Cost to your household per year)

Option A: Status Quo – No changes in management (All Low Conditions)	Option B	Option C
Corals and Sponges	Corals and Sponges	Corals and Sponges
No stony corals, only soft corals and	L: No stony corals, only soft corals and	H: 5 to 17 species of stony corals
sponges	sponges	covering more than 20% and up to 100%
		of hard-bottom with over 90% to 100%
X	75. 77	live coral tissue.
Up to 4 species of soft corals for a total of	M: Up to 3 species of soft corals for a	L: Up to 4 species of soft corals for a
14 to 25 square centimeters per square meter	total of 4 to 14 square centimeters per	total of 14 to 25 square centimeters per
Up to 4 species of sponges for a total of 7 to	square meter. Up to 3 species of sponges for a total of 2	square meter Up to 4 species of sponges for a total of 7
Up to 4 species of sponges for a total of 7 to 15 square centimeters per square meter	to 7 square centimeters per square meter.	to 15 square centimeters per square meter
Fish and Wildlife	Fish and Wildlife	Fish and Wildlife
Up to two species of consumptive fish for a	M: 3 to 6 species of consumptive fish for	H: Up to 15 species of consumptive fish
total of 3 fish per square meter with no fish	a total of 10 fish per square meter with up	for a total of 100 or more fish per square
of legal size to keep	to 50% of legal size to keep.	meter with 75 to 100% of legal size to
of legal size to keep	to 50% of legal size to keep.	keep.
Up to 3 species of tropical/ornamental fish	L: Up to 3 species of	H: 25 to 30 species of
with a total of 3 fish per square meter	tropical/ornamental fish with a total of 3	tropical/ornamental fish for a total of 20
	fish per square meter	to 100 or more fish per square meter.
No Macroinvertebrates (conch, lobster or	H: 2 or more species of	M: 1 species of Macroinvertebrates with
urchins)	Macroinvertebrates (conch, lobster or	1 to 20 per square meter (urchins).
	urchins) with 20 or more per square meter	
	(mostly urchins).	
No opportunity to see large wildlife (sharks,	L: No opportunity to see large wildlife	H: Opportunity to see large wildlife
rays, turtles, manatees, dolphins) No opportunity to see or catch Sport/Trophy	(sharks, rays, turtles, manatees, dolphins) L: No opportunity to see or catch	(sharks, rays, turtles, manatees, dolphins) H: Opportunity to catch or see
fish (ladyfish, permit, bonefish, tarpon,	Sport/Trophy fish (ladyfish, permit,	Sport/Trophy fish (ladyfish, permit,
snook, jacks)	bonefish, tarpon, snook, jacks)	bonefish, tarpon, snook, jacks)
Water Conditions	Water Conditions	Water Conditions
Clarity/Visibility: Less than 10 feet	H: Clarity/Visibility: Greater than 50	M: Clarity/Visibility: 10 to 50 feet
Canada, Asianta, Ecos and To rest	feet	2.22 Camily, (1910)111; 10 to 20 1001
Cleanliness: Not healthy for swimming	H: Cleanliness: Healthy for swimming	H: Cleanliness: Healthy for swimming
Depth of Reefs: Greater than 60 feet	H: Depth of Reefs: less than 20 feet	M: Depth of Reefs: 20 to 60 feet
Crowdedness: 21 or more people	H: Crowdedness: 0 to 10 people	M: Crowdedness: 11 to 20 people
\$0	2	6
(Cost to your household per year)	(Cost to your household per year)	(Cost to your household per year)

Option A: Status Quo – No changes in management (All Low Conditions)	Option B	Option C
Corals and Sponges	Corals and Sponges	Corals and Sponges
No stony corals, only soft corals and	L: No stony corals, only soft corals and	M: Up to 4 species of stony corals
sponges	sponges	covering 5 to 20% of hard-bottom with 60
		to 90% live coral tissue.
Up to 4 species of soft corals for a total of	H: 1 species of soft corals for a total of	L: Up to 4 species of soft corals for a
14 to 25 square centimeters per square meter	less than 4 square centimeters per square	total of 14 to 25 square centimeters per
	meter.	square meter
Up to 4 species of sponges for a total of 7 to	1 species of sponges for a total of less	Up to 4 species of sponges for a total of 7
15 square centimeters per square meter	than 2 square centimeters per square	to 15 square centimeters per square meter
	meter.	
Fish and Wildlife	Fish and Wildlife	Fish and Wildlife
Up to two species of consumptive fish for a	H: Up to 15 species of consumptive fish	M: 3 to 6 species of consumptive fish for
total of 3 fish per square meter with no fish	for a total of 100 or more fish per square	a total of 10 fish per square meter with up
of legal size to keep	meter with 75 to 100% of legal size to	to 50% of legal size to keep.
	keep.	
Up to 3 species of tropical/ornamental fish	H: 25 to 30 species of	M: 4 to 10 species of tropical/ornamental
with a total of 3 fish per square meter	tropical/ornamental fish for a total of 20	fish with a total of 10 fish per square
	to 100 or more fish per square meter.	meter.
No Macroinvertebrates (conch, lobster or	L: No Macroinvertebrates (conch,	M: 1 species of Macroinvertebrates with
urchins)	lobster or urchins)	1 to 20 per square meter (urchins).
No opportunity to see large wildlife (sharks,	H: Opportunity to see large wildlife	L: No opportunity to see large wildlife
rays, turtles, manatees, dolphins)	(sharks, rays, turtles, manatees, dolphins)	(sharks, rays, turtles, manatees, dolphins)
No opportunity to see or catch Sport/Trophy	H: Opportunity to catch or see	L: No opportunity to see or catch
fish (ladyfish, permit, bonefish, tarpon,	Sport/Trophy fish (ladyfish, permit,	Sport/Trophy fish (ladyfish, permit,
snook, jacks)	bonefish, tarpon, snook, jacks)	bonefish, tarpon, snook, jacks)
Water Conditions	Water Conditions	Water Conditions
Clarity/Visibility: Less than 10 feet	H: Clarity/Visibility: Greater than 50	M: Clarity/Visibility: 10 to 50 feet
	feet	
Cleanliness: Not healthy for swimming	H: Cleanliness: Healthy for swimming	L: Cleanliness: Not healthy for
		swimming
Depth of Reefs: Greater than 60 feet	M: Depth of Reefs: 20 to 60 feet	H: Depth of Reefs: less than 20 feet
Crowdedness: 21 or more people	M: Crowdedness: 11 to 20 people	H: Crowdedness: 0 to 10 people
\$0	6	5
(Cost to your household per year)	(Cost to your household per year)	(Cost to your household per year)

Option A: Status Quo – No changes in	Option B	Option C
management (All Low Conditions)	_	_
Corals and Sponges	Corals and Sponges	Corals and Sponges
No stony corals, only soft corals and	H: 5 to 17 species of stony corals	L: No stony corals, only soft corals and
sponges	covering more than 20% and up to 100%	sponges
	of hard-bottom with over 90% to 100%	
	live coral tissue.	
Up to 4 species of soft corals for a total of	L: Up to 4 species of soft corals for a	H: 1 species of soft corals for a total of
14 to 25 square centimeters per square meter	total of 14 to 25 square centimeters per	less than 4 square centimeters per square
	square meter	meter.
Up to 4 species of sponges for a total of 7 to	Up to 4 species of sponges for a total of 7	1 species of sponges for a total of less
15 square centimeters per square meter	to 15 square centimeters per square meter	than 2 square centimeters per square
		meter.
Fish and Wildlife	Fish and Wildlife	Fish and Wildlife
Up to two species of consumptive fish for a	M: 3 to 6 species of consumptive fish for	L: Up to two species of consumptive
total of 3 fish per square meter with no fish	a total of 10 fish per square meter with up	fish for a total of 3 fish per square meter
of legal size to keep	to 50% of legal size to keep.	with no fish of legal size to keep
Up to 3 species of tropical/ornamental fish	H: 25 to 30 species of	M: 4 to 10 species of tropical/ornamental
with a total of 3 fish per square meter	tropical/ornamental fish for a total of 20	fish with a total of 10 fish per square
	to 100 or more fish per square meter.	meter.
No Macroinvertebrates (conch, lobster or	H: 2 or more species of	L: No Macroinvertebrates (conch,
urchins)	Macroinvertebrates (conch, lobster or	lobster or urchins)
	urchins) 1 lobster, 1 conch, and 20 or	
	more urchins per square meter.	
No opportunity to see large wildlife (sharks,	H: Opportunity to see large wildlife	L: No opportunity to see large wildlife
rays, turtles, manatees, dolphins)	(sharks, rays, turtles, manatees, dolphins)	(sharks, rays, turtles, manatees, dolphins)
No opportunity to see or catch Sport/Trophy	L: No opportunity to see or catch	H: Opportunity to catch or see
fish (ladyfish, permit, bonefish, tarpon,	Sport/Trophy fish (ladyfish, permit,	Sport/Trophy fish (ladyfish, permit,
snook, jacks)	bonefish, tarpon, snook, jacks)	bonefish, tarpon, snook, jacks)
Water Conditions	Water Conditions	Water Conditions
Clarity/Visibility: Less than 10 feet	M: Clarity/Visibility: 10 to 50 feet	H: Clarity/Visibility: Greater than 50
		feet
Cleanliness: Not healthy for swimming	L: Cleanliness: Not healthy for	H: Cleanliness: Healthy for swimming
	swimming	
Depth of Reefs: Greater than 60 feet	L: Depth of Reefs: Greater than 60 feet	H: Depth of Reefs: less than 20 feet
Crowdedness: 21 or more people	L: Crowdedness: 21 or more people	H: Crowdedness: 0 to 10 people
\$0	1	4
(Cost to your household per year)	(Cost to your household per year)	(Cost to your household per year)

Option A: Status Quo – No changes in management (All Low Conditions)	Option B	Option C
Corals and Sponges	Corals and Sponges	Corals and Sponges
No stony corals, only soft corals and	H: 5 to 17 species of stony corals	L: No stony corals, only soft corals and
sponges	covering more than 20% and up to 100%	sponges
	of hard-bottom with over 90% to 100%	
	live coral tissue.	
Up to 4 species of soft corals for a total of	L: Up to 4 species of soft corals for a	H: 1 species of soft corals for a total of
14 to 25 square centimeters per square meter	total of 14 to 25 square centimeters per	less than 4 square centimeters per square
	square meter	meter.
Up to 4 species of sponges for a total of 7 to	Up to 4 species of sponges for a total of 7	1 species of sponges for a total of less
15 square centimeters per square meter	to 15 square centimeters per square meter	than 2 square centimeters per square
		meter.
Fish and Wildlife	Fish and Wildlife	Fish and Wildlife
Up to two species of consumptive fish for a	H: Up to 15 species of consumptive fish	M: 3 to 6 species of consumptive fish
total of 3 fish per square meter with no fish	for a total of 100 or more fish per square	for a total of 10 fish per square meter with
of legal size to keep	meter with 75 to 100% of legal size to	up to 50% of legal size to keep.
	keep.	
Up to 3 species of tropical/ornamental fish	H: 25 to 30 species of	M: 4 to 10 species of
with a total of 3 fish per square meter	tropical/ornamental fish for a total of 20	tropical/ornamental fish with a total of 10
	to 100 or more fish per square meter.	fish per square meter.
No Macroinvertebrates (conch, lobster or	M: 1 species of Macroinvertebrates with	H: 2 or more species of
urchins)	1 to 20 per square meter (urchins).	Macroinvertebrates (conch, lobster or
		urchins) 1 lobster, 1 conch, and 20 or
		more urchins per square meter.
No opportunity to see large wildlife (sharks,	H: Opportunity to see large wildlife	L: No opportunity to see large wildlife
rays, turtles, manatees, dolphins)	(sharks, rays, turtles, manatees, dolphins)	(sharks, rays, turtles, manatees, dolphins)
No opportunity to see or catch Sport/Trophy	L: No opportunity to see or catch	H: Opportunity to catch or see
fish (ladyfish, permit, bonefish, tarpon,	Sport/Trophy fish (ladyfish, permit,	Sport/Trophy fish (ladyfish, permit,
snook, jacks)	bonefish, tarpon, snook, jacks)	bonefish, tarpon, snook, jacks)
Water Conditions	Water Conditions	Water Conditions
Clarity/Visibility: Less than 10 feet	L: Clarity/Visibility: Less than 10 feet	H: Clarity/Visibility: Greater than 50
		feet
Cleanliness: Not healthy for swimming	H: Cleanliness: Healthy for swimming	H: Cleanliness: Healthy for swimming
Depth of Reefs: Greater than 60 feet	M: Depth of Reefs: 20 to 60 feet	L: Depth of Reefs: Greater than 60 feet
Crowdedness: 21 or more people	M: Crowdedness: 11 to 20 people	L: Crowdedness: 21 or more people
\$0	4	5
(Cost to your household per year)	(Cost to your household per year)	(Cost to your household per year)

