**COMMUNITY SURVEY ON THE TAPIR MOUNTAIN NATURE RESERVE**

**Cover Page**

| Community |  |
| --- | --- |
| Building Number |  |
| Dwelling Number |  |
| Household Number |  |
| Name of HH Head |  |
| Language |  |
| ED |  |
| Stratum |  |
| Date and Time | Visit 1: \_\_\_:\_\_\_\_\_\_ O am O pm Date:\_\_\_/\_\_\_\_/\_\_\_\_ |
|  | Visit 2: \_\_\_:\_\_\_\_\_\_ O am O pm Date:\_\_\_/\_\_\_\_/\_\_\_\_ |
|  | Visit 3: \_\_\_:\_\_\_\_\_\_ O am O pm Date:\_\_\_/\_\_\_\_/\_\_\_\_ |
| Interviewer Number |  |
| Result Code |  |

Question Summary

**Household Questionnaire**

**Introduction and Consent**

Hello, my name is \_\_\_\_\_\_\_\_\_\_, I’m an interviewer hired by the Belize Karst Habitat Conservation in partnership with Belize Analytics. We are conducting a community assessment survey. The goal of this survey is to learn about the community’s thoughts, perceptions, and activities regarding the environment in and near the community. The results will allow the Belize Karst Habitat Conservation to develop programs to assist communities and households in managing the environment and better their livelihoods.

The interview will take approximately 25 minutes, and any information you provide will be private and protected and will only be used for planning and helping households and the environment. You may end the interview at any time.

May I begin?

CN1. Do you agree to participate?

O Yes

O No

IF NO, THANK RESPONDENT AND END INTERVIEW

**SECTION1: LISTING AND GENERAL CHARACTERISTICS OF MEMBERS**

**Person Answering \_\_\_\_\_\_\_**

| **HL1** | | **HL2** | **HL3** | **HL4** | **HL5** | **HL6** |
| --- | --- | --- | --- | --- | --- | --- |
| READ | | | **Age** | **Relation To Head** | **Sex** | **Ethnicity** |
| **First, I will be listing your household members.**  **Kindly begin with the head of the household and then give me the names of the other members in order of age, from the oldest to youngest.** | | | **What is your/N’s current age?**  0 =Less  than 1 year old  98=98 or  older  99=DK/NS | **What is your/N’s relationship to the head of this household?**  1=Head  2=Spouse/Partner  3=Child  4=in-law  (son, daughter)  5=Grandchild  6=Parent/ Parent-in-law  7=Other Relative  8=Non-Relative  9=DK/NS | **What is your/N’s sex?**  1=Male  2=Female  9=DK/NS | **Which ethnic group do you/does N identify with most?**  1=Mestizo/Hispanic  2=Creole  3=Maya  4=Garifuna  5=Mennonite  6= East Indian  7=Other (Specify)  9=DK/NS |
|
| **person**  **Number** | | **FULL NAME**  **(First, last)** | **Age** | **Relation** | **Sex** | **Ethnicity** |
|  | 1 |  | |  |  | | --- | --- | | ❶②③④⑤⑥⑦⑧⑨ | ①②⑨ | ①②③④⑤⑥⑦⑨  Specify:\_\_\_\_\_\_\_\_\_ |
|  | 2 |  | |  |  | | --- | --- | | ②③④⑤⑥⑦⑧⑨ | ①②⑨ | ①②③④⑤⑥⑦⑨  Specify:\_\_\_\_\_\_\_\_\_ |
|  | 3 |  | |  |  | | --- | --- | | ②③④⑤⑥⑦⑧⑨ | ①②⑨ | ①②③④⑤⑥⑦⑨  Specify:\_\_\_\_\_\_\_\_\_ |
|  | 4 |  | |  |  | | --- | --- | | ②③④⑤⑥⑦⑧⑨ | ①②⑨ | ①②③④⑤⑥⑦⑨  Specify:\_\_\_\_\_\_\_\_\_ |
|  | 5 |  | |  |  | | --- | --- | | ②③④⑤⑥⑦⑧⑨ | ①②⑨ | ①②③④⑤⑥⑦⑨  Specify:\_\_\_\_\_\_\_\_\_ |
|  |  |  |  |  |  |  |

