



KINGDOM OF TONGA

# AGRICULTURE CENSUS 2001

Prepared by

## MINISTRY OF AGRICULTURE AND FORESTRY

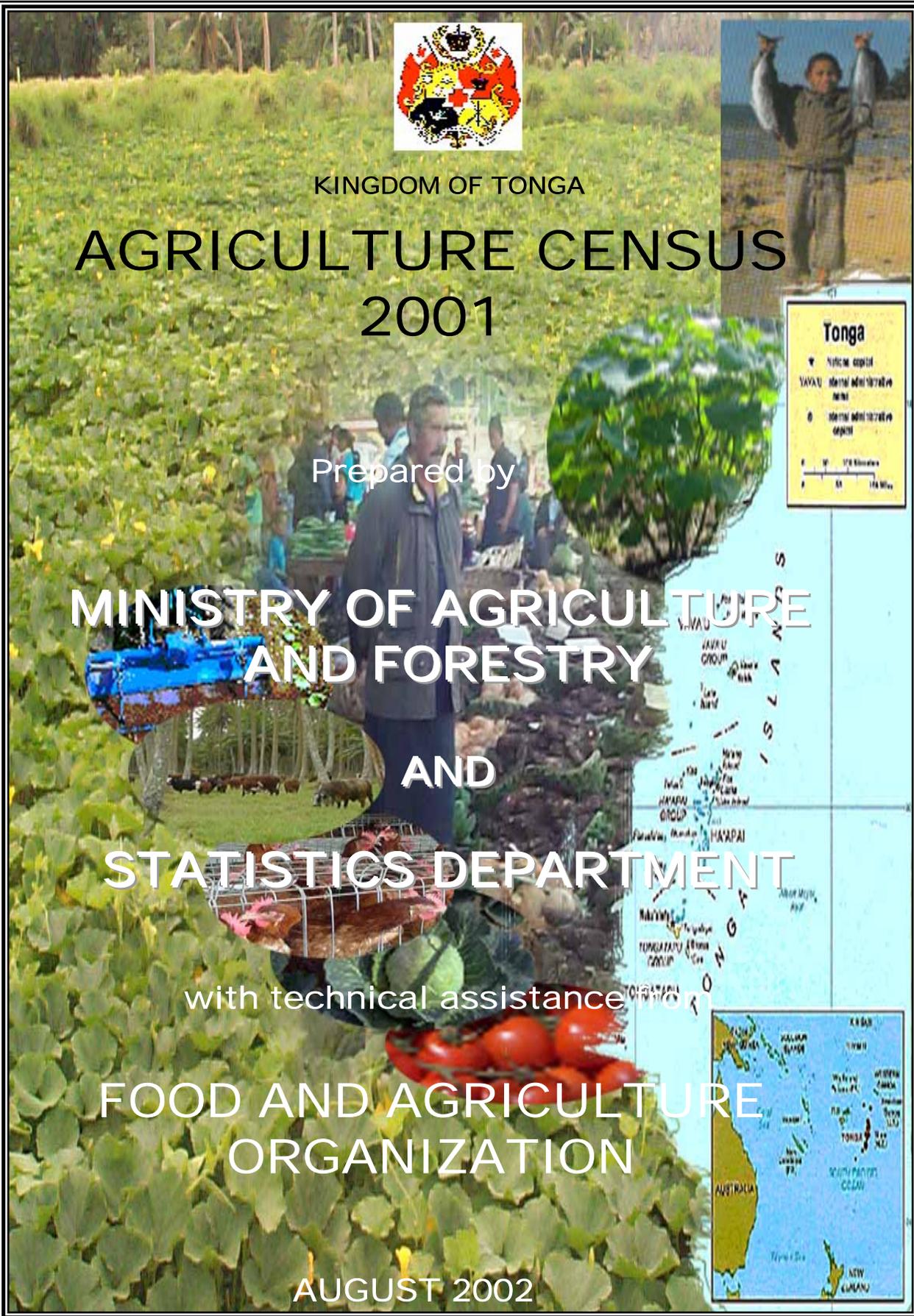
### AND

## STATISTICS DEPARTMENT

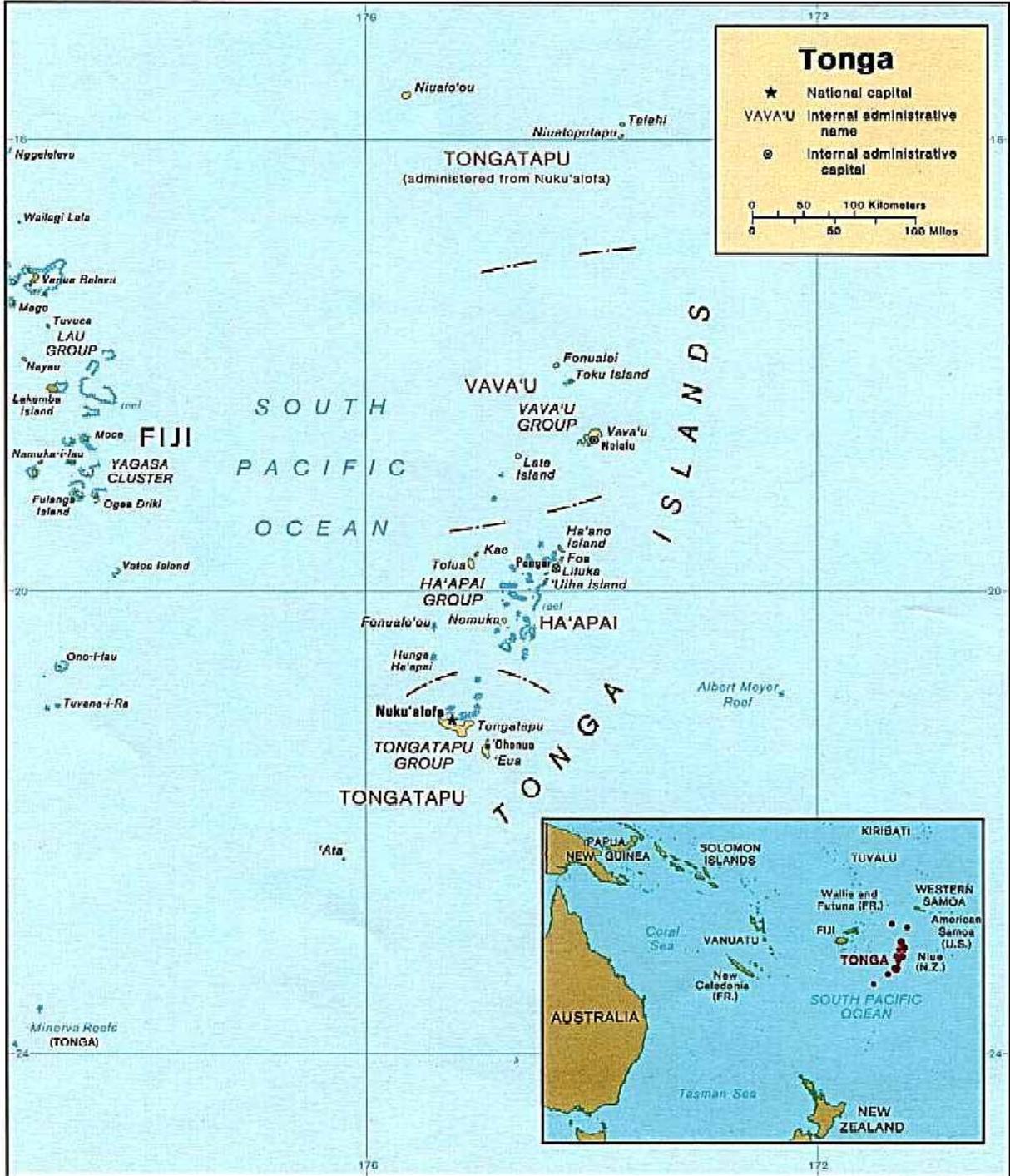
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## FOOD AND AGRICULTURE ORGANIZATION

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# THE KINGDOM OF TONGA



## PREFACE

Sixteen years have elapsed since the conduct of the last Agriculture Census in 1985. In view of the major significant changes that have occurred in the agricultural sector, the long-term validity of the 1985 agriculture census data is rendered to be out-of-date. It is the bold initiative of the Ministry of Agriculture and Forestry (MAF) to ensure that its development programmes and policies are based on more reliable and up to date agricultural statistics that recommended the conduct of Agriculture Census, 2001.

The conduct of this census would not have been possible without the generous technical and financial support of the Food and Agriculture Organization (FAO) of the United Nations under its Technical Co-operation Programme (TCP/TON/0165 A). This project was jointly implemented by the MAF and the Statistics Department with the main objective of providing comprehensive data on the structure of agriculture in Tonga for formulation, appraisal, implementation and evaluation of agricultural development programmes.

This report comprises five main chapters. Chapter 1 contains the background of the Agriculture Census 2001 and its methodologies, a review of the census scope, coverage, and the data limitation (Chapter 2). Chapter 3 outlines the definition of major concepts, and the census results and their analysis are summarized in Chapter 4. The final chapter presents the results of the Census on national and regional basis by Island Groups and Division.

This report contains the general findings, data and analyses from the implementation of Agriculture Census, 2001. I am confident that the information in this report will be invaluable not only in confirming agriculture sector benchmarks for national account purposes but also provide the most needed data for strategic planning and policy formulation for the Government and other organisations involved in agricultural development in Tonga.

A survey of this nature and scope could not have been successfully accomplished without the dedicated assistance of many individuals in Tonga. In particular, we would like to acknowledge the support and co-operation of the census support staff from the Ministry of Agriculture and Forestry, Statistics Department and Ministry of Fisheries. Special acknowledgement to the people of Tonga who responded willingly to the questions put to them, the enumerators and supervisors without whom the information could not have been collected successfully.

Malo 'Aupito,

Mr. Haniteli 'O. Fa'anunu

**DIRECTOR OF AGRICULTURE AND FORESTRY**

**and CHAIRMAN of the NATIONAL AGRICULTURE CENSUS COMMITTEE**

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Numerous people have made significant contributions that made possible the planning, implementation, analysis and documentation of Agriculture Census, 2001, without their assistance this achievement would not have been possible. Of all, we would like to give a special recognition to several key supporters.

The Prime Minister and Minister of Agriculture and Forestry, HRH Prince 'Ulukalala Lavaka Ata and the Minister of Finance, Honourable Siosua 'Utoikamanu, have accorded high priority to the implementation of Agriculture Census, 2001. The allowing of adequate funds and granting the services of their staff to help in the implementation of the census are highly acknowledged.

The technical and financial assistance of the Food and Agricultural Organization of the United Nations FAO/TON/0165 – Agriculture Census and Statistics gave, without which, the planning and execution of this census would not have been possible is gratefully acknowledged. We appreciate the services tended by Mr. David Marshall, FAO Consultant in Agricultural Statistics, Ms. Josie Perez, TCDC Expert in Agricultural Census Planning, Training and Field Operation, Mr. Gene Lorica, TCDC Expert in Census/Survey Processing.

A note of appreciation should be also expressed for the guidance and advice given by the Chairman, Mr. Haniteli Fa'anunu, and members of the National Agriculture Census Committee. The assistance by the Chairman of the Agriculture Census Working Committee, Mr. Manase Felemi, and the members in the detailed planning and implementation of agriculture census activities are sincerely appreciated.

Special thanks and appreciation are due to the Acting Government Statistician, Mrs. Seini Filiai and the staff of the Statistics Department; and to the Secretary of Fisheries, 'Akau'ola for the pervasive support, technical advice and all the assistance rendered to the project. The make available of their staff, facilities, vehicles, boats and operational fund for recruitment of enumerators have contributed to the successful and timely implementation of AC 2001.

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## TABLE OF CONTENTS

	<u>Page</u>
<b>MAP OF TONGA .....</b>	<b>i</b>
<b>PREFACE .....</b>	<b>ii</b>
<b>ACKNOWLEDGEMENT .....</b>	<b>iii</b>
<b>CHAPTER 1 : THE AGRICULTURE CENSUS 2001 AND ITS METHODOLOGIES</b>	<b>1</b>
1.1 Agriculture in the Economy .....	1
1.2 Agricultural Statistics .....	1
1.3 Agricultural Census 2001 .....	2
1.4 Objectives of the Census .....	3
1.5 Census Organization .....	3
1.6 National Agriculture Census Committee .....	4
1.7 Census Legislation .....	4
1.8 Census Methodology .....	4
1.8.1 Designing of the Census Questionnaires .....	5
1.8.2 Instruction Manuals .....	5
1.8.3 Pilot Testing .....	5
1.8.4 Printing of Census Questionnaires and Instruction Manuals .....	5
1.8.5 User-Producer Consultation Meeting .....	6
1.8.6 Publicity .....	6
1.8.7 Training .....	6
1.8.8 Enumeration Procedure .....	6
1.8.9 Post Enumeration Survey .....	7
<b>CHAPTER 2 : SCOPE, COVERAGE AND DATA LIMITATION .....</b>	<b>9</b>
2.1 Scope .....	9
2.2 Coverage .....	11
2.3 Data Limitation .....	12
<b>CHAPTER 3 : CONCEPTS AND DEFINITIONS .....</b>	<b>15</b>
<b>CHAPTER 4 : ANALYSIS OF RESULTS .....</b>	<b>21</b>
4.1 Introduction .....	21
4.2 The Households in the Kingdom of Tonga .....	21
4.3 Level of Agricultural Activities .....	22
4.4 Owned Tax Allotment .....	22
4.5 Livestock .....	24
4.5.1 Kept as of the Time of Enumeration .....	24
4.5.2 Livestock disposed .....	27
4.6 Fishing Activities .....	28
4.6.1 Main Purpose of Fishing .....	28
4.6.2 Type of Fishing Method .....	29
4.6.3 Fishing Trips .....	29
4.6.4 Persons Engaged in Fishing .....	30

4.6.5	<i>Fishing Boats</i> .....	30
4.6.6	<i>Selling Fish</i> .....	31
4.7	Agriculturally Active Households .....	31
4.7.1	<i>Population</i> .....	31
4.7.2	<i>Deriving Income from Agricultural Activities</i> .....	33
4.7.3	<i>Involvement in Handicraft Making</i> .....	34
4.8	Agricultural Holding and Parcel .....	35
4.8.1	<i>Method of Operation</i> .....	35
4.8.2	<i>Size of Parcels</i> .....	35
4.8.3	<i>Land Tenure</i> .....	36
4.8.4	<i>Main Land Use</i> .....	36
4.8.5	<i>Use of Fertilizers and Agricultural Chemicals</i> .....	37
4.8.6	<i>Equipment Used</i> .....	38
4.8.7	<i>Labour Inputs</i> .....	39
4.8.8	<i>Main Source of Loans</i> .....	39
4.8.9	<i>Agro-Forestry in the Holding</i> .....	40
4.8.10	<i>Parcel Plots</i> .....	40
4.8.11	<i>Crops and Area Planted at the Time of Enumeration</i> .....	41
4.8.12	<i>Total Area Harvested to Major Crops</i> .....	43
<b>CHAPTER 5 : STATISTICAL TABLES .....</b>		<b>47</b>

## **CHAPTER 6 : ANNEXES**

Annex 1: Copies of Questionnaires

Annex 2: Lists of the National Committee and the Working Committee

Annex 3: Lists of the Supervisors and the Enumerators

## LIST OF TABLES

Table 1 -	Number of Households, Supervisors and Enumerators by Major Island Group: 2001.....	4
Table 2 -	Number of Divisions, Districts and Villages by Major Island Group: 2001 .....	6
Table 3 -	Number of Vacant Houses during the time of the Census by Major Island Group: 2001 .....	11
Table 4 -	Reference Period for the Agriculture Census: 2001 .....	19
Table A -	Proportion of Households with Respect to the Level of Agricultural Activity to the Total Households, by Location of Households: 2001 .....	22
Table B -	Number of Households Owning Tax Allotment and Number and Area of Owned Tax Allotment, by Present Status of Tax Allotment: 2001 .....	23
Table C -	Number of Tax Allotment Reported in 1993 LUCS and AC 2001, by Location of Household: 2001 .....	24
Table D -	Number of Households Keeping Livestock and Number of Livestock Kept as of the Time of Enumeration, by Kind of Livestock, Kingdom of Tonga: 2001 .....	24
Table E -	Number of Households Keeping Cattle and Number of Cattle Kept as of the Time of Enumeration; 2001 .....	25
Table F -	Number of Households Keeping Chicken and Number of Chicken Kept as of the Time of Enumeration; 2001 .....	26
Table G -	Number and Value of Livestock Sold, by Type of Livestock: 2001 .....	28
Table H -	Proportion of Fishing Households to the Total Number of Household, by Location of Household: 2001 .....	28
Table I -	Proportion of Fishing Households Using Boats, by Location of Household: 2001 .....	30
Table J -	Percentage of Agriculturally Active Household Members 15 Years Old and Over, by Sex and Main Activity, by Location of Household: 2001 .....	32
Table K -	Percentage of Employed Agriculturally Active Household Members 15 Years Old and Over, by Major Industry and Sex, by Location of Household: 2001 .....	33
Table L -	Number of Households Engaged in Handicraft Making and Households Taking/Buying Raw Materials and Selling Handicrafts Made, by Location of Household: 2001 .....	34
Table M -	Number and Average Area of Parcels, by Size of Parcels: 2001 .....	35
Table N -	Number of Equipment Owned, by Type of Equipment and Location of Holdings: 2001 .....	38
Table O -	Number and Median Age of Persons Engaged in Agricultural Activities, by Status of Membership, Sex and by Age Group: 2001 .....	39
Table P -	Ranking of Uses of Crops/Trees/Shrubs According to Percentage of Holding, by Uses of Crops/Trees/Shrubs: 2001 .....	40
Table Q -	Average Plot Area, by Method of Sowing and by Location of the Parcel: 2001 .....	41
Table R -	Average Total Crop Area, by Crop Type and by Location of the Parcel: 2001 .....	42

## LIST OF FIGURES

Figure A.	Area of Tax Allotment Cultivated Under Crops by Owner of Household, by Location of Household: 2001 .....	23
Figure B.	Number of Households Keeping Pigs, by Size of Pig Holding: 2001 .....	25
Figure C.	Disposal of Livestock, by type of Livestock: 2001 .....	27
Figure D.	Number of Households Engaged in Fishing, by Main Purpose of Fishing, by Location of Household: 2001 .....	29
Figure E.	Number of Boats, by Major Island: 2001 .....	31
Figure F.	Employed Members of Agriculturally Active Households, by Employment of Status: 2001 .....	32
Figure G.	Percentage of Employed Agriculturally Active Household Members 15 Years Old and Over, by Major Category of Industry: 2001 .....	33
Figure H.	Number of Households Deriving Income from agriculture during the past twelve months, by proportion of Income: 2001 .....	34
Figure I.	Number and Area of Parcels, by Land Tenure: 2001 .....	36
Figure J.	Comparison of Area of Parcels, by Main Land Use: 2001 and 1985 .....	36
Figure K.	Proportion of Holdings With and Without Fertilizers, by Location of Holdings: 2001 .....	38
Figure L.	Number of Separate Plots in the Parcel, by Size of Parcel: 2001 .....	41

# CHAPTER I

## THE AGRICULTURE CENSUS 2001 AND ITS METHODOLOGIES

### 1.1 Agriculture in the Economy

The Kingdom of Tonga is an archipelago of 172 coral and volcanic islands, of which 36 are inhabited, spread over 360,000 km<sup>2</sup> of territorial seas in the South Pacific. The majority of the islands are very small in size, ranging from those of only a few hectares to Tongatapu, the largest island, with an area of 265 km<sup>2</sup>. The total land area is 747 km<sup>2</sup> aggregated into the four major groups of Tongatapu and 'Eua (370 km<sup>2</sup>), Ha'apai (119 km<sup>2</sup>), Vava'u (143 km<sup>2</sup>) and the two Niuas (71 km<sup>2</sup>). The largest of these is Tongatapu on which is located Nuku'alofa, the capital, where about 68 percent of the total population live.