Option A: Status Quo – No changes in management (All Low Conditions)	Option B	Option C
Corals and Sponges	Corals and Sponges	Corals and Sponges
No stony corals, only soft corals and	M: Up to 4 species of stony corals	L: No stony corals, only soft corals and
sponges	covering 5 to 20% of hard-bottom with 60	sponges
	to 90% live coral tissue.	
Up to 4 species of soft corals for a total of	L: Up to 4 species of soft corals for a	H: 1 species of soft corals for a total of
14 to 25 square centimeters per square meter	total of 14 to 25 square centimeters per	less than 4 square centimeters per square
	square meter	meter.
Up to 4 species of sponges for a total of 7 to	Up to 4 species of sponges for a total of 7	1 species of sponges for a total of less
15 square centimeters per square meter	to 15 square centimeters per square meter	than 2 square centimeters per square
		meter.
Fish and Wildlife	Fish and Wildlife	Fish and Wildlife
Up to two species of consumptive fish for a	L: Up to two species of consumptive	M: 3 to 6 species of consumptive fish for
total of 3 fish per square meter with no fish	fish for a total of 3 fish per square meter	a total of 10 fish per square meter with up
of legal size to keep	with no fish of legal size to keep	to 50% of legal size to keep.
Up to 3 species of tropical/ornamental fish	M: 4 to 10 species of tropical/ornamental	L: Up to 3 species of tropical/ornamental
with a total of 3 fish per square meter	fish with a total of 10 fish per square	fish with a total of 3 fish per square meter
	meter.	
No Macroinvertebrates (conch, lobster or	H: 2 or more species of	L: No Macroinvertebrates (conch,
urchins)	Macroinvertebrates (conch, lobster or	lobster or urchins)
	urchins) 1 lobster, 1 conch, and 20 or	
	more urchins per square meter.	
No opportunity to see large wildlife (sharks,	L: No opportunity to see large wildlife	H: Opportunity to see large wildlife
rays, turtles, manatees, dolphins)	(sharks, rays, turtles, manatees, dolphins)	(sharks, rays, turtles, manatees, dolphins)
No opportunity to see or catch Sport/Trophy	L: No opportunity to see or catch	H: Opportunity to catch or see
fish (ladyfish, permit, bonefish, tarpon,	Sport/Trophy fish (ladyfish, permit,	Sport/Trophy fish (ladyfish, permit,
snook, jacks)	bonefish, tarpon, snook, jacks)	bonefish, tarpon, snook, jacks)
Water Conditions	Water Conditions	Water Conditions
Clarity/Visibility: Less than 10 feet	H: Clarity/Visibility: Greater than 50	M: Clarity/Visibility: 10 to 50 feet
Charalina Natharlate Constitution	feet H. Charling H. H. H. G. H.	T. Charles Nathall C
Cleanliness: Not healthy for swimming	H: Cleanliness: Healthy for swimming	L: Cleanliness: Not healthy for
Donth of Doofs, Croster there (0 feet	H. Donth of Doofer last them 20 feet	swimming H. Donth of Boofs: loss than 20 feet
Depth of Reefs: Greater than 60 feet Crowdedness: 21 or more people	H: Depth of Reefs: less than 20 feet H: Crowdedness: 0 to 10 people	H: Depth of Reefs: less than 20 feet H: Crowdedness: 0 to 10 people
	1 1	11. Crowdedness: 0 to 10 people
\$0	3	<u>Z</u>
(Cost to your household per year)	(Cost to your household per year)	(Cost to your household per year)

Option A: Status Quo – No changes in management (All Low Conditions)	Option B	Option C
Corals and Sponges	Corals and Sponges	Corals and Sponges
No stony corals, only soft corals and	M: Up to 4 species of stony corals	H: 5 to 17 species of stony corals
sponges	covering 5 to 20% of hard-bottom with 60 to 90% live coral tissue.	covering more than 20% and up to 100% of hard-bottom with over 90% to 100% live coral tissue.
Up to 4 species of soft corals for a total of	H: 1 species of soft corals for a total of	M: Up to 3 species of soft corals for a
14 to 25 square centimeters per square meter	less than 4 square centimeters per square meter.	total of 4 to 14 square centimeters per square meter.
Up to 4 species of sponges for a total of 7 to	1 species of sponges for a total of less	Up to 3 species of sponges for a total of 2
15 square centimeters per square meter	than 2 square centimeters per square meter.	to 7 square centimeters per square meter.
Fish and Wildlife	Fish and Wildlife	Fish and Wildlife
Up to two species of consumptive fish for a total of 3 fish per square meter with no fish of legal size to keep	M: 3 to 6 species of consumptive fish for a total of 10 fish per square meter with up to 50% of legal size to keep.	H: Up to 15 species of consumptive fish for a total of 100 or more fish per square meter with 75 to 100% of legal size to keep.
Up to 3 species of tropical/ornamental fish with a total of 3 fish per square meter	L: Up to 3 species of tropical/ornamental fish with a total of 3 fish per square meter	H: 25 to 30 species of tropical/ornamental fish for a total of 20 to 100 or more fish per square meter.
No Macroinvertebrates (conch, lobster or	H: 2 or more species of	L: No Macroinvertebrates (conch,
urchins)	Macroinvertebrates (conch, lobster or urchins) 1 lobster, 1 conch, and 20 or more urchins per square meter.	lobster or urchins)
No opportunity to see large wildlife (sharks,	H: Opportunity to see large wildlife	L: No opportunity to see large wildlife
rays, turtles, manatees, dolphins)	(sharks, rays, turtles, manatees, dolphins)	(sharks, rays, turtles, manatees, dolphins)
No opportunity to see or catch Sport/Trophy fish (ladyfish, permit, bonefish, tarpon, snook, jacks)	H: Opportunity to catch or see Sport/Trophy fish (ladyfish, permit, bonefish, tarpon, snook, jacks)	L: No Macroinvertebrates (conch, lobster or urchins)
Water Conditions	Water Conditions	Water Conditions
Clarity/Visibility: Less than 10 feet	M: Clarity/Visibility: 10 to 50 feet	H: Clarity/Visibility: Greater than 50 feet
Cleanliness: Not healthy for swimming	H: Cleanliness: Healthy for swimming	H: Cleanliness: Healthy for swimming
Depth of Reefs: Greater than 60 feet	H: Depth of Reefs: less than 20 feet	L: Depth of Reefs: Greater than 60 feet
Crowdedness: 21 or more people	H: Crowdedness: 0 to 10 people	L: Crowdedness: 21 or more people
\$0	6	1
(Cost to your household per year)	(Cost to your household per year)	(Cost to your household per year)

Option A: Status Quo – No changes in management (All Low Conditions)	Option B	Option C
Corals and Sponges	Corals and Sponges	Corals and Sponges
No stony corals, only soft corals and	H: 5 to 17 species of stony corals	M: Up to 4 species of stony corals
sponges	covering more than 20% and up to 100%	covering 5 to 20% of hard-bottom with 60
	of hard-bottom with over 90% to 100%	to 90% live coral tissue.
	live coral tissue.	
Up to 4 species of soft corals for a total of	M: Up to 3 species of soft corals for a	H: 1 species of soft corals for a total of
14 to 25 square centimeters per square meter	total of 4 to 14 square centimeters per	less than 4 square centimeters per square
	square meter.	meter.
Up to 4 species of sponges for a total of 7 to	Up to 3 species of sponges for a total of 2	1 species of sponges for a total of less
15 square centimeters per square meter	to 7 square centimeters per square meter.	than 2 square centimeters per square
		meter.
Fish and Wildlife	Fish and Wildlife	Fish and Wildlife
Up to two species of consumptive fish for a	H: Up to 15 species of consumptive fish	L: Up to two species of consumptive
total of 3 fish per square meter with no fish	for a total of 100 or more fish per square	fish for a total of 3 fish per square meter
of legal size to keep	meter with 75 to 100% of legal size to	with no fish of legal size to keep
	keep.	
Up to 3 species of tropical/ornamental fish	L: Up to 3 species of	H: 25 to 30 species of
with a total of 3 fish per square meter	tropical/ornamental fish with a total of 3	tropical/ornamental fish for a total of 20
	fish per square meter	to 100 or more fish per square meter.
No Macroinvertebrates (conch, lobster or	M: 1 species of Macroinvertebrates with	M: 1 species of Macroinvertebrates with
urchins)	1 to 20 per square meter (urchins).	1 to 20 per square meter (urchins).
No opportunity to see large wildlife (sharks,	L: No opportunity to see large wildlife	H: Opportunity to see large wildlife
rays, turtles, manatees, dolphins)	(sharks, rays, turtles, manatees, dolphins)	(sharks, rays, turtles, manatees, dolphins)
No opportunity to see or catch Sport/Trophy	H: Opportunity to catch or see	L: No opportunity to see or catch
fish (ladyfish, permit, bonefish, tarpon,	Sport/Trophy fish (ladyfish, permit,	Sport/Trophy fish (ladyfish, permit,
snook, jacks)	bonefish, tarpon, snook, jacks)	bonefish, tarpon, snook, jacks)
Water Conditions	Water Conditions	Water Conditions
Clarity/Visibility: Less than 10 feet	M: Clarity/Visibility: 10 to 50 feet	L: Clarity/Visibility: Less than 10 feet
Cleanliness: Not healthy for swimming	L: Cleanliness: Not healthy for	H: Cleanliness: Healthy for swimming
	swimming	
Depth of Reefs: Greater than 60 feet	M: Depth of Reefs: 20 to 60 feet	H: Depth of Reefs: less than 20 feet
Crowdedness: 21 or more people	M: Crowdedness: 11 to 20 people	H: Crowdedness: 0 to 10 people
\$0	5	4
(Cost to your household per year)	(Cost to your household per year)	(Cost to your household per year)

Option A: Status Quo – No changes in management (All Low Conditions)	Option B	Option C
Corals and Sponges	Corals and Sponges	Corals and Sponges
No stony corals, only soft corals and sponges	L: No stony corals, only soft corals and sponges	M: Up to 4 species of stony corals covering 5 to 20% of hard-bottom with 60 to 90% live coral tissue.
Up to 4 species of soft corals for a total of 14 to 25 square centimeters per square meter	M: Up to 3 species of soft corals for a total of 4 to 14 square centimeters per square meter.	H: 1 species of soft corals for a total of less than 4 square centimeters per square meter.
Up to 4 species of sponges for a total of 7 to 15 square centimeters per square meter	Up to 3 species of sponges for a total of 2 to 7 square centimeters per square meter.	1 species of sponges for a total of less than 2 square centimeters per square meter.
Fish and Wildlife	Fish and Wildlife	Fish and Wildlife
Up to two species of consumptive fish for a total of 3 fish per square meter with no fish of legal size to keep	M: 3 to 6 species of consumptive fish for a total of 10 fish per square meter with up to 50% of legal size to keep.	L: Up to two species of consumptive fish for a total of 3 fish per square meter with no fish of legal size to keep
Up to 3 species of tropical/ornamental fish with a total of 3 fish per square meter	M: 4 to 10 species of tropical/ornamental fish with a total of 10 fish per square meter.	L: Up to 3 species of tropical/ornamental fish with a total of 3 fish per square meter
No Macroinvertebrates (conch, lobster or urchins)	H: 2 or more species of Macroinvertebrates (conch, lobster or urchins) 1 lobster, 1 conch, and 20 or more urchins per square meter.	M: 1 species of Macroinvertebrates with 1 to 20 per square meter (urchins).
No opportunity to see large wildlife (sharks,	H: Opportunity to see large wildlife	L: No opportunity to see large wildlife
rays, turtles, manatees, dolphins)	(sharks, rays, turtles, manatees, dolphins)	(sharks, rays, turtles, manatees, dolphins)
No opportunity to see or catch Sport/Trophy fish (ladyfish, permit, bonefish, tarpon, snook, jacks)	H: Opportunity to catch or see Sport/Trophy fish (ladyfish, permit, bonefish, tarpon, snook, jacks)	L: No opportunity to see or catch Sport/Trophy fish (ladyfish, permit, bonefish, tarpon, snook, jacks)
Water Conditions	Water Conditions	Water Conditions
Clarity/Visibility: Less than 10 feet	L: Clarity/Visibility: Less than 10 feet	M: Clarity/Visibility: 10 to 50 feet
Cleanliness: Not healthy for swimming	L: Cleanliness: Not healthy for swimming	H: Cleanliness: Healthy for swimming
Depth of Reefs: Greater than 60 feet	H: Depth of Reefs: less than 20 feet	M: Depth of Reefs: 20 to 60 feet
Crowdedness: 21 or more people	H: Crowdedness: 0 to 10 people	M: Crowdedness: 11 to 20 people
\$0	4	2
(Cost to your household per year)	(Cost to your household per year)	(Cost to your household per year)