**SECTION 2: EDUCATION MODULE (FOR PERSONS 5 YEARS AND OLDER)**

|  | |  | **ED1** | **ED2** | **ED3** |
| --- | --- | --- | --- | --- | --- |
| **Person**  **Number** | | **Name** | **School** | **Present Education** | **Last Education** |
|  | | **TRANSFER NAMES OF**  **HOUSEHOLD MEMBERS**  **5 YEARS AND OLDER**  **FROM THE HOUSEHOLD**  **LISTING MODULE** | **Are you/ Is N presently attending school?** | **In what class/form/**  **level are you/is N presently?** | **What was the last class/form/level you have/N has completed?** |
|  | | | 1=Yes  2=No  9=DK/NS  I**F 2 or 9 go to ED3** | 1=infant I 11=3rd Form  2=infant II 12=4th Form  3=Standard I 13=Associate/6th  4=Standard II Form Junior College  5=Standard III 14=Bachelors  6=Standard IV 15=master’s or Higher  7=Standard V 16=Other  8=Standard VI 17=None  9=1st Form 18=Never Attended  10=2nd Form 99=DK/NS | |
|  | 1 |  | ①②⑨ | ① ⑨ ⓪①②③④⑤⑥⑦⑧⑨ | ① ⑨ ⓪①②③④⑤⑥⑦⑧⑨ |
|  | 2 |  | ①②⑨ | ① ⑨ ⓪①②③④⑤⑥⑦⑧⑨ | ① ⑨ ⓪①②③④⑤⑥⑦⑧⑨ |
|  | 3 |  | ①②⑨ | ① ⑨ ⓪①②③④⑤⑥⑦⑧⑨ | ① ⑨ ⓪①②③④⑤⑥⑦⑧⑨ |
|  | 4 |  | ①②⑨ | ① ⑨ ⓪①②③④⑤⑥⑦⑧⑨ | ① ⑨ ⓪①②③④⑤⑥⑦⑧⑨ |
|  | 5 |  | ①②⑨ | ① ⑨ ⓪①②③④⑤⑥⑦⑧⑨ | ① ⑨ ⓪①②③④⑤⑥⑦⑧⑨ |

**SECTION 3:EMPLOYMENT (FOR PERSONS 14 YEARS AND OLDER)**

| Person No | |  | **EM1** | **EM2** | **EM3** |
| --- | --- | --- | --- | --- | --- |
| TRANSFER THE NAMES OF HOUSEHOLD MEMBERS 10 YEARS AND OVER | | | **Employment** | **Type of Worker** | **Job Title** |
|  | | | **Are you/Is N currently employed or working for payment? (Includes self-employed)**  **1=Yes**  **2=No**  **9= DK/NS**  **IF NO OR DK/NS, GO TO THE NEXT PERSON** | **What type of worker best describes you/N in your/their main job?**  1=Self Employed without paid help  2=Self Employed with paid help  3=Employee of government, quasi-government or NGO  4=Private employee  5=Contributing family workers  6=Other  9= DK/NS | **What is your/N’s MAIN job title?** |
|  |
|  | 1 |  | ①②⑨ | ①②③④⑤⑥⑨ | O DK/NS |
|  | 2 |  | ①②⑨ | ①②③④⑤⑥⑨ | O DK/NS |
|  | 3 |  | ①②⑨ | ①②③④⑤⑥⑨ | O DK/NS |
|  | 4 |  | ①②⑨ | ①②③④⑤⑥⑨ | O DK/NS |
|  | 5 |  | ①②⑨ | ①②③④⑤⑥⑨ | O DK/NS |
|  | 6 |  | ①②⑨ | ①②③④⑤⑥⑨ | O DK/NS |

**SECTION 4 KNOWLEDGE AREA**

**I will now ask you some questions about the environment.**

**K1. Have you ever heard about the term *environmental conservation*?**

**O** Yes

O No

O DK/NS

**IF NO OR DK/NS, GO TO K3**

| **K2. Related to environmental conservation, have you heard about …?**  **READ EACH RESPONSE AND ALLOW RESPONDENT TO SPECIFY ‘YES’ OR ‘NO’**  1= Yes  2= No | | **On a scale of 1 to 5, with 5 being the highest, how would you rate your knowledge on ….?**  **USE FLASHCARD** |
| --- | --- | --- |
| 1. Protecting Wildlife and Nature | ①② | ①②③④⑤ |
| 1. Using Resources Wisely | ①② | ①②③④⑤ |
| 1. Pollution | ①② | ①②③④⑤ |
| 1. Clean and Reusable Power | ①② | ①②③④⑤ |
| 1. Habitat Restoration. | ①② | ①②③④⑤ |
| 1. Waste Reduction and Recycling | ①② | ①②③④⑤ |

