

# Tonga High-Frequency Phone Surveys (HFPS) Round 1

## Methodology Report

Sistemas Integrales Consulting  
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## 1. INTRODUCTION

In 2022 The World Bank decided to run the Tonga High-Frequency Phone Surveys, in a series of six rounds, to monitor the socioeconomic effects of the rapidly evolving COVID-19 pandemic in the South Pacific region and support an evidence-based response to the crisis. Given the underwater volcano eruption near the coasts of Tonga in January 2022, The World Bank decided to focus the survey first round on the socioeconomic impacts of the eruption and the subsequent tsunami that stroke some of the Tongan islands.

The first round of the survey was conducted in April 2022 and interviewed 2,527 households nationwide, collecting data on livelihoods, loss of household assets, food security, access to public services and coping strategies. A Random Digit Dialing (RDD) sample of mobile phones was used, covering all numbers under the national phone numbering plan.

Sistemas Integrales Consulting was in charge of the survey design and implementation with the local support of 3SMT.

This report describes the main methodological aspects of the survey, such as sample design, estimation procedures, topics covered by the questionnaire, field organization and quality control. It also presents the questionnaire and the structure and contents of the resulting data file.

## 2. SAMPLE DESIGN

The Tonga HFPS Round 1 sample has a simple random design.<sup>1</sup> It was generated through a Random Digit Dialing (RDD) process covering all cell telephone numbers active at the time of the sample selection.

The RDD methodology generates virtually all possible telephone numbers in the country under the national telephone numbering plan and then draws a random sample of numbers. This method guarantees full coverage of the population with a phone.

First, a large first-phase sample of cell phone numbers was selected and screened through an automated process to identify the active numbers. Then, a smaller second-phase sample<sup>2</sup> was selected from the active residential numbers identified in the first-phase sample and was delivered to the data collection team to be called by the interviewers.<sup>3</sup> When a cell phone was called, the call answerer was interviewed as long as he or she was 18 years of age or above and knowledgeable about the household activities.

The survey interviewed 2,527 households with an unweighted phone response rate of 31.5%, a relatively high rate for an RDD phone survey.

## 3. WEIGHTING

Tonga HFPS Round 1 includes only household-level data. The household weighting process involves four steps:

1. Calculation of the inclusion probabilities of cell phone numbers.
2. Computation of household design weights.
3. Nonresponse weighting adjustment.
4. Weight calibration.
5. Weight trimming and recalibration.

### Step 1: Inclusion probabilities of cell phone numbers

A first-phase sample was selected with simple random selection without replacement from the entire cell phone number frame. The selected numbers were then screened and classified into active and inactive.

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<sup>1</sup> It was initially planned to stratify the sample by island group based on the phone number prefixes. However, this was not feasible given the high internal migration across islands and the atypical assignment of phone number prefixes across islands in Tonga.

<sup>2</sup> Note that the selection of phone numbers involves two sampling *phases*, and not two sampling *stages*. Since Tonga HFPS Round 1 sample was selected through an RDD process, it has no clustering and involves only one sampling stage.

<sup>3</sup> The second-phase sample was delivered to the data collection team in replicates and batches. Delivering large lists of numbers at once could have facilitated the “misuse” of the sample by easily replacing non-answering numbers, raising nonresponse rates and potentially increasing nonresponse bias.

The first-phase inclusion probabilities of cell phone numbers are

$$\pi_{(1)i}^C = \frac{n_{(1)}^C}{N_{(1)}^C} = \frac{n_{(1)A}^C + n_{(1)IN}^C}{N_{(1)}^C}$$

where

$\pi_{(1)i}^C$  is the first-phase inclusion probability of the  $i$ -th cell phone number;

$n_{(1)}^C$  is the size of the first-phase sample of cell phones, composed of  $n_{(1)A}^C$  active cell phones plus  $n_{(1)IN}^C$  inactive cell phones; and

$N_{(1)}^C$  is the cell phone frame size, composed of all possible cell phones according to the current national numbering plan.

Next, a second-phase simple random sample was selected out of the first-phase sample of active cell telephone numbers. The second-phase inclusion probabilities of active cell phones are

$$\pi_{(2)i|(1)i}^C = \frac{n_{(2)A}^C}{n_{(1)A}^C}$$

where

$\pi_{(2)i|(1)i}^C$  is the second-phase inclusion probability of the  $i$ -th active cell phone number conditional on being selected in the first phase; and

$n_{(2)A}^C$  is the size of the second-phase sample of active cell phones.

The unconditional inclusion probabilities of the second-phase active cell phones are

$$\pi_i^C = \pi_{(1)i}^C \pi_{(2)i|(1)i}^C = \frac{n_{(1)A}^C + n_{(1)IN}^C}{N_{(1)}^C} \frac{n_{(2)A}^C}{n_{(1)A}^C} = \frac{n_{(1)A}^C + n_{(1)IN}^C}{n_{(1)A}^C} \frac{n_{(2)A}^C}{N_{(1)}^C} = \frac{n_{(2)A}^C}{\widehat{RA}_{(1)}^C N_{(1)}^C} = \frac{n_{(2)A}^C}{\hat{A}_{(1)}^C}$$

where  $\widehat{RA}_{(1)}$  is the rate of active phones estimated in the first phase.<sup>4</sup> Hence, the unconditional inclusion probabilities of the second-phase active numbers  $\pi_i^C$  can be expressed as the ratio between the active numbers selected in the second phase and an estimate of the total active numbers  $\hat{A}_{(1)}^C$  in the cell phone frame.

<sup>4</sup>  $\widehat{RA}_{(1)}$  estimate is highly precise due to the large size of the first-phase sample (25,000 cell phone numbers).

## Step 2: Household design weights

The selection probabilities of households are based on the inclusion probabilities of the cell phone numbers through which they can be reached. Therefore, the computation of household weights should account for multiple chances of selection. This multiplicity weighting adjusts estimates to eliminate the over-representation of households in the sample that can be reached through more telephone numbers than other households. It thus eliminates the chance for multiplicity sampling bias.

### Multiplicity adjustment

There is multiplicity probability when a household has a larger selection probability because it can be selected through different sample elements (telephone numbers in this case). Therefore, households with more than one cell phone are over-represented in sampling designs like this. As a result, their selection probabilities need to be adjusted to account for this increased chance of selection. The multiplicity-adjusted household selection probabilities are computed as

$$\pi_{mj}^C = m_{cj} \pi_i^C$$

where

$\pi_{mj}^C$  is selection probability of the  $j$ -th household contacted through a cell phone, adjusted for multiplicity of working cell phone numbers in the household; and

$m_{cj}$  is the number of working cell phone numbers in the  $j$ -th household.

Therefore, if a household has  $m_c > 1$  working cell phone numbers, its chance of being selected through a cell phone is  $m_c$  higher than a household with only one cell phone number. Since the number of working cell phone numbers in a household is unknown at the time of the sample design, it needs to be asked during the interview. For this purpose, the HFPS Round 1 questionnaire included the two following questions:

1. *How many active mobile phones are owned by the members of this household?*
2. *Out of these mobile phones, how many have two active SIM cards?*

Finally, household design weights  $w_{0j}$  are the inverse of the multiplicity-adjusted selection probabilities

$$w_{0j} = (\pi_{mj}^C)^{-1}$$

## Step 3: Nonresponse adjustment

When a phone number is called, it is not always possible to carry out an interview. Such nonresponse occurs because of a number of constraints, most commonly because nobody answers the call (no contact) or the respondent is unwilling to cooperate (refusal).

To minimize nonresponse, the HFPS sample was released to the data collection team over successive replicates to keep the fieldwork progress under the survey central management's control and to monitor nonresponse more effectively. Also, stringent calling protocols were put in place and monitored to ensure a minimum of seven call attempts on different days and times before a number could be classified as no contact.

Once fieldwork was finalized, the design weights of respondent households were adjusted to compensate for nonresponse. Given that the survey used RDD sampling, the information in the sampling frame was very limited, so the nonresponse adjustment was simply calculated as the inverse of the weighted response rate estimate. This is the ratio of the sum of the design weights of all households (respondents and nonrespondents) to the sum of the design weights of respondents.

$$a_j = \frac{\sum_{j,R} w_{0j} + \sum_{j,NR} w_{0j}}{\sum_{j,R} w_{0j}}$$

where  $a_{jc}$  is the nonresponse adjustment factor applied to the design weights of respondent households.  $R$  and  $NR$  allude to respondent and nonrespondent households, respectively.

Thus, the nonresponse adjusted weights for respondent households are

$$w'_j = w_{0j} a_j$$

#### Step 4: Weight calibration

Thereafter, the adjusted weights of respondent households were calibrated to reflect the country distribution of households by island group, sex, age and educational attainment of the household head, the average household size and the average households wealth status according to the 2016 Tonga Population Census and the 2019 Tonga Multiple Indicator Cluster Survey (MICS).

Survey methodology literature and experience show that cell phone survey results tend to be biased towards male, younger and more educated individuals than the overall population, and towards wealthier households. This is due to both cell phone ownership patterns (coverage bias) and differential response rates (nonresponse bias). Such overrepresentation of male, younger and more educated individuals and better-off households can be compensated via weight calibration adjustment.

This adjustment has two objectives:

- a. Reduce potential coverage bias and nonresponse bias on the variables of interest by using auxiliary variables from reliable outside sources. This objective can be achieved as long as the calibration auxiliaries are correlated with coverage patterns, nonresponse and the variables of interest.

- b. Improve the precision of the survey estimates (i.e., reduce sampling variances) as long as the calibration auxiliaries are correlated with the variables of interest.<sup>5</sup>

Calibration works by minimizing a measure of the distance between the input weights (nonresponse adjusted weights in this case) and the calibrated weights, under the constraint that the sum of the calibrated weights equals the sum of the totals of the auxiliaries from the outside sources. Among the existing calibration techniques, HFPS Round 1 applied the raking method using the logit distance function.

The raking margins were:

1. The 2016 Census household counts by island group;
2. The census country household count under the MICS relative distribution of households by sex of the household head;
3. The census country household count under the MICS relative distribution of households by age of the household head;
4. The census country household count under the MICS relative distribution of households by educational attainment;
5. The census country household count under the MICS relative distribution of households by size; and
6. The census country household count under the MICS relative distribution of households by a wealth index based on the MICS data.<sup>6</sup>

The final weights of respondent households can be expressed as

$$w_j = w_j' g_j = w_{0j} a_j g_j$$

where

$w_{0j}$  is the design weight for the  $j$ -th household;

$a_j$  is the nonresponse adjustment factor; and

$g_j$  is the calibration factor for the  $j$ -th household.

### Step 5: Weight trimming and recalibration

The distributions of the calibrated household weights were examined to decide whether any trimming was needed. Weight trimming sought to reduce excess variation in the final weights introduced by the calibration and thus mitigate the inflation of the standard errors of the

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<sup>5</sup> This survey did not address this objective since it would entail computing a large number of replicate weights (using bootstrap or jackknife replication methods) which could be confusing for the final public users.

<sup>6</sup> The wealth index was based on a model fitted using MICS data. The model predictor variables were asked in the HFPS Round 1 questionnaire exactly as in the MICS, so they could be used to predict the wealth index for each household in the HFPS sample using the HFPS data.

estimates due to weighting. The trimming process took the largest weights within each of the island groups and reduced their value to the next largest value of the weights.

Trimming may change estimates if done carelessly, particularly if the value of a variable with a large weight value is itself large. Therefore, the trimming process included a sensitivity analysis to assess whether significant changes in estimates might occur as weights were trimmed. Thus, trimming was done in a series of rounds. Each time the largest weights in a round were trimmed, a set of key survey estimates were computed. If the relative change was more than 4 percent of the point estimate before any trimming was done, the trimming step was not used. The trimming process thus sought to reduce unnecessary weight variation while avoiding significant changes in the survey point estimates.

Finally, trimmed weights were recalibrated to the same totals and means used in the calibration described in Step 4.

## 4. ESTIMATION AND SAMPLING ERROR COMPUTATION

When estimating sampling errors (expressed in the sampling variances, standard errors, coefficients of variation and confidence intervals) for statistics such as means, proportions, ratios and regression parameters, sample design features and weighting need to be accounted for. If not, sampling error estimates will be biased. Standard errors and coefficients of variation would be usually understated and confidence intervals would be narrower than expected.

The two most usual approaches to estimating sampling errors for survey data are 1) the Taylor Series Linearization (TSL) of the estimator and the corresponding approximation to its variance, or 2) the use of resampling variance estimation techniques such as balanced repeated replication (BRR), jackknife repeated replication (JRR) and bootstrap. Stata and other statistical software packages use the TSL method as the default for estimating survey data sampling errors. Annex 1 indicates the Stata syntax for analyzing the HFPS data accounting for its sample design features and weighting.

To determine the precision of an HFPS estimate, the data user can estimate the corresponding sampling error using the Stata code in Annex 1. Stata will deliver the point estimate, the standard error, the 95% confidence interval and the coefficient of variation.

The standard error is the square root of the sampling variance. The coefficient of variation is a relative measure of the standard error, calculated as the ratio between the standard error and the point estimate (it is usually expressed in percentage terms). As a rule of thumb, estimates with coefficients of variation of 1 percent or lower are considered to have a very high level of precision. Coefficients of variation between 1 and 3 percent are generally classified as very good, from 3 to 5 percent as good, 5 to 10 percent as acceptable, and 10 to 15 percent as large. Above 15 percent is classified as too large and the corresponding estimate is considered unreliable.

Table 2 presents the estimates, standard errors, 95% confidence intervals and coefficients of variation for a set of selected indicators at the national level.

**Table 2. Estimates and sampling errors for selected indicators.**

Indicator	Estimate	Standard error	95% confidence interval	Coefficient of variation (%)
HH received money from Tonga or abroad prior to the volcano eruption	0.7689	0.0113	(0.7452 , 0.7895)	1.469
HH fishes for consumption or sale	0.1944	0.0110	(0.1737 , 0.2170)	5.683
HH received a warning through an early warning system prior to the tsunami	0.3251	0.0124	(0.3013 , 0.3498)	3.810

## 5. PROJECT ORGANIZATION

The survey management team included a Project Director, a Project Manager, a Fieldwork Manager and a Data Manager.

The data collection was implemented over 23 days with a team formed by one local coordinator, 20 interviewers and 3 supervisors. All interviewers worked from home, given the mobility restrictions due to the COVID-19 pandemic.

## 6. SURVEY TOOLS

### Questionnaire

The questionnaire had an average duration of 36 minutes and was organized into nine sections:

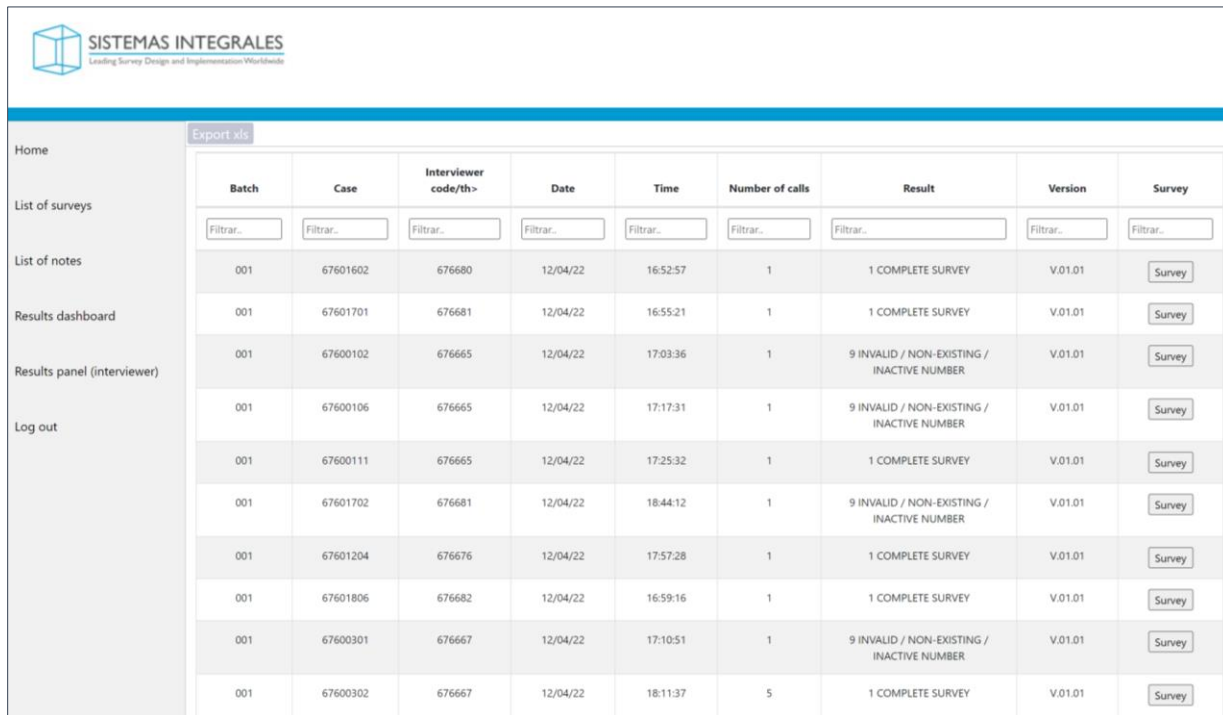
1. Interview Information
2. Basic Information
3. Livelihood
4. Assets
5. Food Insecurity
6. Public Services
7. Coping Strategies
8. Preparedness
9. Recontact

The questionnaire is displayed in full in Annex 2.