Option A: Status Quo – No changes in management (All Low Conditions)	Option B	Option C
Corals and Sponges	Corals and Sponges	Corals and Sponges
No stony corals, only soft corals and	H: 5 to 17 species of stony corals	L: No stony corals, only soft corals and
sponges	covering more than 20% and up to 100%	sponges
	of hard-bottom with over 90% to 100%	
	live coral tissue.	
Up to 4 species of soft corals for a total of	M: Up to 3 species of soft corals for a	L: Up to 4 species of soft corals for a
14 to 25 square centimeters per square meter	total of 4 to 14 square centimeters per	total of 14 to 25 square centimeters per
	square meter.	square meter
Up to 4 species of sponges for a total of 7 to	Up to 3 species of sponges for a total of 2	Up to 4 species of sponges for a total of 7
15 square centimeters per square meter	to 7 square centimeters per square meter.	to 15 square centimeters per square meter
Fish and Wildlife	Fish and Wildlife	Fish and Wildlife
Up to two species of consumptive fish for a	M: 3 to 6 species of consumptive fish for	H: Up to 15 species of consumptive fish
total of 3 fish per square meter with no fish	a total of 10 fish per square meter with up	for a total of 100 or more fish per square
of legal size to keep	to 50% of legal size to keep.	meter with 75 to 100% of legal size to
		keep.
Up to 3 species of tropical/ornamental fish	M: 4 to 10 species of tropical/ornamental	H: 25 to 30 species of
with a total of 3 fish per square meter	fish with a total of 10 fish per square	tropical/ornamental fish for a total of 20
	meter.	to 100 or more fish per square meter.
No Macroinvertebrates (conch, lobster or	L: No Macroinvertebrates (conch,	H: 2 or more species of
urchins)	lobster or urchins)	Macroinvertebrates (conch, lobster or
		urchins) 1 lobster, 1 conch, and 20 or
		more urchins per square meter.
No opportunity to see large wildlife (sharks,	H: Opportunity to see large wildlife	L: No opportunity to see large wildlife
rays, turtles, manatees, dolphins)	(sharks, rays, turtles, manatees, dolphins)	(sharks, rays, turtles, manatees, dolphins)
No opportunity to see or catch Sport/Trophy	L: No opportunity to see or catch	H: Opportunity to catch or see
fish (ladyfish, permit, bonefish, tarpon,	Sport/Trophy fish (ladyfish, permit,	Sport/Trophy fish (ladyfish, permit,
snook, jacks)	bonefish, tarpon, snook, jacks)	bonefish, tarpon, snook, jacks)
Water Conditions	Water Conditions	Water Conditions
Clarity/Visibility: Less than 10 feet	M: Clarity/Visibility: 10 to 50 feet	H: Clarity/Visibility: Greater than 50
Charling Natharlanda Caracia	H. Charling Hald Const.	feet
Cleanliness: Not healthy for swimming	H: Cleanliness: Healthy for swimming	H: Cleanliness: Healthy for swimming
Depth of Reefs: Greater than 60 feet	L: Depth of Reefs: Greater than 60 feet	M: Depth of Reefs: 20 to 60 feet
Crowdedness: 21 or more people	L: Crowdedness: 21 or more people	M: Crowdedness: 11 to 20 people
\$0	5	1
(Cost to your household per year)	(Cost to your household per year)	(Cost to your household per year)

Option A: Status Quo – No changes in management (All Low Conditions)	Option B	Option C
Corals and Sponges	Corals and Sponges	Corals and Sponges
No stony corals, only soft corals and	M: Up to 4 species of stony corals	H: 5 to 17 species of stony corals
sponges	covering 5 to 20% of hard-bottom with 60 to 90% live coral tissue.	covering more than 20% and up to 100% of hard-bottom with over 90% to 100% live coral tissue.
Up to 4 species of soft corals for a total of	H: 1 species of soft corals for a total of	L: Up to 4 species of soft corals for a
14 to 25 square centimeters per square meter	less than 4 square centimeters per square meter.	total of 14 to 25 square centimeters per square meter
Up to 4 species of sponges for a total of 7 to	1 species of sponges for a total of less	Up to 4 species of sponges for a total of 7
15 square centimeters per square meter	than 2 square centimeters per square meter.	to 15 square centimeters per square meter
Fish and Wildlife	Fish and Wildlife	Fish and Wildlife
Up to two species of consumptive fish for a total of 3 fish per square meter with no fish of legal size to keep	H: Up to 15 species of consumptive fish for a total of 100 or more fish per square meter with 75 to 100% of legal size to keep.	L: Up to two species of consumptive fish for a total of 3 fish per square meter with no fish of legal size to keep
Up to 3 species of tropical/ornamental fish	H: 25 to 30 species of	M: 4 to 10 species of tropical/ornamental
with a total of 3 fish per square meter	tropical/ornamental fish for a total of 20	fish with a total of 10 fish per square
No Magazinyoutahuatas (aanah lahatau au	to 100 or more fish per square meter.	meter.
No Macroinvertebrates (conch, lobster or urchins)	H: 2 or more species of Macroinvertebrates (conch, lobster or urchins) 1 lobster, 1 conch, and 20 or more urchins per square meter.	L: No Macroinvertebrates (conch, lobster or urchins)
No opportunity to see large wildlife (sharks,	L: No opportunity to see large wildlife	H: Opportunity to see large wildlife
rays, turtles, manatees, dolphins)	(sharks, rays, turtles, manatees, dolphins)	(sharks, rays, turtles, manatees, dolphins)
No opportunity to see or catch Sport/Trophy fish (ladyfish, permit, bonefish, tarpon,	L: No opportunity to see or catch Sport/Trophy fish (ladyfish, permit,	H: Opportunity to catch or see Sport/Trophy fish (ladyfish, permit,
snook, jacks)	bonefish, tarpon, snook, jacks)	bonefish, tarpon, snook, jacks)
Water Conditions	Water Conditions	Water Conditions
Clarity/Visibility: Less than 10 feet	M: Clarity/Visibility: 10 to 50 feet	H: Clarity/Visibility: Greater than 50 feet
Cleanliness: Not healthy for swimming	H: Cleanliness: Healthy for swimming	H: Cleanliness: Healthy for swimming
Depth of Reefs: Greater than 60 feet	L: Depth of Reefs: Greater than 60 feet	M: Depth of Reefs: 20 to 60 feet
Crowdedness: 21 or more people	L: Crowdedness: 21 or more people	M: Crowdedness: 11 to 20 people
\$0	6	5
(Cost to your household per year)	(Cost to your household per year)	(Cost to your household per year)

Option A: Status Quo – No changes in management (All Low Conditions)	Option B	Option C
Corals and Sponges	Corals and Sponges	Corals and Sponges
No stony corals, only soft corals and	H: 5 to 17 species of stony corals	M: Up to 4 species of stony corals
sponges	covering more than 20% and up to 100%	covering 5 to 20% of hard-bottom with 60
	of hard-bottom with over 90% to 100%	to 90% live coral tissue.
	live coral tissue.	
Up to 4 species of soft corals for a total of	L: Up to 4 species of soft corals for a	M: Up to 3 species of soft corals for a
14 to 25 square centimeters per square meter	total of 14 to 25 square centimeters per	total of 4 to 14 square centimeters per
	square meter	square meter.
Up to 4 species of sponges for a total of 7 to	Up to 4 species of sponges for a total of 7	Up to 3 species of sponges for a total of 2
15 square centimeters per square meter	to 15 square centimeters per square meter	to 7 square centimeters per square meter.
Fish and Wildlife	Fish and Wildlife	Fish and Wildlife
Up to two species of consumptive fish for a	M: 3 to 6 species of consumptive fish for	H: Up to 15 species of consumptive fish
total of 3 fish per square meter with no fish	a total of 10 fish per square meter with up	for a total of 100 or more fish per square
of legal size to keep	to 50% of legal size to keep.	meter with 75 to 100% of legal size to
		keep.
Up to 3 species of tropical/ornamental fish	H: 25 to 30 species of	M: 4 to 10 species of tropical/ornamental
with a total of 3 fish per square meter	tropical/ornamental fish for a total of 20	fish with a total of 10 fish per square
	to 100 or more fish per square meter.	meter.
No Macroinvertebrates (conch, lobster or	L: No Macroinvertebrates	M: 1 species of Macroinvertebrates with
urchins)		1 to 20 per square meter (urchins).
No opportunity to see large wildlife (sharks,	L: No opportunity to see large wildlife	H: Opportunity to see large wildlife
rays, turtles, manatees, dolphins)	(sharks, rays, turtles, manatees, dolphins)	(sharks, rays, turtles, manatees, dolphins)
No opportunity to see or catch Sport/Trophy	H: Opportunity to catch or see	L: No opportunity to see or catch
fish (ladyfish, permit, bonefish, tarpon,	Sport/Trophy fish (ladyfish, permit,	Sport/Trophy fish (ladyfish, permit,
snook, jacks)	bonefish, tarpon, snook, jacks)	bonefish, tarpon, snook, jacks)
Water Conditions	Water Conditions	Water Conditions
Clarity/Visibility: Less than 10 feet	H: Clarity/Visibility: Greater than 50	L: Clarity/Visibility: Less than 10 feet
	feet	
Cleanliness: Not healthy for swimming	H: Cleanliness: Healthy for swimming	L: Cleanliness: Not healthy for
		swimming
Depth of Reefs: Greater than 60 feet	H: Depth of Reefs: less than 20 feet	M: Depth of Reefs: 20 to 60 feet
Crowdedness: 21 or more people	H: Crowdedness: 0 to 10 people	M: Crowdedness: 11 to 20 people
\$0	2	3
(Cost to your household per year)	(Cost to your household per year)	(Cost to your household per year)

Option A: Status Quo – No changes in management (All Low Conditions)	Option B	Option C
Corals and Sponges	Corals and Sponges	Corals and Sponges
No stony corals, only soft corals and	M: Up to 4 species of stony corals	H: 5 to 17 species of stony corals
sponges	covering 5 to 20% of hard-bottom with 60	covering more than 20% and up to 100%
	to 90% live coral tissue.	of hard-bottom with over 90% to 100%
		live coral tissue.
Up to 4 species of soft corals for a total of	L: Up to 4 species of soft corals for a	M: Up to 3 species of soft corals for a
14 to 25 square centimeters per square meter	total of 14 to 25 square centimeters per	total of 4 to 14 square centimeters per
	square meter	square meter.
Up to 4 species of sponges for a total of 7 to	Up to 4 species of sponges for a total of 7	Up to 3 species of sponges for a total of 2
15 square centimeters per square meter	to 15 square centimeters per square meter	to 7 square centimeters per square meter.
Fish and Wildlife	Fish and Wildlife	Fish and Wildlife
Up to two species of consumptive fish for a	H: Up to 15 species of consumptive fish	M: 3 to 6 species of consumptive fish for
total of 3 fish per square meter with no fish	for a total of 100 or more fish per square	a total of 10 fish per square meter with up
of legal size to keep	meter with 75 to 100% of legal size to	to 50% of legal size to keep.
	keep.	
Up to 3 species of tropical/ornamental fish	M: 4 to 10 species of tropical/ornamental	L: Up to 3 species of tropical/ornamental
with a total of 3 fish per square meter	fish with a total of 10 fish per square	fish with a total of 3 fish per square meter
	meter.	
No Macroinvertebrates (conch, lobster or	L: No Macroinvertebrates (conch,	M: 1 species of Macroinvertebrates with
urchins)	lobster or urchins)	1 to 20 per square meter (urchins).
No opportunity to see large wildlife (sharks,	H: Opportunity to see large wildlife	L: No opportunity to see large wildlife
rays, turtles, manatees, dolphins)	(sharks, rays, turtles, manatees, dolphins)	(sharks, rays, turtles, manatees, dolphins)
No opportunity to see or catch Sport/Trophy	H: Opportunity to catch or see	L: No opportunity to see or catch
fish (ladyfish, permit, bonefish, tarpon,	Sport/Trophy fish (ladyfish, permit,	Sport/Trophy fish (ladyfish, permit,
snook, jacks)	bonefish, tarpon, snook, jacks)	bonefish, tarpon, snook, jacks)
Water Conditions	Water Conditions	Water Conditions
Clarity/Visibility: Less than 10 feet	L: Clarity/Visibility: Less than 10 feet	H: Clarity/Visibility: Greater than 50
		feet
Cleanliness: Not healthy for swimming	H: Cleanliness: Healthy for swimming	H: Cleanliness: Healthy for swimming
Depth of Reefs: Greater than 60 feet	M: Depth of Reefs: 20 to 60 feet	L: Depth of Reefs: Greater than 60 feet
Crowdedness: 21 or more people	M: Crowdedness: 11 to 20 people	L: Crowdedness: 21 or more people
\$0	5	3
(Cost to your household per year)	(Cost to your household per year)	(Cost to your household per year)