Agriculture is the major economic activity in Tonga and it has remained the principal sector ever since, particularly its significant contributions to the local economy as a major source of food, cash income, employment, GDP and foreign exchange. Agriculture activity consists principally of growing crops for local consumption and also for exports. Most households derive a major part of their basic requirements from the cultivation and utilisation of land resources. As a source of foreign exchange through exports, agriculture is by far the most important sector and accounts for a significant proportion of export earnings. Squash, kava and vanilla are still the country's principal export commodities while watermelon, coconuts, and root crops are gaining importance.

### 1.2 Agricultural Statistics

Although agriculture is one of the sources of the economy of the Kingdom of Tonga, the data base in this sector is very weak. There is a limited established system for a regular flow of agricultural statistics. Some surveys were undertaken in the past to serve specific purposes but these were just "one-shot" surveys. These did not add so much to the improvement of agriculture database in the island. Some of the important surveys in the agricultural sector undertaken in the past before and after the Agricultural Census 1985 were:

1. Surveys of Household Consumption and Production of Crops, Livestock and Fish in the Kingdom of Tonga in 1970 and 1980
2. Survey of Coconut Palms in 1979
3. Coconut Age Distribution and Productivity Survey in 1980
4. Agricultural Inputs Survey in 1982/83
5. Land Utilization Survey in Tongatapu in 1982
6. Animal Health Survey in the Kingdom of Tonga in 1994
7. The 1991-1992 Annual Crops Survey
8. Land Use and Crop Survey in 1993
9. Inventory of Coconut Palm Resources in 1996

Statistics of farm households, land utilization, type of farming, cropping patterns, farming practices, livestock numbers and products, poultry, general economic characteristics of farm households, etc, are the pre-requisites for agricultural planning. Most of these are to be taken in an agriculture census. However, the last agriculture census was conducted sixteen years ago. Hence, this census data is already outdated and could no longer give reliable information for the researchers and policymakers.

### 1.3 Agricultural Census 2001

Like the AC 1985 that was carried out in Tonga, the Government of Tonga through the Ministry of Agriculture and Forestry submitted a proposal to the Food and Agriculture Organization (FAO) of the United Nations requesting technical and financial assistance. The FAO Senior Officer visited Tonga in June 2001 and discussed with the members of the National Agricultural Census Committee the preparation and the institutional arrangement for project implementation. This project proposal was approved by FAO under the Technical Cooperation Programme (TCP/TON/0165) in July 2001 and project implementation started in September 2001.

Under this TCP, the FAO provided the services of the TCDC Experts on Agriculture Census and on Data Processing in three separate missions and Advisory Technical Services for two weeks for establishing agriculture statistics system. It also provided one field visit undertaken by the FAO Senior Officer from the headquarters in Rome for project backstopping and technical support. In terms of financial support, FAO contributed a total amount of US\$161,000, 53% of which was used for different expenses needed for the census taking including the procurement of equipment and supplies. The remaining contribution was given in terms of technical assistance and services of the different experts assisting in the census project.

The work of the TCDC Expert on Agriculture Census was divided into three phases or missions. The main task of the expert was to assist the MAF and SD to plan, design and conduct the AC 2001. The terms of reference of the expert for this census were as follows:

1. *assist in the census planning and participate in the users-producers workshop;*
2. *advise on the census methodology including scope and coverage;*
3. *assist with the finalization of the census work plan;*
4. *advise on the design and preparation of the census instruments;*
5. *prepare a pre-test and pilot survey programme and organize and monitor these activities;*
6. *advise on the data dissemination plan;*
7. *advise on the census training programme and training materials for supervisors and enumerators;*
8. *advise on the quality control procedures to ensure quality of field work;*
9. *assist in the training of trainers and monitor the training of enumerators;*
10. *assist in the preparations of the census field work;*
11. *review the census field work and advise on the corrective actions necessary to ensure high quality of the data;*
12. *prepare checking, editing and coding instructions for the manual processing of the census questionnaires;*
13. *train staff on the manual editing of the census questionnaires;*
14. *prepare the preliminary results of the census based on manual tabulations;*
15. *design the Post Enumeration Survey (PES), based on the objective measurement techniques, to assess the quality of the data;*
16. *train staff in the conduct of the PES;*
17. *review the census coverage and results of the PES;*
18. *advise on ways to improve the quality of the census data;*
19. *assist in the review of the census tables and consistency checks;*
20. *advise on the content and format of the census publications;*
21. *assist in the planning of the data dissemination seminar; and*
22. *prepare the draft of the Terminal Statement of the project.*

The TCDC Expert on Data Processing, on the other hand, was assigned to assist in the design of the data processing system for processing the agricultural census data. The assistance was

provided in four separate missions to a total of 4 man-months. The terms of reference of the expert included the following:

1. *review the data processing capacity of the MAF, identifying gaps and weaknesses in equipment, resources and skills for processing agricultural survey data and make proposals to strengthen the current capacity;*
2. *advise on the development of a micro-computer based computer system for the processing of the survey and other data associated with the agricultural statistics system, taking into account the resources available and the need for the sustainability of the system;*
3. *provide inputs to the design of the questionnaire(s) and tabulation plan;*
4. *advise on the data entry, editing and tabulation programmes for processing the survey data using the standard software packages;*
5. *provide training to the national counterpart and other national staff working on the project in all aspects of data processing;*
6. *finalize the data processing system and test it using the data from the pilot survey;*
7. *oversee the start of the census data processing;*
8. *advise on the design of a simple database system to ensure key data are available in a timely manner and in a "user-friendly" format;*
9. *assist with the preparation of the final tables from the survey and the coverage analysis;*
10. *load the database with the census data and ensure key staff are trained in storage and retrieval system techniques; and*
11. *prepare a contribution to the draft Terminal Statement covering the census data processing activities.*

In addition to this, the FAO provided assistance for two officials of the Government of Tonga, one from the MAF and the other from SD, to go to Apia, Samoa for about 2 weeks to study the agriculture census methodologies used in this country. The study tour provided a good insight into census taking techniques.

Part of the assistance extended by the FAO was for the procurement of equipment needed to undertake the census and the PES. This covered the provision of five micro-computers in which one of these was used as the server, compasses, measuring tapes, programmable pocket calculators and laser printers. The project was able to purchase softwares, one Microsoft Office XP and one MapInfo Professional

#### **1.4 Objectives of the Census**

The undertaking of the AC 2001 was envisioned to:

1. provide benchmark or basic data on the structure of agricultural holdings and their main characteristics;
2. use this information to develop a regular system of agricultural statistics;
3. build up some important village and regional level statistics;
4. establish a technical and organizational foundation on which to build up a comprehensive and integrated system of food and agricultural statistics; and
5. provide a frame from which samples can be drawn to study certain aspects of agricultural activities in greater depth.

#### **1.5 Census Organization**

The Ministry of Agriculture and Forestry (MAF) was entrusted with the responsibility to lead the implementation of the agricultural census project through the assistance of the Statistics Department (SD). The Head of the Policy and Planning Section of MAF Corporate Services Division was tapped as the National Project Coordinator of the AC 2001. Assisting him was the Principal Statistician of the SD. The headquarter of the AC 2001 was placed in one of the

rooms of the SD. The other staff assisting in the implementation of the census project was taken from the staff of MAF, SD and Ministry of Fisheries.

The project envisaged the appointment of a field staff of 80 enumerators and 26 supervisors. The distribution of staff by major island groups was as follows:

<b>Division</b>	<b>Number of Households</b>	<b>Enumerators</b>	<b>Supervisors</b>
Tongatapu	10,583	35	9
Vava'u	2,625	15	5
Ha'apai	1,298	12	4
'Eua	863	8	3
Niuas	369	10	4

## **1.6 National Agriculture Census Committee**

The National Agriculture Census Committees (NACC) was constituted with the approval of the Cabinet. The composition and terms of reference of the NACC were as follows:

### **Composition**

1. Director Ministry of Agriculture and Forestry (*Chairman*)
2. Government Statistician (*Vice Chairman*)
3. Secretary for Finance
4. Directory Central Planning Department
5. Secretary of Lands, Survey and Natural Resources
6. Secretary of Ministry of Fisheries
7. National Project Co-ordinator (*Secretary*)

### **Terms of Reference**

1. To review periodically the progress of the census operation
2. To examine the items to be included in the census questionnaire and to make sure that the census meets the specified data requirements
3. To guide and steer the census operation to achieve its objectives.

## **1.7 Census Legislation**

No separate legislation was considered necessary for the purpose of the collection of the data as the existing Statistics Act 1978 was found to be adequate. The census data was therefore collected under Section 8 of this Act. Under this Act all the persons in the Kingdom were required to answer all the questions asked by the enumerator for the purpose of the census enumeration. It also required all census officers to carry out their duties to the best of their abilities as directed by the Census Authority and to maintain strict confidentiality of all information they obtained in the course of their work as census officers.

## **1.8 Census Methodology**

The Government of Tonga expressed the urgent need to conduct a second national agricultural census to determine the significant change in the structure of the Tongan agricultural sector and its contribution to the economy. Hence, it sought the assistance of the FAO for technical and additional financial assistance. For its counterpart, Tongan Government provided or allocated some budget to defray the cost of enumeration and an "in kind" allocation covering the salaries of the involved staff of SD and MAF.

### **1.8.1 Designing of the Census Questionnaires**

Considerable time was spent in designing the census questionnaires. The census questionnaires were in three forms, namely, AC Form 1 – Household Questionnaire, AC Form 2 – Holding Questionnaire and AC Form 3 – Parcel Questionnaire. The draft questionnaires were presented first to the Working Committee then to the User–Producer Consultation Meeting which was held on September 24, 2001. Afterwards these were tested in the field from August 27-31, 2001. From the results of the field test, the census questionnaires were finalized for printing.

### **1.8.2 Instruction Manuals**

Two instruction manuals, one for the enumerators and another for the supervisors, were written. The instructional manual for the enumerators covered the following items:

1. General information about the agricultural census including its objectives;
2. Duties and responsibilities of the enumerators
3. Block area maps and household lists – how and what to do
4. Instructions in for filling in the census questionnaires
5. Concepts and definitions
6. How to fill in AC Form 4 – Summary of Selected Data Items
7. Geographic and crop codes
8. Average number of plants and average yield per acre, by type of crops

The instructional manual for the supervisors dealt with the following items.

1. General information about the agricultural census including its objectives;
2. General responsibilities of the census supervisors
3. Selection, recruitment and training of enumerators
4. Commencement of fieldwork
5. Work schedule for enumerator
6. Field supervision, checking and editing
7. Other duties and instructions

### **1.8.3 Pilot Testing**

The census questionnaires were tested in Puke and Hofoa for two days. The main purpose of the test was to improve the census questionnaires and instructions and to determine the problems that might be encountered during the actual data collection. The field work was extremely useful as it helped enumerators to clarify all doubts and problems regarding completion of the questionnaires before they started the actual census enumeration. The pilot census also demonstrated that the holders can be interviewed also in the site of the holding and that they were able to report the total area of each parcel but not the exact area of the plots occupied by individual crops because of the widely prevalent practice of mixed cropping. The results of the pilot census were also used as inputs to the data processing being prepared for the project.

### **1.8.4 Printing of Census Questionnaires and Instruction Manuals**

The SD and MAF jointly printed the census questionnaires and manuals. The SD asked the government printer for the timely completion of some census questionnaires while the MAF utilized their facilities in printing the other questionnaires and manuals. All census materials were ready for the training programme which commenced on 18 September 2001.

### **1.8.5 User-Producer Consultation Meeting**

The meeting was held in the Statistics Department on September 24, 2001. It was attended by different users from the government as well as private sectors. Brief explanation about the AC 2001, its importance and its contents or the data items included in it were presented to the data users. An open forum/discussion followed the presentation to get the reactions, comments and suggestions of the participants. The response of the participants was positive since they really need updated and reliable statistics on agriculture.

### **1.8.6 Publicity**

Adequate publicity was given to the census programme through consultation meeting (*fono*), radio, newspaper and poster placed in each village of the island. The district and town officers were informed through a *fono* to inform them about the census undertaking and its importance to the agricultural activities in their villages. They were asked to talk to the farmers about the census programme and also to actively assist the enumerators during the census taking.

### **1.8.7 Training**

Training was an important element in the census programme. The training programme for the AC 2001 was done in two levels. The first level was conducted on September 18-20, 2001, attended by the census supervisors, with the National Project Coordinator and the TCDC Expert acting as the main lecturers. The second level was undertaken solely for the census enumerators from September 21, 2001 to October 2, 2001. Selected census supervisors were tapped to be the main lecturers for the second level training. In both levels of training, classroom lectures and actual visit to the holding, parcel and plot were done.

### **1.8.8 Enumeration Procedure**

For the purpose of the AC 2001, the Kingdom was divided into 5 divisions, 23 districts and 169 villages as provided in the population census. The breakdown by division is shown in the following page.

<b>Division</b>	<b>Number of Districts and Villages</b>
<b>Tonga</b>	<b>23 districts and 169 villages</b>
Tongatapu	7 districts and 70 villages
Vava'u	6 districts and 43 villages
Ha'apai	6 districts and 29 villages
'Eua	2 districts and 15 villages
Niua's	2 districts and 12 villages

The village was composed of enumeration blocks. The census enumeration started almost at the same time in all islands. If there were some delays it may be at most one week only. The enumeration commenced on 3<sup>rd</sup> October 2001 and finished in the second week of December 2001.

Each enumerator was assigned to handle at least one block and was provided with the updated household list from SD, map, coding sheet, census questionnaires, instruction manual, summary form and other control form. The enumerator was asked to complete the work in his/her assigned block(s) and was encouraged to give their best effort in undertaking the interview of the respondents.

Each census supervisor was assigned to handle several enumerators. He/she was tasked to guide the enumerators during the first week of the census taking and a follow-up supervision

was also required from him/her. Then he/she was also expected to do some field checking/editing to facilitate the data processing in the headquarter of the AC 2001.

### ***1.8.9 Post Enumeration Survey***

One of the most important elements of the census project was the post enumeration survey. The Post Enumeration Survey (PES) is a common practice of evaluating the accuracy of the data collected in a census. The PES of AC 2001 was done on sample basis and conducted just right after the census undertaking.

Some selected staff of the SD and MF was trained in the measurement of areas through the use of compasses, measuring tapes and programmable calculators. The training was conducted in the third week of February and the field operation was done in March 2002.



# CHAPTER II

## SCOPE, COVERAGE AND DATA LIMITATION

### 2.1 Scope

In keeping with the census objectives mentioned in Chapter 1, the following data items were included in the Agriculture Census 2001.

#### ***For the Household Questionnaire -***

1. Level of Agricultural Activity
  - Non-agricultural
  - Minor agricultural
  - Subsistence only
  - Subsistence with occasional selling
  - Commercial crop producer
2. Ownership of Tax Allotment (*'Api Tukupau*)
  - Name of Owner(s)
  - Area
  - Present Status
  - Land Location
3. Agricultural Holdings and Method of Operation
  - Name of Operator(s)
  - Method of Operation
  - Holding Area
  - Number of Separate Parcels
  - Location of Holding
4. Crops and Trees Grown by Minor Agricultural Household Only
  - Crops/Trees Currently Growing/Still Growing
    - Name of Crops/Trees
    - Area
    - Number of Plants
  - Crops/Trees Planted and Harvested During the Last 12 Months
    - Name of Crops/Trees
    - Area
    - Number of Plants
5. Household Membership and Economic Characteristics
  - Name
  - Sex
  - Age
  - Main Activity
  - Employment Status
  - Occupation
  - Industry

6. Livestock Including Dogs
  - Number Kept as of the day of visit to the household
  - Number Disposed during the past twelve months prior to census enumeration
7. Fisheries
  - Main Purpose of Fishing Activity
  - Type of Fishing Method
  - Number of Trips during the past week
  - Number of Persons Engaged
  - Use of Boats whether Owned/Hired/Borrowed
  - Number of Boats Owned
  - Proportion of Fish/Other Sea Products Sold
  - Means of Disposal/Selling Fish/Other Sea Products

***For the Holding Questionnaire -***

1. Parcel Details
  - Location of Parcel
  - Total Parcel Area
  - Land Tenure
  - Main Land Use
  - Length of Use/Fallow
2. Agricultural Income and Loan
  - Proportion of Household Income Derived from Agricultural Activities
  - Availment of Loan for Agricultural Activities
  - Main Source of Loan(s)
3. Labour Inputs
  - Membership Status
  - Sex
  - Age
  - Type of Labor
  - Hours Worked in the Holding last week
  - Wages per Month if paid worker
  - Other Benefits Received if paid worker
  - Industry for Other Occupation
  - Status of Other Occupation
  - Number and Sex of Hired Laborers
  - Average Number of Days Worked of Hired Laborers (male and female)
  - Average Hours Worked/Day of Hired Laborers (male and female)
4. Use of Fertilizers and Agricultural Chemicals
  - Use of inorganic fertilizers
  - Use of organic fertilizers
  - Use of agricultural chemicals
    - Name of Crop
    - Chemical Used
5. Equipment Used
  - Type of Equipment used
  - Number Owned
  - Whether Hired/Borrowed

6. Agro-Forestry on the Holding
  - Name of Trees/Shrubs
  - Uses of Trees/Shrubs
7. Handicraft Making
  - Household Members Engaged
  - Proportion of Raw Materials Taken from the Holding
  - Proportion of Raw Materials Bought
  - Proportion of Raw Materials Sold

***For the Parcel Questionnaire -***

1. Number of Separate Parcels
2. Plot Details
  - Area of Plot
  - Crops Grown
  - Method of Sowing
  - Proportion of Mixed Crops
  - Number of Plants in Scattered Planting
3. Scattered/Boundary Crops/Trees Growing on this Parcel
  - Name of Scattered Crops/Trees
  - Number of Crops/Trees
  - Name of Boundary Crops/Trees
  - Number of Crops/Trees
4. Crops Planted and Already Harvested on this Parcel
  - Name of Crops/Trees Planted and Already Harvested
  - Area Harvested
  - Number of Plants if no area
  - Proportion Sold

## **2.2 Coverage**

The AC 2001 was conducted at the household level and a complete enumeration of all households residing in Tonga during the period of the census enumeration. However, households that left for abroad and came back after the period of the census taking and those that were permanently living in other countries were no longer included. The table below shows that there were 2,410 vacant houses during the time of the census. Hence, the households living/staying in these houses were not included in AC 2001.