## Interview Application

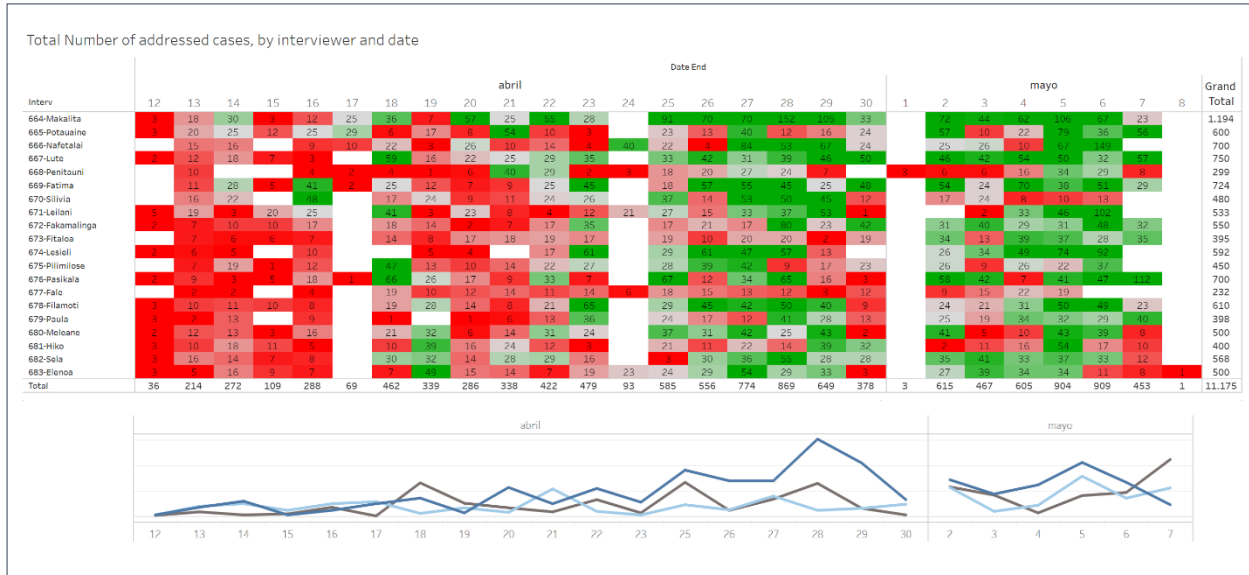
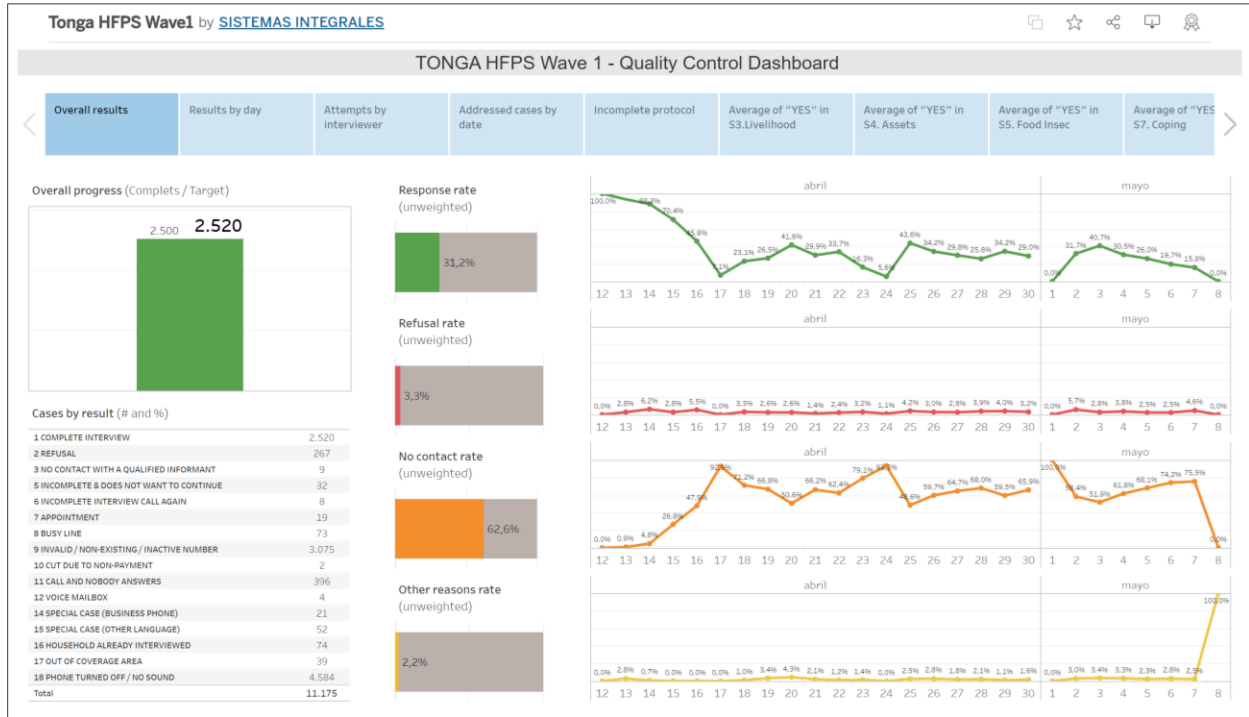
Tonga HFPS Round 1 was implemented by phone using TELSIA (Telephone Survey Integrated Application), an all-in-one application developed by Sistemas Integrales for phone surveys using tablets or cell phones, based on CSEntry.

TELSIA was used to manage the electronic questionnaires, administer the sample replicates and calls automatically and assign workloads across interviewers. It also enabled live online supervision, ongoing tracking of progress and monitoring of calling protocols.



The screenshot displays the TELSIA web application interface. At the top left is the logo for SISTEMAS INTEGRALES, with the tagline "Leading Survey Design and Implementation Worldwide". Below the logo is a navigation menu with options: Home, List of surveys, List of notes, Results dashboard, Results panel (interviewer), and Log out. An "Export xls" button is located at the top of the table area. The main content is a table with the following columns: Batch, Case, Interviewer code/th>, Date, Time, Number of calls, Result, Version, and Survey. Each row represents a survey entry, with a "Survey" button in the final column. The results include "1 COMPLETE SURVEY" and "9 INVALID / NON-EXISTING / INACTIVE NUMBER".

Batch	Case	Interviewer code/th>	Date	Time	Number of calls	Result	Version	Survey
<input type="text" value="Filtrar..."/>	<input type="text" value="Filtrar..."/>	<input type="text" value="Filtrar..."/>	<input type="text" value="Filtrar..."/>	<input type="text" value="Filtrar..."/>	<input type="text" value="Filtrar..."/>	<input type="text" value="Filtrar..."/>	<input type="text" value="Filtrar..."/>	<input type="text" value="Filtrar..."/>
001	67601602	676680	12/04/22	16:52:57	1	1 COMPLETE SURVEY	V.01.01	<input type="button" value="Survey"/>
001	67601701	676681	12/04/22	16:55:21	1	1 COMPLETE SURVEY	V.01.01	<input type="button" value="Survey"/>
001	67600102	676665	12/04/22	17:03:36	1	9 INVALID / NON-EXISTING / INACTIVE NUMBER	V.01.01	<input type="button" value="Survey"/>
001	67600106	676665	12/04/22	17:17:31	1	9 INVALID / NON-EXISTING / INACTIVE NUMBER	V.01.01	<input type="button" value="Survey"/>
001	67600111	676665	12/04/22	17:25:32	1	1 COMPLETE SURVEY	V.01.01	<input type="button" value="Survey"/>
001	67601702	676681	12/04/22	18:44:12	1	9 INVALID / NON-EXISTING / INACTIVE NUMBER	V.01.01	<input type="button" value="Survey"/>
001	67601204	676676	12/04/22	17:57:28	1	1 COMPLETE SURVEY	V.01.01	<input type="button" value="Survey"/>
001	67601806	676682	12/04/22	16:59:16	1	1 COMPLETE SURVEY	V.01.01	<input type="button" value="Survey"/>
001	67600301	676667	12/04/22	17:10:51	1	9 INVALID / NON-EXISTING / INACTIVE NUMBER	V.01.01	<input type="button" value="Survey"/>
001	67600302	676667	12/04/22	18:11:37	5	1 COMPLETE SURVEY	V.01.01	<input type="button" value="Survey"/>



Data Files

All the data collected in Tonga HFPS Round 1 is at the household level and is organized in one single file (HFPS\_TON\_W1\_households.dta). To ensure statistical confidentiality, all identifiers, such as names and phone numbers, have been excluded from this file.

Annex 3 includes the data codebook describing all the variables in the dataset.

## 7. QUALITY CONTROL

The collected data was subject to a Comprehensive Survey Quality Control (CSQC) process built on three linked stages. These are intra-questionnaire checks, monitoring of aggregate quality indicators and back-calls. The Quality Control procedures implemented by Sistemas Integrales generally include auditing interview voice recordings. However, in this case, it was decided not to do it due to local cultural constraints.

### 1. Intra-Questionnaire Checks

The CATI questionnaire application had a set of built-in checks to alert the interviewer of possible errors while entering responses. The application ran mainly three types of control checks: range checks, consistency checks, and identification of missing values and “Don’t knows”. If the interviewer overrode any of the alerts during the interview, he/she should add a comment explaining the reason. Once the interview data was uploaded, the application would inform the management team about any remaining issues in the data. The management team would then inform the supervisors, who would ask the interviewers for clarification and correct the data if necessary.

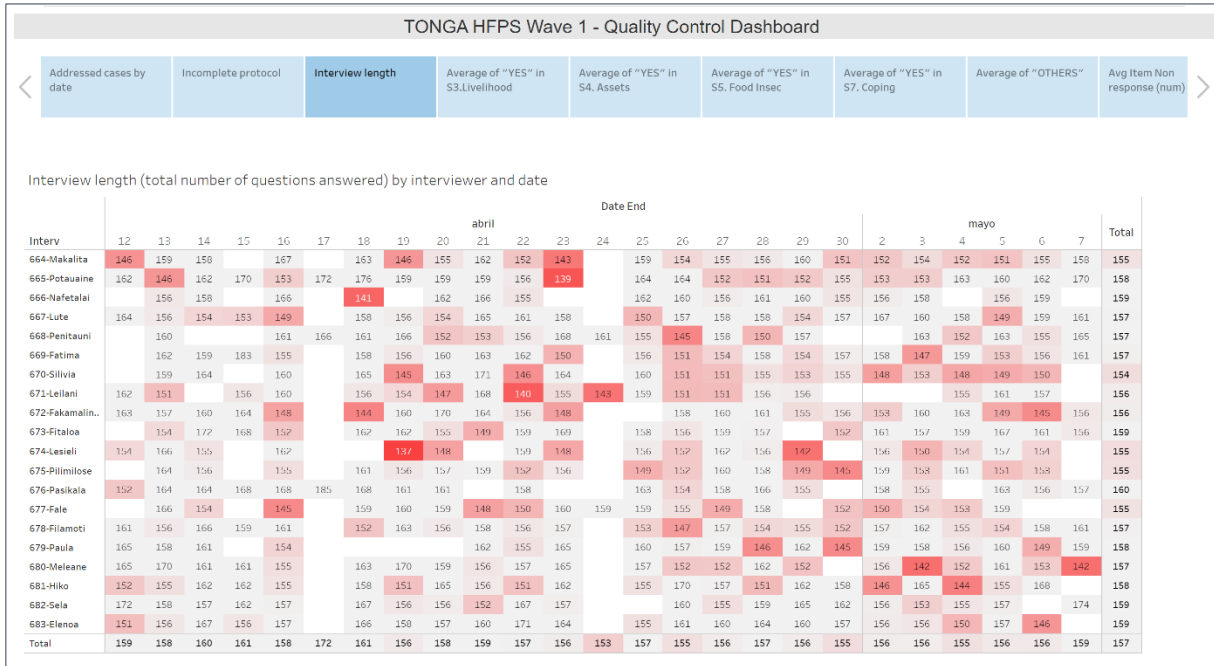
### 2. Monitoring of Aggregate Quality Indicators

On top of the quality checks carried out by the CAPI application during the data entry, which focus on each particular interview, it is also necessary to monitor the quality of the overall work done by the interviewers. For this purpose, the data that was uploaded to the survey server was aggregated and processed on a daily basis.

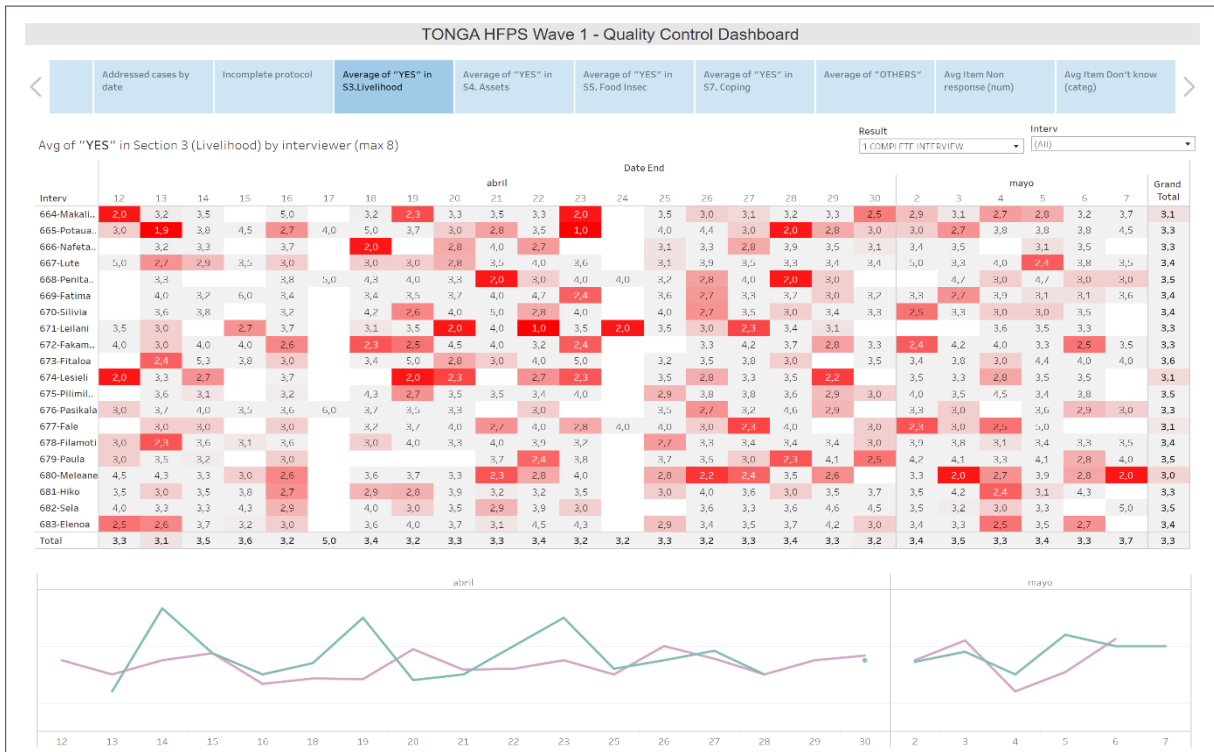
The survey management team analyzed daily a series of data quality indicators (DQIs) on an interviewer basis and decided whether special supervision was needed for any particular interviewer whose work appeared to be inadequate. This data monitoring provided early warnings so that the necessary corrective actions could be carried out promptly.

As an example, three indicators and their trend over the field period are presented below:

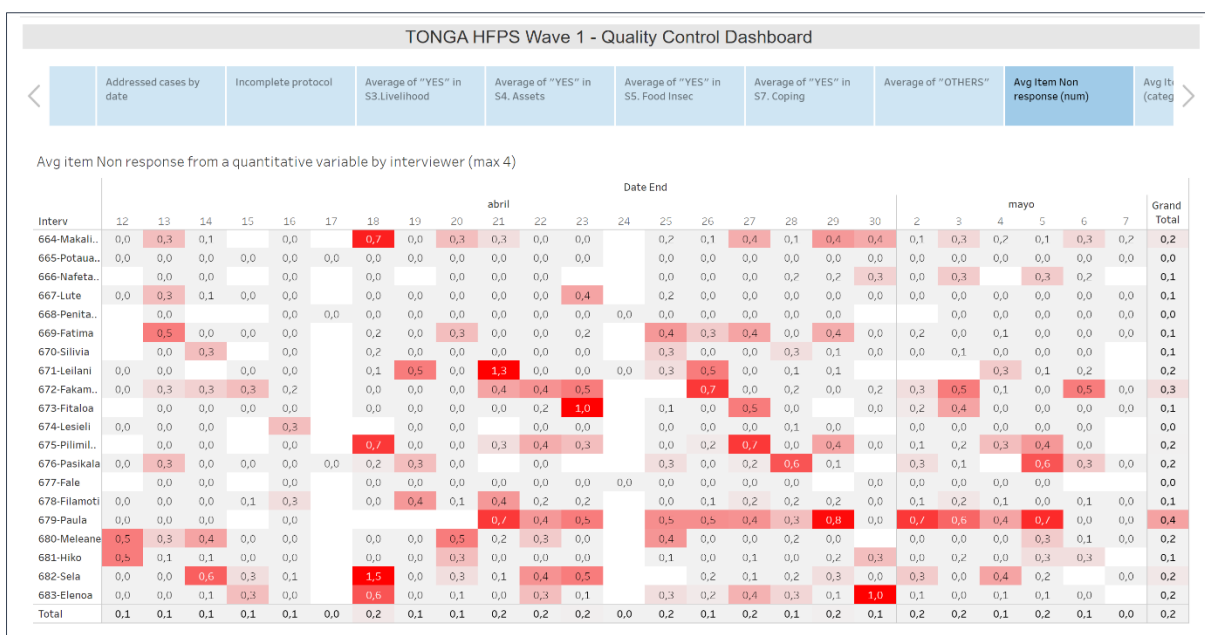
- *Average Interview Length by Interviewer and Day.* Some interviewers may misreport some answers given by respondents and record the answer options that allow them to skip more questions and generate a shorter path along the questionnaire. This way, their work burden may decrease significantly. In some surveys, this behavior may intensify as fieldwork unfolds, seriously affecting the accuracy of the collected data. Tonga HFPS monitored the average number of questions answered per interview (interview length) to prevent such a pattern. The chart below displays the progress of this indicator by interviewer and day, where no pattern was identified for any interviewer.