Option A: Status Quo – No changes in management (All Low Conditions)	Option B	Option C
Corals and Sponges	Corals and Sponges	Corals and Sponges
No stony corals, only soft corals and	H: 5 to 17 species of stony corals	L: No stony corals, only soft corals and
sponges	covering more than 20% and up to 100%	sponges
	of hard-bottom with over 90% to 100%	
	live coral tissue.	
Up to 4 species of soft corals for a total of	H: 1 species of soft corals for a total of	M: Up to 3 species of soft corals for a
14 to 25 square centimeters per square meter	less than 4 square centimeters per square	total of 4 to 14 square centimeters per
	meter.	square meter.
Up to 4 species of sponges for a total of 7 to	1 species of sponges for a total of less	Up to 3 species of sponges for a total of 2
15 square centimeters per square meter	than 2 square centimeters per square	to 7 square centimeters per square meter.
	meter.	
Fish and Wildlife	Fish and Wildlife	Fish and Wildlife
Up to two species of consumptive fish for a	M: 3 to 6 species of consumptive fish for	L: Up to two species of consumptive
total of 3 fish per square meter with no fish	a total of 10 fish per square meter with up	fish for a total of 3 fish per square meter
of legal size to keep	to 50% of legal size to keep.	with no fish of legal size to keep
Up to 3 species of tropical/ornamental fish	M: 4 to 10 species of tropical/ornamental	H: 25 to 30 species of
with a total of 3 fish per square meter	fish with a total of 10 fish per square	tropical/ornamental fish for a total of 20
	meter.	to 100 or more fish per square meter.
No Macroinvertebrates (conch, lobster or	L: No Macroinvertebrates (conch,	M: 1 species of Macroinvertebrates with
urchins)	lobster or urchins)	1 to 20 per square meter (urchins).
No opportunity to see large wildlife (sharks,	H: Opportunity to see large wildlife	L: No opportunity to see large wildlife
rays, turtles, manatees, dolphins)	(sharks, rays, turtles, manatees, dolphins)	(sharks, rays, turtles, manatees, dolphins)
No opportunity to see or catch Sport/Trophy	H: Opportunity to catch or see	L: No opportunity to see or catch
fish (ladyfish, permit, bonefish, tarpon,	Sport/Trophy fish (ladyfish, permit,	Sport/Trophy fish (ladyfish, permit,
snook, jacks)	bonefish, tarpon, snook, jacks)	bonefish, tarpon, snook, jacks)
Water Conditions	Water Conditions	Water Conditions
Clarity/Visibility: Less than 10 feet	H: Clarity/Visibility: Greater than 50	L: Clarity/Visibility: Less than 10 feet
	feet	
Cleanliness: Not healthy for swimming	L: Cleanliness: Not healthy for	H: Cleanliness: Healthy for swimming
	swimming	
Depth of Reefs: Greater than 60 feet	M: Depth of Reefs: 20 to 60 feet	H: Depth of Reefs: less than 20 feet
Crowdedness: 21 or more people	M: Crowdedness: 11 to 20 people	H: Crowdedness: 0 to 10 people
\$0	6	5
(Cost to your household per year)	(Cost to your household per year)	(Cost to your household per year)

Option A: Status Quo – No changes in management (All Low Conditions)	Option B	Option C
Corals and Sponges	Corals and Sponges	Corals and Sponges
No stony corals, only soft corals and	L: No stony corals, only soft corals and	M: Up to 4 species of stony corals
sponges	sponges	covering 5 to 20% of hard-bottom with 60
		to 90% live coral tissue.
Up to 4 species of soft corals for a total of	L: Up to 4 species of soft corals for a	M: Up to 3 species of soft corals for a
14 to 25 square centimeters per square meter	total of 14 to 25 square centimeters per	total of 4 to 14 square centimeters per
	square meter	square meter.
Up to 4 species of sponges for a total of 7 to	Up to 4 species of sponges for a total of 7	Up to 3 species of sponges for a total of 2
15 square centimeters per square meter	to 15 square centimeters per square meter	to 7 square centimeters per square meter.
Fish and Wildlife	Fish and Wildlife	Fish and Wildlife
Up to two species of consumptive fish for a	L: Up to two species of consumptive fish	M: 3 to 6 species of consumptive fish for
total of 3 fish per square meter with no fish	for a total of 3 fish per square meter with	a total of 10 fish per square meter with up
of legal size to keep	no fish of legal size to keep	to 50% of legal size to keep.
Up to 3 species of tropical/ornamental fish	H: 25 to 30 species of	L: Up to 3 species of tropical/ornamental
with a total of 3 fish per square meter	tropical/ornamental fish for a total of 20	fish with a total of 3 fish per square meter
	to 100 or more fish per square meter.	
No Macroinvertebrates (conch, lobster or	H: 2 or more species of	L: No Macroinvertebrates (conch,
urchins)	Macroinvertebrates (conch, lobster or	lobster or urchins)
	urchins) 1 lobster, 1 conch, and 20 or	
	more urchins per square meter.	
No opportunity to see large wildlife (sharks,	L: No opportunity to see large wildlife	H: Opportunity to see large wildlife
rays, turtles, manatees, dolphins)	(sharks, rays, turtles, manatees, dolphins)	(sharks, rays, turtles, manatees, dolphins)
No opportunity to see or catch Sport/Trophy	L: No opportunity to see or catch	H: Opportunity to catch or see
fish (ladyfish, permit, bonefish, tarpon,	Sport/Trophy fish (ladyfish, permit,	Sport/Trophy fish (ladyfish, permit,
snook, jacks)	bonefish, tarpon, snook, jacks)	bonefish, tarpon, snook, jacks)
Water Conditions	Water Conditions	Water Conditions
Clarity/Visibility: Less than 10 feet	M: Clarity/Visibility: 10 to 50 feet	L: Clarity/Visibility: Less than 10 feet
Cleanliness: Not healthy for swimming	H: Cleanliness: Healthy for swimming	H: Cleanliness: Healthy for swimming
Depth of Reefs: Greater than 60 feet	H: Depth of Reefs: less than 20 feet	L: Depth of Reefs: Greater than 60 feet
Crowdedness: 21 or more people	H: Crowdedness: 0 to 10 people	L: Crowdedness: 21 or more people
\$0	2	1
(Cost to your household per year)	(Cost to your household per year)	(Cost to your household per year)

Option A: Status Quo – No changes in management (All Low Conditions)	Option B	Option C
Corals and Sponges	Corals and Sponges	Corals and Sponges
No stony corals, only soft corals and	L: No stony corals, only soft corals and	H: 5 to 17 species of stony corals
sponges	sponges	covering more than 20% and up to 100%
		of hard-bottom with over 90% to 100%
		live coral tissue.
Up to 4 species of soft corals for a total of	M: Up to 3 species of soft corals for a	H: 1 species of soft corals for a total of
14 to 25 square centimeters per square meter	total of 4 to 14 square centimeters per	less than 4 square centimeters per square
	square meter.	meter.
Up to 4 species of sponges for a total of 7 to	Up to 3 species of sponges for a total of 2	1 species of sponges for a total of less
15 square centimeters per square meter	to 7 square centimeters per square meter.	than 2 square centimeters per square
		meter.
Fish and Wildlife	Fish and Wildlife	Fish and Wildlife
Up to two species of consumptive fish for a	M: 3 to 6 species of consumptive fish for	H: Up to 15 species of consumptive fish
total of 3 fish per square meter with no fish	a total of 10 fish per square meter with up	for a total of 100 or more fish per square
of legal size to keep	to 50% of legal size to keep.	meter with 75 to 100% of legal size to
II . 2	H 25 / 20 : 6	keep.
Up to 3 species of tropical/ornamental fish	H: 25 to 30 species of	M: 4 to 10 species of tropical/ornamental
with a total of 3 fish per square meter	tropical/ornamental fish for a total of 20	fish with a total of 10 fish per square
No Macroinvertebrates (conch, lobster or	to 100 or more fish per square meter. H: 2 or more species of	meter. L: No Macroinvertebrates (conch,
urchins)	Macroinvertebrates (conch, lobster or	lobster or urchins)
urchins)	urchins) 1 lobster, 1 conch, and 20 or	looster or tremins)
	more urchins per square meter.	
No opportunity to see large wildlife (sharks,	H: Opportunity to see large wildlife	L: No opportunity to see large wildlife
rays, turtles, manatees, dolphins)	(sharks, rays, turtles, manatees, dolphins)	(sharks, rays, turtles, manatees, dolphins)
No opportunity to see or catch Sport/Trophy	L: No opportunity to see or catch	H: Opportunity to catch or see
fish (ladyfish, permit, bonefish, tarpon,	Sport/Trophy fish (ladyfish, permit,	Sport/Trophy fish (ladyfish, permit,
snook, jacks)	bonefish, tarpon, snook, jacks)	bonefish, tarpon, snook, jacks)
Water Conditions	Water Conditions	Water Conditions
Clarity/Visibility: Less than 10 feet	H: Clarity/Visibility: Greater than 50	M: Clarity/Visibility: 10 to 50 feet
Jan	feet	
Cleanliness: Not healthy for swimming	H: Cleanliness: Healthy for swimming	L: Cleanliness: Not healthy for
, ,		swimming
Depth of Reefs: Greater than 60 feet	H: Depth of Reefs: less than 20 feet	L: Depth of Reefs: Greater than 60 feet
Crowdedness: 21 or more people	H: Crowdedness: 0 to 10 people	L: Crowdedness: 21 or more people
\$0	6	2
(Cost to your household per year)	(Cost to your household per year)	(Cost to your household per year)