Division	No. of HHs in 1996 CP	Number of Households in AC 2001		
		Total	HHs Enumerated	Vacant Houses
<b>TONGA</b>	<b>16,194</b>	<b>18,209</b>	<b>15,797</b>	<b>2,410</b>
Tongatapu	10,796	12,038	10,610	1,428
Vava'u	2,728	3,158	2,667	489
Ha'apai	1,469	1,628	1,296	332
'Eua	820	947	854	93
Niuas	381	438	370	68

Twenty-nine (29) institutions were also enumerated to find out their involvement in any agricultural activities. Thus, a complete count of agricultural holders and holdings were determined.

### **2.3 Data Limitation**

The AC 2001, as stated in one of its objectives, provides basic information on the structure of agricultural holdings in the Kingdom and its characteristics that do not change over a certain period of time. Like any other census and surveys, it has limitations which are enumerated in the following:

1. No data on crop production was included in this census since this information would be better asked in a follow up survey specifically designed for major crops.
2. The level of agricultural activity of a household was determined only through its involvement in the cultivation/growing of crops and size of its agricultural land which should be more than 1/8 of an acre. A household having only livestock or poultry was not considered to have an agricultural holding for this census.
3. The size of the agricultural holding, to be considered as an agricultural holder, was more than 1/8 of an acre.
4. The economic characteristics of the household members were asked for member 15 years old and over as recommended and being done internationally and in other local surveys.
5. Apart from Livestock animals, only information on dogs was included in the Livestock Section of this census. Other domesticated animals such as cats and birds like parrots were excluded.
6. Fisheries Section was asked for only few data items such as main purpose of fishing, type of fishing method engaged in, use of fishing boats and proportion of fish/other sea products sold.
7. The holding and parcels included only those agricultural lands cultivated by the holder whether owned or leased from other households. On the other hand, all lands owned by the holder but rented out to other households whether for a fee or for free were excluded in the Holding Questionnaire and Parcel Questionnaire.
8. Sections on Agricultural Income and Loan, Agro-Forestry on the Holding and Handicraft Making were asked only for agriculturally active households. The non-agricultural and minor agricultural households did not have such information.
9. Questions on the use of fertilizers were answerable only by "Yes" or "No" and questions on agricultural chemicals were the name of chemical and crops it was used on. Quantities on these agricultural inputs were not taken for it is best to include these items in a follow-up survey.
10. Small implements such as knife, spade and other gardening tools were not included in this census since it is assumed that almost all agriculturally active households owned and used such small tools.
11. The section on Agro-forestry was limited to the name of the trees/shrubs and its uses, not on the number of trees for this would create problems on data processing.

Hence, a follow-up survey using this information as a frame can be done to get additional information on agro-forestry.

12. The section on Crops Planted and Already Harvested of the Parcel Questionnaire was supposed to be answered by all agricultural holders who answered the section on Parcel Details of the Holding Questionnaire. However, due to memory recall of the respondents, information on this section might have been under reported.
13. The quality of the data collected can be affected by many factors. For example, the complete enumeration and coverage limits the completeness of data, the concepts and interpretation of questionnaires may not be fully understood by enumerators, inadequate supervision and others.



# CHAPTER III

## CONCEPTS AND DEFINITIONS

For the success of the AC 2001, the following terms and concepts were defined in the instruction manual for the use and familiarity of the supervisors and enumerators.

**Agricultural Census** : An agricultural census is a large scale, periodic government sponsored operation for the collection and derivation of quantitative information about the nation's agriculture, using the agricultural holding as the statistical unit.

**Household** : The concept of a household is based on the arrangements made by persons, individually or in groups, for providing themselves with food or other essentials for living. A household may be either:

- (a) a one-person household, that is, a person who makes provision for his or her own food or other essentials for living without combining with any other person to form part of a multi-person household; or
- (b) a multi-person household, that is, a group of two or more persons living together who make common provision for food or other essentials for living. They may be related or unrelated persons or a combination of both. They may live in one house or in more than one house.

**Institution** : An institution is an organization providing a specified service or performing some general public function -for a group of individuals such as a prison, hospital, hotel, boarding school, etc. Institutions will be covered separately.

**Head of Household** : The head of the household is a person who has the chief responsibility for the maintenance of the household. Thus the head need not necessarily be the eldest male member, but may be even a female or a younger member of either sex. In case of collective or institutional households like hotels and prison, the manager or superintendent or the person who has the administrative responsibility was recorded as the head of household.

**Level of Agricultural Activity** : The level of agricultural activity of a household is categorized as follows:

1. Non-Agricultural - the household does not engage in any crop production (such households may own or look after land not in use and also own or look after livestock).
2. Minor Agricultural Activity - the household has only very few crops planted/grown in 1/8 of acres of land or less or less than 10 coconut trees or less than the combined number of other tree crops.
3. Subsistence Only - The household produces crops but does not sell for any significant amount.
4. Subsistence/Cash - The household's main purpose of agricultural production is for home consumption only but occasionally sells some surplus crops.

5. Commercial Crop Producer - The main purpose of the holder for producing crops is to sell these either locally or for export.

**Agricultural Holding** : An agricultural holding is an economic unit of agricultural production under single management comprising all livestock kept and all land used wholly or partly for agricultural production purposes, without regard to title, legal form, or size. Single management may be exercised by an individual or household, jointly by two or more individuals or households, by a clan or tribe or by a juridical person such as a corporation, cooperative or government agency. The holding's land may consist of one or more parcels, located in one or more separate areas or in one or more block areas, providing the parcels share the same production means utilized by the holding, such as labour, farm buildings or machinery.

**Holding Parcel** : A holding parcel is any piece of land entirely surrounded by other land, water, road, forest, etc. not forming part of this holding. A parcel may consist of one or more plots adjacent to each other.

**Parcel Plot** : A parcel plot is a part or whole of a parcel on which a specific crop or crop mixture is cultivated. A plot can also be fallow land or land ready for planting.

**Total Area of the Holding** : The total area of the holding is the combined area of all its parcels including the area owned and operated by the owner, rented from others for operation and operated under other forms of land tenure. It excluded the area owned but rented to others.

**Agricultural Operator or Holder** : An agricultural operator or a holder is a person exercising management control over the operation of the agricultural holding. Where the holding is being operated by a single household the head of the household is in most cases the operator. A holding can have more than one operator

**Method of Operation** : The method of operation or operational status of the holding' is categorized into four as follows:

1. Operated by individual household on own account – if the household/holder bears by himself the full economic responsibility and does not share this with anybody else and is not answerable to any other person or institution, then he is operating on his own account. He may or may not employ labour and/or have family members to help him.
2. Operated for an institution – in this case the holder manages the operation on behalf of an institution, such as a church or a private company or government or semi-government organization.
3. Operated for a private person – here a holder manages the operation of the holding for an individual and not for an institution. Holders managing land on behalf of owners living in the same place or a different place is under this category.
4. Operated by partnership – if the holding is operated by more than one person belonging to more than one household and they jointly share the economic responsibility, the holding is considered as a joint holding and the status of the operation is partnership.

**Weaners** : Weaners are weaned (separated from sow) piglets starting from the stage where they are considered to be ideal for consumption. Their live weight category would be 0-24 kg

**Fatteners** : Fatteners ("middle ages") have live weight ranging from 25-40 kg.

**Sows :** Sows are adult female pigs, which are over 40 kilograms.

**Boars :** Boars are adult male pigs, which are also over 40 kilograms.

**Spear Fishing :** Spear fishing is a traditional fishing method using javelin-like wooden spear or the metal or rubber spear and is being done along the shore or in the surf. Examples of this are the pata spearing, throw spearing, spear guns, etc.

**Collecting/Gleaning seashells and sea products :** is gathering of seafood like clams, sea urchins, sea cucumbers, turban snails, oyster meat, octopus, crabs, etc., through the use of limited equipment and specialized gear. It is usually being done during low tide.

**Tenure of the Parcel:** This concerns the arrangements or rights under which the operated land of the holding is held or used. A holding may be operated under a single form of tenure or under more than one form. The land tenure may be

1. Legal owned means that the owner possesses the title of ownership and consequently has the right to determine the nature and extent of use of the land.
2. Formal leased is any land leased with a written contract by which one party (lessor), usually in consideration of rent, conveys land to another (lessee) for a specified time period.
3. Rented (payment in cash or in kind) includes all parcels of the holding, which are rented or leased in by the operator informally from other persons, usually for a limited period of time. The rental arrangement may take different forms like:
  - a) land rented in for an agreed amount of money and/or produce
  - b) land rented for a share of produce
  - c) land rented in exchange for services
  - d) land operated under other rental agreement (including land operated gratuitously)
4. Used with permission of owner (free) includes all parcels of the holding which were used and rented for free by the operator.
5. Other land tenure that may be different from the above four categories.

**Main Land Use :** The main land use provides a classification of the holding according to the activity which is directly related to the land or holding, makes use of its resources or has an impact upon it. The main land use of the parcel may be any of the following categories:

1. Land under annual crops. Crops include field crops like cassava, yam, taro, pineapple and vegetables like squash, eggplant, capsicum, cabbage, tomato, etc., usually have an economic life of less than a year and usually planted once or more than once a year.
2. Land under perennial crops. The tree crops are those bearing edible fruits or nuts which usually have an economic life of more than five years. These include vanilla, kava, mango, coconut, citrus, breadfruit, etc.
3. Land under mixed crops. Land that has been planted to a combination of annual crops and perennial crops is classified as land under mixed crops.

4. Land under preparation for planting. These are cultivated lands that are about to be planted with crops.
5. Land under fallow. Fallow land is a land that was used for growing crops sometime in the past but currently not used for any agricultural activities or currently lying idle. This is only left idle for 5 years or less.
6. Land under bush/forest growth. Land, which is left uncultivated for more than 5 years and covered with bush/forest growth, is classified as land under this category.
7. Land under livestock. This land is used for raising livestock like cattle, goats, pigs, chickens, etc.
8. Land under non-agricultural uses. This is the land that is used for the house of the operator or for buildings, warehouses and other uses apart for agriculture purpose.

**Inorganic fertilizers** : are manufactured mineral substances applied to soil, or irrigation water, to supply plants with the necessary nutrients.

**Organic fertilizers** : are materials of organic origin, either natural or processed, that can be used as sources of plant nutrients. The most commonly used are compost, chicken manure or other animal manure, etc.

**Agricultural chemicals** : are used for controlling or eliminating pests that destroy crops or livestock. These may be any of the following:

1. Insecticides such as Actellic Dust, Attack, Banana Dip, Baygon, Conqueror Oil, DC-Tron, Delfin, Icon, Malathion, Orthene, and Vydate
2. Herbicides such as Butoxone, Escort, Fusilade, Grazon, Gramoxone, Roundup and Sting
3. Other Pesticides include Fungicides such as Banana Misting Oil, Benlate, Cusol, Formalin, Foschek, Manzate, Punch and Tilt; and Molluscicide such as Slug and Snail Bait, Rodenticides such as Storm and Talon, Plant Growth Regulators such as Ethrel and Seradix and Sticker such as Agral.

**Single crop** pattern refers to “one crop” which has been planted in a regular pattern such as rows. If there are few other trees/plants of different crops in scattered plantings over the plot, the plot is still considered to be single cropped.

**Mixed crop** pattern refers to two or more crops, which are interplanted in a regular pattern such as rows. Sometimes there are few scattered plantings of other crops but not considered to be as part of the mixed crops.

**Scattered crop** pattern refers to crops/trees, which have not been planted in any regular pattern such as rows or some uniform method of spacing. Scattered plants can be found among plants of a regularly planted plot.

**Reference Periods:** The general reference period for the Agriculture Census 2001 is the last twelve months before the census enumeration, i.e. October 2001 to September 2002. In answering the several questions in the schedules the following reference periods should be adhered to:

ITEMS	REFERENCE PERIOD/DATE
Level of Agricultural Activity	General Reference Period
Ownership of Api Tukahau	Date of Enumeration/Time of Visit
Agricultural Holdings and Method of Operation	General Reference Period
Crops and Trees Grown by Minor Agricultural Household	Date of Enumeration/Time of Visit/ General Reference Period
Household Membership and Economic Characteristics	Date of Enumeration/Time of Visit/Past Week
Livestock and Poultry	Date of Enumeration/Time of Visit
Fisheries	General Reference Period
Parcel Details	General Reference Period
Agricultural Income and Loan	General Reference Period/ Last 5 Years
Labour Inputs	Past Month Prior to Census Enumeration
Use of Fertilizers and Agricultural Chemicals	General Reference Period
Equipment Used	General Reference Period
Agro-Forestry on the Holding	Date of Enumeration/Time of Visit
Handicraft Making	General Reference Period
Plot Details	General Reference Period
Scattered/Boundary Crops/Trees Growing on the Parcel	Date of Enumeration/Time of Visit
Crops Planted and Already Harvested	General Reference Period
Period of Census Enumeration	October 3 – December 15, 2001



# CHAPTER IV

## ANALYSIS OF RESULTS

### 4.1 Introduction

This chapter includes the simple analysis and illustration of the main results of the Agriculture Census 2001. Like any statistical data collection, some limitations exist in the data set. These limitations are explained in Chapter II – Scope and Coverage. A careful study of the analysis and detailed tables presented herein is strongly recommended in order to avoid misinterpretation of the results.

The analysis of the census data contained in this report is limited to the information collected using AC Form 1 – Household Questionnaire, AC Form 2 – Holding Questionnaire and AC Form 3 – Parcel Form. The Household Questionnaire contains information about the characteristics of all households in the Kingdom of Tonga. The Holding Form provides information on the characteristics of all holdings existing during the enumeration reference period in the island. The Parcel Questionnaire has the detailed data for each parcel of the holding regarding on crops planted at the time of enumeration and the crops already harvested during the last twelve months prior to the census taking.

The detailed tables presented in this report are the results of computer processing and tabulation. There are more than 100 statistical tables generated to display the AC 2001 results. However, only selected tables are included in this report and the other tables will be placed in compact disk that can be availed by all data users. Summary tables taken from the main statistical tables and graphs are placed within the textual analysis. For clarification of most of the percentages and proportions mentioned and presented in the analysis, the users of this published report are advised to refer to the main statistical tables in Chapter V.

The analysis carried out in this report is only at the main island level; however, the statistical tables are presented at the district level. These tables showing the characteristics of the households were generated using the location of households while the tables for the holding and parcel characteristics were tabulated by location of the holding and parcel, respectively.

The statistical tables included in this report are only intended to portray the main findings of the AC 2001 results. The interpretation prepared for these tables are not in-depth analysis and not for policy issues. It is expected that further in-depth analysis will be done by all data users of the AC 2001 results. It is expected also that these census results will be used for the establishment or improvement of policies towards agriculture and fisheries in the Kingdom of Tonga

### 4.2 The Households in the Kingdom of Tonga

At the time of visit of the enumerators to the households from October 3, 2001 until the second week of December 2001, 15,738 households were recorded (see Table 1.1 in Chapter V) residing in the Kingdom of Tonga. These households were located in the main five islands, namely, Tongatapu (10,583 households or 67.2%), Vava'u (2,625 households or 16.7%), Ha'apai (1,298 households or 8.2%), 'Eua (863 households or 5.5%) and Niuas (369 households or 2.3%).

### 4.3 Level of Agricultural Activities

Of these total households, 64.2% were engaged in any agricultural activities either for home consumption or for sale. These were considered to be agriculturally active households for the purpose of the AC 2001. At the same time, some 839 households (5.3%) were reported growing crops/trees/shrubs in less than one-eighth of an acre or cultivating less than 10 crops/trees/ shrubs. These were called to be minor agricultural households.

On the other hand, about 30.4% or 4,797 households were found to be not growing or not cultivating any crops/trees/shrubs. These were identified to be non-agricultural households.

Summary Table A shows that Tongatapu had the biggest proportion of non-agricultural households and minor agricultural households and lowest proportion of agriculturally active households among the main islands. This is the largest and main island of the Kingdom where the seat of the government and where more economic opportunities on non-agricultural activities could be found.

**Summary Table A.** Proportion of Households with Respect to the Level of Agricultural Activity to the Total Households, by Location of Households: 2001

Location of Household	Total Households	Proportion of Households (%), by Level of Agricultural Activity		
		Non-Agricultural	Minor Agricultural	Agriculturally Active
<b>Tonga</b>	<b>15,738</b>	<b>30.4</b>	<b>5.3</b>	<b>64.2</b>
Tongatapu	10,583	38.6	7.3	54.2
Vava'u	2,625	15.4	1.4	83.2
Ha'apai	1,298	15.6	1.5	82.9
'Eua	863	9.0	1.3	89.7
Niuas	369	8.9	0.5	90.5

Bigger proportions of agriculturally active households resided in the islands of Vava'u (83.2%), Ha'apai (82.9%), 'Eua (89.7%) and Niuas (90.5%) than the non-agricultural and minor agricultural households. These islands had their own unique physical characteristics when it comes to agriculture, hence, more households engaged in it during the past twelve months prior to the AC 2001 undertaking.

The agriculturally active households in Tonga were categorized into three for the purpose of the AC 2001 (see Table 1.2 in Chapter V): those engaged for subsistence agricultural activities or for home consumption only (5,964 households or 59%); those engaged for subsistence agricultural activities but occasionally selling their crops (3,896 households or 38.6%); and those engaged as commercial crop producers (242 households or 2.4%).

More than one-half of the agriculturally active households in Tongatapu (3,880 or 67.7%) and Ha'apai (837 or 77.8%) were engaged in agricultural production mainly for their home consumption only. While those in Vava'u (1,210 or 55.4%), 'Eua (557 or 72%) and Niuas (202 or 60.5%) produced crops mainly to consume and to sell some of these from time to time.

The proportion of commercial crop producers in Tongatapu (164 or 2.8%), Vava'u (40 or 1.8%) and 'Eua (34 or 4.4%) to the total agriculturally active households, though quite small, made significant contribution in the agricultural activities in the Kingdom.

### 4.4 Owned Tax Allotment

In the Kingdom of Tonga, the tax allotment was given to the head of the household by the Noble of a village or by the government. Of the total households enumerated in the AC 2001,

41% or 6,447 owned tax allotment (see Table 1.3 in Chapter V). About 77.7% of these tax allotment owners or 5,012 households were agriculturally active.

The proportion of households owning tax allotment in Tongatapu (36.2%) was much lower than the other four main islands for the reason that most of the lands in this island were used for commercial purposes. 'Eua reported the biggest proportion (56.2%) of households owning tax allotments followed by Vava'u (50.2%). Ha'apai and Niuaus had almost the same proportion of 48.4% and 48.2%, respectively.

At present, the tax allotment may be of any or combination of the following status: cultivated under crops by owner/household, rented out to other households for pay, rented out to other households without pay, fallow, under bush/forest growth and other status. Summary Table B shows the present status of tax allotment in the entire island.