- **Average Number of Economic Activities per Household by Interviewer and Day.** This is a particular case of the previous indicator for a specific set of questions that may entail high incentives for the interviewer to record "No" as an answer. Some interviewers may undercount the number of household economic activities to avoid asking the subsequent questions about each activity. The chart below displays an indicator that helps detect this potential misbehavior by the interviewers. The overall average of recorded activities per household was 3.3 and there were no significant deviations in the margins, neither across interviewers nor over time.



- Average Number of Don't Know (for numeric variables) per Interview by Interviewer and Day.** Item nonresponse or Don't Know should always be avoided, particularly for the key variables. Not all respondents are willing to answer some questions or do not know what to answer because of memory issues. This is why the interviewers are trained to re-ask, probe and explain the importance of the question whenever the respondent is reluctant to share his/her information or says he/she does not know what to answer. However, some interviewers may override this instruction and leave the field empty without re-asking or probing to move on to the next question faster. The average number of Don't Know or missing values per household was monitored over the entire data collection period to prevent such conduct. If the management team identified an interviewer with a higher number of Don't Know than his/her colleagues, he/she was reminded about the need to re-ask and probe. This procedure helped attain low levels of Don't Know and missing values, as shown in the chart below.



### 3. Back-Calls

Doing back-calls consists of verifying that interviewers actually called the households assigned to them, if the data recorded for some key variables are correct and if cases classified as refusals might be converted. Respondents to be recontacted were selected randomly, focusing on some interviewers with a questionable performance based on the monitoring of quality indicators.

Finally, the three annexes present a guide to the computation of estimates and sampling errors, the survey questionnaire, and the codebook with the structure and contents of the datasets.

## ANNEX 1

### Stata Code for Weighted Estimates and Sampling Error Computation Cross-sectional data

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This annex provides examples of the STATA syntax for computing estimates and the corresponding sampling errors, which account for the sample design features and weighting. For more details, data users are referred to the online STATA manual for the svy command (<http://www.stata.com/manuals15/svy.pdf>).

**To specify the sample design features** in the HFPS Round 1 dataset, use command:

```
svyset [pweight=w_hh_w1]
```

#### Numeric variables (means):

*To estimate the mean age of the household head, use command:*

```
svy: mean q02_03
estat cv
```

*To estimate the mean age of the household head by sex, use command:*

```
svy: mean q02_03, over(q02_04)
estat cv
```

*To estimate the mean age of the household head for households with female heads, use command:*

```
svy, subpop (if q02_04==2): mean q02_03
estat cv
```

#### Categorical variables (proportions):

*To estimate the frequency distribution of households that raise livestock, use command*

```
svy: tab q03_12, se ci cv
```

*To estimate the frequency distribution of households that raise livestock by island group, use command:*

```
svy: tab q03_12 q02_11, col se ci cv
```

*To estimate the frequency distribution of households that raise livestock in Tongatapu, use command:*

```
svy, subpop (if q02_11==6761): tab q03_12, se ci cv
```

#### Linear regression:

*To estimate the regression coefficients of a continuous variable  $y$  on two continuous variables  $x_1$  and  $x_2$ , use command:*

```
svy: regress y x1 x2
```

*To estimate the regression coefficients of a continuous variable  $y$  on two continuous variables  $x_1$  and  $x_2$  and two categorical variables  $x_3$  and  $x_4$ , use command:*

```
svy: regress y x1 x2 i.x3 i.x4
```

**ANNEX 2**  
**Tonga HFPS Round 1 Questionnaire**

## 0 CATI INTRODUCTION

**COD\_ENC**

INTERVIEWER ENTER YOUR INTERVIEWER CODE

INTERVIEWER CODES HAVE THE COUNTRY PREFIX OF THREE DIGITS AND THEN THREE CORRELATIVE DIGITS

**FOLIO**

CATI: AUTOMATICALLY SHOWS THE FOLIOS ASSIGNED TO THE INTERVIEWER

THE FOLIOS HAVE THE COUNTRY PREFIX OF THREE DIGITS AND THEN FIVE DIGITS

**TIPO\_MUESTRA**

IT IS THE TYPE OF SAMPLE THAT CORRESPONDS TO EACH OF THE CASES

- 1 NEW SAMPLE 2022
- 2 PANEL SAMPLE 2022

**TIPO\_TELF**

IS THE TYPE OF CELL PHONE FROM THE ASSIGNED LIST

- 1 MOBILE
- 2 LAND LINE

**TEL\_MUESTRA\_1**

CATI: AUTOMATICALLY DISPLAYS THE PHONE NUMBER CORRESPONDING TO THE FOLIO FOR AUTOMATIC CALLING

LAST NUMBER CONTACTED

**TEL\_MUESTRA\_2**

LAST NUMBER CONTACTED

CATI: IT MUST DISPLAY TO CHOOSE THE NUMBER WHICH THE INTERVIEWER WILL CALL

**PROVIDER**

- 1 U-CALL
- 2 DIGICEL

1 SECTION 1: INTERVIEW INFORMATION

1.01 INTERVIEWER: DID ANYONE ANSWER THE CALL?

- 1 YES
- 2 NO

→ INTERVIEW RESULT

CATI: ONLY SHOW RESULT 8,9,10, 11, 12, 14, 17 Y 18.

1.02 Greetings! My name is \_\_\_ and I am working for the World Bank.

INTERVIEWER: IS THE PERSON STILL ON THE CALL?

INTERVIEWER: IF THE CALL IS INTERRUPTED, GO TO RESULT AND REGISTER OPTION 11: CALL IS INTERRUPTED BEFORE INTRODUCING THE INTERVIEW

- 1 YES
- 2 NO

→ INTERVIEW RESULT

CATI: SHOULD ONLY SHOW RESULTS 2 AND 11

99 SPECIAL CASE

→ INTERVIEW RESULT

CATI: ONLY SHOW RESULT 14 AND 15

1.03 May I speak with an adult household member who is knowledgeable about your household?

INTERVIEWER: REGISTER YES IF CONTACTED WITH A KNOWLEDGEABLE PERSON

- 1 YES
- 2 NO

→ 1.05

INTERVIEWER: ASK THIS QUESTION TO THE KNOWLEDGEABLE PERSON

1.04 How old are you?

AGE

CATI RANGE: 14 - 98

CATI VALIDATION: IF 1,04 < 18 ALERT MESSAGE The informant is under 18 years old, are you sure he/she is a qualified informant?

CATI: IF 1,04 >= 18 ASSIGN 1,05=1 AND GO TO 1.06 OTHERWISE GO TO 1,05

1.05 INTERVIEWER: REGISTER THE CORRESPONDING ANSWER

- 1 MADE CONTACT WITH A QUALIFIED INFORMANT
- 2 NO CONTACT WITH A QUALIFIED INFORMANT
- 3 NO CONTACT WITH A QUALIFIED INFORMANT (WITH APPOINTMENT)
- 4 DOES NOT WANT TO PARTICIPATE IN THE SURVEY

→ 1.06

→

CATI: SHOULD ONLY SHOW RESULT 3

→

APPOINTMENT

→ 1.07

CATI VALIDATION: IF 1,04 < 18 AND 1,05=4 BLOCKING MESSAGE Review the answer the respondent is [1,04] years old

CATI VALIDATION: IF 1,03 =2 AND 1,05=1 BLOCKING MESSAGE He/She is not a qualified informant go to 1,03

**1.06** Greetings! My name is \_\_\_ and I am working for the World Bank. We are currently doing a nationwide survey about the challenges for Tongan households amid the COVID pandemic and following the undersea volcanic eruption and tsunami. The information you will provide is very important because it will help monitor the crisis and design response programs. This interview will take about 20 minutes. All your information will be kept strictly confidential and only be used for statistical purposes. This call will have no airtime cost for you. Thank you for your time and support.

Do you consent to being interviewed?

- 1 YES, NOW → SECTION 2
- 2 YES, LATER → APPOINTMENT
- 3 NO, HOUSEHOLD WAS ALREADY INTERVIEWED → CATI: ONLY SHOW RESULT 16
- 4 NO, REFUSES TO BE INTERVIEWED

**1.07** INTERVIEWER: WHAT WAS THE MAIN REASON THE RESPONDENT DID NOT AGREE TO BE INTERVIEWED?

INTERVIEWER: RECORD REASON FOR REFUSAL.

CATI: ONLY SHOW RESULT 2

**APPOINTMENTS**

When can I call you and at what phone number?

APPOINTMENT 1	DATE_1	DAY	TIME_1	HOUR	TEL_1	Contact Phone Number
APPOINTMENT 2	DATE_2	DAY	TIME_2	HOUR	TEL_2	Contact Phone Number
APPOINTMENT 3	DATE_3	DAY	TIME_3	HOUR	TEL_3	Contact Phone Number
APPOINTMENT 4	DATE_4	DAY	TIME_4	HOUR	TEL_4	Contact Phone Number
APPOINTMENT 5	DATE_5	DAY	TIME_5	HOUR	TEL_5	Contact Phone Number

→ INTERVIEW RESULT CATI: ONLY SHOW RESULT 7

2.01 INTERVIEWER: WHAT IS THE SEX OF THE RESPONDENT. CONFIRM IF UNSURE.

- 1 MALE
- 2 FEMALE

2.02 What is your relationship to the head of the household?

- 1 HEAD .
- 2 SPOUSE
- 3 SON / DAUGHTER
- 4 STEP CHILD
- 5 ADOPTED CHILD
- 6 GRANDCHILD
- 7 BROTHER/SISTER
- 8 NIECE/NEPHEW
- 9 BROTHER/SISTER-IN-LAW
- 10 PARENT
- 11 PARENT-IN-LAW
- 12 DOMESTIC HELP (LIVE IN)
- 14 OTHER RELATIVE (SPECIFY)
- 15 OTHER NON-RELATIVE (SPECIFY)

CATI VALIDATION: IF (2.02 = 1) AND (1.04 < 20) ALERT MESSAGE "You are under 20 years old, are you the head of the household?"  
CATI VALIDATION: IF (2.02 = 3) AND (1.04 > 60) BLOCKING MESSAGE "You are over 60 years old, are you the child of the head of the household?"  
CATI VALIDATION: IF (2.02 = 10) AND (1.04 < 40) BLOCKING MESSAGE "You are less than 40 years old, are you the father of the head of the household?"  
CATI VALIDATION: IF (2.02 = 6) AND (1.04 > 40) BLOCKING MESSAGE "You are over 40 years old, are you the grandchild of the head of the household?"

CATI: IF 2.02 != 1 GO TO 2.03 OTHERWISE 2.05

2.03 Can you tell me the age of the head of the household please?

INTERVIEWER: IF AGE IS 98 OR MORE, RECORD 98  
IF NO RESPONSE, RECORD 99

CATI RANGE: MIN 18 AND MAX 98, 99 NO RESPONSE

--	--

CATI VALIDATION: IF (2.02 = 2) AND (2.03! = 99) AND (1.04! = 99) AND (2.03 - 1.04 > 40) ALERT MESSAGE "Your age difference with the head of household is very large. Is this correct?"  
CATI VALIDATION: IF (2.02 = 2) AND (2.03! = 99) AND (1.04! = 99) AND (1.04 - 2.03 > 40) ALERT MESSAGE " Your age difference with the head of household is very large. Is this correct? "  
CATI VALIDATION: IF (2.02 = 3) AND (2.03! = 99) AND (1.04! = 99) AND (2.03 - 1.04 > 60) ALERT MESSAGE "Your age difference with the head of household is very large. Is this correct?"  
CATI VALIDATION: IF (2.02 = 10) AND (2.03! = 99) AND (1.04! = 99) AND (1.04 - 2.03 > 60) ALERT MESSAGE "Your age difference with the head of household is very large. Is this correct?"

2.04 Is the head of the household a man or a woman?

- 1 MAN
- 2 WOMAN

CATI VALIDATION: IF (2.02 = 2) AND (2.01 = 2.04) ALERT MESSAGE "Spouses are the same sex. Is this correct?"

2.05 How many people live in your household including yourself? A household is formed by people who usually share their meals. Remember to include newborns and elderly people.

NUMBER

CATI RANGE: MIN 1 MAX 25

CATI VALIDATION: IF (2.02 != 1) AND (2.05 = 1) BLOCKING MESSAGE "There must be more than 1 household member"

2.06 Are there any children 5 years of age or younger who live in the household?

- 1 YES
- 2 NO

CATI VALIDATION: IF (2.05 = 1) AND (2.06 = 1) BLOCKING MESSAGE "if there are children 5 years of age or younger, there must be more than 1 household member"

CATI VALIDATION: IF (2.05 <= 2) AND (2.02 != 1) AND (2.06 = 1) BLOCKING MESSAGE "there are children 5 years of age or younger, there must be more than 2 household members"

2.07 Are there any children in the age group 6-14 who live in the household?

- 1 YES
- 2 NO

CATI VALIDATION: IF (2.05 = 1) AND (2.02 = 1) AND (2.06 = 2) AND (2.07 = 1) BLOCKING MESSAGE "if there are children in the age group 6-14, there must be at least 2 household members"

CATI VALIDATION: IF (2.05 < 3) AND (2.02 != 1) AND (2.06 = 2) AND (2.07 = 1) BLOCKING MESSAGE "if there are children in the age group 6-14, there must be at least 3 household members"

CATI VALIDATION: IF (2.05 < 3) AND (2.02 = 1) AND (2.06 = 1) AND (2.07 = 1) BLOCKING MESSAGE "if there are children in the group 0-14, there must be at least 3 household members"

CATI VALIDATION: IF (2.05 < 4) AND (2.02 != 1) AND (2.06 = 1) AND (2.07 = 1) BLOCKING MESSAGE "if there are children in the group 0-14, there must be at least 4 household members"

2.08 Are any of those living in the household, live-in servants?

- 1 YES
- 2 NO

CATI VALIDATION: IF (2.05 = 1) AND (2.08 = 1) AND (2.02 = 1) AND (2.06 = 2) AND (2.07 = 2) BLOCKING MESSAGE "if there are live-in servants, there must be more than 1 household member"

CATI VALIDATION: IF (2.05 < 3) AND (2.08 = 1) AND (2.02 != 1) AND (2.06 = 2) AND (2.07 = 2) BLOCKING MESSAGE "if there are live-in servants, there must be more than 2 household member"

CATI VALIDATION: IF (2.05 < 3) AND (2.08 = 1) AND (2.02 = 1) AND ((2.06 = 1) OR (2.07 = 1)) BLOCKING MESSAGE "if there are live-in servants, there must be more than 2 household member"

CATI VALIDATION: IF (2.05 < 4) AND (2.08 = 1) AND (2.02 != 1) AND ((2.06 = 1) OR (2.07 = 1)) BLOCKING MESSAGE "if there are live-in servants, there must be more than 3 household member"

CATI VALIDATION: IF (2.05 < 4) AND (2.08 = 1) AND (2.02 = 1) AND (2.06 = 1) AND (2.07 = 1) BLOCKING MESSAGE "if there are live-in servants, there must be more than 3 household member"

CATI VALIDATION: IF (2.05 < 5) AND (2.08 = 1) AND (2.02 != 1) AND (2.06 = 1) AND (2.07 = 1) BLOCKING MESSAGE "if there are live-in servants, there must be more than 4 household member"

2.09 What is the highest level of education you have attended?

- 1 NEVER ATTENDED SCHOOL
- 2 EARLY CHILDHOOD EDUCATION
- 3 PRIMARY
- 4 LOWER SECONDARY
- 5 UPPER SECONDARY
- 6 TECHNICAL AND VOCATIONAL
- 7 TERTIARY / UNIVERSITY
- 96 OTHER (SPECIFY)

2.10 What is your marital status?

- 1 MARRIED
- 2 LIVING WITH PARTNER
- 3 SINGLE
- 4 WIDOWED
- 5 DIVORCED
- 6 SEPARATED

CATI VALIDATION: IF2.02=2 AND 2.10 >2 ALERT MESSAGE Review the answer, the informant is spouse

2.11 In what **island group** are you currently living?

INTERVIEWER: IF RESPONDENT DOES NOT KNOW READ OUT OPTIONS

CATI: LIST OF CODES

2.13 In what **village** are you currently living?

INTERVIEWER: IF RESPONDENT DOES NOT KNOW READ OUT OPTIONS

CATI: LIST OF CODES

2.15 Did your household move as a result of the volcanic eruption and tsunami?

- 1 YES
- 2 NO → SECTION 3

2.16 Did your household move within the same village?

- 1 YES → SECTION 3
- 2 NO

2.18 Did your household move within the same island group?

- 1 YES
- 2 NO

CATI: IF 2.18=1 REPLACE 2.19=2.11 GO TO 2.21

CATI: IF 2.18 =2 GO TO 2.19

2.19 In what **island group** were you living **before** the volcanic eruption and tsunami?

INTERVIEWER: IF RESPONDENT DOES NOT KNOW READ OUT OPTIONS

CATI: LIST OF CODES

2.21 In what **village** were you living **before** the volcanic eruption and tsunami?

INTERVIEWER: IF RESPONDENT DOES NOT KNOW READ OUT OPTIONS

CATI: LIST OF CODES

3 SECTION 3: LIVELIHOOD

**HANDICRAFTS**

3.01 Do you or any household member **operate** a handicraft business? This is, produce handicrafts intended mainly for sale?

- 1 YES
- 2 NO → 3.05

3.02 Compared to prior to the volcanic eruption and tsunami, is the income from the handicraft business expected to be...

INTERVIEWER: READ OPTIONS

- 1 higher than usual?
- 2 the same as usual?
- 3 less than usual?
- 4 NO INCOME
- 5 NEW BUSINESS

**AGRICULTURE**

3.05 Do you or any member of your household grow or harvest crops either for home consumption or sale?

- 1 YES
- 2 NO → 3.12

3.06 How many acres of agricultural land do members of this household own?

INTERVIEWER: IF LESS THAN 1 RECORD 0

IF 95 OR MORE RECORD 95

IF DON'T KNOW RECORD -1

ACRES

CATI RANGE: -1 TO 95

3.07 What type of crops are grown by this household?

INTERVIEWER: DO NOT READ OPTIONS

INTERVIEWER: ASK "Anything else?"