Option A: Status Quo – No changes in management (All Low Conditions)	Option B	Option C
Corals and Sponges	Corals and Sponges	Corals and Sponges
No stony corals, only soft corals and	H: 5 to 17 species of stony corals	L: No stony corals, only soft corals and
sponges	covering more than 20% and up to 100%	sponges
	of hard-bottom with over 90% to 100%	
	live coral tissue.	
Up to 4 species of soft corals for a total of	M: Up to 3 species of soft corals for a	H: 1 species of soft corals for a total of
14 to 25 square centimeters per square meter	total of 4 to 14 square centimeters per	less than 4 square centimeters per square
	square meter.	meter.
Up to 4 species of sponges for a total of 7 to	Up to 3 species of sponges for a total of 2	1 species of sponges for a total of less
15 square centimeters per square meter	to 7 square centimeters per square meter.	than 2 square centimeters per square
		meter.
Fish and Wildlife	Fish and Wildlife	Fish and Wildlife
Up to two species of consumptive fish for a	L: Up to two species of consumptive fish	M: 3 to 6 species of consumptive fish for
total of 3 fish per square meter with no fish	for a total of 3 fish per square meter with	a total of 10 fish per square meter with up
of legal size to keep	no fish of legal size to keep	to 50% of legal size to keep.
Up to 3 species of tropical/ornamental fish	M: 4 to 10 species of tropical/ornamental	L: Up to 3 species of tropical/ornamental
with a total of 3 fish per square meter	fish with a total of 10 fish per square	fish with a total of 3 fish per square meter
	meter.	
No Macroinvertebrates (conch, lobster or	M: 1 species of Macroinvertebrates with	L: No Macroinvertebrates (conch,
urchins)	1 to 20 per square meter (urchins).	lobster or urchins)
No opportunity to see large wildlife (sharks,	L: No opportunity to see large wildlife	H: Opportunity to see large wildlife
rays, turtles, manatees, dolphins)	(sharks, rays, turtles, manatees, dolphins)	(sharks, rays, turtles, manatees, dolphins)
No opportunity to see or catch Sport/Trophy	H: Opportunity to catch or see	L: No opportunity to see or catch
fish (ladyfish, permit, bonefish, tarpon,	Sport/Trophy fish (ladyfish, permit,	Sport/Trophy fish (ladyfish, permit,
snook, jacks)	bonefish, tarpon, snook, jacks)	bonefish, tarpon, snook, jacks)
Water Conditions	Water Conditions	Water Conditions
Clarity/Visibility: Less than 10 feet	H: Clarity/Visibility: Greater than 50 feet	M: Clarity/Visibility: 10 to 50 feet
Cleanliness: Not healthy for swimming	H: Cleanliness: Healthy for swimming	H: Cleanliness: Healthy for swimming
Depth of Reefs: Greater than 60 feet	H: Depth of Reefs: less than 20 feet	M: Depth of Reefs: 20 to 60 feet
Crowdedness: 21 or more people	H: Crowdedness: 0 to 10 people	M: Crowdedness: 11 to 20 people
\$0	6	3
(Cost to your household per year)	(Cost to your household per year)	(Cost to your household per year)

Option A: Status Quo – No changes in management (All Low Conditions)	Option B	Option C
Corals and Sponges	Corals and Sponges	Corals and Sponges
No stony corals, only soft corals and sponges	M: Up to 4 species of stony corals covering 5 to 20% of hard-bottom with 60 to 90% live coral tissue.	L: No stony corals, only soft corals and sponges
Up to 4 species of soft corals for a total of 14 to 25 square centimeters per square meter	L: Up to 4 species of soft corals for a total of 14 to 25 square centimeters per square meter	H: 1 species of soft corals for a total of less than 4 square centimeters per square meter.
Up to 4 species of sponges for a total of 7 to 15 square centimeters per square meter	Up to 4 species of sponges for a total of 7 to 15 square centimeters per square meter	1 species of sponges for a total of less than 2 square centimeters per square meter.
Fish and Wildlife	Fish and Wildlife	Fish and Wildlife
Up to two species of consumptive fish for a total of 3 fish per square meter with no fish of legal size to keep	L: Up to two species of consumptive fish for a total of 3 fish per square meter with no fish of legal size to keep	H: Up to 15 species of consumptive fish for a total of 100 or more fish per square meter with 75 to 100% of legal size to keep.
Up to 3 species of tropical/ornamental fish with a total of 3 fish per square meter	L: Up to 3 species of tropical/ornamental fish with a total of 3 fish per square meter	M: 4 to 10 species of tropical/ornamental fish with a total of 10 fish per square meter.
No Macroinvertebrates (conch, lobster or urchins)	H: 2 or more species of Macroinvertebrates (conch, lobster or urchins) 1 lobster, 1 conch, and 20 or more urchins per square meter.	L: No Macroinvertebrates (conch, lobster or urchins)
No opportunity to see large wildlife (sharks, rays, turtles, manatees, dolphins)	L: No opportunity to see large wildlife (sharks, rays, turtles, manatees, dolphins)	H: Opportunity to see large wildlife (sharks, rays, turtles, manatees, dolphins)
No opportunity to see or catch Sport/Trophy fish (ladyfish, permit, bonefish, tarpon, snook, jacks)	H: Opportunity to catch or see Sport/Trophy fish (ladyfish, permit, bonefish, tarpon, snook, jacks)	L: No opportunity to see or catch Sport/Trophy fish (ladyfish, permit, bonefish, tarpon, snook, jacks)
Water Conditions	Water Conditions	Water Conditions
Clarity/Visibility: Less than 10 feet	M: Clarity/Visibility: 10 to 50 feet	L: Clarity/Visibility: Less than 10 feet
Cleanliness: Not healthy for swimming	H: Cleanliness: Healthy for swimming	H: Cleanliness: Healthy for swimming
Depth of Reefs: Greater than 60 feet	M: Depth of Reefs: 20 to 60 feet	H: Depth of Reefs: less than 20 feet
Crowdedness: 21 or more people	M: Crowdedness: 11 to 20 people	H: Crowdedness: 0 to 10 people
\$0	4	1
(Cost to your household per year)	(Cost to your household per year)	(Cost to your household per year)

Option A: Status Quo – No changes in management (All Low Conditions)	Option B	Option C
Corals and Sponges	Corals and Sponges	Corals and Sponges
No stony corals, only soft corals and	M: Up to 4 species of stony corals	H: 5 to 17 species of stony corals
sponges	covering 5 to 20% of hard-bottom with 60	covering more than 20% and up to 100%
	to 90% live coral tissue.	of hard-bottom with over 90% to 100%
***	7 77 4 1 0 0 1 0	live coral tissue.
Up to 4 species of soft corals for a total of	L: Up to 4 species of soft corals for a	M: Up to 3 species of soft corals for a
14 to 25 square centimeters per square meter	total of 14 to 25 square centimeters per	total of 4 to 14 square centimeters per
Up to 4 species of spenges for a total of 7 to	square meter Up to 4 species of sponges for a total of 7	square meter. Up to 3 species of sponges for a total of 2
Up to 4 species of sponges for a total of 7 to 15 square centimeters per square meter	to 15 square centimeters per square meter	to 7 square centimeters per square meter.
Fish and Wildlife	Fish and Wildlife	Fish and Wildlife
Up to two species of consumptive fish for a	H: Up to 15 species of consumptive fish	L: Up to two species of consumptive fish
total of 3 fish per square meter with no fish	for a total of 100 or more fish per square	for a total of 3 fish per square meter with
of legal size to keep	meter with 75 to 100% of legal size to	no fish of legal size to keep
of legal size to keep	keep.	no fish of regar size to keep
Up to 3 species of tropical/ornamental fish	M: 4 to 10 species of tropical/ornamental	L: Up to 3 species of tropical/ornamental
with a total of 3 fish per square meter	fish with a total of 10 fish per square	fish with a total of 3 fish per square meter
	meter.	1
No Macroinvertebrates (conch, lobster or	H: 2 or more species of	M: 1 species of Macroinvertebrates with
urchins)	Macroinvertebrates (conch, lobster or	1 to 20 per square meter (urchins).
	urchins) 1 lobster, 1 conch, and 20 or	
	more urchins per square meter.	
No opportunity to see large wildlife (sharks,	H: Opportunity to see large wildlife	L: No opportunity to see large wildlife
rays, turtles, manatees, dolphins)	(sharks, rays, turtles, manatees, dolphins)	(sharks, rays, turtles, manatees, dolphins)
No opportunity to see or catch Sport/Trophy	L: No opportunity to see or catch	H: Opportunity to catch or see
fish (ladyfish, permit, bonefish, tarpon,	Sport/Trophy fish (ladyfish, permit,	Sport/Trophy fish (ladyfish, permit, bonefish, tarpon, snook, jacks)
snook, jacks) Water Conditions	bonefish, tarpon, snook, jacks) Water Conditions	Water Conditions
Clarity/Visibility: Less than 10 feet	L: Clarity/Visibility: Less than 10 feet	M: Clarity/Visibility: 10 to 50 feet
Cleanliness: Not healthy for swimming	H: Cleanliness: Healthy for swimming	L: Cleanliness: Not healthy for
Cicaminess. 110t neartify for swiffining	22. Creaminess. Treating for swimming	swimming
Depth of Reefs: Greater than 60 feet	L: Depth of Reefs: Greater than 60 feet	H: Depth of Reefs: less than 20 feet
Crowdedness: 21 or more people	L: Crowdedness: 21 or more people	H: Crowdedness: 0 to 10 people
\$0	2	1
(Cost to your household per year)	(Cost to your household per year)	(Cost to your household per year)

Option A: Status Quo – No changes in management (All Low Conditions)	Option B	Option C
Corals and Sponges	Corals and Sponges	Corals and Sponges
No stony corals, only soft corals and	M: Up to 4 species of stony corals	L: No stony corals, only soft corals and
sponges	covering 5 to 20% of hard-bottom with 60	sponges
	to 90% live coral tissue.	
Up to 4 species of soft corals for a total of	H: 1 species of soft corals for a total of	M: Up to 3 species of soft corals for a
14 to 25 square centimeters per square meter	less than 4 square centimeters per square	total of 4 to 14 square centimeters per
	meter.	square meter.
Up to 4 species of sponges for a total of 7 to	1 species of sponges for a total of less	Up to 3 species of sponges for a total of 2
15 square centimeters per square meter	than 2 square centimeters per square meter.	to 7 square centimeters per square meter.
Fish and Wildlife	Fish and Wildlife	Fish and Wildlife
Up to two species of consumptive fish for a	M: 3 to 6 species of consumptive fish for	H: Up to 15 species of consumptive fish
total of 3 fish per square meter with no fish	a total of 10 fish per square meter with up	for a total of 100 or more fish per square
of legal size to keep	to 50% of legal size to keep.	meter with 75 to 100% of legal size to
		keep.
Up to 3 species of tropical/ornamental fish	H: 25 to 30 species of	L: Up to 3 species of tropical/ornamental
with a total of 3 fish per square meter	tropical/ornamental fish for a total of 20 to 100 or more fish per square meter.	fish with a total of 3 fish per square meter
No Macroinvertebrates (conch, lobster or	L: No Macroinvertebrates (conch,	H: 2 or more species of
urchins)	lobster or urchins)	Macroinvertebrates (conch, lobster or
		urchins) 1 lobster, 1 conch, and 20 or
		more urchins per square meter.
No opportunity to see large wildlife (sharks,	L: No opportunity to see large wildlife	H: Opportunity to see large wildlife
rays, turtles, manatees, dolphins)	(sharks, rays, turtles, manatees, dolphins)	(sharks, rays, turtles, manatees, dolphins)
No opportunity to see or catch Sport/Trophy	L: No opportunity to see or catch	H: Opportunity to catch or see
fish (ladyfish, permit, bonefish, tarpon,	Sport/Trophy fish (ladyfish, permit,	Sport/Trophy fish (ladyfish, permit,
snook, jacks)	bonefish, tarpon, snook, jacks)	bonefish, tarpon, snook, jacks)
Water Conditions Clarity Wieibility Less than 10 feet	Water Conditions	Water Conditions M. Clarity Wie ibility 10 to 50 feet
Clarity/Visibility: Less than 10 feet	H: Clarity/Visibility: Greater than 50 feet	M: Clarity/Visibility: 10 to 50 feet
Cleanliness: Not healthy for swimming	L: Cleanliness: Not healthy for swimming	H: Cleanliness: Healthy for swimming
Depth of Reefs: Greater than 60 feet	M: Depth of Reefs: 20 to 60 feet	L: Depth of Reefs: Greater than 60 feet
Crowdedness: 21 or more people	M: Crowdedness: 11 to 20 people	L: Crowdedness: 21 or more people
\$0	3	4
(Cost to your household per year)	(Cost to your household per year)	(Cost to your household per year)
(1 ()	1 (

