

# Appendix 2: 2015 TNAC HOLDING QUESTIONNAIRE

TNAC Form 1 – Holding

## 2015 TONGA NATIONAL AGRICULTURAL CENSUS

Ministry of Agriculture, Food, Forests & Fisheries and Statistics Department

**Confidentiality Statement**  
The information is being collected under the Statistics Act 1978 and will be kept strictly confidential and will be used for statistical purposes only.

**A. IDENTIFICATION PARTICULARS**

**Holding ID**

Village Number:

Census Block:

Household No.:

Sample:  1 Yes  2 No

Village Name: \_\_\_\_\_

**Type of Holding**

1. Individual      3. Joint operation      5. Cooperative      7. Government

2. Family          4. Religious          6. Company          8. Semi Government

Head of Household:

Phone Number: \_\_\_\_\_

Enumerator's Name: \_\_\_\_\_

Respondent's Name: \_\_\_\_\_

Supervisor's Name: \_\_\_\_\_

**B. HOUSEHOLD MEMBERSHIP DEMOGRAPHIC AND ECONOMIC INFORMATION**  
List the names (Full Name) and complete the following of all person residing in this household (Codes for Column 4,6,7,8,9 and 10 are at the next page)

Line Number	Full Name	Sex 1 Male 2 Female	Relation to head of household	Age (yrs.)	Education (code)	For Household Members 15 years old and over			Activity in holding	
						Main Activity (CODE)	Employment Status	Sector of employment Code		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	
1	Head: _____									
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
<b>MALE</b>		<input type="text"/>	+	<b>FEMALE</b>		<input type="text"/>	=	<b>TOTAL</b>		<input type="text"/>

**C. ENGAGEMENT IN SUBSECTORS**

Is any member of your household engage in these area?

Growing crops ■ 1 Yes 2 No

Rearing livestock ■ 1 Yes 2 No

Fisheries ■ 1 Yes 2 No

Forestry ■ 1 Yes 2 No

Handicraft making ■ 1 Yes 2 No

<b>CODES FOR SECTION B</b>		
<p><b>Code for Relation to head of household (Col 4):</b></p> <ul style="list-style-type: none"> <li>1 Head</li> <li>2 Spouse</li> <li>3 Biological - born son &amp; daughter</li> <li>4 Adopted - son &amp; daughter</li> <li>5 Brother / Sister</li> <li>6 Grandchild</li> <li>7 Parent of head</li> <li>8 Parent of spouse</li> <li>9 Child of spouse (step child)</li> <li>10 Other relatives</li> <li>11 No relation</li> </ul>	<p><b>Code for education (Col 6):</b></p> <ul style="list-style-type: none"> <li>0 No schooling</li> <li>1 Pre-primary education</li> <li>2 Primary education</li> <li>3 Secondary education 1 (F/I - F/IV)</li> <li>4 Secondary education 2 (F/V - F/VII)</li> <li>5 Post – secondary education (TVET)</li> <li>6 Tertiary - First stage of tertiary education</li> <li>7 Tertiary - Second stage of tertiary education</li> <li>8 Other</li> </ul>	
<b>Code for sector of employment (Col 9):</b>		
<ul style="list-style-type: none"> <li>01 Agriculture, forestry and fishing</li> <li>02 Mining and quarrying</li> <li>03 Manufacturing</li> <li>04 Electricity, gas, steam,</li> <li>05 Water supply; sewerage, waste management &amp; Remediation act.</li> <li>06 Construction</li> <li>07 Trade</li> <li>08 Transportation &amp; Storage</li> <li>09 Accomodation &amp; Food service activities</li> <li>10 Information &amp; Communication</li> </ul>	<ul style="list-style-type: none"> <li>11 Financial &amp; insurance activities</li> <li>12 Real estate, rental and leasing activities</li> <li>13 Professional, Science &amp; technical activities</li> <li>14 Administrative &amp; Support service activities</li> <li>15 Education</li> <li>16 Human health and Social work</li> <li>17 Arts, Entertainment and recreation</li> <li>18 Other service activities</li> <li>19 Public administration &amp; defense; compulsory social security</li> <li>20 Activities of households as employers</li> <li>21 Extraterritorial organization &amp; Bodies</li> </ul>	
<p><b>Code for activity (Col. 7):</b></p> <ul style="list-style-type: none"> <li>1. Farming</li> <li>2. Fishing</li> <li>3. Livestock</li> <li>4. Handicrafts</li> <li>5 Forestry</li> <li>6 None of the Above</li> </ul>	<p><b>Code for Employment Status (Col 8)</b></p> <ul style="list-style-type: none"> <li>1. Own – account</li> <li>2 Employer</li> <li>3. Employee Government</li> <li>4. Employee Private</li> <li>5. Unpaid Worker</li> <li>6. Students</li> <li>7. Others</li> </ul>	<p><b>Code for Activity in Holding (Col 10)</b></p> <ul style="list-style-type: none"> <li>1. Planting</li> <li>2. Harvesting</li> <li>3. Livestock rearing</li> <li>4. Fish Catching</li> <li>5. Fish Processing</li> <li>6. Forestry</li> <li>7. Handicraft</li> <li>8. Transporting</li> <li>9. Selling</li> <li>10. None of the Above</li> </ul>