- a ROOTS CROPS SUCH AS YAM, TARO, SWEET POTATO, CASAVA, GIANTTARO
- b FRUIT CROPS SUCH AS BANANA, PLANTAIN, WATERMELON, PAWPAW, PINEAPPLE
- c VEGETABLE CROPS SUCH AS TOMATOES, CABBAGE, LETTUCE, CUCUMBER, CORN, PUMPKIN
  
- d CASH CROPS SUCH AS KAVA, VANILLA, TOBACCO, MULBERRY / HIAPO.
- z OTHER (SPECIFY)

3.08 The crops produced by your household are **mainly**...

INTERVIEWER: READ OPTIONS

- 1 for home consumption?
- 2 to sell in the local market?
- 3 for export?
- 96 OTHER (SPECIFY)

3.09 Since the volcanic eruption and tsunami, has your household's ability to grow crops been disrupted?

- 1 YES
- 2 NO → 3.11

3.10 What are the main reasons why you were not able to farm as before the tsunami?

INTERVIEWER: DO NOT READ OPTIONS - MARK UP TO 3

INTERVIEWER: ASK "Anything else?"

- a CROPS HAVE SUFFERED / DIED DUE TO ASH.
- b CROPS HAVE SUFFERED / DIED DUE TO LACK OF WATER.
- c AIR TOO POLLUTED FOR FARMING / OUTDOOR WORK.
- d LOSS OF FARMING IMPLEMENTS
- e ADVISED TO STAY HOME
- f REDUCED AVAILABILITY OF HIRED LABOR
- g RESTRICTIONS ON MOVEMENT / TRAVEL
- h UNABLE TO ACQUIRE / TRANSPORT INPUTS
- i UNABLE TO SELL / TRANSPORT OUTPUTS
- j NEED TO CARE FOR ILL / DISABLED FAMILY MEMBER
- k NEED TO CARE FOR CHILDREN
- l INCREASED PRICE FOR INPUTS (SEEDS/FERTILIZERS/PESTICIDES)
- m BAD WEATHER (LONG RAINY SEASON,ETC)
- n NO LAND TO FARM DUE TO RELOCATION
- z OTHER (SPECIFY)

3.11 Compared to the last agricultural season, this season the income from farming is expected to be...

INTERVIEWER: READ OPTIONS

- 1 higher than usual?
- 2 the same as usual?
- 3 less than usual?
- 4 NO INCOME

#### RAISING LIVESTOCK

3.12 Do you or any member of your household raise livestock either for home consumption or sale?

- 1 YES
- 2 NO → 3.20

3.13 Which of the following types of animals are raised by this household?

INTERVIEWER: READ OPTIONS

- a chickens? → 3.16
- b ducks? → 3.16
- d pigs? → 3.16
- c cows /cattle / bulls?
- d goats? → 3.16
- e sheep? → 3.16
- f horses / donkey? → 3.16
- z OTHER (SPECIFY) → 3.16

3.14 How many milk cows or bulls are owned by this household?

INTERVIEWER: IF NONE RECORD 0

IF 95 OR MORE RECORD 95

IF DON'T KNOW RECORD -1

CATI RANGE: -1 TO 95

3.15 How many other cattle are owned by this household?

INTERVIEWER: IF NONE RECORD 0

IF 95 OR MORE RECORD 95

IF DON'T KNOW RECORD -1

CATI RANGE: -1 TO 95

3.16 The livestock raised by this household are mainly...

INTERVIEWER: READ OPTIONS

- 1 for home consumption?
- 2 to sell in the local market?
- 96 OTHER (SPECIFY)

3.17 Since the volcanic eruption and tsunami, has your household's ability to raise livestock been disrupted?

- 1 YES
- 2 NO → 3.19

3.18 What are the main reasons why you were not able to raise livestock as before the tsunami?

INTERVIEWER: DO NOT READ OPTIONS - MARK UP TO 3

INTERVIEWER: ASK "Anything else?"

- a LIVESTOCK HAVE DIED/ NO MORE LIVESTOCK
- b ADVISED TO STAY HOME
- c REDUCED AVAILABILITY OF HIRED LABOR
- d RESTRICTIONS ON MOVEMENT / TRAVEL
- e UNABLE TO ACQUIRE / TRANSPORT CONSTRAINTS
- f UNABLE TO SELL / TRANSPORT CONSTRAINTS
- g NEED TO CARE FOR ILL / DISABLED FAMILY MEMBER
- h NEED TO CARE FOR CHILDREN
- i INCREASED PRICE FOR INPUTS (FEED, VACCINATION, ETC)
- j BAD WEATHER (LONG RAINY SEASON,ETC)
- z OTHER (SPECIFY)

3.19 Compared to last year, this year is the income from raising livestock expected to be...

INTERVIEWER: READ OPTIONS

- 1 higher than usual?
- 2 the same as usual?
- 3 less than usual?
- 4 NO INCOME

#### FISHING

3.20 Do you or any member of your household catch fish either for home consumption or sale?

- 1 YES
- 2 NO → 3.24a

3.21 The fish caught by this household are **mainly**...

INTERVIEWER: READ OPTIONS

- 1 for home consumption?
- 2 to sell in the local market?
- 3 for export?
- 96 OTHER (SPECIFY)

3.22 Since the volcanic eruption and tsunami, has your household's ability to fish been disrupted?

- 1 YES
- 2 NO → 3.24

**3.23** What are the main reasons why you were not able to fish as before the tsunami?

INTERVIEWER: DO NOT READ OPTIONS - MARK UP TO 3

INTERVIEWER: ASK "Anything else?"

- a AIR TOO POLLUTED FOR FISHING / OUTDOOR WORK
- b LOSS OF BOAT
- c LOSS OF NETS / FISHING IMPLEMENTS
- d SEAS TOO ROUGH
- e AFRAID TO GO ONTO OCEAN
- f FAD WASHED AWAY
- g NO FISH PRESENT
- h ADVISED TO STAY HOME
- i REDUCED AVAILABILITY OF HIRED LABOR
- j RESTRICTIONS ON MOVEMENT / TRAVEL
- k UNABLE TO ACQUIRE / TRANSPORT INPUTS
- l UNABLE TO SELL / TRANSPORT OUTPUTS
- m NEED TO CARE FOR ILL / DISABLED FAMILY MEMBER
- n NEED TO CARE FOR CHILDREN
- o BAD WEATHER (LONG RAINY SEASON,ETC)
- z OTHER (SPECIFY)

**3.24** Compared to last year, is the income from the fishing expected to be...

INTERVIEWER: READ OPTIONS

- 1 higher than usual?
- 2 the same as usual?
- 3 less than usual?
- 4 NO INCOME

#### WAGE LABOR

**3.24a** Do you or any member of your household work for an employer for a wage or salary?

- 1 YES
- 2 NO → 3.24c

**3.24b** Compared to prior to the volcanic eruption and tsunami, is the income from this/these job/s expected to be...

INTERVIEWER: READ OPTIONS

- 1 higher than usual?
- 2 the same as usual?
- 3 less than usual?

#### NON-FARM BUSINESS

**3.24c** Do you or any member of your household **operate** a non-farming business other than handicrafts?

INTERVIEWER: DO NOT INCLUDE ACTIVITIES ALREADY REGISTERED IN THE PREVIOUS QUESTIONS (I.E. HANDICRAFT, AGRICULTURE, FISHING)

- 1 YES
- 2 NO → 3.25

**3.24d** Compared to prior to the volcanic eruption and tsunami, is the income from the family business expected to be...

INTERVIEWER: READ OPTIONS

- 1 higher than usual?
- 2 the same as usual?
- 3 less than usual?
- 4 NO INCOME
- 5 NEW BUSINESS

**REMITTANCES**

- 3.25** Prior to the volcanic eruption and tsunami, did your household usually receive **money** from someone who lives elsewhere in Tonga or abroad?
- 1 YES
  - 2 NO → SECTION 4

- 3.26** From which country does your household typically receive money?  
INTERVIEWER: DO NOT READ OPTIONS - SELECT ALL THAT APPLY.  
INTERVIEWER: ASK "Anything else?"
- a WITHIN TONGA
  - b AUSTRALIA
  - c NEW ZEALAND
  - d UNITED STATES
  - z OTHER COUNTRY

- 3.27** Compared to prior to the volcanic eruption and tsunami, the money received by your household was ...  
INTERVIEWER: READ OPTIONS
- 1 higher than usual?
  - 2 the same as usual?
  - 3 less than usual?
  - 4 NO INCOME / STOP



4.04 Out of these [4.03] mobile phones, how many have two active SIM cards?

NUMBER MOBILES

CATI RANGE: MIN 0 MAX 12

CATI VALIDATION: IF 4.04 > 4.03 BLOCKING MESSAGE THE NUMBER CANNOT BE GREATER THAN THE TOTAL

4.05 Does any member of this household have a bank account?

- 1 YES
- 2 NO

I will now ask you some questions about your dwelling. Please answer these questions referring to the time **before** the volcanic eruption and tsunami.

4.06 Prior to the volcanic eruption and tsunami, did any member of your household have access to internet at home?

- 1 YES
- 2 NO

4.07 Prior to the underwater volcanic eruption and tsunami, how many rooms do members of your household usually use for sleeping?

NUMBER

CATI RANGE: MIN 1 MAX 15

4.07a What type of living quarter is this?

- 1 A one-family house?
- 2 A one-household made up of multiple houses or dwellings?
- 3 A one household house attach to another household house?
- 4 A building with two or more apartments?
- 5 Dwelling attached to a shop or other non-resident building?
- 96 OTHER (SPECIFY)

4.07b What is the tenure of this house/dwelling/apartment?

- 1 Owned with a mortgage or loan?
- 2 Own the house outright (no loan)?
- 3 Rented (With any payments)?
- 4 Occupied without payment?
- 5 Occupied without payment (from employer)?
- 96 OTHER (SPECIFY)

4.08 Prior to the underwater volcanic eruption and tsunami, what was the main material of the dwelling floor?

INTERVIEWER: DO NOT READ OPTIONS

**NATURAL FLOOR**

11 EARTH / SAND

**RUDIMENTARY FLOOR**

21 WOOD PLANKS

22 PALM/BAMBOO

**FINISHED FLOOR**

31 PARQUET OR POLISHED WOOD

33 CERAMIC TILES

34 CEMENT / CONCRETE / BRICKS

35 CARPET

96 OTHER (SPECIFY)

4.09 Prior to the underwater volcanic eruption and tsunami, what was the main material of the roof?

INTERVIEWER: DO NOT READ OPTIONS

11 NO ROOF

**NATURAL ROOFING**

12 THATCH/ PALM LEAVES

**RUDIMENTARY ROOFING**

23 WOOD PLANKS

24 CARDBOARD

**FINISHED ROOFING**

31 METAL / TIN

32 WOOD

33 CALAMINE / CEMENT FIBRE

34 CERAMIC TILES

35 CEMENT

36 ROOFING SHINGLES

96 OTHER (SPECIFY)

4.10 Prior to the underwater volcanic eruption and tsunami, what was the main material of exterior walls?

INTERVIEWER: DO NOT READ OPTIONS

11 NO WALLS

**NATURAL WALLS**

12 CANE / PALM / TRUNKS

**RUDIMENTARY WALLS**

24 PLYWOOD

25 CARDBOARD

26 REFUSED WOOD

27 METAL / TIN

**FINISHED WALLS**

31 CEMENT

32 STONE WITH LIME / CEMENT

33 BRICKS

34 CEMENT BLOCKS

36 WOOD PLANKS / SHINGLES

96 OTHER (SPECIFY)

4.11 Prior to the underwater volcanic eruption and tsunami, did your household have electricity?

INTERVIEWER: IF YES, PROBE ABOUT THE TYPE OF ELECTRICITY

- 1 YES, INTERCONNECTED GRID
- 2 YES, OFF-GRID (GENERATOR/ ISOLATED SYSTEM)
- 3 NO

4.12 In your household, what type of cookstove was **mainly** used for **cooking** before the volcanic eruption?

INTERVIEWER: DO NOT READ OPTIONS

- 1 ELECTRIC STOVE → 4.14
- 2 SOLAR COOKER → 4.14
- 3 LIQUEFIED PETROLEUM GAS (LPG)/ COOKING GAS STOVE → 4.14
- 4 BIOGAS STOVE → 4.14
- 5 LIQUID FUEL STOVE → 4.14
- 6 MANUFACTURED SOLID FUEL STOVE
- 7 TRADITIONAL SOLID FUEL STOVE
- 8 THREE STONE STOVE / OPEN FIRE
- 9 NO FOOD COOKED IN HOUSEHOLD → 4.15
- 96 OTHER (SPECIFY)

CATI VALIDATION: IF 4.11=3 AND 4.12=1 BLOKING MESSAGE Review the answers in 4.12 and 4.11

4.13 What type of fuel or energy source was **mainly** used in this cookstove before the volcanic eruption?

INTERVIEWER: IF MORE THAN ONE, RECORD THE MAIN ENERGY SOURCE FOR THE COOKSTOVE.

- 1 ALCOHOL/ ETHANOL
- 2 GASOLINE/ DIESEL
- 3 KEROSENE/ PARAFFIN
- 4 COAL/LIGNITE
- 5 CHARCOAL
- 6 WOOD
- 7 GARBAGE/ PLASTIC
- 96 OTHER (SPECIFY)

4.14 Was the cooking usually done in the house, in a separate building, or outdoors, before the volcanic eruption?

INTERVIEWER: DO NOT READ OPTIONS

**IN MAIN HOUSE**

- 1 NO SEPARATE ROOM
- 2 IN A SEPARATE ROOM
- 3 IN A SEPARATE BUILDING

**OUTDOORS**

- 4 OPEN AIR
- 5 ON VERANDA OR COVERED PORCH
- 96 OTHER (SPECIFY)

CATI VALIDATION: IF 4.12=1 AND 4.14=4 BLOKING MESSAGE Review the answer in 4.14

4.15 At night, what did your household **mainly** use to **light** the household before the volcanic eruption?

INTERVIEWER: DO NOT READ OPTIONS

- 1 ELECTRICITY
- 2 SOLAR LANTERN
- 3 RECHARGABLE FLASHLIGHT, TORCH OR LANTERN
- 4 BATTERY POWERED FLASHLIGHT, TORCH OR LANTERN
- 5 BIOGAS LAMP
- 6 GASOLINE LAMP
- 7 KEROSENE OR PARAFFIN LAMP
- 8 CHARCOAL
- 9 WOOD
- 10 ANIMAL DUNG / WASTE
- 11 OIL LAMP
- 12 CANDLE
- 13 NO LIGHTING IN HOUSEHOLD
- 96 OTHER (SPECIFY)

CATI VALIDATION: IF 4.11=3 AND 4.15=1 BLOKING MESSAGE Review the answer in 4.15

4.16 What was the **main** source of drinking water used by members of your household before the volcanic eruption?

INTERVIEWER: DO NOT READ OPTIONS

**PIPED WATER**

- 1 PIPED INTO DWELLING → 4.19
- 2 PIPED TO YARD/PLOT → 4.19
- 3 PIPED TO NEIGHBOUR → 4.19
- 4 PUBLIC TAP/STANDPIPE

**DUG WELL**

- 5 PROTECTED WELL
- 6 UNPROTECTED WELL

**RAINWATER**

- 7 OWN CEMENT OR OTHER TANK → 4.19
- 8 NEIGHBOR'S CEMENT OR OTHER TANK → 4.19
- 9 COMMUNITY CEMENT OR OTHER TANK
- 10 TANKER TRUCK → 4.19

**PACKAGED WATER**

- 11 BOTTLED / SATCHED WATER → 4.19
- 96 OTHER (SPECIFY) → 4.19

4.17 Where was that water source located?

- 1 IN OWN DWELLING
- 2 IN OWN YARD/ PLOT
- 3 ELSEWHERE

4.18 How long did it take for members of your household to go there, get water, and come back?

INTERVIEWER: IF MEMBERS DO NOT COLLECT REGISTER 0

IF DON'T KNOW REGISTER -1

NUMBER OF MINUTES

CATI RANGE: -1 TO 600

4.19 What is the **main** source of drinking water used by members of your household **now**, after the volcanic eruption?

INTERVIEWER: DO NOT READ OPTIONS

**PIPED WATER**

- 1 PIPED INTO DWELLING
- 2 PIPED TO YARD/PLOT
- 3 PIPED TO NEIGHBOUR
- 4 PUBLIC TAP/STANDPIPE

**DUG WELL**

- 5 PROTECTED WELL
- 6 UNPROTECTED WELL

**RAINWATER**

- 7 OWN CEMENT OR OTHER TANK
- 8 NEIGHBOR'S CEMENT OR OTHER TANK
- 9 COMMUNITY CEMENT OR OTHER TANK
- 10 TANKER TRUCK

**PACKAGED WATER**

- 11 BOTTLED WATER
- 96 OTHER (SPECIFY)

4.20 In the month prior to the volcanic eruption, was there any time when your household did not have sufficient quantities of drinking water?

- 1 YES, AT LEAST ONCE
- 2 NO, ALWAYS SUFFICIENT.
- 98 DON'T KNOW.

4.21 Prior to the volcanic eruption, what kind of toilet facility did members of your household **most usually** use?

INTERVIEWER: DO NOT READ OPTIONS

**FLUSH/ POUR FLUSH**

- 1 FLUSH TO PIPED SEWER SYSTEM
- 2 FLUSH TO SEPTIC TANK
- 3 FLUSH TO PIT LATRINE
- 4 FLUSH TO OPEN DRAIN
- 5 FLUSH TO DON'T KNOW WHERE

**PIT LATRINE**

- 6 VENTILATED IMPROVED PIT LATRINE
- 7 PIT LATRINE WITH SLAB
- 8 PIT LATRINE WITHOUT SLAB / OPEN PIT
- 9 COMPOSTING TOILET
- 10 BUCKET
- 11 HANGING TOILET / HANGING LATRINE
- 12 NO FACILITY/ BUSH / FIELD → 4.23
- 96 OTHER (SPECIFY)

4.22 Prior to the volcanic eruption and tsunami, did you share this facility with others who are not members of your household?