Option A: Status Quo – No changes in	Option B	Option C
management (All Low Conditions)		
Corals and Sponges	Corals and Sponges	Corals and Sponges
No stony corals, only soft corals and	M: Up to 4 species of stony corals	H: 5 to 17 species of stony corals
sponges	covering 5 to 20% of hard-bottom with 60	covering more than 20% and up to 100%
	to 90% live coral tissue.	of hard-bottom with over 90% to 100%
		live coral tissue.
Up to 4 species of soft corals for a total of	L: Up to 4 species of soft corals for a	H: 1 species of soft corals for a total of
14 to 25 square centimeters per square meter	total of 14 to 25 square centimeters per	less than 4 square centimeters per square
	square meter	meter.
Up to 4 species of sponges for a total of 7 to	Up to 4 species of sponges for a total of 7	1 species of sponges for a total of less
15 square centimeters per square meter	to 15 square centimeters per square meter	than 2 square centimeters per square
		meter.
Fish and Wildlife	Fish and Wildlife	Fish and Wildlife
Up to two species of consumptive fish for a	H: Up to 15 species of consumptive fish	L: Up to two species of consumptive
total of 3 fish per square meter with no fish	for a total of 100 or more fish per square	fish for a total of 3 fish per square meter
of legal size to keep	meter with 75 to 100% of legal size to	with no fish of legal size to keep
	keep.	
Up to 3 species of tropical/ornamental fish	H: 25 to 30 species of	L: Up to 3 species of tropical/ornamental
with a total of 3 fish per square meter	tropical/ornamental fish for a total of 20	fish with a total of 3 fish per square meter
	to 100 or more fish per square meter.	
No Macroinvertebrates (conch, lobster or	L: No Macroinvertebrates (conch,	M: 1 species of Macroinvertebrates with
urchins)	lobster or urchins)	1 to 20 per square meter (urchins).
No opportunity to see large wildlife (sharks,	L: No opportunity to see large wildlife	H: Opportunity to see large wildlife
rays, turtles, manatees, dolphins)	(sharks, rays, turtles, manatees, dolphins)	(sharks, rays, turtles, manatees, dolphins)
No opportunity to see or catch Sport/Trophy	H: Opportunity to catch or see	L: No opportunity to see or catch
fish (ladyfish, permit, bonefish, tarpon,	Sport/Trophy fish (ladyfish, permit,	Sport/Trophy fish (ladyfish, permit,
snook, jacks)	bonefish, tarpon, snook, jacks)	bonefish, tarpon, snook, jacks)
Water Conditions	Water Conditions	Water Conditions
Clarity/Visibility: Less than 10 feet	M: Clarity/Visibility: 10 to 50 feet	L: Clarity/Visibility: Less than 10 feet
Cleanliness: Not healthy for swimming	L: Cleanliness: Not healthy for	H: Cleanliness: Healthy for swimming
	swimming	
Depth of Reefs: Greater than 60 feet	H: Depth of Reefs: less than 20 feet	M: Depth of Reefs: 20 to 60 feet
Crowdedness: 21 or more people	H: Crowdedness: 0 to 10 people	M: Crowdedness: 11 to 20 people
\$0	3	2
(Cost to your household per year)	(Cost to your household per year)	(Cost to your household per year)

Option A: Status Quo – No changes in management (All Low Conditions)	Option B	Option C
Corals and Sponges	Corals and Sponges	Corals and Sponges
No stony corals, only soft corals and sponges	M: Up to 4 species of stony corals covering 5 to 20% of hard-bottom with 60 to 90% live coral tissue.	L: No stony corals, only soft corals and sponges
Up to 4 species of soft corals for a total of 14 to 25 square centimeters per square meter	H: 1 species of soft corals for a total of less than 4 square centimeters per square meter.	M: Up to 3 species of soft corals for a total of 4 to 14 square centimeters per square meter.
Up to 4 species of sponges for a total of 7 to 15 square centimeters per square meter	1 species of sponges for a total of less than 2 square centimeters per square meter.	Up to 3 species of sponges for a total of 2 to 7 square centimeters per square meter.
Fish and Wildlife	Fish and Wildlife	Fish and Wildlife
Up to two species of consumptive fish for a total of 3 fish per square meter with no fish of legal size to keep	H: Up to 15 species of consumptive fish for a total of 100 or more fish per square meter with 75 to 100% of legal size to keep.	L: Up to two species of consumptive fish for a total of 3 fish per square meter with no fish of legal size to keep
Up to 3 species of tropical/ornamental fish with a total of 3 fish per square meter	L: Up to 3 species of tropical/ornamental fish with a total of 3 fish per square meter	M: 4 to 10 species of tropical/ornamental fish with a total of 10 fish per square meter.
No Macroinvertebrates (conch, lobster or urchins)	M: 1 species of Macroinvertebrates with 1 to 20 per square meter (urchins).	L: No Macroinvertebrates (conch, lobster or urchins)
No opportunity to see large wildlife (sharks, rays, turtles, manatees, dolphins)	H: Opportunity to see large wildlife (sharks, rays, turtles, manatees, dolphins)	L: No opportunity to see large wildlife (sharks, rays, turtles, manatees, dolphins)
No opportunity to see or catch Sport/Trophy fish (ladyfish, permit, bonefish, tarpon, snook, jacks)	L: No opportunity to see or catch Sport/Trophy fish (ladyfish, permit,	H: Opportunity to catch or see Sport/Trophy fish (ladyfish, permit, bonefish, tarpon, snook, jacks)
Water Conditions	Water Conditions	Water Conditions
Clarity/Visibility: Less than 10 feet	H: Clarity/Visibility: Greater than 50 feet	M: Clarity/Visibility: 10 to 50 feet
Cleanliness: Not healthy for swimming	L: Cleanliness: Not healthy for swimming	H: Cleanliness: Healthy for swimming
Depth of Reefs: Greater than 60 feet	H: Depth of Reefs: less than 20 feet	M: Depth of Reefs: 20 to 60 feet
Crowdedness: 21 or more people	H: Crowdedness: 0 to 10 people	M: Crowdedness: 11 to 20 people
\$0	5	3
(Cost to your household per year)	(Cost to your household per year)	(Cost to your household per year)

Option A: Status Quo – No changes in management (All Low Conditions)	Option B	Option C
Corals and Sponges	Corals and Sponges	Corals and Sponges
No stony corals, only soft corals and sponges	M: Up to 4 species of stony corals covering 5 to 20% of hard-bottom with 60 to 90% live coral tissue.	L: No stony corals, only soft corals and sponges
Up to 4 species of soft corals for a total of 14 to 25 square centimeters per square meter	M: Up to 3 species of soft corals for a total of 4 to 14 square centimeters per square meter.	H: 1 species of soft corals for a total of less than 4 square centimeters per square meter.
Up to 4 species of sponges for a total of 7 to 15 square centimeters per square meter	Up to 3 species of sponges for a total of 2 to 7 square centimeters per square meter.	1 species of sponges for a total of less than 2 square centimeters per square meter.
Fish and Wildlife	Fish and Wildlife	Fish and Wildlife
Up to two species of consumptive fish for a total of 3 fish per square meter with no fish of legal size to keep	L: Up to two species of consumptive fish for a total of 3 fish per square	H: Up to 15 species of consumptive fish for a total of 100 or more fish per square meter with 75
Up to 3 species of tropical/ornamental fish with a total of 3 fish per square meter	H: 25 to 30 species of tropical/ornamental fish for a total of 20 to 100 or more fish per square meter.	M: 4 to 10 species of tropical/ornamental fish with a total of 10 fish per square meter.
No Macroinvertebrates (conch, lobster or urchins)	H: 2 or more species of Macroinvertebrates (conch, lobster or urchins) 1 lobster, 1 conch, and 20 or more urchins per square meter.	M: 1 species of Macroinvertebrates with 1 to 20 per square meter (urchins).
No opportunity to see large wildlife (sharks, rays, turtles, manatees, dolphins)	H: Opportunity to see large wildlife (sharks, rays, turtles, manatees, dolphins)	L: No opportunity to see large wildlife (sharks, rays, turtles, manatees, dolphins)
No opportunity to see or catch Sport/Trophy fish (ladyfish, permit, bonefish, tarpon, snook, jacks)	H: Opportunity to catch or see Sport/Trophy fish (ladyfish, permit, bonefish, tarpon, snook, jacks)	L: No opportunity to see or catch Sport/Trophy fish (ladyfish, permit
Water Conditions	Water Conditions	Water Conditions
Clarity/Visibility: Less than 10 feet	L: Clarity/Visibility: Less than 10 feet	M:
Cleanliness: Not healthy for swimming	H: Cleanliness: Healthy for swimming	L: Cleanliness: Not healthy for swimming
Depth of Reefs: Greater than 60 feet	L: Depth of Reefs: Greater than 60 feet	H: Depth of Reefs: less than 20 feet
Crowdedness: 21 or more people	L: Crowdedness: 21 or more people	H: Crowdedness: 0 to 10 people
\$0	2	4
(Cost to your household per year)	(Cost to your household per year)	(Cost to your household per year)

Option A: Status Quo – No changes in management (All Low Conditions)	Option B	Option C
Corals and Sponges	Corals and Sponges	Corals and Sponges
No stony corals, only soft corals and sponges	H: 5 to 17 species of stony corals covering more than 20% and up to 100% of hard-bottom with over 90% to 100% live coral tissue.	M: Up to 4 species of stony corals covering 5 to 20% of hard-bottom with 60 to 90% live coral tissue.
Up to 4 species of soft corals for a total of 14 to 25 square centimeters per square meter	H: 1 species of soft corals for a total of less than 4 square centimeters per square meter.	L: Up to 4 species of soft corals for a total of 14 to 25 square centimeters per square meter
Up to 4 species of sponges for a total of 7 to 15 square centimeters per square meter	1 species of sponges for a total of less than 2 square centimeters per square meter.	Up to 4 species of sponges for a total of 7 to 15 square centimeters per square meter
Fish and Wildlife	Fish and Wildlife	Fish and Wildlife
Up to two species of consumptive fish for a total of 3 fish per square meter with no fish of legal size to keep Up to 3 species of tropical/ornamental fish with a total of 3 fish per square meter No Macroinvertebrates (conch, lobster or urchins)	 M: 3 to 6 species of consumptive fish for a total of 10 fish per square meter with up to 50% of legal size to keep. M: 4 to 10 species of tropical/ornamental fish with a total of 10 fish per square meter. H: 2 or more species of Macroinvertebrates (conch, lobster or 	L: Up to two species of consumptive fish for a total of 3 fish per square meter with no fish of legal size to keep H: 25 to 30 species of tropical/ornamental fish for a total of 20 to 100 or more fish per square meter. L: No Macroinvertebrates (conch, lobster or urchins)
No opportunity to see large wildlife (sharks,	urchins) 1 lobster, 1 conch, and 20 or more urchins per square meter. L: No opportunity to see large wildlife	H: Opportunity to see large wildlife
rays, turtles, manatees, dolphins)	(sharks, rays, turtles, manatees, dolphins)	(sharks, rays, turtles, manatees, dolphins)
No opportunity to see or catch Sport/Trophy fish (ladyfish, permit, bonefish, tarpon, snook, jacks)	L: No opportunity to see or catch Sport/Trophy fish (ladyfish, permit, bonefish, tarpon, snook, jacks)	H: Opportunity to catch or see Sport/Trophy fish (ladyfish, permit, bonefish, tarpon, snook, jacks)
Water Conditions	Water Conditions	Water Conditions
Clarity/Visibility: Less than 10 feet	L: Clarity/Visibility: Less than 10 feet	M: Clarity/Visibility: 10 to 50 feet
Cleanliness: Not healthy for swimming	H: Cleanliness: Healthy for swimming	H: Cleanliness: Healthy for swimming
Depth of Reefs: Greater than 60 feet	M: Depth of Reefs: 20 to 60 feet	H: Depth of Reefs: less than 20 feet
Crowdedness: 21 or more people	M: Crowdedness: 11 to 20 people	H: Crowdedness: 0 to 10 people
\$0	6	1
(Cost to your household per year)	(Cost to your household per year)	(Cost to your household per year)