**Summary Table B.** Number of Households Owning Tax Allotment and Number and Area of Owned Tax Allotment, by Present Status of Tax Allotment: 2001

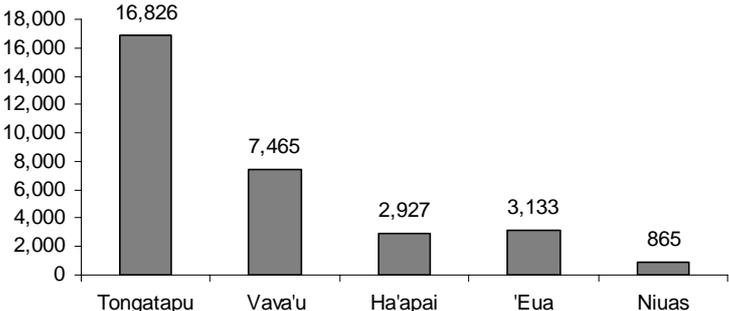
Present Status of Tax Allotment	No. of Households Owning Tax Allotment	Number of Owned Tax Allotment	Area of Owned Tax Allotment
<b>Total</b>	<b>6,447</b>	<b>6,577</b>	<b>53,725</b>
Cultivated under crops by owner/household	3,695	3,734	31,216
Rented out to other households for pay	245	245	3,769
Rented out to other households without pay	2,102	2,124	17,881
Fallow	2,311	2,317	18,190
Under bush/forest growth	689	701	7,316
Other status	241	243	2,424

*Note: The total does not add up to the details since a tax allotment may be under several present status.*

In the table above, around 3,700 tax allotments were cultivated under crops by around 3,700 owners/households in a total of 31,216 acres giving an average of 8 acres per tax allotment. More or less 2,300 tax allotments were rented out to other households either for pay or without pay totaling to 21,650 acres. Around 3,000 tax allotments were lying idle or fallow lands or under bush/forest growth occupying more or less 25,000 acres of lands. Some 243 tax allotments under around 2,400 acres were utilized in quarrying, homestead, etc.

The area of tax allotments cultivated under crops in Tongatapu comprised about 54% of the total area of tax allotments under cultivated crops in the Kingdom. Figure A illustrated the area of tax allotment cultivated under crops by owner/households in each major island.

**Figure A.** Area of Tax Allotment Cultivated Under Crops by Owner/Household, by Location of Household: 2001



Summary Table C compares the number of cultivated tax allotments by owner/household that were reported in the AC 2001 to the total tax allotment found with crops growing in 1993 Land Use and Crop Survey (LUCS)

**Summary Table C.** Number of Tax Allotment Reported in 1993 LUCS and AC 2001, by Location of Household: 2001

Location of the Households	Number of Tax Allotment Reported in the 1993 LUCS	Number of Tax Allotment Reported in AC 2001
<b>Tonga</b>	<b>6,665</b>	<b>6,577</b>
Tongatapu	3,459	3,221
Vava'u	1,343	1,601
Ha'apai	973	882
'Eua	626	648
Niuas	263	225

Based on the results of the two activities, there was a decline of 1.3% in the number of tax allotment reported from 6,665 tax allotments in 1993 LUCS to 6,577 tax allotments in AC 2001. Contributing to the decline were Tongatapu (6.9%), Ha'apai (9.4%) and Niuas (14.4%). Though the number of tax allotment in Vava'u (19.2%) and 'Eua (3.5%) increased in 2001, the increases were not sufficient enough to get same number of tax allotment as that in 1993.

#### 4.5 Livestock

The livestock included in this report are those that were kept at the time of the agriculture census enumeration and those that were disposed during the last twelve months before the census taking. Livestock includes cattle, pig, horse, goat, chicken and ducks. Dogs and cats were not considered livestock but for the purpose of this census, the number of dogs kept was also asked in the census questionnaire.

##### 4.5.1 Kept as of the Time of Enumeration

Four in every five households in the Kingdom of Tonga kept different kinds of livestock at the time of visit of the enumerators to these households. These households raised or kept one or more than one kind of livestock at the same time. The different kinds of livestock being kept at the time of enumeration were cattle, pigs, horses, goats, chickens and ducks. Summary Table D below shows the number of households keeping livestock and the number of livestock kept in the Kingdom of Tonga.

**Summary Table D.** Number of Households Keeping Livestock and Number of Livestock Kept as of the Time of Enumeration, by Kind of Livestock, Kingdom of Tonga: 2001

Kind of Livestock	No. of Households	No. of Livestock Kept	Average No. of Livestock Kept
Cattle	2,311	10,354	4
Pig	11,594	113,580	10
Horse	1,640	3,255	2
Goat	805	2,741	3
Chicken	7,729	177,829	23
Duck	126	1,119	9

As shown in Summary Table D, the households keeping cattle in the Kingdom of Tonga accounted for about 15% of the total households. The actual count of cattle kept by these households totaled to 10,354 cattle giving an average of 4 cattle per household. 🐮🐮🐮

Summary Table E below shows that 91.5% of the total households keeping cattle or 2,115 households kept less than 10 cattle or an average of 3 cattle per household. Some (189 households or 8.2%) kept between 10 to 49 cattle or an average of 16 cattle per household. A few households (2.1% or 7 households) kept more than 50 cattle or around 90 cattle per household.

**Summary Table E.** Number of Households Keeping Cattle and Number of Cattle Kept as of the Time of Enumeration; 2001

	Total	< 5 cattle	5 - 9 cattle	10 - 19 cattle	20 -49 cattle	50 cattle <
<b>Tonga</b>	<b>2,311</b>	<b>1,630</b>	<b>485</b>	<b>148</b>	<b>41</b>	<b>7</b>
Tongatapu	1,225	858	248	89	25	5
Vava'u	653	454	156	35	7	1
Ha'apai	151	110	34	5	2	0
Eua	259	189	43	19	7	1
Niuas	23	19	4	0	0	0

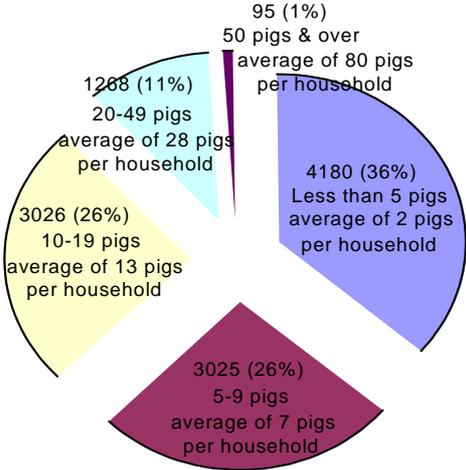
Among the five major islands, Tongatapu's and 'Eua's household cattle keepers reported the biggest average of 5 cattle per household keeping cattle while Niuas reported only an average of 3 cattle.

The biggest group of livestock keepers at the time of enumeration which can be seen in Table D was the household keeping pigs. It comprised 92.1% of the total households keeping livestock reporting an average of 10 pigs per household. 🐷🐷🐷🐷🐷

The pie chart below (Figure B) presents the number of households keeping pigs according to the size of the pig holding. As the size of pig holding increased, the number of household keeping pigs decreased but the average number of pigs increased.

At the island level, Ha'apai reported the highest average of 14 pigs per household keeping pigs, followed by 'Eua (13), Niuas (12), Vava'u (11) and Tongatapu (8).

Figure B. Number of Households Keeping Pigs, by Size of Pig Holding: 2001



As shown in Summary Table D, there were 3,255 horses in the Kingdom of Tonga. These were being tended and kept by 1,640 households at the time of the AC 2001 undertaking. Almost 95% of these households keeping horses reported to have kept less than 5 horses or 2 horses each.  The rest (5% or 88 households) had kept an average of 7 horses.

Of the total number of horses in Tonga, Tongatapu kept 896 horses (27.5%), Vava'u with 865 horses (26.2%), Ha'apai with 684 horses (21%), 'Eua with 544 horses (16.7%) and Niuaus with 266 horses (8.2%).

The other information also presented in Summary Table D was the number of households keeping goats. During the census enumeration in 2001, 805 households had kept 2,741 goats or an average of 3 goats per household. 

In every five households keeping goats, four households kept less than 5 goats or an average of 2 goats. About one-fifth of the households keeping goats kept more than 5 goats, that is, 9 goats per household.

Higher number of goats kept was in Tongatapu (988 goats or 36%) and Ha'apai (726 goats or 26.5%). Vava'u (528 goats or 19.3%), 'Eua (420 goats or 15.3%) and Niuaus (79 goats or 2.9%) also kept some goats.

Poultry like chickens and ducks were also included in the livestock kept during the time of the agriculture census in 2001. The number of households keeping these kinds of livestock and the corresponding number kept can also be seen in Summary Table F.

**Summary Table F.** Number of Households Keeping Chicken and Number of Chicken Kept as of the Time of Enumeration; 2001

	Total	< 5 chicken	5 - 9 chicken	10 - 19 chicken	20 - 49 chicken	50 chicken<
<b>Tonga</b>	<b>7,729</b>	<b>922</b>	<b>1,183</b>	<b>2,186</b>	<b>2,733</b>	<b>705</b>
Tongatapu	4,316	506	644	1,249	1,524	393
Vava'u	1,704	192	270	488	618	136
Ha'apai	915	103	132	218	362	100
Eua	497	94	95	154	132	22
Niuaus	297	27	42	77	97	54

More or less 7,700 households kept 178 thousand chickens during the time when the census enumeration was conducted. Every household keeping chicken kept an average of 23 chickens.  Tongatapu's and Niuaus' households kept both the highest average of 25 chickens. On the other hand, 'Eua's households shared the lowest average of 16 chickens.

Summary Table F illustrates the number of households keeping chickens and the number of chickens kept as of the time of enumerator's visit to the households in each major island of Tonga. The modal size of the chicken holding in all major islands was between 10-49 chickens as can be gleaned from Figure D. The table also shows that Tongatapu had the most number of commercial households keeping chickens with a size of 50 chickens and over.

The total number of ducks accounted in the Kingdom was 1,119, kept by 126 households during the time of census enumeration. This means that there were 9 ducks, on the average, per household keeping ducks. 

Three-fifths of the households keeping ducks reported to have less than 5 ducks or an approximate average of 2 ducks per household. The rest (49 households or 40%) with five ducks and above reported to have kept an average of 20 ducks. Three in every four duck keepers resided in Tongatapu (817 households or 73%) and the others were scattered in the other four major islands.

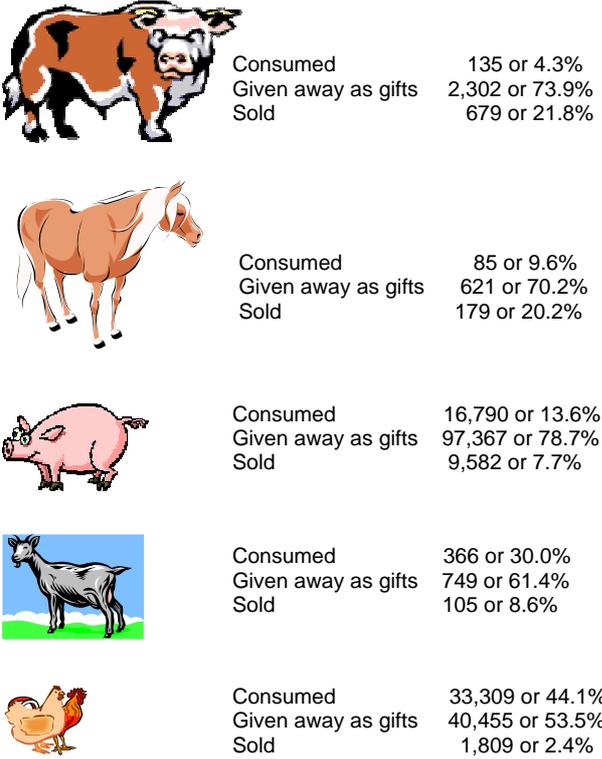
Though dogs are not considered livestock, the AC 2001 included the number of dogs kept in to provide the total number of dogs existing in the island as of the time of enumeration. The total dogs estimated in the Kingdom totaled to 26,315 and 10,317 households kept these.

Tongatapu provided home to 16,596 dogs or 63.1% of the total dogs in the entire Kingdom. Vava'u reported to have kept 4,919 dogs (18.7%), Ha'apai with 2,663 dogs (10.1%), 'Eua with 1,341 dogs (5.1%) and Niua's with 796 dogs (3%).

**4.5.2 Disposed During the Past Twelve Months Before to Census Taking**

For the purpose of this census, only five types of livestock were considered in taking the disposal. These were the cattle, pig, horse, goat and chicken. Disposal may be in terms of consumption, giving away as gifts and those sold to consumer/other household.

Figure C. Disposal of Livestock, by Type of Livestock: 2001



Greater percentage of livestock disposed during the last twelve months as shown in Figure E specifically cattle (73.9%), pigs (78.7%), horses (70.2%) and goats (61.4%) were those given away as gifts to friends, neighbors, etc. in time of feast and other special occasions. The percentage of chicken consumed (44.1%) was more likely closer to the percentage of chicken given away as gifts (53.5%), which proved that chicken was mainly part of the Tongan diet. Higher percentage of goat consumed (30%) and sold cattle (21.8%) and horse (20.2%) was also notable.

The livestock sold was valued at Tongan Pa'anga. Summary Table G provides the average price per livestock sold.

**Summary Table G.** Number and Value of Livestock Sold, by Type of Livestock: 2001

Type of Livestock	Number Sold	Value Sold (TOP)	Average Price (TOP)
Cattle	679	496,210	731
Pig	9,582	813,030	85
Horse	179	56,090	313
Goat	105	3,631	35
Chicken	1,809	7,081	4

#### 4.6 Fishing Activities

Fishing is one of the most important economic activities in the Kingdom of Tonga since it is surrounded by about 200 square kilometers of bodies of water, adding to its economic zone. During the last twelve months before the agriculture census taking in October 2001, 32.6 percent of the total households or around 5 thousand households were engaged in fishing activities. Almost one-half (2,393 or 46.7%) of the fishing households resided in Tongatapu. The rest could be found in Vava'u (1,337 or 26.1%), in Ha'apai (937 or 18.3%), in 'Eua (211 or 4.1%) and in Niuas (252 or 4.9%).

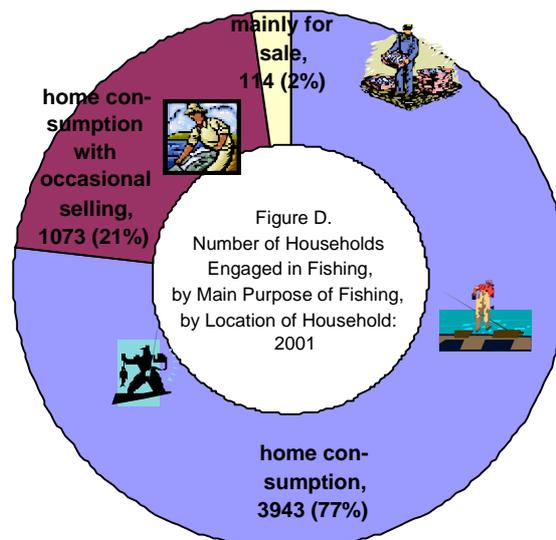
Getting the proportion of the fishing households (shown in Summary Table H) to the total households in each major island of the Kingdom of Tonga, Ha'apai reported the highest (72.2%), followed by Niuas (68.3%) and then by Vava'u (50.9%). Though most of the fishing households were located in Tongatapu, it reported the lowest proportion (22.6%).

**Summary Table H.** Proportion of Fishing Households to the Total Number of Households, by Location of Household: 2001

Location of Household	Number of Households	Number of Fishing Households	Proportion of Fishing Households
<b>Tonga</b>	<b>15,738</b>	<b>5,130</b>	<b>32.6</b>
Tongatapu	10,583	2,393	22.6
Vava'u	2,625	1,337	50.9
Ha'apai	1,298	937	72.2
'Eua	863	211	24.4
Niuas	369	252	68.3

##### 4.6.1 Main Purpose of Fishing

There were three main purposes of fishing stated in this census. Around three-fourth (3,943) of the fishing households had caught/gathered fish mainly for home consumption. Another one-fifth (1,073) reported that aside from consuming what they had fished, they also sold some of the catch/gathered aquatic products occasionally. Only 2.2% (114) of the fishing households were engaged in this activity mainly for sale.



#### 4.6.2 Type of Fishing Method



The fishing households in Tonga were engaged in either one or more than one type of fishing methods, namely, handline fishing (2,236 or 43.5%), spear fishing (1,091 or 21.3%) and net fishing (831 or 16.2%). About 30% also reported to have engaged in other types of fishing methods such as shell gathering/collection, etc.

In terms of highest number of households engaged in handline fishing, Tongatapu led the other four major islands. While in terms of highest proportion of households engaged in this fishing method to the total fishing households, Niua (65.9%) had an edge over the other islands.

Those engaged in net fishing in Vava'u and Niua had almost the same proportion (20%) which was higher compared to the other islands. On the other hand, the proportion of spear fishing households to the total fishing households in Ha'apai (39%) was reported to be the highest.

#### 4.6.3 Fishing Trips

An average of 2 fishing trips was made by the fishing household during the past week prior to the visit of the enumerator to the household. All the major islands reported the same average, however, with one decimal place, Ha'apai fishing households made the highest average number of fishing trips (2.3) among the five major islands. Tongatapu followed Ha'apai with a reported average of 2 fishing trips, Eua with 1.8 fishing trips, Niua with 1.7 fishing trips and Vava'u with 1.6 fishing trips.



an average of 2 fishing trips during the past week prior to census enumeration ...

In net fishing, the households spent an average of 2.1 trips during the past week prior to the census visit, higher by 0.2 from spear fishing (an average of 1.9 fishing trips) and 0.4 from handline fishing (an average of 1.6 fishing trips). Some fishing households also spent an average of 1.5 fishing trips in other types of fishing methods.

The fishing households in Tongatapu (2.3 fishing trips), Vava'u (1.7 fishing trips) and Ha'apai (2.2 fishing trips) spent more time in net fishing than in any other fishing methods. While those in 'Eua (2 fishing trips) and Niua (1.9 fishing trips) preferred spear fishing more than the others.

#### 4.6.4 Persons Engaged in Fishing

A total of 7,704 persons were engaged in the fishing activities during the past week, 79% of which were males and 21% were females. On the average, two persons per households were engaged in fishing.

92.2% of these persons were household members and only 7.8% were hired workers.

#### 4.6.5 Fishing Boats

Two in every five fishing households used boats in their fishing activities. Ha'apai (66%) reported the highest proportion of fishing households using boats while 'Eua had the least proportion (29%). Table I below shows the proportion of fishing households owning boats or hiring boats or borrowing boats to the total fishing households using boats.

**Summary Table I.** Proportion of Fishing Households Using Boats, by Location of Household: 2001

Location of Household	No. of Fishing Households Using Boats	Proportion of Fishing Households Using Boats		
		Owned Boats	Hired Boats	Borrowed Boats
<b>Tonga</b>	<b>2,044</b>	<b>43.4</b>	<b>15.4</b>	<b>43.7</b>
Tongatapu	789	42.3	21.0	37.9
Vava'u	492	55.9	10.6	39.2
Ha'apai	616	35.4	12.8	51.8
'Eua	61	36.1	23.0	41.0
Niua	86	37.2	3.5	62.8

In Summary Table I, the proportion of fishing households owning boats in Tonga was more or less the same proportion of households that borrowed boats. Vava'u reported the highest proportion of fishing households owning boats (55.9%), even higher than the national proportion (43.4%). In terms of hiring boats, Tongatapu (21%) and 'Eua (23%) surpassed the national proportion (15.4%). Higher proportion of borrowing boats was reported in Ha'apai (51.8%) and Niua (62.8%) than the national proportion of 43.7%.

There were 932 fishing boats reported by the fishing households owning boats. As can be seen in the graph below (Figure E), 38.9% or 363 boats were found in Tongatapu, 30.6% or 285 boats in Vava'u and 24% or 228 boats in Ha'apai.