- 1 YES
- 2 NO

4.23 Prior to the volcanic eruption and tsunami, did you have any soap or detergent or ash/mud/sand in your house for washing hands?

- 1 YES
- 2 NO

**5 SECTION 5: FOOD SECURITY**

- 5.01** a In the 12 months before the volcanic eruption and tsunami, was there a time when you worried or there were concerns that you or any other adult in the household would not have enough food to eat because of a lack of enough money or other resources?  
1 YES  
2 NO
- b Did this happen at least once since the volcanic eruption and tsunami?  
1 YES  
2 NO
- 5.02** a In the 12 months before the volcanic eruption and tsunami, was there any time when you or any other adult in your household were unable to eat healthy and nutritious / good food because of a lack of money or other resources?  
1 YES  
2 NO
- b Did this happen at least once since the volcanic eruption and tsunami?  
1 YES  
2 NO
- 5.03** a In the 12 months before the volcanic eruption and tsunami, were there periods when you or any other adult in your household had to eat only a few kinds of foods because of a lack of money or other resources?  
1 YES  
2 NO
- b Did this happen at least once since the volcanic eruption and tsunami?  
1 YES  
2 NO
- 5.04** a In the 12 months before the volcanic eruption and tsunami, was there any time when, because of a lack of money or other means to get food, you or any other adult in your household had to skip a meal?  
1 YES  
2 NO
- b Did this happen at least once since the volcanic eruption and tsunami?  
1 YES  
2 NO
- 5.05** a In the 12 months before the volcanic eruption and tsunami, was there any time when, because of a lack of money or other resources to get food, you or any other adult in your households ate less than you thought you should?  
1 YES  
2 NO
- b Did this happen at least once since the volcanic eruption and tsunami?  
1 YES  
2 NO
- 5.06** a In the 12 months before the volcanic eruption and tsunami, did it ever happen that your household ran out of food because of a lack of money or other resources?  
1 YES  
2 NO
- b Did this happen at least once since the volcanic eruption and tsunami?  
1 YES  
2 NO

- 5.07** a In the 12 months before the volcanic eruption and tsunami, was there any time when, because of a lack of money or other resources to get food, you or any other adult in your household were hungry but did not eat?
- 1 YES
  - 2 NO
- b Did this happen at least once since the volcanic eruption and tsunami?
- 1 YES
  - 2 NO

- 5.08** a In the 12 months before the volcanic eruption and tsunami, was there any time when, because of a lack of money or other resources to get food, you or any other adult in your household went without eating for a whole day?
- 1 YES
  - 2 NO
- b Did this happen at least once since the volcanic eruption and tsunami?
- 1 YES
  - 2 NO

**6 SECTION 6: ACCESS TO PUBLIC SERVICES**

**6.01** During the volcanic eruption and tsunami, were you or any member of your household injured?

- 1 YES
- 2 NO → 6.04

**6.02** Were you or that member of your household able to access medical treatment for **that** injury?

- 1 YES → 6.04
- 2 NO

**6.03** What was the reason why you or that member of your household were not able to access medical treatment?

INTERVIEWER: DO NOT READ

- 1 LACK OF MONEY .
- 2 NO MEDICAL PERSONNEL AVAILABLE .
- 3 NEEDED SERVICE NOT AVAILABLE
- 4 TURNED AWAY BECAUSE FACILITY WAS FULL
- 5 UNABLE TO TRAVEL DUE TO LOCK DOWN RESTRICTIONS
- 6 AFFRAID TO VISIT FACILITY DUE TO COVID-19
- 7 TREATED WITH TRADITIONAL MEDICATION
- 96 OTHER (SPECIFY).

**6.04** Since the volcanic eruption and tsunami, have you or any member of your household had difficulty breathing to the point where he or she needed medical treatment?

- 1 YES
- 2 NO

**6.05** Excluding injuries suffered during the volcanic eruption and tsunami, have you or any member of your household needed any medical care since the volcanic eruption?

- 1 YES
- 2 NO → SECTION 7

**6.06** Were you or that member of your household able to access medical treatment?

- 1 YES → SECTION 7
- 2 NO

**6.07** What was the main reason you or that member of your household were not able to access medical treatment?

INTERVIEWER: DO NOT READ

- 1 LACK OF MONEY .
- 2 NO MEDICAL PERSONNEL AVAILABLE .
- 3 NEEDED SERVICE NOT AVAILABLE
- 4 TURNED AWAY BECAUSE FACILITY WAS FULL
- 5 UNABLE TO TRAVEL DUE TO LOCK DOWN RESTRICTIONS
- 6 AFFRAID TO VISIT FACILITY DUE TO COVID-19
- 7 TREATED WITH TRADITIONAL MEDICATION.
- 96 OTHER (SPECIFY)

**7 SECTION 7: COPING STRATEGIES**

**7.01** Was your dwelling lost or damaged in the tsunami?

- 1 YES
- 2 NO

Has your household had to take any of the following actions since the volcanic eruption and tsunami:

**7.02** Sell assets?

- 1 YES
- 2 NO

**7.03** Sell handicrafts?

- 1 YES
- 2 NO

CATI VALIDATION: IF 3,01=1 Y 7,03=2 ALERT MESSAGE This household operates a handicraft business, is this correct?

CATI VALIDATION: IF 3,01=2 Y 7,03=1 ALERT MESSAGE This household does not operate a handicraft business, is this correct?

**7.04** Sell livestock?

- 1 YES
- 2 NO

CATI VALIDATION: IF 3,12=1 Y 7,04=2 ALERT MESSAGE This household raises livestock, is this correct?

CATI VALIDATION: IF 3,12=2 Y 7,04=1 ALERT MESSAGE This household does not raise livestock, is this correct?

**7.05** Start or increase fishing activities?

- 1 YES
- 2 NO

CATI VALIDATION: IF 3,20=1 Y 7,05=2 ALERT MESSAGE This household catches fish, is this correct?

CATI VALIDATION: IF 3,20=2 Y 7,05=1 ALERT MESSAGE This household does not catch fish, is this correct?

**7.06** Find ways to earn extra money?

- 1 YES
- 2 NO

**7.07** Receive cash or borrow from friends or family?

- 1 YES
- 2 NO

**7.08** Receive other assistance from friends or family?

- 1 YES
- 2 NO

**7.09** Receive assistance from church or other religious body?

- 1 YES
- 2 NO

**7.10** Take a loan from a formal financial institution?

- 1 YES
- 2 NO

**7.11** Take a loan from an informal moneylender or saving group?

- 1 YES
- 2 NO

**7.12** Purchase items on credit?

- 1 YES
- 2 NO

**7.13** Delay making re-payments?

- 1 YES
- 2 NO

CATI: IF (3,05=1) GO TO 7,14

CATI: IF (3,05=2) GO TO 7,15

**7.14** Sell harvest in advance?

- 1 YES
- 2 NO

7.15 Reduce food consumption?

- 1 YES
- 2 NO

7.16 Reduce non-food consumption?

- 1 YES
- 2 NO

7.17 Spend from savings?

- 1 YES
- 2 NO, I HAVEN'T SPENT FROM MY SAVINGS
- 3 NO, I DON'T HAVE SAVINGS

7.18 Receive assistance from community groups, chiefs, kinship ties?

- 1 YES
- 2 NO

7.19 Receive assistance from NGO?

- 1 YES
- 2 NO

7.20 Take an advance from an employer?

- 1 YES
- 2 NO

7.21 Reduce the number of children attending school?

- 1 YES
- 2 NO

7.22 Receive government assistance?

- 1 YES → 7.23
- 2 NO → 7.24

7.23 a Has your household received assistance from the government through elderly benefit program?

- 1 YES
- 2 NO

b Has your household received assistance from the government through a disability benefit program?

- 1 YES
- 2 NO

c Has your household received money assistance from the government to high school students / SET project?

- 1 YES
- 2 NO

d Has your household received assistance from the government in response to the volcanic eruption and tsunami?

- 1 YES
- 2 NO

7.24 Has the household had to take other actions since the volcanic eruption and tsunami

- 1 YES
- 2 NO

7.25 What forms of assistance do you think would be most beneficial to Tongan households to cope with the after effects of the volcanic eruption and tsunami?

INTERVIEWER: DO NOT READ OPTIONS - MARK UP TO 3

- a FOOD ASSISTANCE / MORE SECURE ACCESS TO FOOD
- b MORE SECURE ACCESS TO WATER
- c TEMPORARY HOUSING.
- d PROVISION OF CLOTHING AND HOUSEHOLD SUPPLIES
- e BETTER ACCESS TO MEDICINES AND HEALTH SERVICES
- f CASH / CASH FOR WORK / GOVERNMENT ASSISTANCE
- g MORE SECURE ACCESS TO TRANSPORT
- z OTHER (SPECIFY)

**8 SECTION 8: PREPAREDNESS**

**8.01** Did you receive a warning through an early warning system prior to the tsunami?

- 1 YES
- 2 NO

**8.02** Do you or anyone in your household have property insurance?

- 1 YES. → 8.04
- 2 NO
- 98 DON'T KNOW. → 8.06

**8.03** Why not?

INTERVIEWER: DO NOT READ

- 1 DID NOT THINK IT WAS NECESSARY.
- 2 NOT FAMILIAR WITH IT OR HAD NOT HEARD ABOUT IT
- 3 NOT AVAILABLE / INSURANCE COMPANY REFUSED
- 4 TOO EXPENSIVE / DEDUCTIBLE TOO HIGH
- 96 OTHER (SPECIFY)

CATI: GO TO 8.06

**8.04** Are you expecting to receive a payout from your insurance policy as a result of the volcanic eruption and tsunami?

- 1 YES → 8.06
- 2 NO
- 3 PROPERTY NOT DAMAGED → 8.06
- 98 DON'T KNOW → 8.06

**8.05** Why not?

INTERVIEWER: DO NOT READ

- 1 PROPERTY NOT DAMAGED
- 2 VOLCANO/Tsunami NOT COVERED
- 3 DON'T KNOW HOW TO FILE CLAIM
- 96 OTHER (SPECIFY).

**8.06** Are you receiving current updates about what is being done to help the affected population?

- 1 YES
- 2 NO → SECTION 9

**8.07** What is your main source of information?

INTERVIEWER: DO NOT READ

- 1 RADIO
- 2 NEWSPAPER
- 3 TELEVISION
- 4 TEXT MESSAGE / SMS / WHATSAPP
- 5 FACEBOOK / TWITTER / SOCIAL MEDIA
- 6 INTERNET / E-MAIL
- 7 PUBLIC MEETINGS
- 8 MAIL.
- 9 PRINTED MATERIAL
- 96 OTHER (SPECIFY)

9 CONSENT TO RECONTACT

9.00 To finalize, can you please tell me your first and last names?

INTERVIEWER: IF THE RESPONDENT DOES NOT WANT TO GIVE THE NAME ASK FOR INITIALS OR REGISTER NO NAME

NAME	<input type="text"/>	CATI: NOT BLANK
LAST NAME	<input type="text"/>	CATI: ALLOWED BLANK

9.01 We would like to call you again within the next months as a follow up of this study about the volcanic eruption and tsunami and to hear how your family is doing. If you agree, could I call you on this number or, could you provide me with another phone number where I could reach you? If you do not want me to call you back, we will delete your information after 3 months, otherwise we will keep your information for [12] months. Do you agree that we may call you back within the next months?

- 1 YES
- 2 NO → 9.06

9.02 Could we have another alternative number to call?

- 1 YES
- 2 NO → 9.06

9.03 What is the number and who does it belong to?

	number	name	
a	<input type="text"/>	<input type="text"/>	CATI: OPTIONS b AND c ALLOWED BLANK
b	<input type="text"/>	<input type="text"/>	
c	<input type="text"/>	<input type="text"/>	

CATI VALIDATION: NUMBER 7 DIGITS OR MORE

9.06 INTERVIEWER: RECORD THE LANGUAGE USED DURING THE INTERVIEW

- 1 ONLY TONGAN
- 2 ONLY ENGLISH
- 3 BOTH

## INTERVIEW RESULT

INTERVIEWER RECORD THE RESULT TAKING CARE OF CHOOSING THE

Result Show number on label	VISUALIZATION OF THE RESULT - Pre-proc	Int no. Not to show	Viewing Cases - Post-proc
1 COMPLETE SURVEY	CATI: VALIDATE THE COMPLETE OPTION IF AND ONLY IF DATA EXISTS IN ALL THE CORRESPONDING SECTIONS	1	Once you verify that the interview is complete, it must be "hidden" from the list of FOLIOS available for contact
2 REFUSAL	CATI: SHOW ONLY IF (1.04= 3)	1	This result is used when the informant explicitly says that they do not want to participate in the survey, it is also used when the informant, in a 2nd or 3rd call, gives insults or insults to the interviewer. At the first attempt at this result, it "hides" from the pollster's contact list.
3 THERE WAS NO CONTACT WITH A QUALIFIED INFORMANT	CATI: SHOW ONLY IF (1.04<18)	7	It only applies to a panel sample, when the informant is not locatable or the telephone number no longer belongs to him. This result must be passed to the supervisor for verification. If he can locate the informant, he refers the interviewer to carry out the survey.
4 UNDER 18 YEARS	CATI: SHOW ONLY IF AT LEAST 2.01 YOU HAVE INFORMATION	1	At the first attempt of this result, it "hides" from the list of FOLIOS available for the contact
5 INCOMPLETE AND DOES NOT WANT TO CONTINUE	CATI: SHOW ONLY IF AT LEAST 2.01 YOU HAVE INFORMATION	1	At the first attempt at this result, it "hides" from the pollster's contact list.
6 INCOMPLETE AND CALL AGAIN	CATI: SHOW ONLY IF AT LEAST 2.01 YOU HAVE INFORMATION	7	It remains enabled until the protocol of 7 attempts is completed.
7 APPOINTMENT	CATI: SHOW ONLY IF (1.06 = 1)	7	It remains enabled until the interviewer completes the survey or until the protocol of 7 attempts is completed and the appointment cannot be made. In the last attempt, if the informant does not want to take the survey, it is recorded as a rejection.
8 BUSY LINE	CATI: SHOW ONLY IF (1.01 = 2)	7	It remains enabled until the interviewer completes the survey or the 7-trial protocol is complete.
9 INVALID / NON-EXISTING / INACTIVE NUMBER	CATI: SHOW ONLY IF (1.01 = 2)	1	The messages depend on the country and the telephone number: "The number is not in service", "The number you dialed does not exist", "It corresponds to an inactive number" At the first attempt of this result, it is "hidden" from the list of pollster contacts. A sample of these results should go to the supervisor for verification
10 CUT DUE TO NON-PAYMENT	CATI: SHOW ONLY IF (1.01 = 2)	7	At the first attempt at this result, he "hides" from the list of FOLIOS available for the Bolivia contact: "This phone is cut off for administrative reasons." Argentina "TBC", Mexico "TBC", Ecuador "TBC"
11 CALL AND NOBODY ANSWERS / CALL IS INTERRUPTED BEFORE INTRODUCING THE INTERVIEW	CATI: SHOW ONLY IF (1.01 = 2)	7	It is used when no one answers the call, or having answered when listening to the introduction cuts the call. It remains enabled until the interviewer completes the survey or the 7-trial protocol is complete.
12 FORWARD TO VOICE MAILBOX TO LEAVE A MESSAGE	CATI: SHOW ONLY IF (1.01 = 2)	7	It is used exclusively when the call is redirected to a call mailbox so that the interviewer leaves the voice message and explains that the call was to carry out the survey. It remains enabled until the interviewer completes the survey or the 7-trial protocol is complete.
13 INFORMANT PASSED AWAY	NOT APPLY	1	It is used only for panel displays, when the person who answers the phone reports that the informant from the previous Wave has passed away. At the first attempt of this result, it "hides" from the list of FOLIOS available for the contact
14 SPECIAL CASE (COMPANY TELEPHONE)		1	It is used when the person who answers says that it is a corporate telephone, or it corresponds to a company, it is a public telephone or the message appears indicating that it does not have the incoming call service. At the first attempt at this result, it "hides" from the pollster's contact list. This result must be passed to the supervisor for verification.
15 SPECIAL CASE (ANOTHER LANGUAGE)		1	It is used when the person lives in a collective residence such as nursing homes, boarding schools, prisons. If they started the survey and then it is detected that this is the case, the call back is closed as incomplete and a second attempt is made to record this result. At the first attempt at this result, it "hides" from the pollster's contact list.
16 HOUSEHOLD WAS ALREADY INTERVIEWED	CATI: SHOW ONLY IF (1.06 = 3)	1	
17 OUT OF COVERAGE AREA	CATI: SHOW ONLY IF (1.01 = 2)	7	
18 PHONE TURNED OFF / NO SOUND	CATI: SHOW ONLY IF (1.01 = 2)	7	
20 DELETED DUE TO POOR INTERVIEW QUALITY	NOT APPLY: This result is assigned when, by audit or consistency analysis, it is determined to cancel the case.		This result is not visible in the application