Option A: Status Quo – No changes in management (All Low Conditions)	Option B	Option C
Corals and Sponges	Corals and Sponges	Corals and Sponges
No stony corals, only soft corals and	L: No stony corals, only soft corals and	M: Up to 4 species of stony corals
sponges	sponges	covering 5 to 20% of hard-bottom with 60 to 90% live coral tissue.
Up to 4 species of soft corals for a total of	H: 1 species of soft corals for a total of	M: Up to 3 species of soft corals for a
14 to 25 square centimeters per square meter	less than 4 square centimeters per square meter.	total of 4 to 14 square centimeters per square meter.
Up to 4 species of sponges for a total of 7 to	1 species of sponges for a total of less	Up to 3 species of sponges for a total of 2
15 square centimeters per square meter	than 2 square centimeters per square meter.	to 7 square centimeters per square meter.
Fish and Wildlife	Fish and Wildlife	Fish and Wildlife
Up to two species of consumptive fish for a	H: Up to 15 species of consumptive fish	M: 3 to 6 species of consumptive fish for
total of 3 fish per square meter with no fish	for a total of 100 or more fish per square	a total of 10 fish per square meter with up
of legal size to keep	meter with 75 to 100% of legal size to keep.	to 50% of legal size to keep.
Up to 3 species of tropical/ornamental fish	L: Up to 3 species of tropical/ornamental	M: 4 to 10 species of tropical/ornamental
with a total of 3 fish per square meter	fish with a total of 3 fish per square meter	fish with a total of 10 fish per square meter.
No Macroinvertebrates (conch, lobster or	H: 2 or more species of	L: No Macroinvertebrates (conch,
urchins)	Macroinvertebrates (conch, lobster or	lobster or urchins)
	urchins) 1 lobster, 1 conch, and 20 or more urchins per square meter.	
No opportunity to see large wildlife (sharks,	L: No opportunity to see large wildlife	H: Opportunity to see large wildlife
rays, turtles, manatees, dolphins)	(sharks, rays, turtles, manatees, dolphins)	(sharks, rays, turtles, manatees, dolphins)
No opportunity to see or catch Sport/Trophy	H: Opportunity to catch or see	L: No opportunity to see or catch
fish (ladyfish, permit, bonefish, tarpon,	Sport/Trophy fish (ladyfish, permit,	Sport/Trophy fish (ladyfish, permit,
snook, jacks)	bonefish, tarpon, snook, jacks)	bonefish, tarpon, snook, jacks)
Water Conditions	Water Conditions	Water Conditions
Clarity/Visibility: Less than 10 feet	H: Clarity/Visibility: Greater than 50 feet	M: Clarity/Visibility: 10 to 50 feet
Cleanliness: Not healthy for swimming	H: Cleanliness: Healthy for swimming	H: Cleanliness: Healthy for swimming
Depth of Reefs: Greater than 60 feet	L: Depth of Reefs: Greater than 60 feet	H: Depth of Reefs: less than 20 feet
Crowdedness: 21 or more people	L: Crowdedness: 21 or more people	H: Crowdedness: 0 to 10 people
\$0	3	6
(Cost to your household per year)	(Cost to your household per year)	(Cost to your household per year)

Option A: Status Quo – No changes in management (All Low Conditions)	Option B	Option C
Corals and Sponges	Corals and Sponges	Corals and Sponges
No stony corals, only soft corals and	M: Up to 4 species of stony corals	H: 5 to 17 species of stony corals
sponges	covering 5 to 20% of hard-bottom with 60	covering more than 20% and up to 100%
	to 90% live coral tissue.	of hard-bottom with over 90% to 100%
		live coral tissue.
Up to 4 species of soft corals for a total of	M: Up to 3 species of soft corals for a	L: Up to 4 species of soft corals for a
14 to 25 square centimeters per square meter	total of 4 to 14 square centimeters per	total of 14 to 25 square centimeters per
	square meter.	square meter
Up to 4 species of sponges for a total of 7 to	Up to 3 species of sponges for a total of 2	Up to 4 species of sponges for a total of 7
15 square centimeters per square meter	to 7 square centimeters per square meter.	to 15 square centimeters per square meter
Fish and Wildlife	Fish and Wildlife	Fish and Wildlife
Up to two species of consumptive fish for a	M: 3 to 6 species of consumptive fish for	H: Up to 15 species of consumptive fish
total of 3 fish per square meter with no fish	a total of 10 fish per square meter with up	for a total of 100 or more fish per square
of legal size to keep	to 50% of legal size to keep.	meter with 75 to 100% of legal size to
		keep.
Up to 3 species of tropical/ornamental fish	H: 25 to 30 species of	L: Up to 3 species of
with a total of 3 fish per square meter	tropical/ornamental fish for a total of 20	tropical/ornamental fish
	to 100 or more fish per square meter.	
No Macroinvertebrates (conch, lobster or	L: No Macroinvertebrates (conch,	M: 1 species of Macroinvertebrates with
urchins)	lobster or urchins)	1 to 20 per square meter (urchins).
No opportunity to see large wildlife (sharks,	L: No opportunity to see large wildlife	H: Opportunity to see large wildlife
rays, turtles, manatees, dolphins)	(sharks, rays, turtles, manatees, dolphins)	(sharks, rays, turtles, manatees, dolphins)
No opportunity to see or catch Sport/Trophy	L: No opportunity to see or catch	H: Opportunity to catch or see
fish (ladyfish, permit, bonefish, tarpon,	Sport/Trophy fish (ladyfish, permit,	Sport/Trophy fish (ladyfish, permit,
snook, jacks)	bonefish, tarpon, snook, jacks)	bonefish, tarpon, snook, jacks)
Water Conditions	Water Conditions	Water Conditions
Clarity/Visibility: Less than 10 feet	H: Clarity/Visibility: Greater than 50	L: Clarity/Visibility: Less than 10 feet
	feet	
Cleanliness: Not healthy for swimming	L: Cleanliness: Not healthy for	H: Cleanliness: Healthy for swimming
	swimming	
Depth of Reefs: Greater than 60 feet	M: Depth of Reefs: 20 to 60 feet	H: Depth of Reefs: less than 20 feet
Crowdedness: 21 or more people	M: Crowdedness: 11 to 20 people	H: Crowdedness: 0 to 10 people
\$0	4	3
(Cost to your household per year)	(Cost to your household per year)	(Cost to your household per year)

Option A: Status Quo – No changes in	Option B	Option C
management (All Low Conditions)	_	_
Corals and Sponges	Corals and Sponges	Corals and Sponges
No stony corals, only soft corals and	H: 5 to 17 species of stony corals	L: Crowdedness: 0 to 10 people
sponges	covering more than 20% and up to 100%	
	of hard-bottom with over 90% to 100%	
	live coral tissue.	
Up to 4 species of soft corals for a total of	H: 1 species of soft corals for a total of	M: Up to 3 species of soft corals for a
14 to 25 square centimeters per square meter	less than 4 square centimeters per square	total of 4 to 14 square centimeters per
	meter.	square meter.
Up to 4 species of sponges for a total of 7 to	1 species of sponges for a total of less	Up to 3 species of sponges for a total of 2
15 square centimeters per square meter	than 2 square centimeters per square	to 7 square centimeters per square meter.
	meter.	
Fish and Wildlife	Fish and Wildlife	Fish and Wildlife
Up to two species of consumptive fish for a	L: Up to two species of consumptive fish	H: Up to 15 species of consumptive fish
total of 3 fish per square meter with no fish	for a total of 3 fish per square meter	for a total of 100 or more fish per square
of legal size to keep		meter with 75 to 100% of legal size to
		keep.
Up to 3 species of tropical/ornamental fish	L: Up to 3 species of tropical/ornamental	M: 4 to 10 species of tropical/ornamental
with a total of 3 fish per square meter	fish with a total of 3 fish per square meter	fish with a total of 10 fish per square
N. M		meter.
No Macroinvertebrates (conch, lobster or	H: 2 or more species of	M: 1 species of Macroinvertebrates with
urchins)	Macroinvertebrates (conch, lobster or	1 to 20 per square meter (urchins).
	urchins) 1 lobster, 1 conch, and 20 or	
N 1 1 11111111111111111111111111111111	more urchins per square meter.	T N 1 1 111C
No opportunity to see large wildlife (sharks,	H: Opportunity to see large wildlife	L: No opportunity to see large wildlife
rays, turtles, manatees, dolphins)	(sharks, rays, turtles, manatees, dolphins)	(sharks, rays, turtles, manatees, dolphins)
No opportunity to see or catch Sport/Trophy	H: Opportunity to catch or see	L: No opportunity to see or catch
fish (ladyfish, permit, bonefish, tarpon,	Sport/Trophy fish (ladyfish, permit,	Sport/Trophy fish (ladyfish, permit
snook, jacks) Water Conditions	bonefish, tarpon, snook, jacks)	Water Carditions
	Water Conditions	Water Conditions M: Clarity/Visibility: 10 to 50 feet
Clarity/Visibility: Less than 10 feet	L: Clarity/Visibility: Less than 10 feet	
Cleanliness: Not healthy for swimming	L: Cleanliness: Not healthy for swimming	H: Cleanliness: Healthy for swimming
Depth of Reefs: Greater than 60 feet	H: Depth of Reefs: less than 20 feet	L: Depth of Reefs: Greater than 60 feet
Crowdedness: 21 or more people	H: Crowdedness: 0 to 10 people	L: Crowdedness: 21 or more people
\$0	3	2
(Cost to your household per year)	(Cost to your household per year)	(Cost to your household per year)

Option A: Status Quo – No changes in management (All Low Conditions)	Option B	Option C
Corals and Sponges	Corals and Sponges	Corals and Sponges
No stony corals, only soft corals and	H: 5 to 17 species of stony corals	M: Up to 4 species of stony corals
sponges	covering more than 20% and up to 100%	covering 5 to 20% of hard-bottom with 60
	of hard-bottom with over 90% to 100%	to 90% live coral tissue.
	live coral tissue.	
Up to 4 species of soft corals for a total of	L: Up to 4 species of soft corals for a	H: 1 species of soft corals for a total of
14 to 25 square centimeters per square meter	total of 14 to 25 square centimeters per	less than 4 square centimeters per square
	square meter	meter.
Up to 4 species of sponges for a total of 7 to	Up to 4 species of sponges for a total of 7	1 species of sponges for a total of less
15 square centimeters per square meter	to 15 square centimeters per square meter	than 2 square centimeters per square
		meter.
Fish and Wildlife	Fish and Wildlife	Fish and Wildlife
Up to two species of consumptive fish for a	M: 3 to 6 species of consumptive fish for	L: Up to two species of consumptive fish
total of 3 fish per square meter with no fish	a total of 10 fish per square meter with	for a total of 3 fish per square meter with
of legal size to keep		no fish of legal size to keep
Up to 3 species of tropical/ornamental fish	M: 4 to 10 species of tropical/ornamental	H: 25 to 30 species of
with a total of 3 fish per square meter	fish with a total of 10 fish per square	tropical/ornamental fish for a total of 20
	meter.	to 100 or more fish per square meter.
No Macroinvertebrates (conch, lobster or	H: 2 or more species of	M: 1 species of Macroinvertebrates with
urchins)	Macroinvertebrates (conch, lobster or	1 to 20 per square meter (urchins).
	urchins) 1 lobster, 1 conch, and 20 or	
	more urchins per square meter.	
No opportunity to see large wildlife (sharks,	L: No opportunity to see large wildlife	H: Opportunity to see large wildlife
rays, turtles, manatees, dolphins)	(sharks, rays, turtles, manatees, dolphins)	(sharks, rays, turtles, manatees, dolphins)
No opportunity to see or catch Sport/Trophy	L: No opportunity to see or catch	H: Opportunity to catch or see
fish (ladyfish, permit, bonefish, tarpon,	Sport/Trophy fish (ladyfish, permit,	Sport/Trophy fish (ladyfish, permit,
snook, jacks)	bonefish, tarpon, snook, jacks)	bonefish, tarpon, snook, jacks)
Water Conditions	Water Conditions	Water Conditions
Clarity/Visibility: Less than 10 feet	L: Clarity/Visibility: Less than 10 feet	H: Clarity/Visibility: Greater than 50
	T GI II XX 11 G	feet
Cleanliness: Not healthy for swimming	H: Cleanliness: Healthy for swimming	L: Cleanliness: Not healthy for
	16 D 4 6D 6 20 (0.0)	swimming
Depth of Reefs: Greater than 60 feet	M: Depth of Reefs: 20 to 60 feet	L: Depth of Reefs: Greater than 60 feet
Crowdedness: 21 or more people	M: Crowdedness: 11 to 20 people	L: Crowdedness: 21 or more people
\$0	1	5
(Cost to your household per year)	(Cost to your household per year)	(Cost to your household per year)