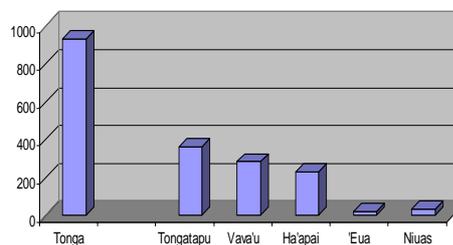


Figure E. Number of Boats, by Major Island: 2001

Different types of fishing boats were owned by the fishing households in Tonga such as boats with in-board engine (127), boats with out-board engine (614) and non-motorized boats (165).

#### 4.6.6 Selling Fish

About 22% (1,139) of the total fishing households sold their fish/sea products caught/collected/ gathered either directly to the consumer (892 or 78.3%) or middle man (236 or 20.7%) or other means (11 or 1%). One-half of these households reported to have sold at least three-fourths of their catch. While the other half of these households sold at most one-half of their fish/sea products caught/collected/gathered.

### 4.7 Agriculturally Active Households

The succeeding portions of the analysis of AC 2001 results focus on the characteristics of the agriculturally active households and the holdings and parcels that these households were operating during the last twelve months prior to the census taking.

#### 4.7.1 Population

The 10,102 agriculturally active households during the undertaking of the AC 2001 were composed of 61,186 members, 51.9% (31,774) were males and 48.1% (29,412) were females, giving an average of 6 members per household. The sex ratio of these members was 108 males over 100 females.

Approximately three-fifths of the agriculturally active household population were residing in Tongatapu (36,040), one-fifth in Vava'u (12,695), one-tenth in Ha'apai (6,119) and the rest in 'Eua (7.5% or 4,572) and Niuas (2.9% or 1,760).

In terms of age, 36.7% or 22,430 household members aged below 15 years old. On the other hand, around 64% of the total population of the agriculturally active households reached the age 15 years and above, 55% or 33,401 persons belonged to the age group 15 to 59 years old and the rest (8.8% or 5,355) were adult members of the household aging 60 years old and over.

Of the total agriculturally active household members 15 years old and over, 62.4% or 24,191 were employed or economically active, 12.7% or 4,920 were unemployed or looking for work

and 24.9% or 9,645 were inactive or not in the labor force such as the students, housekeepers, retired, disabled, etc. There were more males (60.3% or 14,595) than females (39.7% or 9,596) among these employed household members. Opposite to this, more females (67.7% or 3,329) looked for work or were unemployed than males (32.3% or 1,591). In addition, more females (62% or 5,984) also were inactive or did not want to work at all compared to males (38% or 3,661).

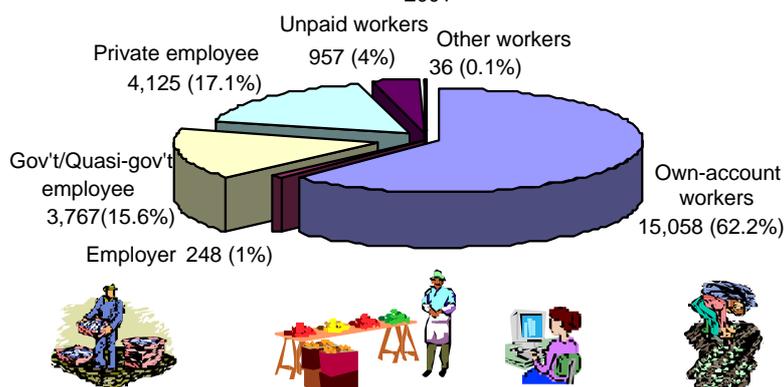
The proportion of agriculturally active household members 15 years old and over in each main island according to their main activity as can be seen in Summary Table J followed the same trend as in the national level that there were more males employed as there were more females unemployed and inactive in labor force. However, Niuas had more inactive male members (53.3%) in the labor force than the female ones (46.7%).

**Summary Table J.** Percentage of Agriculturally Active Household Members 15 Years Old and Over, by Sex and Main Activity, by Location of Household: 2001

Location of Household	Employed			Unemployed			Not Active		
	Both Sexes	Male (%)	Female (%)	Both Sexes	Male (%)	Female (%)	Both Sexes	Male (%)	Female (%)
<b>Tonga</b>	<b>24,191</b>	<b>60.3</b>	<b>39.7</b>	<b>4,920</b>	<b>32.3</b>	<b>67.7</b>	<b>9,645</b>	<b>38.0</b>	<b>62.0</b>
Tongatapu	13,605	62.3	36.7	3,373	30.5	69.5	6,271	36.2	63.8
Vava'u	5,031	58.3	41.7	827	38.9	61.1	2,015	38.5	61.5
Ha'apai	2,883	51.2	48.8	233	39.1	60.9	629	49.0	51.0
'Eua	1,916	60.5	39.5	385	29.9	70.1	563	39.1	60.9
Niuas	756	55.7	44.3	102	34.3	65.7	167	53.3	46.7

The employed members in the agriculturally active households comprised mostly of own-account or self-employed workers (15,058 or 62.2%). Some of them worked for the government/quasi-government (3,767 or 15.6%) and for private employers, (4,125 or 17.1%). Unpaid workers accounted for only 4% while employers were 1%.

Figure F. Employed Members of Agriculturally Active Household, by Employment Status: 2001



Among the five major islands, Ha'apai reported the highest proportion of own account workers (2,289 or 79.4%). More employers could be found in Vava'u (112 or 2.2%) than in any other islands. Tongatapu employed higher proportion of agriculturally active household members in the government/quasi-government (2,543 or 18.7%) simply because all the national government/quasi-government offices are located in it. At the same time, higher proportion of private employees (3,067 or 22.5%) was also situated in Tongatapu because of

the presence of big business and commercial establishment. In the case of unpaid workers, higher proportion was reported in Vava'u (6.1% or 306) and 'Eua (5.1% or 98).

Figure G. Percentage of Employed Agriculturally Active Household Members 15 Years Old and Over, by Major Category of Industry: 2001



As illustrated in Figure G, two in every five agriculturally active household members 15 years old and over were employed in agriculture, fishery and forestry. On the other hand, one out of three of these household members worked in other industries such as mining and quarrying, manufacturing, electricity, gas and water, and construction. Another one-third of them were engaged in economic activity providing services like the wholesale and retail trade, hotels and restaurants, transport, storage and communications, financial intermediation, real estate, renting and business, public administration and defense, education, health and social work, etc.

Summary Table K. Percentage of Employed Agriculturally Active Household Members 15 Years Old and Over, by Major Industry and Sex, by Location of Household: 2001

Location of Household	Agriculture, Fishery and Forestry			Other Industries			Services		
	Both Sexes	Male (%)	Female (%)	Both Sexes	Male (%)	Female (%)	Both Sexes	Male (%)	Female (%)
<b>Tonga</b>	<b>9,539</b>	<b>96.5</b>	<b>3.5</b>	<b>7,228</b>	<b>16.4</b>	<b>83.6</b>	<b>7,424</b>	<b>56.6</b>	<b>43.4</b>
Tongatapu	5,175	95.9	4.1	3,278	23.4	76.6	5,152	55.8	44.2
Vava'u	2,092	96.6	3.4	1,653	14.8	85.2	1,286	52.1	47.9
Ha'apai	1,034	97.7	2.3	1,339	8.7	91.3	510	68.4	31.6
'Eua	907	97.9	2.1	651	7.8	92.2	358	61.5	38.5
Niuas	331	98.2	1.8	307	2.6	97.4	118	74.6	25.4

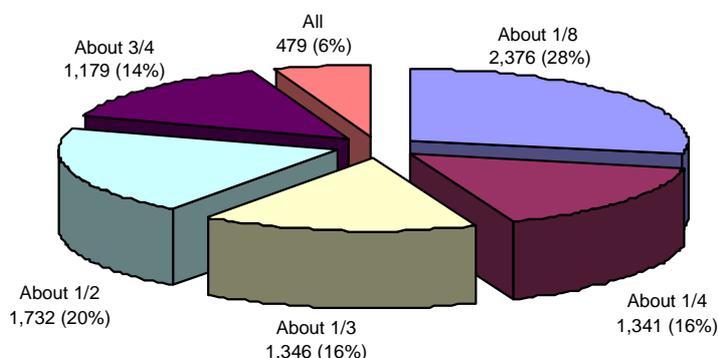
In the entire Kingdom, the employed agriculturally active household male members 15 years old and over dominated the agriculture, fishery and forestry work while majority of the female members were in other industries. In the services sector, the percentage of the employed male and female household members was more or less equal specifically in Tongatapu and Vava'u as presented in Summary Table K.

#### 4.7.2 Deriving Income from Agricultural Activities

The majority of the agriculturally active households (8,455 or 83.8%) made agriculture as one of their sources of income, if not the main source. Among these households, 479 households or 5.7% reported that all their income came from agricultural activities. On the other hand, 7,976 households or 94.3% stated that at least one-eighth but not to exceed

three-fourths of their income was provided by agriculture. Some households (1,633 or 16.2%) preferred not to state anything with respect to income specifically those from agriculture.

Figure H. Number of Households Deriving Income From Agriculture During the Past twelve Months, by Proportion of Income: 2001



### 4.7.3 Involvement in Handicraft Making

For this census, questions pertaining to handicraft were asked to agriculturally active households only to find out their other economic activities. A total of 5,798 (57.4%) agriculturally active households were engaged in handicraft making during the past twelve months before the conduct of the AC 2001. In these households, there were 7,591 members who helped and engaged themselves in making different handicrafts. Almost all these household members were females (7,436 or 98%) and only 2% (155) were male.

About 75 percent of households engaged in handicraft making had taken raw materials from their own holding while thirty percent bought their raw materials from other households/other sources. Around 54% (3,117) of the household handicraft makers sold their products.

Summary Table L. Number of Households Engaged in Handicraft Making and Households Taking/Buying Raw Materials and Selling Handicrafts Made, by Location of Household: 2001

Location of Household	Number of Households Engaged in Handicraft Making	Households Taking Raw Materials from the Holding	Households Buying Raw Materials	Households Selling Handicraft Made
<b>Tonga</b>	<b>5,798</b>	<b>4,386 (75.6%)</b>	<b>1,894 (32.7%)</b>	<b>3,117 (53.8%)</b>
Tongatapu	2,601	1,631 (62.7%)	1,181 (45.4)	1,127 (43.3%)
Vava'u	1,468	1,280 (87.2%)	355 (27.7%)	742 (50.5%)
Ha'apai	946	824 (87.1%)	135 (14.3%)	752 (79.5%)
'Eua	531	453 (85.3%)	121 (22.8%)	328 (61.8%)
Niuas	252	198 (78.6%)	102 (40.5%)	168 (66.7)

From Summary Table L, the highest proportion of takers of raw materials from the holding came from Vava'u (87.2%), Ha'apai (87.1%) and 'Eua (85.3%). On the other hand, Tongatapu (45.4%) and Niuas (40.5%) reported more than 40% of their households engaged in handicraft making bought raw materials from other households/sources. Then more than 50% of the households in all major islands except Tongatapu had sold the handicraft they made.

## 4.8 Agricultural Holding and Parcel

The agriculturally active households operated 10,316 agricultural holdings during the last twelve months before the enumeration of the AC 2001, giving an average of one holding per household. These holdings were operated in approximately 66,330 acres of agricultural lands. Thus, the estimated average of each holding was 6.4 acres. The agricultural holding was defined in the AC 2001 as an economic unit of agricultural production under single management comprising of all livestock kept and all land used wholly or partly for agricultural production purposes, without regard to title, legal form or size.

Twelve Institutions in the Kingdom also operated one holding each in 626 acres of agricultural lands, thus, making the total holding to be 10,328 acres. The average agricultural holding area cultivated by one institution was around 52 acres.

Each holding is composed of piece or pieces of lands called parcels. The total number of parcels accounted in this census was 15,084, household contributing 15,058 parcels and the institution, 26 parcels. Hence, for every holding that the household was operating, there corresponded at least one parcel while the institution had 2 parcels each. A holding parcel is any piece or pieces of land entirely surrounded by other land, water, road, forest, etc., not forming part of this holding. A parcel may consist of one or more fields adjacent to each other which mean that a parcel is a contiguous piece of land in a holding.

Holdings operated for subsistence only, 6,013 (58.2%), were accounted under an area of 29,013 acres. Those that were cultivated for subsistence with cash cropping totaled to 4,061 (39.3%) holdings in an area of 31,768 acres. The rest of the holdings (254 or 2.4%) were taken cared of by the commercial crop producers utilizing an area of 6,375 acres.

### 4.8.1 Method of Operation

Almost all holdings in the Kingdom were operated by individual households on own-account (10,295 holdings or 99.7%). Only few holdings were jointly managed by two households or individual called partnership (21 or 0.2%) and by institutions (12 or 0.1%). The institutions were located in Tongatapu (5), Ha'apai (3), 'Eua (2) and Niua (2).

### 4.8.2 Size of Parcels

Parcels cultivated by households and institutions varied in sizes. The household operated a holding parcel with size of less than 1 acre while the institutions managed at least 1 acre of agricultural land. Summary Table M provides the number and the average area of parcels, by size of parcel. The overall average parcel area of 4.4 acres fell from 1.00 acre to 9.99 acres. The smallest average parcel area operated was 0.4 acre or two-fifths of an acre while the biggest was 180.2 acres. For the parcels measuring 100 acres and over, 14 parcels were operated by the household and 2 by the institutions.

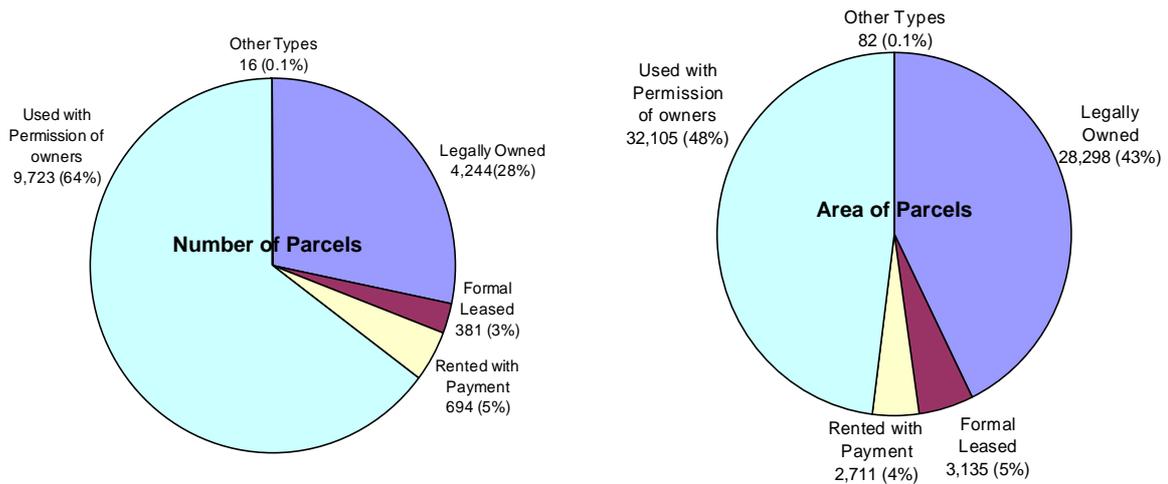
**Summary Table M.** Number and Average Area of Parcels, by Size of Parcels: 2001

Size of Parcel	Number of Parcels		Average Area
	No.	%	
<b>Total</b>	<b>15,084</b>	<b>100.0</b>	<b>4.4</b>
< 1acre	2,709	18.0	0.4
1 < 10 acres	11,998	79.5	4.7
10 < 20 acres	276	1.8	12.5
20 < 50 acres	74	0.5	28.5
50 < 100 acres	11	0.1	61.5
100 <	16	0.1	180.2

### 4.8.3 Land Tenure

Almost one-third of the total reported parcels (4,244) were legally owned and another 65% (9,723 parcels) were used for free by the holders with permission of owner. Some parcels were either rented by the holders from other households for payment either in cash or in kind (694 or 5%) or formally leased to the holders for a certain period of time (381 or 3%). The legally owned parcels occupied 42.8% (28,298) of the total holding area and those used for free with permission of owner had 32,105 acres or 47.9%. The other parcels were reported to be: formal leased with 3,135 acres or 4.7%, rented for payment either in cash or in kind with 2,711 acres or 4.0% and other type of land tenure with 82 acres or 0.1%.

Figure I. Number and Area of Parcels, by Land Tenure: 2001

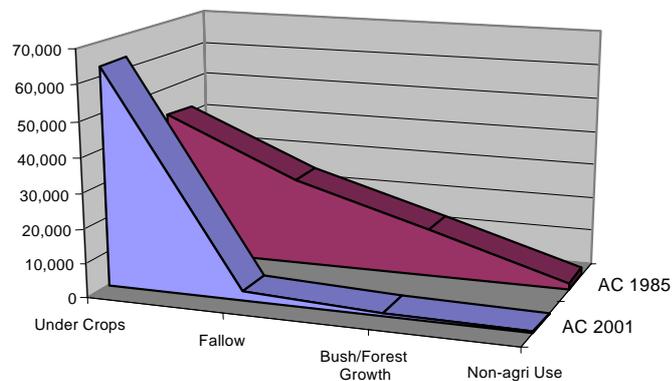


### 4.8.4 Main Land Use

More than half of the parcels were lands under annual crops (8,119 parcels or 54%) and more than one-third were lands under mixed crops (5,216 parcels or 35%). Lands under perennial crops comprised about 8% or 1,176 parcels. There were also lands which were still under preparation for planting (51 parcels or 0.3%), under fallow for 5 years or less (275 parcels or 1.8%) and under bush/forest growth (115 parcels or 0.8%). Other lands were used for livestock (93 parcels or 0.6%) and for non-agriculture purposes (15 parcels or 0.1%) such as homestead, quarry, etc.

The area occupied by the parcels according to its main land use during the last twelve months before AC 2001 and its comparison with AC 1985 is illustrated in Figure J.

Figure J. Comparison of Area of Parcels, by Main Land Use: 2001 and 1985



The graph above illustrates the great changes that took place in the agricultural sector within the sixteen-year period. The lands utilized under crops increased by 47.3%, to 62 thousand acres in 2001 from 42 thousand acres in 1985. The area of fallow lands accounted in 1985 was ten times higher than that of the 2001 while the lands under bush/forest growth were sixteen times the 2001 data. However, this does not necessarily mean that the increase in area under crop lands in AC 2001 came entirely from the area of fallow/bush lands reported in AC 1985. As stated in Chapter 2, the AC 2001 was limited to all households that were presently and permanently residing in the Kingdom during the census enumeration. Hence, all households permanently living abroad and those that went on vacation to other countries and came back after the census taking were excluded in the AC 2001.