### OBSERVATIONS

## **ANNEX 3**

### **Tonga HFPS Round 1 Codebook**

Variable name	Type	Format	Variable label
hh_id	long	%12.0g	Household ID
cod_enc	long	%15.0g	COD_ENC
country	int	%8.0g	COUNTRY
list_sample	str3	%9s	Batch
type_sample	byte	%8.0g	Type Sample
type_phone	byte	%8.0g	Type Phone
division	str12	%12s	Division
provider	str21	%21s	Provider
q01_01	byte	%8.0g	1.01. INTERVIEWER: DID ANYONE ANSWER THE CALL?
q01_02	byte	%12.0g	1.02. IS THE PERSON STILL ON THE CALL?
q01_03	byte	%8.0g	1.03. May I speak with an adult who is knowledgeable about your household?
q01_04	byte	%8.0g	1.04. How old are you?
q01_05	byte	%56.0g	1.05. INTERVIEWER: REGISTER THE CORRESPONDING ANSWER
q01_06	byte	%37.0g	1.06. Do you consent to being interviewed?
q01_07	str50	%50s	1.07. INTERVIEWER: RECORD REASON FOR REFUSAL.
q02_01	byte	%8.0g	2.01. INTERVIEWER: WHAT IS THE SEX OF THE RESPONDENT. CONFIRM IF UNSURE.
q02_02	byte	%28.0g	2.02. What is your relationship to the head of household?
q02_02_ot	str100	%100s	2.02. What is your relationship to the head of household?OTHER
q02_03	byte	%8.0g	2.03. Can you tell me the age of the head of the household please?
q02_04	byte	%8.0g	2.04. Is the head of the household a man or a woman?
q02_05	byte	%8.0g	2.05. How many people live in your household including yourself?
q02_06	byte	%8.0g	2.06. Do you have children age 5 or younger who live in the household?
q02_07	byte	%8.0g	2.07. Do you have children in the age group 6-14 who live in the household?
q02_08	byte	%8.0g	2.08. Are any of those living in the household live-in servants?
q02_09	byte	%25.0g	2.09. What is the highest level of education you have attended?
q02_09_ot	str100	%100s	2.09. What is the highest level of education you have attended?
q02_10	byte	%19.0g	2.10. What is your marital status?
q02_11	int	%9.0g	2.11. In what island group are you currently living?
q02_12	float	%13.0g	District
q02_13	long	%15.0g	2.13. In what village are you currently living?
q02_14	float	%9.0g	Urban or Rural
q02_15	byte	%8.0g	2.15. Did your household move as a result of the volcanic eruption and tsunami?
q02_16	byte	%8.0g	2.16. Did your household move within the same village?
q02_18	byte	%8.0g	2.18. Did your household move within the same island group?
q02_19	int	%9.0g	2.19. In what isl group were you living before the volc. eruption and tsunami?
q02_21	long	%12.0g	2.21. In what village were you living before the volcanic eruption and tsunami?
q03_01	byte	%8.0g	3.01. Do you or any household member operate a handicraft business?
q03_02	byte	%18.0g	3.02. Compared to prior to the volcanic eruption and tsunami, is the income...
q03_05	byte	%8.0g	3.05. Do you or any member of your household grow or harvest crops?
q03_06	byte	%8.0g	3.06. How many acres of agricultural land do members of this household own?
q03_07a	float	%9.0g	3.07. ROOTS CROPS SUCH AS YAM, TARO, SWEET POTATO, CASAVA, GIANTTARO
q03_07b	float	%9.0g	FRUIT CROPS SUCH AS BANANA, PLANTAIN, WATERMELON, PAWPAW, PINEAPPLE VEGETABLE CROPS SUCH AS TOMATOES, CABBAGE, LETTUCE, CUCUMBER, CORN,
q03_07c	float	%9.0g	PUMPKIN
q03_07d	float	%9.0g	CASH CROPS SUCH AS KAVA, VANILLA, TOBACCO, MULBERRY / HIAPO.
q03_07z	float	%9.0g	OTHER (SPECIFY)
q03_07_ot	str100	%100s	3.07. What type of crops are grown by this household?OTHER
q03_08	byte	%28.0g	3.08. The crops produced by your household are mainly...
q03_08_ot	str100	%100s	3.08. The crops produced by your household are mainly...
q03_09	byte	%8.0g	3.09. Has your household's ability to grow crops been disrupted?
q03_10_1	float	%57.0g	3.10 Reason 1
q03_10_2	float	%57.0g	3.10 Reason 2

Variable name	Type	Format	Variable label
q03_10_3	float	%57.0g	3.10 Reason 3
q03_10_ot	str100	%100s	3.10. What are the main reasons why you were not able to farm as before? Other R
q03_11	byte	%18.0g	3.11. This season the income from farming is expected to be...
q03_12	byte	%8.0g	3.12. Do you or any member of your household raise livestock?
q03_13a	float	%9.0g	3.13. chickens?
q03_13b	float	%9.0g	3.13. ducks?
q03_13c	float	%9.0g	3.13. pigs?
q03_13d	float	%9.0g	3.13. cows /cattke / bulls?
q03_13e	float	%9.0g	3.13. goats?
q03_13f	float	%9.0g	3.13. sheep?
q03_13g	float	%9.0g	3.13. horses / donkey?
q03_13z	float	%9.0g	3.13. OTHER
q03_13_ot	str100	%100s	3.13. Which of the following types of animals are raised by this household?OTHER
q03_14	byte	%8.0g	3.14. How many milk cows or bulls are owned by this household?
q03_15	byte	%8.0g	3.15. How many other cattle are owned by this household?
q03_16	byte	%28.0g	3.16. The livestock raised by this household are mainly?
q03_16_ot	str100	%100s	3.16. The livestock raised by this household are mainly?OTHER
q03_17	byte	%8.0g	3.17. Has your household's ability to raise livestock been disrupted?
q03_18_1	float	%57.0g	3.18. Reason 1
q03_18_2	float	%57.0g	3.18. Reason 2
q03_18_3	float	%57.0g	3.18. Reason 3
q03_18_ot	str100	%100s	3.18. Why you were not able to raise livestock as before? Other reason
q03_19	byte	%18.0g	3.19. This year is the income from raising livestock expected to be...
q03_20	byte	%8.0g	3.20. Do you or any member of your household catch fish?
q03_21	byte	%28.0g	3.21. The fish caught by this household are mainly...
q03_21_ot	str100	%100s	3.21. The fish caught by this household are mainly...OTHER
q03_22	byte	%8.0g	3.22. Has your household's ability to fish been disrupted?
q03_23_1	float	%45.0g	3.23. Reason 1
q03_23_2	float	%45.0g	3.23. Reason 2
q03_23_3	float	%45.0g	3.23. Reason 3
q03_23_ot	str100	%100s	3.23. What are the main reasons why you were not able to fish as before? Other r
q03_24	byte	%18.0g	3.24. Compared to last year, is the income from the fishing expected to be?
q03_24a	byte	%8.0g	3.24a. Does any member of your hh work for an employer for a wage or salary?
q03_24b	byte	%18.0g	3.24b. Is the income from the family bussiness expected to be...
q03_24c	byte	%8.0g	3.24c. Does any member of your hh work a non-farming bus. other than handicrafts
q03_24d	byte	%18.0g	3.24d. Is the income from the family bussieness expected to be...
q03_25	byte	%8.0g	3.25. Did your household usually receive money from elsewhere in Tonga or abroad
q03_26a	float	%9.0g	3.26. WITHIN TONGA
q03_26b	float	%9.0g	3.26. AUSTRALIA
q03_26c	float	%9.0g	3.26. NEW ZEALAND
q03_26d	float	%9.0g	3.26. UNITED STATES
q03_26z	float	%9.0g	3.26. OTHER COUNTRY
q03_27	byte	%18.0g	3.27 The money received by your hosedhold was...
q04_01a	byte	%8.0g	4.01a. fixed telephone line?
q04_01b	byte	%8.0g	4.01b. radio?
q04_01c	byte	%8.0g	4.01c. sofa?
q04_01d	byte	%8.0g	4.01d. bed?
q04_01e	byte	%8.0g	4.01e. table?
q04_01f	byte	%8.0g	4.01f. chair?
q04_01g	byte	%8.0g	4.01g. cupboard/ cabinet?
q04_01h	byte	%8.0g	4.01h. wrist-watch?
q04_01i	byte	%8.0g	4.01i. water tank?
q04_01j	byte	%8.0g	4.01j. television?
q04_01k	byte	%8.0g	4.01k. refrigerator?
q04_01l	byte	%8.0g	4.01l. freezer?

Variable name	Type	Format	Variable label
q04_01m	byte	%8.0g	4.01m. washing machine?
q04_01n	byte	%8.0g	4.01n. dvd player?
q04_01o	byte	%8.0g	4.01o. microwave?
q04_01p	byte	%8.0g	4.01p. electric sewing machine?
q04_01q	byte	%8.0g	4.01q. air conditioner?
q04_01r	byte	%8.0g	4.01r. water heater?
q04_01s	byte	%8.0g	4.01s. bicycle?
q04_01t	byte	%8.0g	4.01t. motorcycle/ scooter?
q04_01u	byte	%8.0g	4.01u. car, truck or van?
q04_01v	byte	%8.0g	4.01v. canoe / boat without motor?
q04_01w	byte	%8.0g	4.01w. boat with motor?
q04_01x	byte	%8.0g	4.01x. generator?
q04_01y	byte	%8.0g	4.01y. solar panel?
q04_01z	byte	%8.0g	4.01z. computer or tablet?
q04_02a	byte	%8.0g	4.02a. fixed telephone line?
q04_02b	byte	%8.0g	4.02b. radio?
q04_02c	byte	%8.0g	4.02c. sofa?
q04_02d	byte	%8.0g	4.02d. bed?
q04_02e	byte	%8.0g	4.02e. table?
q04_02f	byte	%8.0g	4.02f. chair?
q04_02g	byte	%8.0g	4.02g. cupboard/ cabinet?
q04_02h	byte	%8.0g	4.02h. wrist-watch?
q04_02i	byte	%8.0g	4.02i. water tank?
q04_02j	byte	%8.0g	4.02j. television?
q04_02k	byte	%8.0g	4.02k. refrigerator?
q04_02l	byte	%8.0g	4.02l. freezer?
q04_02m	byte	%8.0g	4.02m. washing machine?
q04_02n	byte	%8.0g	4.02n. dvd player?
q04_02o	byte	%8.0g	4.02o. microwave?
q04_02p	byte	%8.0g	4.02p. electric sewing machine?
q04_02q	byte	%8.0g	4.02q. air conditioner?
q04_02r	byte	%8.0g	4.02r. water heater?
q04_02s	byte	%8.0g	4.02s. bicycle?
q04_02t	byte	%8.0g	4.02t. motorcycle/ scooter?
q04_02u	byte	%8.0g	4.02u. car, truck or van?
q04_02v	byte	%8.0g	4.02v. canoe / boat without motor?
q04_02w	byte	%8.0g	4.02w. boat with motor?
q04_02x	byte	%8.0g	4.02x. generator?
q04_02y	byte	%8.0g	4.02y. solar panel?
q04_02z	byte	%8.0g	4.02z. computer or tablet?
q04_03	byte	%8.0g	4.03. How many mobile phones are owned by members of this household?
q04_04	byte	%8.0g	4.04. How many mobile phones have two active SIM cards?
q04_05	byte	%8.0g	4.05. Does any member of this household have a bank account?
q04_06	byte	%8.0g	4.06. Did any member of your household have access to internet at home?
q04_07	byte	%8.0g	4.07. How many rooms do members of your household usually use for sleeping?
q04_07a	byte	%59.0g	4.07a. What type of living quarter is this?
q04_07a_ot	str100	%100s	4.07a. What type of living quarter is this?
q04_07b	byte	%41.0g	4.07b. What is the tenure of this house/dwelling/apartment?
q04_07b_ot	str100	%100s	4.07b. What is the tenure of this house/dwelling/apartment?
q04_08	byte	%26.0g	4.08. What was the main material of the dwelling floor?
q04_08_ot	str100	%100s	4.08. What was the main material of the dwelling floor? Other
q04_09	byte	%23.0g	4.09. What was the main material of the roof?
q04_09_ot	str100	%100s	4.09. What was the main material of the roof?Other
q04_10	byte	%24.0g	4.10. What was the main material of exterior walls?
q04_10_ot	str50	%50s	4.10. What was the main material of exterior walls? Other

Variable name	Type	Format	Variable label
q04_11	byte	%42.0g	4.11. Prior to the volcanic eruption and tsunami, did your hh have electricity?
q04_12	byte	%48.0g	4.12. In your household, what type of cookstove was mainly used for cooking?
q04_12_ot	str100	%100s	4.12. In your household, what type of cookstove was mainly used for cooking? Ot
q04_13	byte	%18.0g	4.13. What type of fuel or energy source was mainly used in this cookstove?
q04_13_ot	str100	%100s	4.13. What type of fuel or energy source was mainly used in this cookstove?Ot
q04_14	byte	%27.0g	4.14. Was the cooking done in the house, in a separate building, or outdoors?
q04_14_ot	str100	%100s	4.14. Was the cooking done in the house, in a separate building, or outdoors?Ot
q04_15	byte	%44.0g	4.15. At night, what did your housheold mainly use to light the household?
q04_15_ot	str100	%100s	4.15. At night, what did your housheold mainly use to light the household?Ot
q04_16	byte	%31.0g	4.16. What was the main source of drinking water used by members of your hh?
q04_16_ot	str100	%100s	4.16. What was the main source of drinking water used by members of your hh?Ot
q04_17	byte	%17.0g	4.17. Where was that water source located?
q04_18	int	%8.0g	4.18. How long did it take to go there, get water, and come back?
q04_19	byte	%31.0g	4.19. What is the main source of drinking water used by members of your hh now?
q04_19_ot	str100	%100s	4.19. What is the main source of drinking water used by members of your hh now?O
q04_20	byte	%22.0g	4.20. In the month prior to the volc. erup., your hh did not have drinking water
q04_21	byte	%36.0g	4.21. What kind of toilet facility did members of your hh most usually use?
q04_21_ot	str100	%100s	4.21. What kind of toilet facility did members of your hh most usually use?Ot
q04_22	byte	%8.0g	4.22. Did you share this facility with others who are not members of your hh?
q04_23	byte	%8.0g	4.23. Did you have any soap or detergent, etc in your house for washing hands?
q05_01a	byte	%8.0g	5.01a. 12 months bf the volc. Erup. and tsunami adults in the hh had enough food
q05_01b	byte	%8.0g	5.01b. Did this happen at least once since the volcanic eruption and tsunami?
q05_02a	byte	%8.0g	5.02a. 12 months bf the volc. erup. and tsunami, adults did not eat healthy food
q05_02b	byte	%8.0g	5.02b. Did this happen at least once since the volcanic eruption and tsunami?
q05_03a	byte	%8.0g	5.03a. 12 months bf the volc. erup. and tsunami, adults ate only a few foods?
q05_03b	byte	%8.0g	5.03b. Did this happen at least once since the volcanic eruption and tsunami?
q05_04a	byte	%8.0g	5.04a. 12 month bf the volc. Erup. and tsunami, bc of lack of money skip a meal?
q05_04b	byte	%8.0g	5.04b. Did this happen at least once since the volcanic eruption and tsunami?
q05_05a	byte	%8.0g	5.05a. 12 month bf the volc. erup. and tsunami, adults ate less than you should?
q05_05b	byte	%8.0g	5.05b. Did this happen at least once since the volcanic eruption and tsunami?
q05_06a	byte	%8.0g	5.06a. 12 month bf the volc. erup. and tsunami, did your hh ran out of food?
q05_06b	byte	%8.0g	5.06b. Did this happen at least once since the volcanic eruption and tsunami?
q05_07a	byte	%8.0g	5.07a. 12 month bf the volc. erup. and tsunami, you were hungry but did not eat?
q05_07b	byte	%8.0g	5.07b. Did this happen at least once since the volcanic eruption and tsunami?
q05_08a	byte	%8.0g	5.08a. 12 month bf the volc. erup. and tsunami,any adult did not eat a day?
q05_08b	byte	%8.0g	5.08b. Did this happen at least once since the volcanic eruption and tsunami?
q06_01	byte	%8.0g	6.01. During the volc. erup. and tsunami, were any member of your hh injured?
q06_02	byte	%8.0g	6.02. Were that member of your hh able to access medical treat. for that injury?
q06_03	byte	%46.0g	6.03. What was the reason why that member of your hh was not able to access med
q06_03_ot	str100	%100s	6.03. What was the reason why that member of your hh was not able to access med
q06_04	byte	%8.0g	6.04. Any member of your hh had difficulty breathing so he needed medical treat.
q06_05	byte	%8.0g	6.05. Has any member of your hh needed medical care since the volcanic eruption?
q06_06	byte	%8.0g	6.06. Were you or that member of your household able to access medical treat.?
q06_07	byte	%46.0g	6.07. The main reason that member of your hh were not able to access med. treat.
q06_07_ot	str100	%100s	6.07. The main reason that member of your hh were not able to access med. treat.
q07_01	byte	%8.0g	7.01. Was your dwelling lost or damaged in the tsunami?
q07_02	byte	%8.0g	7.02. Sell assets?
q07_03	byte	%8.0g	7.03. Sell handicrafts?
q07_04	byte	%8.0g	7.04. Sell livestock?
q07_05	byte	%8.0g	7.05. Start or increase fishing activities?
q07_06	byte	%8.0g	7.06. Find ways to earn extra money?
q07_07	byte	%8.0g	7.07. Receive cash or borrow from friends or family?
q07_08	byte	%8.0g	7.08. Receive other assistance from friends or family?
q07_09	byte	%8.0g	7.09. Receive assistance from church or other religious body?
q07_10	byte	%8.0g	7.10. Take a loan from a financial institution?