**F. AGRICULTURAL PRACTICES**

- F1** Did your household use any inorganic fertilizers in this holding in the past twelve months?  1 Yes  2 No
- F2** Did your household use any organic fertilizers in this holding in the past twelve months?  1 Yes  2 No
- F3** Did your household use any Pesticides in this holding in the past 12 months?  1 Yes  2 No
- F4** Did your household use any irrigation in the past 12 months?  1 Yes  2 No

**F5** Specify the crops of these Holding, Fertilizers, Pesticides and Irrigation (If all boxes are 2, Go to F6)

Line No.	Name of Crop	Code <i>Official Use</i>	Fertilizer used (Code)			Pesticide used (Code)			Irrigation	
			1 Yes	2 No	1 Yes	2 No	1 Yes	2 No	Yes	No
(1)	(2)	(2a)	(3)			(4)			(5)	
			NPK	UREA	ORGANIC FERTILIZER	OTHER	INSECTICIDE	HERBICIDE	FUNGICIDE	OTHER
1										
2										
3										
4										
5										
6										
7										

**F6** Is this household engaging in community farming (TOUTU'U)?  1 Yes  2 No (If 2, GO TO G1)

No.	NAME OF CROPS	OFFICIAL USE	NAME OF COMMUNITY
(1)	(2)	(3)	(4)
1			
2			
3			
4			
5			

**G. LIVESTOCK**

**G1** Does the Household have any livestock including dogs and cat as of the day of enumeration?

1 Yes

2 No

(If 2 Go to G2)

Species (1)	Code (2)	Heads (3)		
<b>1. Beef Cattle (11+12+13+14+15) (pulu kakano)</b>	<b>10</b>			
1.1. Calves (< 6 months)	11			
1.2. Steer (young male cattle: 6 - 24 months)	12			
1.3 Heifer (young female cattle: 6 - 24 months)	13			
1.4 Bull (adult male cattle)	14			
1.5 Cow (adult female cattle)	15			
<b>2. Dairy Cattle (21+22+23+24+25) (pulu hu'akau)</b>	<b>20</b>			
2.1 Calves (< 6 months)	21			
2.2 Steer (young male cattle: 6 - 24 months)	22			
2.3 Heifer (young female cattle: 6 - 24 months)	23			
2.4 Bull (adult male cattle)	24			
2.5 Cow (adult female cattle)	25			
<b>3. Pig(31+32+33+34+35)</b>	<b>30</b>			
3.1. Boar (puaka tau)	31			
3.2. Sow (puaka sinamanu)	32			
3.3. Piglet (fanganga kei huhu)	33			
3.4. Weaner (puaka mui)	34			
3.5. Barrow (fufula)	35			
<b>4. Horse (41+42)</b>	<b>40</b>			
4.1. Male	41			
4.2. Female	42			
<b>5. Sheep (51+52+53)</b>	<b>50</b>			
5.1. Lamb ('uhiki'i sipi)	51			
5.2. Ewe (sipi sinamanu fefine)	52			
5.3 Ram (sipi tau)	53			
<b>6. Goat (61+62)</b>	<b>60</b>			
6.1. Male (kosi tangata)	61			
6.2. Female (kosi fefine)	62			
<b>7. Chicken (71+72+73)</b>	<b>70</b>			
7.1 Broiler (moa palangi kakano)	71			
7.2 Egg layer (moa palangi fakato)	72			
7.3 Domestic Breeds (moa Tonga)	73			
7.3.1 Male (rooster) (moa ta'ane)	74			
7.3.2 Female (hen)(moa fefine)	75			
<b>8. Duck (pato)</b>	<b>80</b>			
<b>9. Dog (91+92)</b>	<b>90</b>			
9.1 Male (kuli tangata)	91			
9.2 Female (kuli fefine)	92			
<b>10. Cat (pusi)</b>	<b>100</b>			