#### **4.8.5 Use of Fertilizers and Agricultural Chemicals**

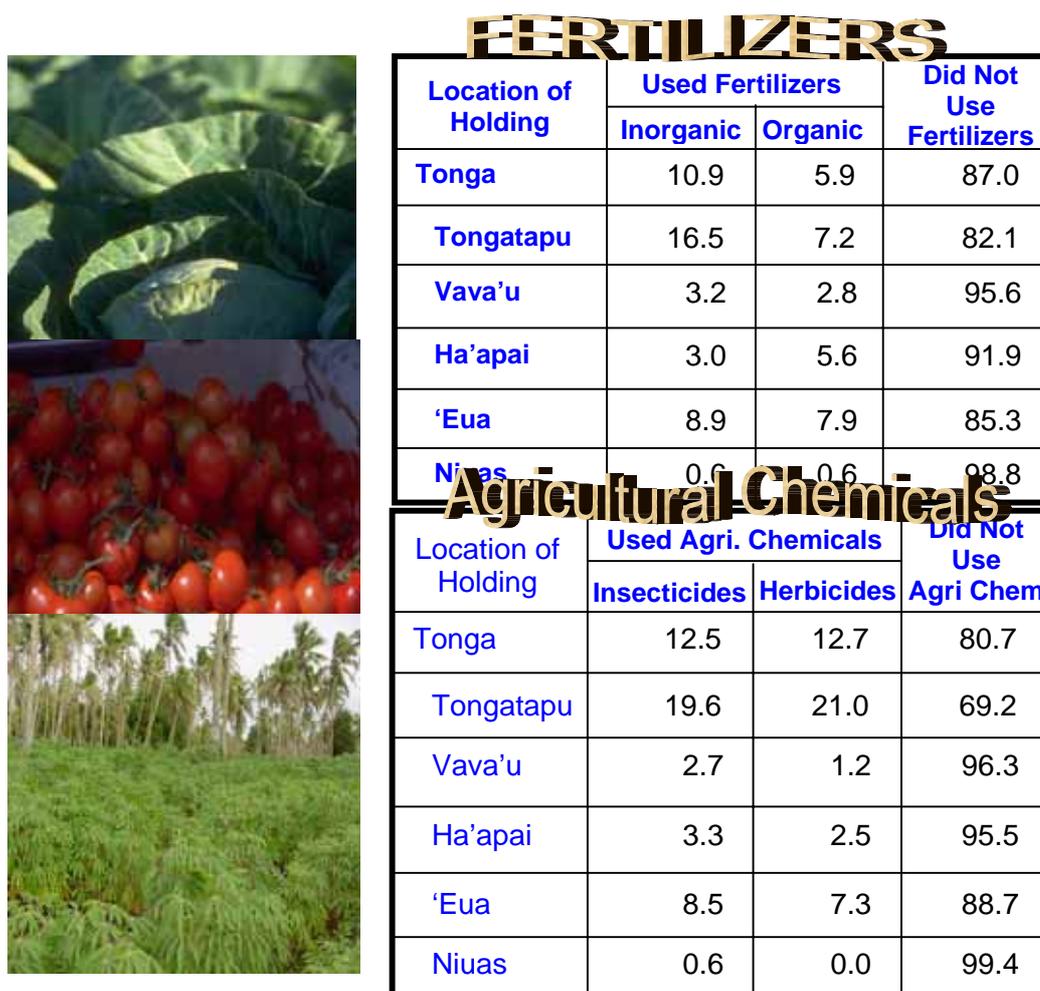
Of the total holdings, only 13% were applied with fertilizers. Inorganic fertilizers were still preferred over the organic ones. Around 11% (1,125 holdings) were applied with inorganic fertilizers and 6% (610 holdings) with organic fertilizers.

In terms of agricultural chemicals, one out of five holdings was applied with agricultural chemicals. Of these holdings, two-thirds were sprayed with herbicides and insecticides. The rest were applied with other types or unknown ones.

However, despite these, 4 out of 5 holdings in Tonga were not treated with any fertilizers and any agricultural chemicals. This means that most of the agricultural produce in the Kingdom were free of any chemical inputs.

The highest proportion of holdings that were applied with inorganic fertilizers were reported from Tongatapu (16.5%) followed by Vava'u (8.9%). Similarly, the holdings in 'Eua (7.9%) and Tongatapu (7.2%) had the highest tabulated proportions in terms of the use of organic fertilizers. In the case of agricultural chemicals, more or less 20% of the total holdings in Tongatapu were applied with insecticides and herbicides.

Figure K. Proportion of Holdings With and Without Fertilizers, by Location of Holdings: 2001



#### 4.8.6 Equipment Used

Three-fourths of the total agriculturally active households used equipment in operating a holding. Of these equipment users, almost two-thirds owned equipment, four-fifths hired equipment and one-fifth borrowed equipment.

The different equipment owned included in the AC 2001 are summarized in Table N.

Table N. Number of Equipment Owned, by Type of Equipment and Location of Holdings: 2001

Type of Equipment	Number Owned
Tractor	574
Rotary Hoe	68
Copra Dryer	40
Knapsack Sprayer	1,325
Mist Blower	819
Weed Eaters	312
Chainsaw	471
Irrigation Pump	36
Electric Generator	82
Vehicles	4,105

At least 50% of any type of owned equipment came from Tongatapu. Regarding the owned equipment of the other islands, 'Eua had more reported owned copra dryer, knapsack sprayer and mist blower than Vava'u, Ha'apai and Niuas. Next to Tongatapu, Vava'u owned more tractors, rotary hoes, weed eaters, chainsaws and vehicles than other three islands. Niuas was the second island with more electric generators. 'Eua did not report anything on irrigation pump.

#### 4.8.7 Labour Inputs

There were 15,593 persons 15 years old and over engaged in the agricultural activities of the holding. These were composed of 96.7% (13,144) males and 3.3% (449) females. Of these persons, 95.3% (12,949) were household members and 4.7% (644) were non-household members.

The median age of the male household members engaged in agricultural activities was 41 years old while their female counterpart was 42 years old. In the case of non-household members, the median age of the male was 31 years old and the female, 40 years old.

**Table O.** Number and Median Age of Persons Engaged in Agricultural Activities, by Status of Membership, Sex and by Age Group: 2001

Age Group	Household Member			Non-Household Member		
	Both Sexes	Male	Female	Both Sexes	Male	Female
<b>All Ages</b>	<b>12,949</b>	<b>12,525</b>	<b>424</b>	<b>644</b>	<b>619</b>	<b>25</b>
15 -24 years old	1,821	1,778	43	187	184	3
25-34 years old	2,860	2,760	100	233	227	6
35-44 years old	2,779	2,685	94	130	123	7
45-54 years old	2,278	2,173	105	57	51	6
55-64 years old	1,820	1,772	48	30	28	2
65 years & over	1,391	1,357	34	7	6	1
<b>Median Age</b>	<b>41</b>	<b>41</b>	<b>42</b>	<b>31</b>	<b>31</b>	<b>40</b>

The household members working in the holding were composed of agricultural holders/operators (10,245 or 79.1%), paid members (10 or 0.1%) and unpaid members (2,694 or 20.8%). The non-household members composition were holders/operators (71 or 11%), paid workers (269 or 41.8%) and unpaid workers (304 or 47.2%).

Almost all household members worked in the holding without any pay (or 12,912 or 99.7%) while 44% of the non-household members received payment for their work in the holding and 56% were unpaid workers.

Aside from the household and non-household member working in the holding, there were about 22,676 hired workers from group labor. These consisted of 22,466 (99.1%) males and 210 females (0.9%) females.

Summing up the total persons engaged in the agricultural activities in the last twelve months prior to AC 2001 enumeration, there were around 38 thousands.

#### 4.8.8 Main Source of Loans

For every one hundred holdings in Tonga, only 13 holdings were provided with loans simply because not all the holders would like to avail such loans. The providers of loans to these

holdings were Tonga Development Bank (1,239 holdings or 88.7%), Other Banks (122 or 8.8%), Exporters (9 or 0.6%) and Other Sources (15 or 1.1%)

#### **4.8.9 Agro-Forestry in the Holding**

There were several crops/trees/shrubs growing in the holding that provided multi-purpose or different uses. These uses were ranked according to the number of holdings utilizing such crops/trees/shrubs for multi-purpose.

**Table P.** Ranking of Uses of Crops/Trees/Shrubs According to Percentage of Holding, by Uses of Crops/Trees/Shrubs: 2001

<b>Uses</b>	<b>Percentage of Holding</b>	<b>Rank</b>
Source of Food/Income	97.1	1
Boundaries	56.8	2
Handicrafts	53.3	3
Timber	53.2	4
Shade/Shelter/Windbreaks	51.2	5
Fuel	41.0	6
Support for Crops	14.4	7
Soil Improvement	9.9	8

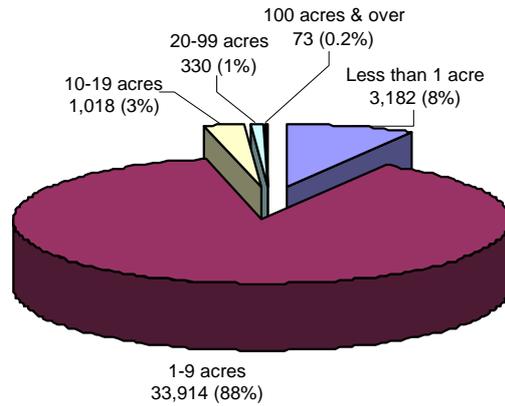
Crops/trees/shrubs were used in almost all holdings as a source of food and/or income. More or less 50% of the holdings utilized these as boundaries, timber, shade/shelter/windbreaks and as raw materials for handicraft making. The other benefits that were derived from the crops/trees/shrubs were: as a means of fuel, support for crops and soil improvement.

#### **4.8.10 Parcel Plots**

Each parcel may be divided into several separate plots. The number of separate plots reported in the AC 2001 summed up to 38,517 with an estimated average of 3 plots per parcel. Based on the total area of parcels, each plot would have an average size of 1.7 acres. Tongatapu's agriculturally active households shared 54.7% (21,094 plots) of the total separate plots with a total area of 35,334 acres or an average of 1.7 acres per plot. Vava'u had the second largest number (7,013 or 18.2%) and area (14,598 or 21.8%) of plots, estimating an average of 2.1 acres. Ha'apai came third with a total number of 5,468 and an area of 6,507 acres, making an average of 1.2 acres per plot. 'Eua had 3,361 separate plots under a total area of 8,066 acres, providing the largest average plot area of 2.4 acres. Niuaus, being the smallest islands, reported a total of 1,311 plots in an area of 2,452 acres having an average area of 1.9 acres per plot.

These separate plots were categorized according to the parcel size as illustrated in Figure L.

Figure L. Number of Separate Plots in the Parcel, by Size of Parcel: 2001



The 32,901 separate plots reported to have crops planted during the time of census enumeration were categorized also according to the method of sowing, namely, single cropping (18,809 or 57.2%), mixed cropping (13,684 or 41.6%) and crops in scattered pattern (408 or 1.2%). The plots in single cropping occupied a total area of 24,896 acres or an average of 1.3 acres per plot. Those under the mixed cropping method utilized 17,995 acres or 1.3 acres per plot. The size of the plots with crops in scattered pattern totaled to 527 acres or an average plot area of 1.3 acres.

The average plot area of each island under each method of sowing is shown in Summary Table Q.

Summary Table Q. Average Plot Area, by Method of Sowing and by Location of the Parcel: 2001

Location of Parcel	Average of All Plots with Crops	Method of Sowing		
		Single Cropping	Mixed Cropping	In Scattered Pattern
<b>Tonga</b>	<b>1.3</b>	<b>1.3</b>	<b>1.3</b>	<b>1.3</b>
Tongatapu	1.4	1.4	1.2	1.3
Vava'u	1.5	1.4	1.6	1.0
Ha'apai	0.8	0.8	0.8	1.9
'Eua	1.7	1.5	1.8	1.0
Niuas	0.8	0.6	0.9	1.0

Other separate plots without any planted crops summed up to 5,616 with an area of 23,517 acres. These were composed of 4,504 fallow plots in 17,587 acres, 251 plots waiting to be planted in 614 acres, 597 plots under bush in 3,330 acres, 216 plots utilized for livestock in 1,681 acres and 26 plots used as homestead, quarry, etc in 55 acres.

#### 4.8.11 Crops and Area Planted at the Time of Enumeration

The total area planted accounted to single crops reached 24,652 acres. The crops planted in single cropping with more than 1,000 acres were the following:

- Manioke → 6,206 acres
- Hina → 3,487 acres
- Talo Futuna → 3,247 acres
- Talo Tonga → 2,449 acres
- Kava Tonga → 2,160 acres

- 'Ufi Tokamu'a → 1,313 acres
- Kumala → 1,230 acres
- Vanila → 1,123 acres

The mixed crops single equivalent area covered 17,815 acres. The crops occupying more than 1,000 acres were enumerated as follows:

- 'Ufi Tokamu'a → 4,105 acres
- Kava Tonga → 3,104 acres
- Talo Tonga → 2,403 acres
- Kape → 2,186 acres
- Talo Futuna → 1,877 acres
- 'Ufi Tokamui → 1,530 acres

Hina, manioke, talo futuna, kumala and vanila were most common mono cropping. While kape, 'ufi tokamui and kava tonga were grown widely in mixed cropping. Talo tonga and ufi tokamu'a were cultivated in any method of sowing.

The major crops of the five major islands at the time of enumeration could be determined by summing the area for single cropping and the single equivalent area of crops in mixed cropping. Table R shows the total equivalent area occupied by major crops in the five main island groups.

**Summary Table R.** Average Total Crop Area (in acres), by Crop Type and by Location of the Parcel: 2001

Name of Crops	Tongatapu	Vava'u	Ha'apai	'Eua	Niuas	TOTAL
Hina ( <i>Squash</i> )	3,375	7		151		3533
Kape ( <i>Giant Taro</i> )	937	1,017	293	220	82	2549
Kumala ( <i>Sweet Potato</i> )	1,050	83	96	138	21	1388
Manioke ( <i>Cassava</i> )	4,568	667	1,070	312	101	6718
Meleni ( <i>Watermelon</i> )	533	62	32	20	4	651
Talo Futuna ( <i>American Taro</i> )	3,378	735	451	522	42	5128
Talo Tonga ( <i>Common Taro</i> )	3,207	875	143	575	85	4885
Ufi Tokamu'a ( <i>Early Yam</i> )	3,546	878	434	492	76	5426
Ufi Tokamui ( <i>Late Yam</i> )	1,456	301	228	100	43	2128
Hiapo ( <i>Paper Mulberry</i> )	375	43	195	158	5	776
Kava Tonga ( <i>Kava</i> )	415	2,769	220	1,661	208	5273
Siaine ( <i>Banana</i> )	178	138	67	29	3	415
Vanila ( <i>Vanilla</i> )	330	561	7	318	1	1217

There were many crops in scattered planting, mostly tree crops. These were *niu* (coconut) with 10,051 trees, mango with 7,912 trees, *mei* (breadfruit) with 4,875 trees, tava (Pacific lychee) with 3,032 trees, *lesi* (papaya) with 2,479 trees, moli (citrus orange) with 2,047 trees, koka (a kind of timber) with 1,965 trees, *ifi* (Tahitian chestnut) with 1,857 trees, *tavahi* with 1,166 trees, *fekika* with 1,137 trees and *lou'akau* (pandanus) with 1,151 trees. Other trees which were less than 1000 in number are shown in Table 3.6A in Chapter V.

The estimated area occupied by all scattered crops/trees/shrubs totaled to 460 acres (see Table 3.6 in Chapter V). Of these, Tongatapu reported an estimate of 218 acres for scattered its crops/trees/shrubs followed by Vava'u with 114 acres, Ha'apai with 66 acres, 'Eua with 39 acres and Niuas with 23 acres.

Crops/Trees/Shrubs used as boundary crops were also captured in the AC 2001. These crops were also used to distinguish the separate plots in a parcel or parcels of adjacent holdings. The boundary crops/trees/shrubs with more than 1000 in number were 31,45

*lou'akau* or pandanus, 2,251 *niu* or coconut trees, 2,170 *hopa* or *pata* or banana plantain and 1,198 *sita* or red cedar trees. Notable also were the 896 *kape* or giant taro and 807 *pele* or hibiscus manihot.

All boundary crops/trees/shrubs were planted in an estimated area of 92 acres as shown in Table 3.7B in Chapter V. These crops/trees/shrubs were distributed in all major islands, Tongatapu with 52 acres, Vava'u with 14 acres, Ha'apai with 16 acres, 'Eua with 7 acres and Niuas with 4 acres.

#### 4.8.12 Total Area Harvested to Major Crops During the Last Twelve Months

The major crops of the Kingdom are illustrated below:



**Area**  
3 508 acres

**Squash**

Squash or *hina* was harvested in Tongatapu (2,804 acres), Vava'u (92 acres) and 'Eua (613 acres)



**Area**  
2 886 acres

**Cassava**

Cassava or *manioke* was harvested in all major islands, Tongatapu (2,136 acres), Vava'u (161 acres), Ha'apai (395 acres), 'Eua (102 acres) and Niuas (93 acres).



**Area Harvested**  
2 335 acres

**Yam**

Yam was taken all over the Kingdom, from Tongatapu (1,639 acres), Vava'u (295 acres), Ha'apai (155 acres), 'Eua (218 acres) and Niuas (28 acres.)

All the islands in the Kingdom harvested the common taro. It was harvested in Tongatapu (1,232 acres), Vava'u (553 acres), Ha'apai (31 acres), 'Eua (320 acres) and Niuas (56 acres)



**Area Harvested**  
2,192 acres

**Common Taro**



**Area Harvested**  
1,800 acres

**American Taro**

Like the common taro, the American taro or *talo futuna* was taken from Tongatapu (1,169 acres), Vava'u (289 acres), Ha'apai (138 acres), 'Eua (191 acres) and Niuas (13 acres).



**Area Harvested**  
706 acres

**Kape**

Kape was harvested from Tongatapu (254 acres), Vava'u (289 acres), Ha'apai (46 acres), 'Eua (99 acres) and Niuas (18 acres).



**Area Harvested**  
720 acres

**Sweet Potato**

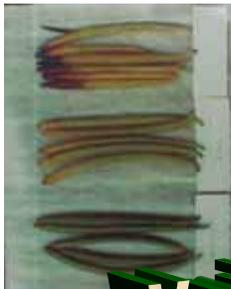
Sweet Potato was harvested in Tongatapu (590 acres), Vava'u (32 acres), Ha'apai (29 acres), 'Eua (62 acres) and Niuas (6 acres).

**Area Harvested**  
706 acres

Kava Tonga was harvested mostly in Tongatapu (14 acres) and 'Eua (7 acres).



**Kava Tonga**



**Area Harvested**  
106 acres

Tongatapu (89 acres) and Vava'u (13 acres) reported area harvested to vanilla.

