

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									

MALE

+

FEMALE

=

TOTAL

C. ENGAGEMENT IN SUBSECTORS

Is any member of your household engage in these area?

Growing crops

☐ 1 Yes 2 No

Forestry

☐ 1 Yes 2 No

Rearing livestock

☐ 1 Yes 2 No

Handicraft making

☐ 1 Yes 2 No

Fisheries

☐ 1 Yes 2 No

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

D. USE OF LAND AT TIME OF VISIT

D1 How many parcel OF land do you have?

Town Allotment

11

Bush Allotment

--	--

Town Allotment

Parcel No.	Area in Square meters	Land Tenure	Village Name	Village Code		Land Use			
						Area in			
				Residential Building	Home Garden	Animal Yard	Others		
				(1)	(2)	(3)	(4)	(5)	(6)
					Square meters	Square meters	Square meters	Square meters	
TOTAL									

Code for Land tenure (3) : 1. Owned 2. Short-term Lease 3. Long-term Lease 4. Others

D2 Can you please name the trees in your town allotment and how many trees(including Fruit trees, Food crops, forestry)?

Number	Name of Trees	Code			Number of Trees	
		OFFICIAL USE				
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						

Number	Name of Trees	Code			Number of Trees	
		OFFICIAL USE				
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

D3 Bush Allotment

[illegible]

Code for Land tenure (4) : 1. Owned 2. Short-term Lease 3. Long-term Lease 4. Others

Code for purpose of fallow(14): 1. Improve Agricultural Productivity, 2. Lack of Finance, 3 Others

D4 Land under mixed land use (e.g. pasture and coconut) in acres

D5 Have your household rented land to others ?

D6 If yes, How many parcel? Total Area Rented Acres

E. FOOD CROPS

E1 Did your household still cultivate and/or harvest during the reference period any annual crops and/or perennial crops, which were not grown in the past twelve months?

1 Existing Crops

2 Crops Harvested

3 Both

(if 2, Go to E1-B)

A. Crops Planted in the last 12 months and still growing (existing crops)

Parcel Number	Name of Crops	Code	Method of planting 1.Compact 2.Line 3.Scatter	Type of Planting 1.Single Crop 2.Mixed Crop 3.Scattered	Area	No. of Plants
					Acres	
(1)	(2)	Official Use (2a)	(3)	(4)	(5)	(6)

B. Crops Harvested (last 12 months)

Parcel No.	Name of Crop	Code	Area)	Number	CTU Code
			Acres		
(1)	(7)	Official Use (7a)	-8	(9)	

Units or CTU CODES

1 Kilograms (Kg)

3 Basket (Kato)

5 Heap (tuúnga)

7 Bunch (Kau siaine)

9 Plants

11 Others

2 Plastic bags (milemila)

4 Bundle (Haínga)

6 Numbers

8 Hands (taai siaine)

10 Bags (Tangai)

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			Fertilizer used (Code)				Pesticide used (Code)				Irrigation	
		Official Use			1 Yes 2 No				1 Yes 2 No				1. Yes	2. No
(1)	(2)	(2a)			(3)				(4)				(5)	
					NPK	UREA	ORGANIC FERTILIZE	OTHER	INSEC TICID	HERBICIDE	FUNGIC IDE	OTHER S		
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)****F7**

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)		
1. Beef Cattle (11+12+13+14+15) (pulu kakano)	10			
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			
2. Dairy Cattle (21+22+23+24+25) (pulu hu'akau)	20			
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			
3. Pig(31+32+33+34+35)	30			
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			
4. Horse (41+42)	40			
4.1. Male	41			
4.2. Female	42			
5. Sheep (51+52+53)	50			
5.1. Lamb ('uhiki'i sipi)	51			
5.2. Ewe (sipi sinamanu fefine)	52			
5.3 Ram (sipi tau)	53			
6. Goat (61+62)	60			
6.1. Male (kosi tangata)	61			
6.2. Female (kosi fefine)	62			
7. Chicken (71+72+73)	70			
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			
8. Duck (pato)	80			
9. Dog (91+92)	90			
9.1 Male (kuli tangata)	91			
9.2 Female (kuli fefine)	92			
10. Cat (pusi)	100			

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		Goats		Pigs	
	1. Yes	2. No	1. Yes	2. No	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	E 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 of weekly Value of Fish sold (T\$)			
					Male		Female							
Handline/shallow (<i>taumata'u mamaha</i>)	1													
Handline/deep sea (<i>taumata'u loloto</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>fangota pe tufi 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 (tuinga)
2 Plastic bags (milemila)	4 Kofukofu	6 Numbers	8 Others