**G2** Did the household dispose any livestock in the past twelve month? 1 Yes 2. No  (If 2, GO to G3)

Kind of Livestock	Code	Number of Animals Disposed of in the last 12 months					
		Consumed	Social Obligations (Social/Feast)	Sold		Lost	
				Number	Value (T\$)	Number	Value (T\$)
(1)	(1a)	(2)	(3)	(4)	(5)	(6)	(7)
Beef Cattle	10						
Milk Cattle	15						
Pigs	30						
- Boar	31						
- Sow	32						
- Piglet	33						
- Weaner	34						
- Barrow	35						
Sheep	50						
Goats	60						
Chickens	70						

**G3. Veterinary Services Used**

Did this household used any of the Veterinary services in the past 12 months?

1 Yes   
2 No   
(if 2, GO to H1)

	Services received					
	Cattle 1. Yes 2. No	Goats 1. Yes 2. No	Pigs 1. Yes 2. No	Chickens/Ducks 1. Yes 2. No	Horse 1. Yes 2. No	Dog 1. Yes 2. No
(1)	(2)	(3)	(4)	(5)	(6)	(7)
Vaccination						
Artificial Insemination						
Castration						



H. FISHERIES										
H1. What type of fishing did any of the members of the household usually engage?										
Fishing Type	C O D	1 Yes 2 No	Average number of trips per week	Average Person Hour per trip		Average Catch (CTU) per week	Unit Cod e	Average or weekly Value of Fish sold (T\$)		
				Male	Female					
Handline/shallow ( <i>taumata'u mamaha</i> )	1									
Handline/deep sea ( <i>taumata'u lolota</i> )	2									
Gillnet ( <i>kupenga fakamohe</i> )	3									
Cast net ( <i>kupenga sili</i> )	4									
Spear fishing (night) ( <i>uku po'uli</i> )	5									
Spearfishing (Day) ( <i>uku 'aho</i> )	6									
Reef Gleaning ( <i>fangata pe tu'fi pe he hakau pe 'ulu'ulu</i> )	7									
Octopus fishing (diving/lure) ( <i>uku feke/maka feke/a'a feke</i> )	8									
Trolling ( <i>fakatele</i> )	9									
Fish Fence ( <i>pa ika</i> )	10									
Others: (specify):	11									

**Units or CTU CODES**  
1 Kilograms (Kg)    3 Basket (Kato)    5 Bottle (hina)    7 String (tuंगा)  
2 Plastic bags (milemila)    4 Kofukofu    6 Numbers    8 Others

**H2. What was the main purpose of your household fishing activity?**  
1 Home consumption and Social Obligation  
2 Home consumption and occasional sale  
3 Mainly for sale

**H3. What were the species harvested ?    1 Yes    2 No (Answer 1 or 2 in the boxes)**

Tunas & Pelagic	Lobster	Shellfish	Sea Cucumber	Seaweed	Ornamental coral	Reef Finfish	Sea urchin	Others
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**H4. What type of habitat do you usually fishing?**