Variable name	Type	Format	Variable label
q07_11	byte	%8.0g	7.11. Take a loan from an informal moneylender or saving group?
q07_12	byte	%8.0g	7.12. Purchase items on credit?
q07_13	byte	%8.0g	7.13. Delay making re-payments?
q07_14	byte	%8.0g	7.14. Sell harvest in advance?
q07_15	byte	%8.0g	7.15. Reduce food consumption?
q07_16	byte	%8.0g	7.16. Reduce non-food consumption?
q07_17	byte	%35.0g	7.17. Spend from savings?
q07_18	byte	%8.0g	7.18. Receive assistance from community groups, chiefs, kinship ties?
q07_19	byte	%8.0g	7.19. Receive assistance from NGO?
q07_20	byte	%8.0g	7.20. Take an advance from an employer?
q07_21	byte	%8.0g	7.21. Reduce the number of children attending school?
q07_22	byte	%8.0g	7.22. Receive government assistance?
q07_23a	byte	%8.0g	7.23. Has your hh received assistance from the gov.through elderly benefit prog?
q07_23b	byte	%8.0g	7.23. Has your household received assistance from the gov. disability ben. prog?
q07_23c	byte	%8.0g	7.23. Has your hh received money assistance from the gov. to high school student
q07_23d	byte	%8.0g	7.23. Has your hh received assis. from the gov. in response to the volc. erup.
q07_24	byte	%8.0g	7.24. Has the hh had to take other actions since the volc. eruption an tsunami
q07_25_1	float	%46.0g	7.25. Reason 1
q07_25_2	float	%46.0g	7.25. Reason 2
q07_25_3	float	%46.0g	7.25. Reason 3
q07_25_ot	str100	%100s	7.25. What forms of assistance do you think would be most beneficial to Tongan h
q08_01	byte	%8.0g	8.01. Did you receive a warning through an early warning sys prior to the tsunam
q08_02	byte	%10.0g	8.02. Do you or anyone in your household have property insurance?
q08_03	byte	%46.0g	8.03. Why not?
q08_03_ot	str100	%100s	8.03. Why not?OTHER
q08_04	byte	%20.0g	8.04. Are you expecting to receive a payout from your insurance policy?
q08_05	byte	%28.0g	8.05. Why not?
q08_05_ot	str100	%100s	8.05. Why not?OTHER
q08_06	byte	%8.0g	8.06. Are you receiving current updates about what is being done to help?
q08_07	byte	%33.0g	8.07. What is your main source of information?
q08_07_ot	str100	%100s	8.07. What is your main source of information?OTHER
q09_01	byte	%8.0g	9.01. Do you agree that we may call you back within the next months?
q09_02	byte	%8.0g	9.02. Could we have another alternative number to call?
q09_06	byte	%12.0g	9.06. INTERVIEWER: RECORD THE LANGUAGE USED DURING THE INTERVIEW
date_int	str8	%9s	Interview date
attempt	byte	%8.0g	Attempt
result	byte	%40.0g	Interview Result

Variable name	Value	Value label
DISTRICT	67611	Kolofo'ou
DISTRICT	67612	Kolomotu'a
DISTRICT	67613	Vaini
DISTRICT	67614	Tatakamotonga
DISTRICT	67615	Lapaha
DISTRICT	67617	Kolovai
DISTRICT	67621	Neiafu
DISTRICT	67622	Pangaimotu
DISTRICT	67623	Hahake
DISTRICT	67624	Leimatu'a
DISTRICT	67625	Hihifo
DISTRICT	67626	Motu
DISTRICT	67631	Pangai
DISTRICT	67632	Foa
DISTRICT	67633	Lulunga
DISTRICT	67634	Mu'omu'a
DISTRICT	67635	Haa
DISTRICT	67642	Eua fo'ou
DISTRICT	67651	Niuatoputapu
DISTRICT	67652	Niuafu'ou
Q01_01	1	YES
Q01_01	2	NO
Q01_02	1	YES
Q01_02	2	NO
Q01_02	99	SPECIAL CASE
Q01_03	1	YES
Q01_03	2	NO
Q01_05	1	MADE CONTACT WITH A QUALIFIED INFORMANT
Q01_05	2	NO CONTACT WITH A QUALIFIED INFORMANT
Q01_05	3	NO CONTACT WITH A QUALIFIED INFORMANT (WITH APPOINTMENT)
Q01_05	4	DOES NOT WANT TO PARTICIPATE IN THE SURVEY
Q01_06	1	YES, NOW
Q01_06	2	YES, LATER
Q01_06	3	NO, HOUSEHOLD WAS ALREADY INTERVIEWED
Q01_06	4	NO, REFUSES TO BE INTERVIEWED
Q02_01	1	MALE
Q02_01	2	FEMALE
Q02_02	1	HEAD .
Q02_02	2	SPOUSE
Q02_02	3	SON / DAUGHTER
Q02_02	4	STEP CHILD
Q02_02	5	ADOPTED CHILD
Q02_02	6	GRANDCHILD
Q02_02	7	BROTHER/SISTER
Q02_02	8	NIECE/NEPHEW
Q02_02	9	BROTHER/SISTER-IN-LAW
Q02_02	10	PARENT
Q02_02	11	PARENT-IN-LAW
Q02_02	12	DOMESTIC HELP (LIVE IN)
Q02_02	14	OTHER RELATIVE (SPECIFY)
Q02_02	15	OTHER NON-RELATIVE (SPECIFY)
Q02_04	1	MAN
Q02_04	2	WOMAN
Q02_06	1	YES
Q02_06	2	NO

Variable name	Value	Value label
Q02_07	1	YES
Q02_07	2	NO
Q02_08	1	YES
Q02_08	2	NO
Q02_09	1	NEVER ATTENDED SCHOOL
Q02_09	2	EARLY CHILDHOOD EDUCATION
Q02_09	3	PRIMARY
Q02_09	4	LOWER SECONDARY
Q02_09	5	UPPER SECONDARY
Q02_09	6	TECHNICAL AND VOCATIONAL
Q02_09	7	TERTIARY / UNIVERSITY
Q02_09	96	OTHER (SPECIFY)
Q02_10	1	MARRIED
Q02_10	2	LIVING WITH PARTNER
Q02_10	3	SINGLE
Q02_10	4	WIDOWED
Q02_10	5	DIVORCED
Q02_10	6	SEPARATED
Q02_11	6761	Tongatapu
Q02_11	6762	Vava'u
Q02_11	6763	Ha'apai
Q02_11	6764	Eua
Q02_11	6765	Ongo Niua
Q02_15	1	YES
Q02_15	2	NO
Q02_16	1	YES
Q02_16	2	NO
Q02_18	1	YES
Q02_18	2	NO
Q02_19	6761	Tongatapu
Q02_19	6762	Vava'u
Q02_19	6763	Ha'apai
Q02_19	6764	Eua
Q02_19	6765	Ongo Niua
Q03_01	1	YES
Q03_01	2	NO
Q03_02	1	higher than usual?
Q03_02	2	the same as usual?
Q03_02	3	less than usual?
Q03_02	4	NO INCOME
Q03_02	5	NEW BUSINESS
Q03_05	1	YES
Q03_05	2	NO
Q03_07	1	YES
Q03_07	2	NO
Q03_08	1	for home consumption?
Q03_08	2	to sell in the local market?
Q03_08	3	for export?
Q03_08	96	OTHER (SPECIFY)
Q03_09	1	YES
Q03_09	2	NO
Q03_10	1	CROPS HAVE SUFFERED / DIED DUE TO ASH.
Q03_10	2	CROPS HAVE SUFFERED / DIED DUE TO LACK OF WATER.
Q03_10	3	AIR TOO POLLUTED FOR FARMING / OUTDOOR WORK.
Q03_10	4	LOSS OF FARMING IMPLEMENTS

Variable name	Value	Value label
Q03_10	5	ADVISED TO STAY HOME
Q03_10	6	REDUCED AVAILABILITY OF HIRED LABOR
Q03_10	7	RESTRICTIONS ON MOVEMENT / TRAVEL
Q03_10	8	UNABLE TO ACQUIRE / TRANSPORT INPUTS
Q03_10	9	UNABLE TO SELL / TRANSPORT OUTPUTS
Q03_10	10	NEED TO CARE FOR ILL / DISABLED FAMILY MEMBER
Q03_10	11	NEED TO CARE FOR CHILDREN
Q03_10	12	INCREASED PRICE FOR INPUTS (SEEDS/FERTILIZERS/PESTICIDES)
Q03_10	13	BAD WEATHER (LONG RAINY SEASON,ETC)
Q03_10	14	NO LAND TO FARM DUE TO RELOCATION
Q03_10	96	OTHER (SPECIFY)
Q03_11	1	higher than usual?
Q03_11	2	the same as usual?
Q03_11	3	less than usual?
Q03_11	4	NO INCOME
Q03_12	1	YES
Q03_12	2	NO
Q03_13	1	YES
Q03_13	2	NO
Q03_16	1	for home consumption?
Q03_16	2	to sell in the local market?
Q03_16	96	OTHER (SPECIFY)
Q03_17	1	YES
Q03_17	2	NO
Q03_18	1	LIVESTOCK HAVE DIED/ NO MORE LIVESTOCK
Q03_18	2	ADVISED TO STAY HOME
Q03_18	3	REDUCED AVAILABILITY OF HIRED LABOR
Q03_18	4	RESTRICTIONS ON MOVEMENT / TRAVEL
Q03_18	5	UNABLE TO ACQUIRE / TRANSPORT INPUTS
Q03_18	6	UNABLE TO SELL / TRANSPORT OUTPUTS
Q03_18	7	NEED TO CARE FOR ILL / DISABLED FAMILY MEMBER
Q03_18	8	NEED TO CARE FOR CHILDREN
Q03_18	9	INCREASED PRICE FOR INPUTS (SEEDS/FERTILIZERS/PESTICIDES)
Q03_18	10	BAD WEATHER (LONG RAINY SEASON,ETC)
Q03_18	96	OTHER (SPECIFY)
Q03_19	1	higher than usual?
Q03_19	2	the same as usual?
Q03_19	3	less than usual?
Q03_19	4	NO INCOME
Q03_20	1	YES
Q03_20	2	NO
Q03_21	1	for home consumption?
Q03_21	2	to sell in the local market?
Q03_21	3	for export?
Q03_21	96	OTHER (SPECIFY)
Q03_22	1	YES
Q03_22	2	NO
Q03_23	1	AIR TOO POLLUTED FOR FISHING / OUTDOOR WORK
Q03_23	2	LOSS OF BOAT
Q03_23	3	LOSS OF NETS / FISHING IMPLEMENTS
Q03_23	4	SEAS TOO ROUGH
Q03_23	5	AFRAID TO GO ONTO OCEAN
Q03_23	6	FAD WASHED AWAY
Q03_23	7	NO FISH PRESENT
Q03_23	8	ADVISED TO STAY HOME

Variable name	Value	Value label
Q03_23	9	REDUCED AVAILABILITY OF HIRED LABOR
Q03_23	10	RESTRICTIONS ON MOVEMENT / TRAVEL
Q03_23	11	UNABLE TO ACQUIRE / TRANSPORT INPUTS
Q03_23	12	UNABLE TO SELL / TRANSPORT OUTPUTS
Q03_23	13	NEED TO CARE FOR ILL / DISABLED FAMILY MEMBER
Q03_23	14	NEED TO CARE FOR CHILDREN
Q03_23	15	BAD WEATHER (LONG RAINY SEASON,ETC)
Q03_23	96	OTHER (SPECIFY)
Q03_24	1	higher than usual?
Q03_24	2	the same as usual?
Q03_24	3	less than usual?
Q03_24	4	NO INCOME
Q03_24A	1	YES
Q03_24A	2	NO
Q03_24B	1	higher than usual?
Q03_24B	2	the same as usual?
Q03_24B	3	less than usual?
Q03_24C	1	YES
Q03_24C	2	NO
Q03_24D	1	higher than usual?
Q03_24D	2	the same as usual?
Q03_24D	3	less than usual?
Q03_24D	4	NO INCOME
Q03_24D	5	NEW BUSINESS
Q03_25	1	YES
Q03_25	2	NO
Q03_26	1	YES
Q03_26	2	NO
Q03_27	1	higher than usual?
Q03_27	2	the same as usual?
Q03_27	3	less than usual?
Q03_27	4	NO INCOME / STOP
Q04_01A	1	YES
Q04_01A	2	NO
Q04_01B	1	YES
Q04_01B	2	NO
Q04_01C	1	YES
Q04_01C	2	NO
Q04_01D	1	YES
Q04_01D	2	NO
Q04_01E	1	YES
Q04_01E	2	NO
Q04_01F	1	YES
Q04_01F	2	NO
Q04_01G	1	YES
Q04_01G	2	NO
Q04_01H	1	YES
Q04_01H	2	NO
Q04_01I	1	YES
Q04_01I	2	NO
Q04_01J	1	YES
Q04_01J	2	NO
Q04_01K	1	YES
Q04_01K	2	NO
Q04_01L	1	YES

Variable name	Value	Value label
Q04_01L	2	NO
Q04_01M	1	YES
Q04_01M	2	NO
Q04_01N	1	YES
Q04_01N	2	NO
Q04_01O	1	YES
Q04_01O	2	NO
Q04_01P	1	YES
Q04_01P	2	NO
Q04_01Q	1	YES
Q04_01Q	2	NO
Q04_01R	1	YES
Q04_01R	2	NO
Q04_01S	1	YES
Q04_01S	2	NO
Q04_01T	1	YES
Q04_01T	2	NO
Q04_01U	1	YES
Q04_01U	2	NO
Q04_01V	1	YES
Q04_01V	2	NO
Q04_01W	1	YES
Q04_01W	2	NO
Q04_01X	1	YES
Q04_01X	2	NO
Q04_01Y	1	YES
Q04_01Y	2	NO
Q04_01Z	1	YES
Q04_01Z	2	NO
Q04_02A	1	YES
Q04_02A	2	NO
Q04_02B	1	YES
Q04_02B	2	NO
Q04_02C	1	YES
Q04_02C	2	NO
Q04_02D	1	YES
Q04_02D	2	NO
Q04_02E	1	YES
Q04_02E	2	NO
Q04_02F	1	YES
Q04_02F	2	NO
Q04_02G	1	YES
Q04_02G	2	NO
Q04_02H	1	YES
Q04_02H	2	NO
Q04_02I	1	YES
Q04_02I	2	NO
Q04_02J	1	YES
Q04_02J	2	NO
Q04_02K	1	YES
Q04_02K	2	NO
Q04_02L	1	YES
Q04_02L	2	NO
Q04_02M	1	YES
Q04_02M	2	NO

Variable name	Value	Value label
Q04_02N	1	YES
Q04_02N	2	NO
Q04_02O	1	YES
Q04_02O	2	NO
Q04_02P	1	YES
Q04_02P	2	NO
Q04_02Q	1	YES
Q04_02Q	2	NO
Q04_02R	1	YES
Q04_02R	2	NO
Q04_02S	1	YES
Q04_02S	2	NO
Q04_02T	1	YES
Q04_02T	2	NO
Q04_02U	1	YES
Q04_02U	2	NO
Q04_02V	1	YES
Q04_02V	2	NO
Q04_02W	1	YES
Q04_02W	2	NO
Q04_02X	1	YES
Q04_02X	2	NO
Q04_02Y	1	YES
Q04_02Y	2	NO
Q04_02Z	1	YES
Q04_02Z	2	NO
Q04_05	1	YES
Q04_05	2	NO
Q04_06	1	YES
Q04_06	2	NO
Q04_07A	1	A one-family house?
Q04_07A	2	A one-household made up of multiple houses or dwellings?
Q04_07A	3	A one household house attach to another household house?
Q04_07A	4	A building with two or more apartments?
Q04_07A	5	Dwelling attached to a shop or other non-resident building?
Q04_07A	96	OTHER (SPECIFY)
Q04_07B	1	Owned with a mortgage or loan?
Q04_07B	2	Own the house outright (no loan)?
Q04_07B	3	Rented (With any payments)?
Q04_07B	4	Occupied without payment?
Q04_07B	5	Occupied without payment (from employer)?
Q04_07B	96	OTHER (SPECIFY)
Q04_08	0	FINISHED FLOOR
Q04_08	11	EARTH / SAND
Q04_08	21	WOOD PLANKS
Q04_08	22	PALM/BAMBOO
Q04_08	31	PARQUET OR POLISHED WOOD
Q04_08	33	CERAMIC TILES
Q04_08	34	CEMENT / CONCRETE / BRICKS
Q04_08	35	CARPET
Q04_08	96	OTHER (SPECIFY)
Q04_09	0	FINISHED ROOFING
Q04_09	11	NO ROOF
Q04_09	12	THATCH/ PALM LEAVES
Q04_09	23	WOOD PLANKS

Variable name	Value	Value label
Q04_09	24	CARDBOARD
Q04_09	31	METAL / TIN
Q04_09	32	WOOD
Q04_09	33	CALAMINE / CEMENT FIBRE
Q04_09	34	CEREMIC TILES
Q04_09	35	CEMENT
Q04_09	36	ROOFING SHINGLES
Q04_09	96	OTHER (SPECIFY)
Q04_10	0	FINISHED WALLS
Q04_10	11	NO WALLS
Q04_10	12	CANE / PALM / TRUNKS
Q04_10	24	PLYWOOD
Q04_10	25	CARDBOARD
Q04_10	26	REFUSED WOOD
Q04_10	27	METAL / TIN
Q04_10	31	CEMENT
Q04_10	32	STONE WITH LIME / CEMENT
Q04_10	33	BRICKS
Q04_10	34	CEMENT BLOCKS
Q04_10	36	WOOD PLANKS / SHINGLES
Q04_10	96	OTHER (SPECIFY)
Q04_11	1	YES, INTERCONNECTED GRID
Q04_11	2	YES, OFF-GRID (GENERATOR/ ISOLATED SYSTEM)
Q04_11	3	NO
Q04_12	1	ELECTRIC STOVE
Q04_12	2	SOLAR COOKER
Q04_12	3	LIQUEFIED PETROLEUM GAS (LPG)/ COOKING GAS STOVE
Q04_12	4	BIOGAS STOVE
Q04_12	5	LIQUID FUEL STOVE
Q04_12	6	MANUFACTURED SOLID FUEL STOVE
Q04_12	7	TRADITIONAL SOLID FUEL STOVE
Q04_12	8	THREE STONE STOVE / OPEN FIRE
Q04_12	9	NO FOOD COOKED IN HOUSEHOLD
Q04_12	96	OTHER (SPECIFY)
Q04_13	1	ALCOHOL/ ETHANOL
Q04_13	2	GASOLINE/ DIESEL
Q04_13	3	KEROSENE/ PARAFFIN
Q04_13	4	COAL/LIGNITE
Q04_13	5	CHARCOAL
Q04_13	6	WOOD
Q04_13	7	GARBAGE/ PLASTIC
Q04_13	96	OTHER (SPECIFY)
Q04_14	0	OUTDOORS
Q04_14	1	NO SEPARATE ROOM
Q04_14	2	IN A SEPARATE ROOM
Q04_14	3	IN A SEPARATE BUILDING
Q04_14	4	OPEN AIR
Q04_14	5	ON VERANDA OR COVERED PORCH
Q04_14	96	OTHER (SPECIFY)
Q04_15	1	ELECTRICITY
Q04_15	2	SOLAR LANTERN
Q04_15	3	RECHARGABLE FLASHLIGHT, TORCH OR LANTERN
Q04_15	4	BATTERY POWERED FLASHLIGHT, TORCH OR LANTERN
Q04_15	5	BIOGAS LAMP
Q04_15	6	GASOLINE LAMP