**K3. Have you ever heard about theTapir Mountain Nature Reserve, formerly known as Society Hall Nature Reserve?**

O Yes **GO TO K4**

O No

O Not stated

**K3.1. Have you heard about a reserve that is located near this community?**

O Yes

O No **GO TO K9.4**

O Not stated **GO TO K9.4**

**IF YES IS SELECTED READ THE FOLLOWING STATEMENT:**

**The reserve located near this community is called the Tapir Mountain Nature Reserve. I will now ask you some questions about the Tapir Mountain Nature Reserve.**

**K4. What do you know about the Tapir Mountain Nature Reserve?**

OProtected Area

O Tourist attraction

O Hunting area

O Logging area

O Other (Specify):\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

O Don’t Know

O Not Stated

**K5. How would you rate your knowledge of the reserve’s boundaries?**

O No knowledge (does not know any boundaries)

O Some knowledge (knows where some boundaries lie)

O Strong knowledge (is familiar with most/all boundaries)

O Not stated

**K6. To your knowledge, who manages the Tapir Mountain Nature Reserve?**

**O** Belize KARST Habitat Conservation

O Protected Areas Conservation Trust (PACT)

O Belize Audubon Society

O Government of Belize

O Forestry Department

O Other (specify): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

O Don’t Know

O Not Stated

**K7. To your knowledge, what responsibilities are involved in managing the (TMNR) reserve?**

**SELECT ALL THAT APPLY**

O Educating the community

O Protecting wildlife in reserve (from hunting, poaching, specie extraction)

O Protecting the natural habitat in the reserve (logging, plant extraction)

O Protecting reserve from natural disaster (flooding, hurricane) and climate change

O Managing license for hunting in the reserve

O Other (Specify):\_\_\_\_\_\_\_\_\_\_\_\_

O DK/NS

**K8. To your knowledge, what species of animals live in the Tapir Mountain Nature Reserve?**

**SELECT ALL THAT APPLY**

**O** Tapir

O Jaguars

O Pumas

O Ocelots/Margay

O Deer

O Peccaries

O Howler and spider monkeys

O Raptors, such as hawks and vultures

O Parrots

O Snakes

O Other(specify):\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

O DK/NS

**K9. I am going to read a series of statements, to the best of your knowledge, answer whether you think these are true or false.**

1) The water from local wells or pumps comes from the water basin or table in the Tapir Mountain Nature Reserve.

O T O F O DK ONS

2) People can hunt in the Tapir Mountain Nature Reserve if they have a valid license. O T O F O DK/NS

3)The Belize KARST can authorize persons to hunt in the Tapir Mountain Nature Reserve O T O F O DK/NS

4)The pesticides that people use in their garden/land has a negative impact on water in wells. O T O F O DK/NS

5)The pesticides that people use in their garden/land has a negative impact on piped water. O T O F O DK/NS

6) Cutting down trees and forests will cause soil to wash away. O T O F ODK/NS

**K10. Would your household be interested in learning about breeding native stingless bees for the production of honey?**