Option A: Status Quo – No changes in management (All Low Conditions)	Option B	Option C
Corals and Sponges	Corals and Sponges	Corals and Sponges
No stony corals, only soft corals and	H: 5 to 17 species of stony corals	L: No stony corals, only soft corals and
sponges	covering more than 20% and up to 100%	sponges
1,1-01	of hard-bottom with over 90% to 100%	1, 2, 2, 2, 3
	live coral tissue.	
Up to 4 species of soft corals for a total of	M: Up to 3 species of soft corals for a	H: 1 species of soft corals for a total of
14 to 25 square centimeters per square meter	total of 4 to 14 square centimeters per	less than 4 square centimeters per square
	square meter.	meter.
Up to 4 species of sponges for a total of 7 to	Up to 3 species of sponges for a total of 2	1 species of sponges for a total of less
15 square centimeters per square meter	to 7 square centimeters per square meter.	than 2 square centimeters per square
		meter.
Fish and Wildlife	Fish and Wildlife	Fish and Wildlife
Up to two species of consumptive fish for a	H: Up to 15 species of consumptive fish	M: 3 to 6 species of consumptive fish for
total of 3 fish per square meter with no fish	for a total of 100 or more fish per square	a total of 10 fish per square meter with up
of legal size to keep	meter with 75 to 100% of legal size to	to 50% of legal size to keep.
	keep.	
Up to 3 species of tropical/ornamental fish	L: Up to 3 species of tropical/ornamental	H: 25 to 30 species of
with a total of 3 fish per square meter	fish with a total of 3 fish per square meter	tropical/ornamental fish for a total of 20
		to 100 or more fish per square meter.
No Macroinvertebrates (conch, lobster or	L: No Macroinvertebrates (conch,	M: 1 species of Macroinvertebrates with
urchins)	lobster or urchins)	1 to 20 per square meter (urchins).
No opportunity to see large wildlife (sharks,	H: Opportunity to see large wildlife	L: No opportunity to see large wildlife
rays, turtles, manatees, dolphins)	(sharks, rays, turtles, manatees, dolphins)	(sharks, rays, turtles, manatees, dolphins)
No opportunity to see or catch Sport/Trophy	L: No opportunity to see or catch	H: Opportunity to catch or see
fish (ladyfish, permit, bonefish, tarpon,	Sport/Trophy fish (ladyfish, permit,	Sport/Trophy fish (ladyfish, permit,
snook, jacks)	bonefish, tarpon, snook, jacks)	bonefish, tarpon, snook, jacks)
Water Conditions	Water Conditions	Water Conditions
Clarity/Visibility: Less than 10 feet	H: Clarity/Visibility: Greater than 50	L: Clarity/Visibility: Less than 10 feet
	feet H. Cl. III. H. Lt. f	T Cl 1' N 1 11 C
Cleanliness: Not healthy for swimming	H: Cleanliness: Healthy for swimming	L: Cleanliness: Not healthy for
Don'th of Doofes Canadag than 60 feet	L. Donth of Doofes Creater their (Office	swimming M. Donth of Boofer 20 to 60 foot
Depth of Reefs: Greater than 60 feet Crowdedness: 21 or more people	L: Depth of Reefs: Greater than 60 feet L: Crowdedness: 21 or more people	M: Depth of Reefs: 20 to 60 feet M: Crowdedness: 11 to 20 people
	L: Crowdedness: 21 or more people	1 Crowdedness: 11 to 20 people
\$0	4	1
(Cost to your household per year)	(Cost to your household per year)	(Cost to your household per year)

Option A: Status Quo – No changes in	Option B	Option C
management (All Low Conditions)	_	_
Corals and Sponges	Corals and Sponges	Corals and Sponges
No stony corals, only soft corals and	M: Up to 4 species of stony corals	L: No stony corals, only soft corals and
sponges	covering 5 to 20% of hard-bottom with 60	sponges
	to 90% live coral tissue.	
Up to 4 species of soft corals for a total of	H: 1 species of soft corals for a total of	L: Up to 4 species of soft corals for a
14 to 25 square centimeters per square meter	less than 4 square centimeters per square	total of 14 to 25 square centimeters per
	meter.	square meter
Up to 4 species of sponges for a total of 7 to	1 species of sponges for a total of less	Up to 4 species of sponges for a total of 7
15 square centimeters per square meter	than 2 square centimeters per square	to 15 square centimeters per square meter
	meter.	
Fish and Wildlife	Fish and Wildlife	Fish and Wildlife
Up to two species of consumptive fish for a	H: Up to 15 species of consumptive fish	M: 3 to 6 species of consumptive fish for
total of 3 fish per square meter with no fish	for a total of 100 or more fish per square	a total of 10 fish per square meter with up
of legal size to keep	meter with	to 50% of legal size to keep.
Up to 3 species of tropical/ornamental fish	L: Up to 3 species of tropical/ornamental	M: 4 to 10 species of tropical/ornamental
with a total of 3 fish per square meter	fish with a total of 3 fish per square meter	fish with a
No Macroinvertebrates (conch, lobster or	H: 2 or more species of	M: 1 species of Macroinvertebrates with
urchins)	Macroinvertebrates (conch, lobster or	1 to 20 per square meter (urchins).
	urchins) 1 lobster, 1 conch, and 20 or	
	more urchins per square meter.	
No opportunity to see large wildlife (sharks,	L: No opportunity to see large wildlife	H: Opportunity to see large wildlife
rays, turtles, manatees, dolphins)	(sharks, rays, turtles, manatees, dolphins)	(sharks, rays, turtles, manatees, dolphins)
No opportunity to see or catch Sport/Trophy	L: No opportunity to see or catch	H: Opportunity to catch or see
fish (ladyfish, permit, bonefish, tarpon,	Sport/Trophy fish (ladyfish, permit,	Sport/Trophy fish (ladyfish, permit,
snook, jacks)	bonefish, tarpon, snook, jacks)	bonefish, tarpon, snook, jacks)
Water Conditions	Water Conditions	Water Conditions
Clarity/Visibility: Less than 10 feet	L: Clarity/Visibility: Less than 10 feet	M: Clarity/Visibility: 10 to 50 feet
Cleanliness: Not healthy for swimming	H: Cleanliness: Healthy for swimming	H: Cleanliness: Healthy for swimming
Depth of Reefs: Greater than 60 feet	M: Depth of Reefs: 20 to 60 feet	L: Depth of Reefs: Greater than 60 feet
Crowdedness: 21 or more people	M: Depth of Reefs: 20 to 60 feet	L: Crowdedness: 21 or more people
\$0	5	3
(Cost to your household per year)	(Cost to your household per year)	(Cost to your household per year)

Option A: Status Quo – No changes in management (All Low Conditions)	Option B	Option C
Corals and Sponges	Corals and Sponges	Corals and Sponges
No stony corals, only soft corals and	M: Up to 4 species of stony corals	L: No stony corals, only soft corals and
sponges	covering 5 to 20% of hard-bottom with 60	sponges
	to 90% live coral tissue.	
Up to 4 species of soft corals for a total of	M: Up to 3 species of soft corals for a	L: Up to 4 species of soft corals for a
14 to 25 square centimeters per square meter	total of 4 to 14 square centimeters per	total of 14 to 25 square centimeters per
	square meter.	square meter
Up to 4 species of sponges for a total of 7 to	Up to 3 species of sponges for a total of 2	Up to 4 species of sponges for a total of 7
15 square centimeters per square meter	to 7 square centimeters	to 15 square centimeters per square meter
Fish and Wildlife	Fish and Wildlife	Fish and Wildlife
Up to two species of consumptive fish for a	L: Up to two species of consumptive fish	M: 3 to 6 species of consumptive fish for
total of 3 fish per square meter with no fish	for a total of 3 fish per square	a total of 10 fish per square meter with up
of legal size to keep		to 50% of legal size to keep.
Up to 3 species of tropical/ornamental fish	M: 4 to 10 species of tropical/ornamental	L: Up to 3 species of tropical/ornamental
with a total of 3 fish per square meter	fish with a total of 10 fish per square	fish with a total of 3 fish per square meter
	meter.	
No Macroinvertebrates (conch, lobster or	H: 2 or more species of	M: 1 species of Macroinvertebrates with
urchins)	Macroinvertebrates (conch, lobster or	1 to 20 per square meter (urchins).
	urchins) 1 lobster, 1 conch, and 20 or	
	more urchins per square meter.	
No opportunity to see large wildlife (sharks,	L: No opportunity to see large wildlife	H: 2 or more species of
rays, turtles, manatees, dolphins)	(sharks, rays, turtles, manatees, dolphins)	Macroinvertebrates (conch, lobster or
		urchins) 1 lobster, 1 conch, and 20 or
		more urchins per square meter.
No opportunity to see or catch Sport/Trophy	H: Opportunity to catch or see	L: No opportunity to see or catch
fish (ladyfish, permit, bonefish, tarpon,	Sport/Trophy fish (ladyfish, permit,	Sport/Trophy fish (ladyfish, permit,
snook, jacks)	bonefish, tarpon, snook, jacks)	bonefish, tarpon, snook, jacks)
Water Conditions	Water Conditions	Water Conditions
Clarity/Visibility: Less than 10 feet	L: Clarity/Visibility: Less than 10 feet	H: Clarity/Visibility: Greater than 50
		feet
Cleanliness: Not healthy for swimming	L: Cleanliness: Not healthy for	H: Cleanliness: Healthy for swimming
	swimming	
Depth of Reefs: Greater than 60 feet	H: Depth of Reefs: less than 20 feet	M: Depth of Reefs: 20 to 60 feet
Crowdedness: 21 or more people	H: Crowdedness: 0 to 10 people	M: Depth of Reefs: 20 to 60 feet
\$0	2	5
(Cost to your household per year)	(Cost to your household per year)	(Cost to your household per year)

Option A: Status Quo – No changes in management (All Low Conditions)	Option B	Option C
Corals and Sponges	Corals and Sponges	Corals and Sponges
No stony corals, only soft corals and sponges	L: No stony corals, only soft corals and sponges	H: 5 to 17 species of stony corals covering more than 20% and up to 100% of hard-bottom with over 90% to 100% live coral tissue.
Up to 4 species of soft corals for a total of 14 to 25 square centimeters per square meter	M: Up to 3 species of soft corals for a total of 4 to 14 square centimeters per square meter.	H: 1 species of soft corals for a total of less than 4 square centimeters per square meter.
Up to 4 species of sponges for a total of 7 to 15 square centimeters per square meter	Up to 3 species of sponges for a total of 2 to 7 square centimeters per square meter.	1 species of sponges for a total of less than 2 square centimeters per square meter.
Fish and Wildlife	Fish and Wildlife	Fish and Wildlife
Up to two species of consumptive fish for a total of 3 fish per square meter with no fish of legal size to keep Up to 3 species of tropical/ornamental fish with a total of 3 fish per square meter No Macroinvertebrates (conch, lobster or urchins) No opportunity to see large wildlife (sharks, rays, turtles, manatees, dolphins) No opportunity to see or catch Sport/Trophy fish (ladyfish, permit, bonefish, tarpon, snook, jacks)	 M: 3 to 6 species of consumptive fish for a total of 10 fish per square meter with up to 50% of legal size to keep. H: 25 to 30 species of tropical/ornamental fish for a total of 20 to 100 or more fish per square meter. M: 1 species of Macroinvertebrates with 1 to 20 per square meter (urchins). H: Opportunity to see large wildlife (sharks, rays, turtles, manatees, dolphins) H: Opportunity to catch or see Sport/Trophy fish (ladyfish, permit, bonefish, tarpon, snook, jacks) 	L: Up to two species of consumptive fish for a total of 3 fish per square meter with no fish of legal size to keep M: 4 to 10 species of tropical/ornamental fish with a total of 10 fish per square meter. L: No Macroinvertebrates (conch, lobster or urchins) L: No opportunity to see large wildlife (sharks, rays, turtles, manatees, dolphins) L: No opportunity to see or catch Sport/Trophy fish (ladyfish, permit, bonefish, tarpon, snook, jacks)
Water Conditions	Water Conditions	Water Conditions
Clarity/Visibility: Less than 10 feet	L: Clarity/Visibility: Less than 10 feet	M: Clarity/Visibility: 10 to 50 feet
Cleanliness: Not healthy for swimming	L: Cleanliness: Not healthy for swimming	H: Cleanliness: Healthy for swimming
Depth of Reefs: Greater than 60 feet	M: Depth of Reefs: 20 to 60 feet	H: Depth of Reefs: less than 20 feet
Crowdedness: 21 or more people	M: Depth of Reefs: 20 to 60 feet	H: Crowdedness: 0 to 10 people
\$0	2	1
(Cost to your household per year)	(Cost to your household per year)	(Cost to your household per year)