Variable name	Value	Value label
Q04_15	7	KEROSENE OR PARAFFIN LAMP
Q04_15	8	CHARCOAL
Q04_15	9	WOOD
Q04_15	10	ANIMAL DUNG / WASTE
Q04_15	11	OIL LAMP
Q04_15	12	CANDLE
Q04_15	13	NO LIGHTING IN HOUSEHOLD
Q04_15	96	OTHER (SPECIFY)
Q04_16	0	PACKAGED WATER
Q04_16	1	PIPED INTO DWELLING
Q04_16	2	PIPED TO YARD/PLOT
Q04_16	3	PIPED TO NEIGHBOUR
Q04_16	4	PUBLIC TAP/STANDPIPE
Q04_16	5	PROTECTED WELL
Q04_16	6	UNPROTECTED WELL
Q04_16	7	OWN CEMENT OR OTHER TANK
Q04_16	8	NEIGHBOR'S CEMENT OR OTHER TANK
Q04_16	9	COMMUNITY CEMENT OR OTHER TANK
Q04_16	10	TANKER TRUCK
Q04_16	11	BOTTLED / SATCHED WATER
Q04_16	96	OTHER (SPECIFY)
Q04_17	1	IN OWN DWELLING
Q04_17	2	IN OWN YARD/ PLOT
Q04_17	3	ELSEWHERE
Q04_19	0	PACKAGED WATER
Q04_19	1	PIPED INTO DWELLING
Q04_19	2	PIPED TO YARD/PLOT
Q04_19	3	PIPED TO NEIGHBOUR
Q04_19	4	PUBLIC TAP/STANDPIPE
Q04_19	5	PROTECTED WELL
Q04_19	6	UNPROTECTED WELL
Q04_19	7	OWN CEMET OR OTHER TANK
Q04_19	8	NEIGHBOR'S CEMENT OR OTHER TANK
Q04_19	9	COMMUNITY CEMENT OR OTHER TANK
Q04_19	10	TANKER TRUCK
Q04_19	11	BOTTLED WATER
Q04_19	96	OTHER (SPECIFY)
Q04_20	1	YES, AT LEAST ONCE
Q04_20	2	NO, ALWAYS SUFFICIENT.
Q04_20	98	DON'T KNOW.
Q04_21	0	PIT LATRINE
Q04_21	1	FLUSH TO PIPED SEWER SYSTEM
Q04_21	2	FLUSH TO SEPTIC TANK
Q04_21	3	FLUSH TO PIT LATRINE
Q04_21	4	FLUSH TO OPEN DRAIN
Q04_21	5	FLUSH TO DON'T KNOW WHERE
Q04_21	6	VENTILATED IMPROVED PIT LATRINE
Q04_21	7	PIT LATERINE WITH SLAB
Q04_21	8	PIT LATERINE WITHOUT SLAB / OPEN PIT
Q04_21	9	COMPOSTING TOILET
Q04_21	10	BUCKET
Q04_21	11	HANGING TOILET / HANGING LATERINE
Q04_21	12	NO FACILITY/ BUSH / FIELD
Q04_21	96	OTHER (SPECIFY)
Q04_22	1	YES

Variable name	Value	Value label
Q04_22	2	NO
Q04_23	1	YES
Q04_23	2	NO
Q05_01A	1	YES
Q05_01A	2	NO
Q05_01B	1	YES
Q05_01B	2	NO
Q05_02A	1	YES
Q05_02A	2	NO
Q05_02B	1	YES
Q05_02B	2	NO
Q05_03A	1	YES
Q05_03A	2	NO
Q05_03B	1	YES
Q05_03B	2	NO
Q05_04A	1	YES
Q05_04A	2	NO
Q05_04B	1	YES
Q05_04B	2	NO
Q05_05A	1	YES
Q05_05A	2	NO
Q05_05B	1	YES
Q05_05B	2	NO
Q05_06A	1	YES
Q05_06A	2	NO
Q05_06B	1	YES
Q05_06B	2	NO
Q05_07A	1	YES
Q05_07A	2	NO
Q05_07B	1	YES
Q05_07B	2	NO
Q05_08A	1	YES
Q05_08A	2	NO
Q05_08B	1	YES
Q05_08B	2	NO
Q06_01	1	YES
Q06_01	2	NO
Q06_02	1	YES
Q06_02	2	NO
Q06_03	1	LACK OF MONEY .
Q06_03	2	NO MEDICAL PERSONNEL AVAILABLE .
Q06_03	3	NEEDED SERVICE NOT AVAILABLE
Q06_03	4	TURNED AWAY BECAUSE FACILITY WAS FULL
Q06_03	5	UNABLE TO TRAVEL DUE TO LOCK DOWN RESTRICTIONS
Q06_03	6	AFFRAID TO VISIT FACILITY DUE TO COVID-19
Q06_03	7	TREATED WITH TRADITIONAL MEDITATION.
Q06_03	96	OTHER (SPECIFY).
Q06_04	1	YES
Q06_04	2	NO
Q06_05	1	YES
Q06_05	2	NO
Q06_06	1	YES
Q06_06	2	NO
Q06_07	1	LACK OF MONEY .
Q06_07	2	NO MEDICAL PERSONNEL AVAILABLE .

Variable name	Value	Value label
Q06_07	3	NEEDED SERVICE NOT AVAILABLE
Q06_07	4	TURNED AWAY BECAUSE FACILITY WAS FULL
Q06_07	5	UNABLE TO TRAVEL DUE TO LOCK DOWN RESTRICTIONS
Q06_07	6	AFFRAID TO VISIT FACILITY DUE TO COVID-19
Q06_07	7	TREATED WITH TRADITIONAL MEDICATION.
Q06_07	96	OTHER (SPECIFY)
Q07_01	1	YES
Q07_01	2	NO
Q07_02	1	YES
Q07_02	2	NO
Q07_03	1	YES
Q07_03	2	NO
Q07_04	1	YES
Q07_04	2	NO
Q07_05	1	YES
Q07_05	2	NO
Q07_06	1	YES
Q07_06	2	NO
Q07_07	1	YES
Q07_07	2	NO
Q07_08	1	YES
Q07_08	2	NO
Q07_09	1	YES
Q07_09	2	NO
Q07_10	1	YES
Q07_10	2	NO
Q07_11	1	YES
Q07_11	2	NO
Q07_12	1	YES
Q07_12	2	NO
Q07_13	1	YES
Q07_13	2	NO
Q07_14	1	YES
Q07_14	2	NO
Q07_15	1	YES
Q07_15	2	NO
Q07_16	1	YES
Q07_16	2	NO
Q07_17	1	YES
Q07_17	2	NO, I HAVEN'T SPENT FROM MY SAVINGS
Q07_17	3	NO, I DONT HAVE SAVINGS
Q07_18	1	YES
Q07_18	2	NO
Q07_19	1	YES
Q07_19	2	NO
Q07_20	1	YES
Q07_20	2	NO
Q07_21	1	YES
Q07_21	2	NO
Q07_22	1	YES
Q07_22	2	NO
Q07_23A	1	YES
Q07_23A	2	NO
Q07_23B	1	YES
Q07_23B	2	NO

Variable name	Value	Value label
Q07_23C	1	YES
Q07_23C	2	NO
Q07_23D	1	YES
Q07_23D	2	NO
Q07_24	1	YES
Q07_24	2	NO
Q07_25	1	FOOD ASSISTANCE / MORE SECURE ACCESS TO FOOD
Q07_25	2	MORE SECURE ACCESS TO WATER
Q07_25	3	TEMPORARY HOUSING.
Q07_25	4	PROVISION OF CLOTHING AND HOUSEHOLD SUPPLIES
Q07_25	5	BETTER ACCESS TO MEDICINES AND HEALTH SERVICES
Q07_25	6	CASH / CASH FOR WORK / GOVERNMENT ASSISTANCE
Q07_25	7	MORE SECURE ACCESS TO TRANSPORT
Q07_25	96	OTHER (SPECIFY)
Q08_01	1	YES
Q08_01	2	NO
Q08_02	1	YES
Q08_02	2	NO
Q08_02	98	DON'T KNOW
Q08_03	1	DID NOT THINK IT WAS NECESSARY.
Q08_03	2	NOT FAMILIAR WITH IT OR HAD NOT HEARD ABOUT IT
Q08_03	3	NOT AVAILABLE / INSURANCE COMPANY REFUSED
Q08_03	4	TOO EXPENSIVE / DEDUCTIBLE TOO HIGH
Q08_03	96	OTHER (SPECIFY)
Q08_04	1	YES
Q08_04	2	NO
Q08_04	3	PROPERTY NOT DAMAGED
Q08_04	98	DON'T KNOW
Q08_05	1	PROPERTY NOT DAMAGED
Q08_05	2	VOLCANO/Tsunami NOT COVERED
Q08_05	3	DON'T KNOW HOW TO FILE CLAIM
Q08_05	96	OTHER (SPECIFY).
Q08_06	1	YES
Q08_06	2	NO
Q08_07	1	RADIO
Q08_07	2	NEWSPAPER
Q08_07	3	TELEVISION
Q08_07	4	TEXT MESSAGE / SMS / WHATSAPP
Q08_07	5	FACEBOOK / TWITTER / SOCIAL MEDIA
Q08_07	6	INTERNET / E-MAIL
Q08_07	7	PUBLIC MEETINGS
Q08_07	8	MAIL.
Q08_07	9	PRINTED MATERIAL
Q08_07	96	OTHER (SPECIFY)
Q09_01	1	YES
Q09_01	2	NO
Q09_02	1	YES
Q09_02	2	NO
Q09_06	0	ONLY TONGAN
Q09_06	2	ONLY ENGLISH
Q09_06	3	BOTH
RESULT_WEB	0	0 NONE
RESULT_WEB	1	1 COMPLETE INTERVIEW
RESULT_WEB	2	2 REFUSAL
RESULT_WEB	3	3 NO CONTACT WITH A QUALIFIED INFORMANT

Variable name	Value	Value label
RESULT_WEB	4	4 UNDER 18 YEARS
RESULT_WEB	5	5 INCOMPLETE AND REFUSAL
RESULT_WEB	6	6 INCOMPLETE AND CALL AGAIN
RESULT_WEB	7	7 APPOINTMENT
RESULT_WEB	8	8 BUSY LINE
RESULT_WEB	9	9 INVALID /INACTIVE NUMBER
RESULT_WEB	10	10 CUT DUE TO NON-PAYMENT
RESULT_WEB	11	11 CALL AND NOBODY ANSWERS
RESULT_WEB	12	12 VOICE MAILBOX
RESULT_WEB	13	13 INFORMANT PASSED AWAY
RESULT_WEB	14	14 SPECIAL CASE (COMPANY TELEPHONE)
RESULT_WEB	15	15 SPECIAL CASE (OTHERS)
RESULT_WEB	16	16 HOUSEHOLD WAS ALREADY INTERVIEWED
RESULT_WEB	17	17 OUT OF COVERAGE AREA
RESULT_WEB	18	18 PHONE TURNED OFF / NO SOUND
RESULT_WEB	20	20 DELETED DUE TO POOR INTERVIEW QUALITY
RUR	1	Urban
RUR	2	Rural
cod_enc	676664	664-Makalita
cod_enc	676665	665-Potauaine
cod_enc	676666	666-Nafetalai
cod_enc	676667	667-Lute
cod_enc	676668	668-Penitauni
cod_enc	676669	669-Fatima
cod_enc	676670	670-Silivia
cod_enc	676671	671-Leilani
cod_enc	676672	672-Fakamalinga
cod_enc	676673	673-Fitaloa
cod_enc	676674	674-Lesieli
cod_enc	676675	675-Piimilose
cod_enc	676676	676-Pasikala
cod_enc	676677	677-Fale
cod_enc	676678	678-Filamoti
cod_enc	676679	679-Paula
cod_enc	676680	680-Meleane
cod_enc	676681	681-Hiko
cod_enc	676682	682-Sela
cod_enc	676683	683-Elenoa
village	6761101	Kolofo'ou
village	6761102	Ma'ufanga
village	6761103	Nukunukumotu
village	6761105	Popua
village	6761106	Tukutonga
village	6761107	Pangaimotu
village	6761108	Fafaa Island
village	6761109	Ata Island
village	6761201	Kolomotu'a
village	6761202	Havelu
village	6761203	Tofoa
village	6761204	Hofoa
village	6761205	Puke
village	6761206	Sia'atoutai
village	6761301	Vaini
village	6761302	Malapo
village	6761303	Longoteme

Variable name	Value	Value label
village	6761304	Folaha
village	6761305	Nukuhetulu
village	6761306	Veitongo
village	6761307	Ha'ateiho
village	6761308	Pea
village	6761309	Tokomololo
village	6761401	Tatakamotonga
village	6761402	Holonga
village	6761403	Pelehake
village	6761404	Fua'amotu
village	6761405	Nakolo
village	6761406	Ha'asini/Hamula
village	6761407	Lavengatonga
village	6761408	Haveluliku
village	6761409	Fatumu
village	6761501	Lapaha
village	6761502	Talasiu
village	6761503	Hoi
village	6761504	Nukuleka
village	6761505	Makaunga
village	6761506	Talafo'ou
village	6761507	Manuka
village	6761508	Navutoka
village	6761509	Kolonga
village	6761510	Afa
village	6761511	Niutoua
village	6761512	Eueiki Island
village	6761513	Fukave Island
village	6761601	Nukunuku
village	6761602	Matahau
village	6761603	Matafonua
village	6761604	Fatai
village	6761605	Lakepa
village	6761606	Vaotu'u
village	6761607	Utulau
village	6761608	Ha'alalo
village	6761609	Ha'akame
village	6761610	Houma
village	6761701	Kolovai
village	6761702	Te'ekiu
village	6761703	Masilamea
village	6761704	Fahefa
village	6761705	Ha'utu
village	6761706	Kala'au
village	6761707	Fo'ui
village	6761708	Ha'avakatolo
village	6761709	Ahau
village	6761710	Kanokupolu
village	6761711	Ha'atafu
village	6761712	Atataa Island
village	6762101	Neiafu
village	6762102	Makave
village	6762103	Toula
village	6762104	Utui
village	6762105	Ofu

Variable name	Value	Value label
village	6762106	Okoa
village	6762107	Olo'ua
village	6762201	Pangaimotu
village	6762202	Utulei
village	6762203	Nga'unoho
village	6762204	Utungake
village	6762205	Tapana
village	6762301	Ha'alaufuli
village	6762302	Ha'akio
village	6762303	Houma
village	6762304	Mangia
village	6762305	Ta'anea
village	6762306	Tu'anekeviale
village	6762307	Koloa
village	6762308	Holeva
village	6762401	Leimatu'a
village	6762402	Holonga
village	6762403	Feletoa
village	6762404	Mataika
village	6762501	Longomapu
village	6762502	Taoa
village	6762503	Tefisi
village	6762504	Vaimalo
village	6762505	Tu'anuku
village	6762601	Kapa
village	6762602	Falevai
village	6762603	Otea
village	6762604	Lape
village	6762605	Matamaka
village	6762606	Nuapapu
village	6762607	Ovaka
village	6762608	Taunga
village	6762609	Hunga
village	6762610	Foatea
village	6762611	Vaka'eitu
village	6762612	Mounu
village	6762613	Eueiki
village	6762614	Mala
village	6762615	Fofoa
village	6763101	Pangai
village	6763102	Hihifo
village	6763103	Holopeka
village	6763104	Koulo
village	6763201	Fangale'ounga
village	6763202	Fotua
village	6763203	Lotofoa
village	6763204	Faleloa
village	6763205	Ha'afakahenga
village	6763206	Ha'ateiho Si'i
village	6763301	Ha'afeva
village	6763302	Tungua
village	6763303	Fotuha'a
village	6763304	O'ua
village	6763305	Matuku
village	6763306	Kotu

<b>Variable name</b>	<b>Value</b>	<b>Value label</b>
village	6763401	Nomuka
village	6763402	Mango
village	6763403	Fonoifua
village	6763501	Fakakai
village	6763502	Pukotala
village	6763503	Ha'ano
village	6763504	Muitoa
village	6763505	Mo'unga'one
village	6763601	Uiha
village	6763602	Felemea
village	6763603	Lofanga
village	6764101	Ohonua
village	6764102	Tufuvai
village	6764103	Pangai
village	6764104	Houma
village	6764105	Kolomaile
village	6764106	Ta'anga
village	6764201	Angaha
village	6764202	Futu
village	6764203	Esia
village	6764204	Sapa'ata
village	6764205	Fata'ulua
village	6764206	Mu'a
village	6764207	Tongamama'o
village	6764208	Petani
village	6764209	Mata'aho
village	6765101	Hihifo
village	6765102	Vaipoa
village	6765103	Falehau
village	6765104	Tafari
village	6765201	Esia
village	6765202	Kolofo'ou
village	6765203	Sapaata
village	6765204	Fata'ulua
village	6765205	Mata'aho
village	6765206	Mu'a
village	6765207	Tongamama'o
village	6765208	Petani