OYes

O No

O DK/NS

**K11. Have you personally noticed any of the following changes?**

1) Changes in the rain O Yes O No ODK/NS

2) More storms O Yes O No O DK/NS

3) Stronger storms O Yes O No O DK/NS

4) Change in temperature during the day/night O Yes O No O DK/NS

5) More flooding O Yes O No O DK/NS

6) Loss of soil or erosion O Yes O No O DK/NS

**K12. Have you ever heard that the Earth’s climate, or its weather patterns are changing?**

O Yes

O No

O DK/NS

**K13. Have you ever heard about the term “Climate Change?”**

OYes

O No

O DK/NS

**SECTION 5: ATTITUDE AREA**

**I am now going to ask you some questions about your concern on different environmental topics.**

| **A1. To what extent do the following concern you?**  **SHOW FLASHCARD**  1=Not at all concerned  2= Slightly concerned  3= Somewhat concerned  4= Moderately concerned  5=Extremely concerned  9= DK/NS | | **A2.And does… affect you?**  1= Yes  2= No  9= DK/NS | **A3. Do you think it affects the Tapir Mountain Nature Reserve?**  1= Yes  2= No  9= DK/NS |
| --- | --- | --- | --- |
| 1. Waste disposal | ①②③④⑤ ⑨ | ①②⑨ | ①②⑨ |
| 1. Water contamination | ①②③④⑤ ⑨ | ①②⑨ | ①②⑨ |
| 1. Forest fires | ①②③④⑤ ⑨ | ①②⑨ | ①②⑨ |
| 1. Deforestation | ①②③④⑤ ⑨ | ①②⑨ | ①②⑨ |
| 1. Soil erosion (soil washing away) | ①②③④⑤ ⑨ | ①②⑨ | ①②⑨ |
| 1. Flooding | ①②③④⑤ ⑨ | ①②⑨ | ①②⑨ |
| 1. Use of chemical pesticides | ①②③④⑤ ⑨ | ①②⑨ | ①②⑨ |
| 1. Drought | ①②③④⑤ ⑨ | ①②⑨ | ①②⑨ |
| 1. Logging | ①②③④⑤ ⑨ | ①②⑨ | ①②⑨ |
| 1. Hunting of wildlife | ①②③④⑤ ⑨ | ①②⑨ | ①②⑨ |

**A4. Do you own livestock or agricultural land in your community?**

O Yes

O No

O DK/NS

**IF NO OR DK/NS, GO TO A6**

**A5. Do you feel that your livestock or agricultural land is threatened by predators like jaguars, pumas, from nearby bushes?**

OYes

O No

O DK/NS

**A6. Do you think that jaguars and pumas are currently a threat to your community?**

O Yes

O No

O DK/NS

**A7. In your opinion, have human-wildlife conflicts increased, decreased, or remain the same?**

O Increased

O Decreased

O Remain the same

O DK/NS

**A8. What would you do if you experienced a conflict with wildlife in your village?**

OReport

O No action

O Personal action (e.g. hunt, scare away, poison)

O DK/NS

O Other (specify):\_\_\_\_\_\_\_\_\_\_\_\_\_

**A9. Do you dislike any of these animals?**

**READ LIST, SELECT ALL THAT APPLY**

OTapir

O Jaguars

O Pumas

O Ocelots

O Deer

O Peccaries

O Howler and spider monkeys

O Raptors, such as hawks and vultures

O Parrots

O Snakes

**A9.1 Why don’t you like …?**

**LIST ANIMAL AND STATE RESPONSE**

**A10. Please state your level of agreement with the following statements:**

| **SHOW FLASHCARD**  1=Strongly disagree  2= Disagree  3= Neutral  4= Agree  5=Strongly agree  9= DK/NS | |
| --- | --- |
| 1. Climate change poses a serious threat for people around the world | ①②③④⑤ ⑨ |
| 1. Climate change poses a threat to my livelihood | ①②③④⑤ ⑨ |
| 1. Human activity is greatly responsible for climate change | ①②③④⑤ ⑨ |
| 1. Climate change poses a threat to protected areas | ①②③④⑤ ⑨ |
| 1. Slash and burn is a threat to protected areas | ①②③④⑤ ⑨ |
| 1. Establishing protected areas is bad for the community because the land can be used by villagers to provide for their families | ①②③④⑤ ⑨ |
| 1. Our community can benefit from a clean water initiative | ①②③④⑤ ⑨ |
| 1. Our community can benefit from a task force that tackles forest fires | ①②③④⑤ ⑨ |
| 1. There are job opportunities in tourism in my community | ①②③④⑤ ⑨ |

**A11. Do you think that your community could benefit from a neighbourhood watch that reports forest fires, or wildlife hunting in the reserve and where households are located?**