H2 What was the main purpose of your household fishing activity?		<div style="border: 1px solid black; width: 40px; height: 40px; margin: 0 auto;"></div>
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 (<i>Answer 1 or 2 in the boxes</i>)								
Tunas & Pelagic	Lobster	Shellfish	Sea Cucumber	Seaweed	Ornamental coral	Reef Finfish	Sea urchin	Others

H4 What type of habitat do you usually fishing? <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <tr> <th style="width: 70%;">Habitat type</th> <th style="width: 30%;">Frequency</th> </tr> <tr> <td>Reef flat (<i>funga hakau pe 'ulu'ulu</i>)</td> <td></td> </tr> <tr> <td>Lagoon (<i>tahi namo</i>)</td> <td></td> </tr> <tr> <td>Sea grass (<i>tahi limu</i>)</td> <td></td> </tr> <tr> <td>Reef slope (<i>tu'a hakau pe tu'a 'ulu'ulu</i>)</td> <td></td> </tr> <tr> <td>Open sea (<i>tahi tu'a</i>)</td> <td></td> </tr> </table> <p>Frequency CODE</p> <p>1 Always</p> <p>2 Sometimes</p> <p>3 Never</p>	Habitat type	Frequency	Reef flat (<i>funga hakau pe 'ulu'ulu</i>)		Lagoon (<i>tahi namo</i>)		Sea grass (<i>tahi limu</i>)		Reef slope (<i>tu'a hakau pe tu'a 'ulu'ulu</i>)		Open sea (<i>tahi tu'a</i>)		H5 When do you go fishing? <div style="margin-top: 10px;"> Time CODE 1 Day 2 Night 3 Day and Night </div> <div style="margin-top: 20px;"> SEASON CODE 1 All Years 2 Summer 3 Winter </div>
Habitat type	Frequency												
Reef flat (<i>funga hakau pe 'ulu'ulu</i>)													
Lagoon (<i>tahi namo</i>)													
Sea grass (<i>tahi limu</i>)													
Reef slope (<i>tu'a hakau pe tu'a 'ulu'ulu</i>)													
Open sea (<i>tahi tu'a</i>)													

I. FORESTRY

11. What is the intended use of the trees/shrubs in this holding ?

[illegible]

Codes for Uses (Col. 4)	
-------------------------	--

- | | | | |
|---|---|----|---------------------------|
| 1 | Source of food (human/animal) and/or income | 7 | Shade/shelter/ windbreaks |
| 2 | Support for crops | 8 | Boundaries |
| 3 | Soil improvement and protection | 9 | Handicrafts |
| 4 | Timber (houses, fences, pole, etc.) | 10 | Medicinal |
| 5 | High value wood | 11 | Conservation |
| 6 | Fuel | 12 | Ornamental |

J Handicrafts

Use these CODES to answer J1,J2 and J4

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

J1. What proportion of raw materials (lou'akau & tutu) for making handicrafts did your household buy?

J2. What proportion of raw materials (lou'akau & tutu) your household usually sell? (If 1, GO to J4)

J3. Total value of raw material sold (TOP\$)?				
--	--	--	--	--

J4. What proportion of handicrafts made by your household usually sell? (If 1, GO to J6)

J5. Total of finished product sold in (TOP\$)?				
---	--	--	--	--

J6.	Is this household engaged in group production of handicraft (Toulalanga or koka'anga) in the last 12 months with the purpose of katoanga?	1 Yes	<input type="checkbox"/>
		2 No	

J6. Is this household engaged in group production of handicraft (Toulalanga or koka'anga) in the last 12 months with the purpose of katoanga?

1 Yes ☐

2 No ☐

(If 2, GO to K1)

J7. What is the estimate value of your product for the katoanga for the last twelve months?

CODES

- 1** less than \$2500 **2** \$2,501 - \$5,000 **3** \$5,001 - \$7,500 **4.** \$7,501 - \$10,000 **5** more than \$10,000

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)
CROP Equipment	10					
Tractor	11					
Tractor Implement	12					
Rotary hoe	13					
Knapsack Sprayer	14					
Mist Blower	15					
Weed Eaters	16					
Chainsaw	17					
Others (Specify)	18					
Fishing Equipment	20					
Fishing boats with in-board engine	21					
Fishing boats with out-board engine	22					
Canoe	23					
Others (Specify)	24					
Transport	30					
Van (less than 2 tonnes)	31					
Van (2 tonnes and above)	32					
Energy	40					
Electric Generator	41					
Others (Specify)	42					
Livestock Equipment	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 | 4. 51% - 75% |
| 2. 1%-25% | 5. 76% - 100% |
| 3. 26%-50% | |

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)

Num ber	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="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Second	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Third	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>