**Vanilla**



## **CHAPTER V**

### STATISTICAL TABLES

## LIST OF STATISTICAL TABLES

<u>Table No.</u>	<u>TITLE</u>	<u>Page No.</u>
1.1	Number of Households, by Level of Agricultural Activity, by Location of Household: 2001 .....	51
1.2	Number of Agriculturally Active Households, by Level of Agricultural Activity, by Location of Household: 2001 .....	52
1.3	Number of Households Owning Api Tukupau by Location of Household: 2001 .....	53
1.4A	Number of Households Owning Api Tukupau, by Present Status of Api Tukupau, by Location of Household: 2001 .....	54
1.4B	Number of Owned Api Tukupau, by Present Status of Api Tukupau, by Location of Household: 2001 .....	55
1.4C	Area of Owned Api Tukupau, by Present Status of Api Tukupau, by Location of Household: 2001 .....	56
1.5	Agriculturally Active Households Population, by Sex and Age Group, by Location of Household: 2001 .....	57
1.6	Agricultural Active Household Members 15 Years Old and Over, by Main Activity and by Sex, by Location of Household: 2001 .....	58
1.7	Number of Employed Household Members 15 Years Old and Over, by Employment Status, by Location of Household: 2001 .....	59
1.8	Number of Employed Household Members 15 Years Old and Over, by Major Industry, by Location of Household: 2001 .....	60
1.9A	Number of Households Keeping Livestock Including Dogs as of the Time of Visit, by Kind of Livestock, by Location of Household: 2001 .....	61
1.9B	Number of Livestock Kept Including Dogs as of the Time of Visit, by Kind of Livestock, by Location of Household: 2001 .....	62
1.9C1	Number of Households Keeping Cattle, by Size of Cattle Holding, by Location of Household: 2001 .....	63
1.9C2	Number of Cattle, by Size of Cattle Holding, by Location of Household: 2001 .....	64
1.9D1	Number of Households Keeping Pigs, by Size of Pig Holding, by Location of Household: 2001 .....	65
1.9D2	Number of Pigs, by Size of Pig Holding, by Location of Household: 2001 .....	66
1.9E1	Number of Households Keeping Horses, by Size of Horse Holding, by Location of Household: 2001 .....	67
1.9E2	Number of Horses, by Size of Horse Holding, by Location of Household: 2001 .....	68
1.9F1	Number of Households Keeping Goats, by Size of Goat Holding, by Location of Household: 2001 .....	69
1.9F2	Number of Goats, by Size of Goat Holding, by Location of Household: 2001 .....	70
1.9G1	Number of Households Keeping Chickens, by Size of Chicken Holding, by Location of Household: 2001 .....	71
1.9G2	Number of Chickens, by Size of Chicken Holding, by Location of Household: 2001 .....	72
1.9H1	Number of Households Keeping Ducks, by Size of Duck Holding, by Location of Household: 2001 .....	73
1.9H2	Number of Ducks, by Size of Duck Holding, by Location of Household: 2001 .....	74
1.9I	Number of Households Disposing Livestock During the Past Twelve Months, by Kind of Livestock, by Location of Household: 2001 .....	75
1.9J1	Number of Livestock Disposed During the Past Twelve Months, by Type of Disposal and by Kind of Livestock, by Location of Household: 2001 .....	76

1.9J2	Number and Total Value of Livestock Sold During the Past Twelve Months, by Kind of Livestock, by Location of household: 2001 .....	77
1.9K	Number of Dogs Kept, by Location of Household: 2001 .....	78
1.10	Number of Households Engaged in Fishing, by Main Purpose of Fishing, by Location of Household: 2001 .....	79
1.11	Number of Households Engaged in Fishing, by Type of Fishing Method, by Location of Household: 2001 .....	80
1.12	Average Number of Trips Made During the Past Week, by Type of Fishing Method, by Location of Household: 2001 .....	81
1.13	Number of Persons Engaged in Fishing During the Past Week, by Type of Fishing Method, by Location of Household: 2001 .....	82
1.14A	Number of Households Engaged in Fisheries, by Location of Household: 2001 .....	83
1.14B	Number of Households Engaged in Fisheries That Owned Boats, by Type of Boat, by Location of Household .....	84
1.14C	Number of Households Engaged in Fisheries That Hired Boats, by Type of Boat, by Location of Household: 2001 .....	85
1.14D	Number of Households Engaged in Fisheries That Borrowed Boats, by Type of Boat, by Location of Household: 2001 .....	86
1.15	Number of Households Selling Fish Caught/Sea Products Collected/ Gathered, by Proportion Sold: 2001 .....	87
1.16	Number of Households Selling Fish Caught/Sea Products Collected/ Gathered, by Location of Household: 2001 .....	88
2.1	Number of Households Deriving Income From Agricultural Activities of the Holding During the Past Twelve Months, by Proportion of Income, by Location of Household: 2001 .....	89
2.2	Number of Holdings In Which Fertilizers and Agricultural Chemicals were Used, by Type of Agricultural Chemicals, by Location of Holdings: 2001 .....	90
2.3A	Number of Households Using and Owning or Hiring or Borrowing Equipment During the Reference Period, by Location of Household: 2001 .....	91
2.3B	Number of Equipment Owned, by Type of Equipment, by Location of Holdings (Division/District): 2001 .....	92
2.4	Number of Households and Household Members Engaged in Handicraft Making During the Reference Period by Location of Household: 2001 .....	93
2.5	Number of Households Taking Raw Materials from Holding for Handicraft Making, During the Reference Period, by Location of Household: 2001 .....	94
2.6	Number of Households Buying Raw Materials for Handicraft Making During the Reference Period, by Location of Household: 2001 .....	95
2.7	Number of Households Selling Handicraft Made During the Reference Period, by Location of Household: 2001 .....	96
2.8	Number of Persons 15 Years Old and Over Engaged in Agricultural Activities of the Holding During the Reference Month Prior to Time of Visit, by Sex and Membership Status, by Location of the Holdings: 2001 .....	97
2.9A	Number of Household Members 15 Years Old and Over Engaged in the Agricultural Activities of the Holdings During the Reference Month Prior to the Time of Visit, by Sex and Age, by Location of Holdings: 2001 .....	98
2.9B	Number of Non-Household Members 15 Years Old and Over Engaged in the Agricultural Activities of the Holdings During the Reference Month Prior to the Time of Visit, by Sex and Age, by Location of Holdings: 2001 .....	99

2.10A	Number of Persons 15 Years Old and Over Engaged in the Agricultural Activities of the Holdings During the Reference Past Week Prior to the Time of Visit, by Sex, Membership Status and Type of Labor, by Location of Holdings: 2001 .....	100
2.10B	Average Hours Worked by Persons 15 Years Old and Over Engaged in the Agricultural Activities of the Holdings During the Reference Past Week Prior to the Time of Visit, by Sex, Membership Status and Type of Labor, by Location of Holding: 2001 .....	101
2.11	Number of Hired Laborers Forming Group Labor During the Reference Month Prior to the Time of Visit, by Sex, by Location of Holdings: 2001 .....	102
2.12	Number of Holdings, by Main Source of Loans Availled for the Agricultural Activities in the Holding, by Location of Holdings: 2001 .....	103
2.13	Number of Holdings Using Crops/Trees/Shrubs for Multi-purposes, by Uses of Crops/Trees/Shrubs, by Location of Holdings (Division/District): 2001 .....	104
2.14	Number and Area of Holdings and Number of Parcels, by Location of Holdings: 2001 .....	105
2.15	Number and Area of Holdings of Agriculturally Active Households, by Location of Holdings: 2001 .....	106
2.16	Number and Area of Holdings, by Method of Operation, by Location of Holdings (Division/District) .....	107
2.17A	Number of Parcels in the Holding, by Size of Parcel, by Location of Parcel: 2001 .....	108
2.17B	Area of Parcels in the Holding, by Size of Parcel, by Location of Parcel: 2001 .....	109
2.18	Number and Area of Parcels in the Holding, by Land Tenure, by Location of Parcel: 2001 .....	110
2.19A	Number of Parcels in the Holding, by Main Land Use, by Location of Parcel: 2001 .....	111
2.19B	Area of Parcels in the Holding, by Main Land Use, by Location of Parcel: 2001 .....	112
3.1A	Number of Separate Plots in the Parcel, by Area and by Location of Parcel: 2001 .....	113
3.1B	Area of Separate Plots in the Parcel, by Area and by Location of Parcel: 2001 .....	114
3.2A	Number of Separate Plots in the Parcel, by Method of Sowing and by Location of Parcel: 2001 .....	115
3.2B	Area of Separate Plots in the Parcel, by Method of Sowing and by Location of Parcel: 2001 .....	116
3.3A	Number of Separate Plots in the Parcel Without Planted Crops, by Location of Parcel: 2001 .....	117
3.3B	Area of Separate Plots in the Parcel Without Planted Crops, by Location of Parcel: 2001 .....	118
3.4	Area Planted to Single Crops, by Type of Crops and by Location of Parcel: 2001 .....	119
3.5	Single Crop Equivalent Area of Crops in Mixed Pattern, by Type of Crops and by Location of Parcel: 2001 .....	120
3.6A	Number of Crops in Scattered Pattern, by Type of Crops and by Location of Parcel: 2001 .....	121
3.6B	Estimated Area of Crops in Scattered Pattern, by Type of Crops and by Location of Parcel: 2001 .....	123
3.7A	Number of Crops Used as Boundary Crops, by Type of Crops and by Location of Parcel: 2001 .....	125
3.7B	Estimated Area of Crops Used as Boundary Crops, by Type of Crops and by Location of Parcel: 2001 .....	126
3.8	Total Area Harvested to Major Crops, by Location of Parcel: 2001 .....	127

**Table 1.1: Number of Households, by Level of Agricultural Activity, by Location of Household: 2001**

Division/District	Total Number of Households	Level of Agricultural Activities				
		Non-Agriculture	Minor-Agriculture	Subsistence Only	Subsistence with Cash Cropping	Commercial Crop Producer
<b>Tonga</b>	<b>15,738</b>	<b>4,797</b>	<b>839</b>	<b>5,964</b>	<b>3,896</b>	<b>242</b>
Tongatapu	10,583	4,080	768	3,880	1,691	164
Kolofo'ou	2,627	1,442	239	675	221	50
Kolomotu'a	2,440	1,170	320	722	201	27
Vaini	1,695	561	74	706	335	19
Tatakamotonga	1,101	254	32	581	222	12
Lapaha	1,111	308	41	504	237	21
Nukunuku	1,005	221	20	439	295	30
Kolovai	604	124	42	253	180	5
Vava'u	2,625	404	38	933	1,210	40
Neiafu	1,013	245	20	335	393	20
Pangaimotu	196	27	5	76	86	2
Hahake	389	51	2	247	80	9
Leimatu'a	449	29	1	64	351	4
Hihifo	385	24	1	126	231	3
Motu	193	28	9	85	69	2
Ha'apai	1,298	202	20	837	236	3
Pangai	476	131	4	269	71	1
Foa	234	28	3	120	82	1
Lulunga	210	12	13	167	17	1
Mu'omu'a	108	13		92	3	
Ha'ano	123	7		82	34	
Uiha	147	11		107	29	
Eua	863	78	11	183	557	34
Eua Motu'a	497	40	3	116	313	25
Eua Fo'ou	366	38	8	67	244	9
Niuas	369	33	2	131	202	1
Niuatoputapu	221	18		95	108	
Niuafu'ou	148	15	2	36	94	1

**Table 1.2: Number of Agriculturally Active Households, by Level of Agricultural Activity, by Location of Household: 2001**

Division/District	Total Number of Agriculturally Active Households	Level of Agricultural Activities		
		Subsistence Only	Subsistence with Cash Cropping	Commercial Crop Producer
<b>Tonga</b>	<b>10,102</b>	<b>5,964</b>	<b>3,896</b>	<b>242</b>
Tongatapu	5,735	3,880	1,691	164
Kolofo'ou	946	675	221	50
Kolomotu'a	950	722	201	27
Vaini	1,060	706	335	19
Tatakamotonga	815	581	222	12
Lapaha	762	504	237	21
Nukunuku	764	439	295	30
Kolovai	438	253	180	5
Vava'u	2,183	933	1,210	40
Neiafu	748	335	393	20
Pangaimotu	164	76	86	2
Hahake	336	247	80	9
Leimatu'a	419	64	351	4
Hihifo	360	126	231	3
Motu	156	85	69	2
Ha'apai	1,076	837	236	3
Pangai	341	269	71	1
Foa	203	120	82	1
Lulunga	185	167	17	1
Mu'omu'a	95	92	3	
Ha'ano	116	82	34	
Uiha	136	107	29	
Eua	774	183	557	34
Eua Motu'a	454	116	313	25
Eua Fo'ou	320	67	244	9
Niuas	334	131	202	1
Niuatoputapu	203	95	108	
Niuafa'ou	131	36	94	1

**Table 1.3: Number of Households Owning Api Tukahau by Location of Household: 2001**

Division/District	Total Number of Households	With Owned Api Tukahau	Without Api Tukahau
<b>Tonga</b>	<b>15,738</b>	<b>6,447</b>	<b>9,291</b>
Tongatapu	10,583	3,838	6,745
Kolofo'ou	2,627	765	1,862
Kolomotu'a	2,440	724	1,716
Vaini	1,695	576	1,119
Tatakamotonga	1,101	556	545
Lapaha	1,111	544	567
Nukunuku	1,005	426	579
Kolovai	604	247	357
Vava'u	2,625	1,318	1,307
Neiafu	1,013	445	568
Pangaimotu	196	101	95
Hahake	389	210	179
Leimatu'a	449	234	215
Hihifo	385	215	170
Motu	193	113	80
Ha'apai	1,298	628	670
Pangai	476	181	295
Foa	234	131	103
Lulunga	210	94	116
Mu'omu'a	108	54	54
Ha'ano	123	81	42
Uiha	147	87	60
Eua	863	485	378
Eua Motu'a	497	282	215
Eua Fo'ou	366	203	163
Niuas	369	178	191
Niuatoputapu	221	91	130
Niuafu'ou	148	87	61

**Table 1.4A: Number of Households Owning Api Tukupau, by Present Status of Api Tukupau, by Location of Household: 2001**

Division/District	Total Households Owning Api Tukupau	Present Status of Api Tukupau					
		Cultivated Under Crops By Owner/ Households	Rented Out To Other Households for Pay	Rented Out To Other Households without Pay	Fallow	Bush/Forest Growth	Other Status
<b>Tonga</b>	<b>6,447</b>	<b>3,695</b>	<b>245</b>	<b>2,102</b>	<b>2,311</b>	<b>689</b>	<b>241</b>
Tongatapu	3,838	1,964	190	1,573	1,138	364	159
Kolofo'ou	765	219	40	378	157	110	42
Kolomotu'a	724	205	30	444	165	93	49
Vaini	576	336	51	219	122	38	25
Tatakamotonga	556	335	7	182	187	53	21
Lapaha	544	396	18	142	269	35	7
Nukunuku	426	300	38	162	109	23	8
Kolovai	247	173	6	46	129	12	7
Vava'u	1,318	886	37	265	545	124	29
Neiafu	445	222	17	119	169	52	13
Pangaimotu	101	76	4	12	34	15	3
Hahake	210	152	3	23	112	16	7
Leimatu'a	234	172	11	82	91	7	4
Hihifo	215	193	2	15	118	4	
Motu	113	71		14	21	30	2
Ha'apai	628	449	10	134	356	49	27
Pangai	181	100	4	57	100	12	16
Foa	131	103	4	24	71	9	5
Lulunga	94	72	1	20	40	6	3
Mu'omu'a	54	44		4	43	4	1
Ha'ano	81	64		15	53	10	2
Uiha	87	66	1	14	49	8	
Eua	485	287	7	100	205	67	25
Eua Motu'a	282	157	5	69	110	43	18
Eua Fo'ou	203	130	2	31	95	24	7
Niuas	178	109	1	30	67	85	1
Niuatoputapu	91	46		26	50	16	1
Niuao'ou	87	63	1	4	17	69	

**Table 1.4B: Number of Owned Api Tukupau, by Present Status of Api Tukupau, by Location of Household: 2001**

Division/District	Total Owned Api Tukupau	Present Status of Api Tukupau					
		Cultivated Under Crops By Owner/ Households	Rented Out To Other Households for Pay	Rented Out To Other Households without Pay	Fallow	Bush/Forest Growth	Other Status
<b>Tonga</b>	<b>6,577</b>	<b>3,734</b>	<b>245</b>	<b>2,124</b>	<b>2,317</b>	<b>701</b>	<b>243</b>
Tongatapu	3,221	1,943	163	1,071	1,076	272	155
Kolofo'ou	67	19	1	19	7	16	26
Kolomotu'a	269	129	15	105	84	32	35
Vaini	775	468	65	269	202	58	37
Tatakamotonga	627	371	18	195	209	68	22
Lapaha	681	423	26	220	295	51	10
Nukunuku	506	345	33	189	143	28	14
Kolovai	296	188	5	74	136	19	11
Vava'u	1,601	897	53	467	575	153	32
Neiafu	244	95	8	80	67	37	13
Pangaimotu	145	87	10	34	46	18	2
Hahake	290	164	2	64	135	32	10
Leimatu'a	342	213	16	129	130	14	5
Hihifo	357	246	11	88	148	11	1
Motu	223	92	6	72	49	41	1
Ha'apai	882	467	18	323	378	85	30
Pangai	216	97	4	84	103	17	18
Foa	182	108	7	60	76	16	5
Lulunga	124	70	1	50	41	9	4
Mu'omu'a	78	44		26	41	6	1
Ha'ano	141	68	3	57	60	18	2
Uiha	141	80	3	46	57	19	
Eua	648	317	10	181	222	107	25
Eua Motu'a	458	216	10	133	154	75	19
Eua Fo'ou	190	101		48	68	32	6
Niuas	225	110	1	82	66	84	1
Niuatoputapu	126	47		59	46	24	1
Niuafa'ou	99	63	1	23	20	60	

**Table 1.4C: Area of Owned Api Tukupau (Acres), by Present Status of Api Tukupau, by Location of Household: 2001**

Division/District	Total Area of Owned Api Tukupau	Present Status of Api Tukupau					
		Cultivated Under Crops By Owner/ Households	Rented Out To Other Households for Pay	Rented Out To Other Households without Pay	Fallow	Bush/Forest Growth	Other Status
<b>Tonga</b>	<b>53,725</b>	<b>31,216</b>	<b>3,769</b>	<b>17,881</b>	<b>18,190</b>	<b>7,316</b>	<b>2,424</b>
Tongatapu	27,108	16,826	2,014	9,080	8,943	2,909	1,685
Kolofo'ou	466	125	8	137	45	145	184
Kolomotu'a	2,276	1,216	148	804	637	261	268
Vaini	6,748	4,263	890	2,529	1,755	454	335
Tatakamotonga	5,048	3,095	451	1,465	1,895	850	185
Lapaha	5,846	3,836	222	1,745	2,331	789	467
Nukunuku	4,462	2,870	257	1,857	1,254	245	109
Kolovai	2,262	1,421	38	544	1,026	165	138
Vava'u	13,520	7,465	543	4,498	4,845	1,316	281
Neiafu	1,802	693	75	613	494	300	99
Pangaimotu	1,227	770	109	338	433	165	24
Hahake	2,277	1,277	9	534	1,035	262	84
Leimatu'a	3,101	2,068	162	1,235	1,167	176	72
Hihifo	2,951	2,002	132	733	1,354	95	0
Motu	2,163	656	56	1,046	363	318	2
Ha'apai	5,982	2,927	151	2,421	2,449	617	231
Pangai	1,646	660	33	758	721	126	140
Foa	1,412	862	71	447	605	134	49
Lulunga	654	321	8	300	184	55	27
Mu'omu'a	549	298		204	285	44	8
Ha'ano	846	342	20	380	332	122	8
Uiha	876	446	20	332	323	137	
Eua	5,399	3,133	1,054	1,278	1,447	1,821	224
Eua Motu'a	4,189	2,497	1,054	964	1,035	1,589	180
Eua Fo'ou	1,210	636		314	412	232	44
Niuas	1,717	865	8	605	506	653	4
Niuatoputapu	959	363		449	350	181	4
Niuafu'ou	758	502	8	156	156	472	