OYes

O No

O DK/NS

**IF NO OR DK/NS, GO TO P1**

**A12. Would your household be interested in joining a neighbourhood watch?**

OYes

O No

O DK/NS

**A13. Would anyone in your household be interested in receiving training to join a fire task force?**

O Yes

O No

O DK/NS

**SECTION 6: PRACTICE**

**I will now ask you some questions about practices within your household.**

**P1. What is the MAIN way your household disposes of garbage?**

O Open burning

O Composting

O Recycle

O Household transport to landfill

O Paid service to transport to landfill

O Dumping

O Burying

O Other (Specify):\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

O DK/NS

**IF “PAID SERVICE TO TRANSPORT TO LANDFILL” ASK P2, ELSE GO TO P3**

**P2. How much does it cost your household to dispose of garbage?**

**$\_\_\_\_\_\_\_\_ BZD**

O Per trip

O Weekly

O Biweekly

O Monthly

**P3. Does anyone in your household engage in any of the following activities?**

1. Gardening O Yes O No O DK/NS
2. Fishing O Yes O No O DK/NS
3. Raising livestock O Yes O No O DK/NS
4. Hunting O Yes O No O DK/NS
5. Growing crops O Yes O No O DK/NS
6. Carpentry O Yes O No O DK/NS
7. Selling lumber O Yes O No O DK/NS

**P4. How often does your household engage in ….?**

1= Daily

2=Weekly

3= Bi-Weekly

4= Monthly

5= Yearly

9= DK/NS

1. Gardening \_\_\_\_\_\_\_\_ ①②③④⑤ ⑨
2. Fishing \_\_\_\_\_\_\_\_ ①②③④⑤ ⑨
3. Raising livestock \_\_\_\_\_\_\_\_ ①②③④⑤ ⑨
4. Hunting \_\_\_\_\_\_\_\_ ①②③④⑤ ⑨
5. Growing crops \_\_\_\_\_\_\_\_ ①②③④⑤ ⑨
6. Carpentry \_\_\_\_\_\_\_\_ ①②③④⑤ ⑨
7. Sell lumber \_\_\_\_\_\_\_\_ ①②③④⑤ ⑨

**P5. Does your household engage in subsistence farming or agricultural production?**

OYes

O No

O DK/NS

**IF NO OR DK/NS, GO TO P8**

**P6. Environmentally improved crop production methods are ways of growing food that help protect the environment and make sure we have healthy and safe food. Would your household be interested in learning these crop production methods?**

O Yes

O No

O DK/NS

**P7. Chemical pesticides are lab-made and quickly kill pests but can harm the environment. Biological pesticides use living things like bugs or bacteria, work more slowly, and are safer for the environment and other animals. They're like strong medicine versus natural helpers for your plants.Would your household be interested in learning about biological pesticides?**

O Yes

O No

O DK/NS

**P8. How do you access news and information on a daily basis?**

**SELECT ALL THAT APPLY**

**O** Television

O Radio

O Social Media

O Newspaper

O Internet

O Mobile applications

O Word of mouth/Community leader

O Other (specify):\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**P9. How likely are you or your household to engage with the Belize KARST Habitat Conservation for the following:**

| **SHOW FLASHCARD**  1= Not at all likely  2=Not very likely  3= Neutral  4= Somewhat likely  5=Very Likely  9= DK/NS | |
| --- | --- |
| 1. Engage with promotional advertisement about the Tapir Mountain Nature Reserve on Social Media | ①②③④⑤ ⑨ |
| 1. Engage in educational campaigns to learn about the Tapir Mountain Nature Reserve | ①②③④⑤ ⑨ |
| 1. Follow the social media page of the Belize Karst Habitat Conservation | ①②③④⑤ ⑨ |
| 1. Join training workshops that the Belize Karst Habitat Conservation organize | ①②③④⑤ ⑨ |

**The Belize Tapir Mountain Nature Reserve is a conservation area in Belize known for its biodiversity, it is located along the Belize River watershed roughly between the villages of Barton Creek and Teakettle. It is common for some households to go into the reserve to hunt or take out lumber because they must provide for their family. I’m going to ask you about your household’s activity in the reserve, all information will be kept confidential and will only be used for educational purposes.**

**P10. In the past 12 months, has anyone in your household hunted animals from the Tapir Mountain Nature Reserve?**

O Yes

O No

O DK/NS

**P11. In the past 12 months, has anyone in your household extracted plants, trees, or logs from the Tapir Mountain Nature Reserve?**

OYes

O No

O DK/NS

**P12. We don’t want to know their names, but do you know if persons in the community hunted animals or extracted plants, trees, or logs from the Tapir Mountain Nature Reserve within the past 12 months?**

O Yes

O No

O DK/NS

**P13. What are some environmental activities or projects that you would like to see done in your community?**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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