Habitat type	Frequency
Reef flat ( <i>funga hakau pe 'ulu'ulu</i> )	<input type="checkbox"/>
Lagoon ( <i>tahi namo</i> )	<input type="checkbox"/>
Sea grass ( <i>tahi limu</i> )	<input type="checkbox"/>
Reef slope ( <i>tu'a hakau pe tu'a 'ulu'ulu</i> )	<input type="checkbox"/>
Open sea ( <i>tahi tu'a</i> )	<input type="checkbox"/>

**Frequency CODE**  
1 Always  
2 Sometimes  
3 Never

**H5. When do you go fishing?**

**Time CODE**   
1 Day  
2 Night  
3 Day and Night

**SEASON CODE**   
1 All Years  
2 Summer  
3 Winter



**K LABOUR**

**K1** Did your household hire and use any Group Labor (toungeaue) on this holding in the last twelve months?

1 Yes   
2 No

(If 2, GO to K2)

*If 1 Fill the table below*

	Male	Female	Total
Number of laboeres			
Average number of days worked			
Average hour worked/day			

**K2** Did your household use any permanent labourers?

1 Yes   
2 No

(If 2, GO to L)

Num ber	SEX		Hours of worked in the holding last	Wages per Months	Other benefits received (Code)	Status	
	1. Male	2. Female				1. Full Time	2. Part Time
1							
2							
3							
4							
5							

**Codes for Other Benefits**  
1 Meals only    2 Housing only    3 Both 1 & 2 above    4 Others

**L. MACHINERY AND EQUIPMENT**

Type of Equipment	Code	Used in the past twelve months (number)	Sorce of machinery/equipments (Code)			Stock Owned by Holding at time of visit (Number)
			Owned	Private Lease	Govern ment	
Add local name						
A	B	(1)	(2)			(3)
<b>CROP Equipment</b>	10					
Tractor	11					
Tractor Implement	12					
Rotary hoe	13					
Knapsack Sprayer	14					
Mist Blower	15					
Weed Eaters	16					
Chainsaw	17					
Others (Specify)	18					
<b>Fishing Equipment</b>	20					
Fishing boats with in-board engine	21					
Fishing boats with out-board engine	22					
Canoe	23					
Others (Specify)	24					
<b>Transport</b>	30					
Van (less than 2 tonnes )	31					
Van (2 tonnes and above)	32					
<b>Energy</b>	40					
Electric Generator	41					
Others (Specify)	42					
<b>Livesstock Equipment</b>	50					
Wheelbarrow	51					
Others (Specify)	52					

**M. AGRICULTURAL INCOME AND LOAN FOR ALL SUBSECTORS**

**M1.** What is the proportion of your household's total income (in cash/in kind) usually derived from agricultural activities during the past twelve months?

- 1. None
- 2. 1%-25%
- 3. 26%-50%
- 4. 51% - 75%
- 5. 76% - 100%

**M2.** Did any member of your household avail loan(s) for your agricultural activities in this holding in the last twelve months?

- 1 Yes
- 2 No

(If 2, FINISH)

Number	Source of Loan (Code)	Purpose of Loan	Amount Loan (TOP\$)	Repayment amount in months (TOP\$)
1				
2				
3				
4				
5				
6				

**Source of Loan CODE**

- 1 Tonga Development Bank
- 2 Other Banks
- 3 Exports (in kind)
- 4 Other Source

**Purpose of Loan**

- 1. Agricultural Inputs
- 2. Agricultural Development
- 3. Marketing
- 4. Others

**M3** In your own opinion, Which of these drawbacks that impedes your agricultural, forestry, handicrafts, fisheries or livestock operation the most. (Please input the codes of the 3 drawbacks from first to third in the box)?

- 1 Lack of Production Inputs
- 2 Lack of source of finance
- 3 Lack of mangement skills
- 4 Lack of Market
- 5 Lack of new technologies and new infrastructures

	Agriculture	Forestry	Handicrafts	Fisheries	Livestock
First	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Second	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Third	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>