**Table 1.5: Agriculturally Active Households Population, by Sex and Age Group, by Location of Household: 2001**

Division/District	All Household Members			Under 15 Years Old			15 to 59 Years Old			60 Years Old and Over		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
<b>Tonga</b>	<b>61,186</b>	<b>31,774</b>	<b>29,412</b>	<b>22,430</b>	<b>11,927</b>	<b>10,503</b>	<b>33,401</b>	<b>16,881</b>	<b>16,520</b>	<b>5,355</b>	<b>2,966</b>	<b>2,389</b>
Tongatapu	36,040	18,693	17,347	12,791	6,791	6,000	20,158	10,200	9,958	3,091	1,702	1,389
Kolofo'ou	6,369	3,254	3,115	2,183	1,115	1,068	3,670	1,851	1,819	516	288	228
Kolomotu'a	6,141	3,225	2,916	2,077	1,122	955	3,556	1,829	1,727	508	274	234
Vaini	6,804	3,490	3,314	2,509	1,333	1,176	3,709	1,840	1,869	586	317	269
Tatakamotonga	4,815	2,530	2,285	1,768	950	818	2,593	1,329	1,264	454	251	203
Lapaha	4,622	2,413	2,209	1,682	912	770	2,514	1,258	1,256	426	243	183
Nukunuku	4,594	2,397	2,197	1,663	881	782	2,572	1,318	1,254	359	198	161
Kolovai	2,695	1,384	1,311	909	478	431	1,544	775	769	242	131	111
Vava'u	12,695	6,584	6,111	4,822	2,552	2,270	6,756	3,411	3,345	1,117	621	496
Neiafu	4,377	2,228	2,149	1,634	829	805	2,359	1,198	1,161	384	201	183
Pangaimotu	1,042	542	500	437	245	192	529	257	272	76	40	36
Hahake	1,988	1,018	970	796	418	378	992	478	514	200	122	78
Leimatu'a	2,415	1,271	1,144	869	465	404	1,358	698	660	188	108	80
Hihifo	2,081	1,119	962	794	444	350	1,118	578	540	169	97	72
Motu	792	406	386	292	151	141	400	202	198	100	53	47
Ha'apai	6,119	3,155	2,964	2,374	1,281	1,093	3,121	1,536	1,585	624	338	286
Pangai	2,099	1,102	997	826	469	357	1,074	533	541	199	100	99
Foa	1,186	597	589	491	241	250	586	292	294	109	64	45
Lulunga	1,019	522	497	391	205	186	526	262	264	102	55	47
Mu'omu'a	519	266	253	202	105	97	258	124	134	59	37	22
Ha'ano	567	283	284	195	105	90	301	141	160	71	37	34
Uiha	729	385	344	269	156	113	376	184	192	84	45	39
Eua	4,572	2,390	2,182	1,708	896	812	2,486	1,280	1,206	378	214	164
Eua Motu'a	2,603	1,375	1,228	959	507	452	1,438	747	691	206	121	85
Eua Fo'ou	1,969	1,015	954	749	389	360	1,048	533	515	172	93	79
Niuas	1,760	952	808	735	407	328	880	454	426	145	91	54
Niuaotoputapu	1,076	572	504	435	246	189	546	270	276	95	56	39
Niuafo'ou	684	380	304	300	161	139	334	184	150	50	35	15

**Table 1.6: Agricultural Active Households Members 15 Years Old and Over, by Main Activity and by Sex, by Location of Household: 2001**

Division/District	Total Household Members			Employed			Unemployed			Not Active		
	Both Sexes	Male	Female	Both Sexes	Male	Female	Both Sexes	Male	Female	Both Sexes	Male	Female
<b>Tonga</b>	<b>38,756</b>	<b>19,847</b>	<b>18,909</b>	<b>24,191</b>	<b>14,595</b>	<b>9,596</b>	<b>4,920</b>	<b>1,591</b>	<b>3,329</b>	<b>9,645</b>	<b>3,661</b>	<b>5,984</b>
Tongatapu	23,249	11,902	11,347	13,605	8,605	5,000	3,373	1,028	2,345	6,271	2,269	4,002
Kolofo'ou	4,186	2,139	2,047	2,487	1,550	937	619	189	430	1,080	400	680
Kolomotu'a	4,064	2,103	1,961	2,390	1,559	831	518	149	369	1,156	395	761
Vaini	4,295	2,157	2,138	2,364	1,526	838	527	138	389	1,404	493	911
Tatakamotonga	3,047	1,580	1,467	1,714	1,147	567	620	181	439	713	252	461
Lapaha	2,940	1,501	1,439	1,756	1,031	725	506	173	333	678	297	381
Nukunuku	2,931	1,516	1,415	1,813	1,148	665	297	80	217	821	288	533
Kolovai	1,786	906	880	1,081	644	437	286	118	168	419	144	275
Vava'u	7,873	4,032	3,841	5,031	2,935	2,096	827	322	505	2,015	775	1,240
Neiafu	2,743	1,399	1,344	1,674	977	697	183	68	115	886	354	532
Pangaimotu	605	297	308	392	213	179	97	37	60	116	47	69
Hahake	1,192	600	592	768	438	330	116	49	67	308	113	195
Leimatu'a	1,546	806	740	1,036	622	414	73	28	45	437	156	281
Hihifo	1,287	675	612	763	473	290	347	135	212	177	67	110
Motu	500	255	245	398	212	186	11	5	6	91	38	53
Ha'apai	3,745	1,874	1,871	2,883	1,475	1,408	233	91	142	629	308	321
Pangai	1,273	633	640	947	479	468	64	25	39	262	129	133
Foa	695	356	339	516	275	241	44	16	28	135	65	70
Lulunga	628	317	311	525	273	252	40	14	26	63	30	33
Mu'omu'a	317	161	156	237	125	112	35	13	22	45	23	22
Ha'ano	372	178	194	298	143	155	20	6	14	54	29	25
Uiha	460	229	231	360	180	180	30	17	13	70	32	38
Eua	2,864	1,494	1,370	1,916	1,159	757	385	115	270	563	220	343
Eua Motu'a	1,644	868	776	1,085	676	409	224	59	165	335	133	202
Eua Fo'ou	1,220	626	594	831	483	348	161	56	105	228	87	141
Niuas	1,025	545	480	756	421	335	102	35	67	167	89	78
Niuatoputapu	641	326	315	466	247	219	46	13	33	129	66	63
Niuafu'ou	384	219	165	290	174	116	56	22	34	38	23	15

**Table 1.7: Number of Employed Household Members 15 Years Old and Over, by Employment Status, by Location of Household: 2001**

Division/District	Total Employed			Own-Account			Employer			Gov't Employee			Quasi-Gov. Employee			Employee Private			Unpaid Worker			Other Workers		
	Both Sexes	Male	Female	Both Sexes	Male	Female	Both Sexes	Male	Female	Both Sexes	Male	Female	Both Sexes	Male	Female	Both Sexes	Male	Female	Both Sexes	Male	Female	Both Sexes	Male	Female
<b>Tonga</b>	<b>24,191</b>	<b>14,595</b>	<b>9,596</b>	<b>15,058</b>	<b>8,791</b>	<b>6,267</b>	<b>248</b>	<b>166</b>	<b>82</b>	<b>3,099</b>	<b>1,929</b>	<b>1,170</b>	<b>668</b>	<b>431</b>	<b>237</b>	<b>4,125</b>	<b>2,675</b>	<b>1,450</b>	<b>957</b>	<b>579</b>	<b>378</b>	<b>36</b>	<b>24</b>	<b>12</b>
Tongatapu	13,605	8,605	5,000	7,367	4,688	2,679	101	66	35	2,099	1,289	810	444	274	170	3,067	1,931	1,136	499	340	159	28	17	11
Kolofo'ou	2,487	1,550	937	955	595	360	33	27	6	490	303	187	140	78	62	771	469	302	90	72	18	8	6	2
Kolomotu'a	2,390	1,559	831	840	548	292	18	14	4	568	348	220	116	70	46	683	438	245	161	139	22	4	2	2
Vaini	2,364	1,526	838	1,293	830	463	10	7	3	347	218	129	79	53	26	573	367	206	53	45	8	9	6	3
Tatakamotonga	1,714	1,147	567	1,109	729	380	12	3	9	231	155	76	32	23	9	301	218	83	28	19	9	1		1
Lapaha	1,756	1,031	725	1,329	774	555	4	2	2	171	85	86	28	23	5	212	141	71	11	6	5	1		1
Nukunuku	1,813	1,148	665	1,138	747	391	10	8	2	193	118	75	28	16	12	362	211	151	81	48	33	1		1
Kolovai	1,081	644	437	703	465	238	14	5	9	99	62	37	21	11	10	165	87	78	75	11	64	4	3	1
Vava'u	5,031	2,935	2,096	3,361	1,952	1,409	112	78	34	480	283	197	103	65	38	667	435	232	306	120	186	2		2
Neiafu	1,674	977	697	833	474	359	40	27	13	284	169	115	70	48	22	377	240	137	69	18	51	1		1
Pangaimotu	392	213	179	222	123	99	20	10	10	21	17	4	5	4	1	71	43	28	52	15	37	1		1
Hahake	768	438	330	581	308	273	10	9	1	49	27	22	11	6	5	100	77	23	17	11	6			
Leimatu'a	1,036	622	414	813	468	345	11	7	4	70	43	27	14	6	8	80	58	22	48	40	8			
Hihifo	763	473	290	666	420	246	27	22	5	43	21	22	2	1	1	23	8	15	2	1	1			
Motu	398	212	186	246	159	87	4	3	1	13	6	7	1		1	16	9	7	118	35	83			
Ha'apai	2,883	1,475	1,408	2,289	1,032	1,257	20	18	2	239	167	72	58	42	16	248	195	53	27	20	7	2	1	1
Pangai	947	479	468	591	217	374	13	11	2	167	120	47	42	31	11	127	98	29	6	2	4	1		1
Foa	516	275	241	407	194	213	4	4		22	13	9	11	9	2	67	52	15	5	3	2			
Lulunga	525	273	252	485	243	242	1	1		18	12	6	2		2	15	13	2	3	3		1	1	
Mu'omu'a	237	125	112	214	108	106	2	2		8	6	2				11	7	4	2	2				
Ha'ano	298	143	155	255	106	149				15	12	3	2	2		15	13	2	11	10	1			
Uiha	360	180	180	337	164	173				9	4	5	1		1	13	12	1						
Eua	1,916	1,159	757	1,439	810	629	8	3	5	199	126	73	42	35	7	127	100	27	98	82	16	3	3	
Eua Motu'a	1,085	676	409	820	481	339	4	2	2	97	62	35	33	27	6	81	61	20	48	41	7	2	2	
Eua Fo'ou	831	483	348	619	329	290	4	1	3	102	64	38	9	8	1	46	39	7	50	41	9	1	1	
Niuas	756	421	335	602	309	293	7	1	6	82	64	18	21	15	6	16	14	2	27	17	10	1	1	
Niuaotupu	466	247	219	380	193	187	7	1	6	41	28	13	10	6	4	4	3	1	23	15	8	1	1	
Niuafo'ou	290	174	116	222	116	106				41	36	5	11	9	2	12	11	1	4	2	2			

**Table 1.8: Number of Employed Household Members 15 Years Old and Over, by Major Industry, by Location of Household: 2001**

Division/District	Total Employed Household Members			Agriculture, Fishery, Hunting and Forestry			Other Industries			Services			Others NEC		
	Both Sexes	Male	Female	Both Sexes	Male	Female	Both Sexes	Male	Female	Both Sexes	Male	Female	Both Sexes	Male	Female
<b>Tonga</b>	<b>24,191</b>	<b>14,595</b>	<b>9,596</b>	<b>9,539</b>	<b>9,206</b>	<b>333</b>	<b>7,228</b>	<b>1,186</b>	<b>6,042</b>	<b>7,361</b>	<b>4,170</b>	<b>3,191</b>	<b>63</b>	<b>33</b>	<b>30</b>
Tongatapu	13,605	8,605	5,000	5,175	4,962	213	3,278	767	2,511	5,103	2,850	2,253	49	26	23
Kolofo'ou	2,487	1,550	937	680	644	36	506	192	314	1,291	708	583	10	6	4
Kolomotu'a	2,390	1,559	831	695	663	32	404	143	261	1,277	744	533	14	9	5
Vaini	2,364	1,526	838	941	892	49	549	159	390	867	471	396	7	4	3
Tatakamotonga	1,714	1,147	567	771	743	28	431	83	348	511	320	191	1	1	
Lapaha	1,756	1,031	725	805	778	27	592	59	533	358	194	164	1		1
Nukunuku	1,813	1,148	665	810	785	25	477	93	384	514	266	248	12	4	8
Kolovai	1,081	644	437	473	457	16	319	38	281	285	147	138	4	2	2
Vava'u	5,031	2,935	2,096	2,092	2,021	71	1,653	244	1,409	1,274	665	609	12	5	7
Neiafu	1,674	977	697	491	469	22	503	137	366	671	369	302	9	2	7
Pangaimotu	392	213	179	146	138	8	119	21	98	126	53	73	1	1	
Hahake	768	438	330	320	305	15	292	51	241	156	82	74			
Leimatu'a	1,036	622	414	515	502	13	356	20	336	164	99	65	1	1	
Hihifo	763	473	290	429	421	8	220	8	212	113	43	70	1	1	
Motu	398	212	186	191	186	5	163	7	156	44	19	25			
Ha'apai	2,883	1,475	1,408	1,034	1,010	24	1,339	116	1,223	510	349	161			
Pangai	947	479	468	210	204	6	431	71	360	306	204	102			
Foa	516	275	241	193	188	5	242	33	209	81	54	27			
Lulunga	525	273	252	243	235	8	241	7	234	41	31	10			
Mu'omu'a	237	125	112	109	109		107	1	106	21	15	6			
Ha'ano	298	143	155	115	112	3	148	3	145	35	28	7			
Uiha	360	180	180	164	162	2	170	1	169	26	17	9			
Eua	1,916	1,159	757	907	888	19	651	51	600	356	218	138	2	2	
Eua Motu'a	1,085	676	409	529	519	10	349	31	318	206	125	81	1	1	
Eua Fo'ou	831	483	348	378	369	9	302	20	282	150	93	57	1	1	
Niuas	756	421	335	331	325	6	307	8	299	118	88	30			
Niuatoputapu	466	247	219	209	205	4	198	4	194	59	38	21			
Niuafu'ou	290	174	116	122	120	2	109	4	105	59	50	9			

**Table 1.9A: Number of Households Keeping Livestock Including Dogs as of the Time of Visit, by Kind of Livestock, by Location of Household: 2001**

Division/District	Total Number of Households Keeping Livestock	Kind of Livestock					
		Cattle	Pig	Horse	Goat	Chicken	Duck
<b>Tonga</b>	<b>12,585</b>	<b>2,311</b>	<b>11,594</b>	<b>1,640</b>	<b>805</b>	<b>7,729</b>	<b>126</b>
Tongatapu	7,893	1,225	7,152	439	300	4,316	88
Kolofo'ou	1,734	208	1,537	54	53	859	27
Kolomotu'a	1,683	187	1,489	42	57	917	12
Vaini	1,239	178	1,072	66	47	713	21
Tatakamotonga	954	264	898	86	49	619	9
Lapaha	962	154	912	102	31	514	11
Nukunuku	811	127	760	46	37	408	5
Kolovai	510	107	484	43	26	286	3
Vava'u	2,356	653	2,204	476	137	1,704	14
Neiafu	874	282	797	95	52	581	9
Pangaimotu	171	63	162	51	11	127	
Hahake	370	117	359	90	29	280	2
Leimatu'a	416	95	389	84	9	308	1
Hihifo	354	66	335	105	14	284	1
Motu	171	30	162	51	22	124	1
Ha'apai	1,204	151	1,158	312	233	915	7
Pangai	423	93	400	121	65	292	6
Foa	227	41	222	71	48	183	
Lulunga	196	4	193	11	25	149	
Mu'omu'a	101	6	97	37	15	86	
Ha'ano	118	2	113	50	49	97	1
Uiha	139	5	133	22	31	108	
Eua	789	259	751	264	103	497	11
Eua Motu'a	452	136	425	151	66	266	3
Eua Fo'ou	337	123	326	113	37	231	8
Niuas	343	23	329	149	32	297	6
Niuatoputapu	209	1	202	87	20	184	3
Niuafa'ou	134	22	127	62	12	113	3

**Table 1.9B: Number of Livestock Kept Including Dogs as of the Time of Visit, by Kind of Livestock, by Location of Household: 2001**

Division/District	Cattle				Pig					Horse			Goat			CHICKEN	DUCK
	Total	Calves (under 3 yrs)	Male Adult	Female Adult	Total	Boar	Sow	Weaner	Fattener	Total	Male Horse	Female Horse	Total	Male Goat	Female Goat		
<b>Tonga</b>	<b>10,354</b>	<b>2,435</b>	<b>2,305</b>	<b>5,614</b>	<b>113,580</b>	<b>4,004</b>	<b>27,532</b>	<b>69,738</b>	<b>12,306</b>	<b>3,255</b>	<b>827</b>	<b>2,428</b>	<b>2,741</b>	<b>835</b>	<b>1,906</b>	<b>177,829</b>	<b>1,119</b>
Tongatapu	5,736	1,315	1,361	3,060	59,261	1,935	14,618	36,180	6,528	896	248	648	988	320	668	105,871	817
Kolofo'ou	1,421	413	308	700	10,205	458	2,288	5,712	1,747	161	48	113	148	51	97	17,330	174
Kolomotu'a	750	162	174	414	10,043	326	3,061	5,376	1,280	86	27	59	137	64	73	24,014	150
Vaini	730	168	187	375	8,256	220	2,014	5,077	945	129	45	84	229	47	182	23,628	254
Tatakamotonga	1,206	275	242	689	8,129	255	1,962	5,163	749	147	26	121	157	45	112	13,330	131
Lapaha	765	149	200	416	10,065	179	2,297	6,782	807	202	49	153	114	43	71	9,590	58
Nukunuku	457	87	122	248	7,288	265	1,766	4,576	681	89	26	63	87	31	56	12,357	14
Kolovai	407	61	128	218	5,275	232	1,230	3,494	319	82	27	55	116	39	77	5,622	36
Vava'u	2,744	691	581	1,472	24,549	354	5,715	16,333	2,147	865	213	652	528	174	354	36,308	124
Neiafu	1,180	327	266	587	8,238	117	1,874	5,406	841	176	48	128	210	76	134	14,154	54
Pangaimotu	256	57	60	139	1,847	28	401	1,239	179	96	21	75	24	9	15	2,305	
Hahake	483	132	113	238	4,701	99	1,095	3,155	352	158	42	116	108	44	64	6,172	66
Leimatu'a	519	117	79	323	3,900	26	978	2,640	256	168	27	141	40	6	34	5,850	2
Hihifo	215	42	32	141	3,647	40	832	2,460	315	192	57	135	52	14	38	5,282	1
Motu	91	16	31	44	2,216	44	535	1,433	204	75	18	57	94	25	69	2,545	1
Ha'apai	609	144	101	364	16,184	1,114	3,584	9,572	1,914	684	162	522	726	211	515	20,363	53
Pangai	383	98	54	231	5,522	329	1,206	3,344	643	271	54	217	157	42	115	6,647	40
Foa	180	41	30	109	3,497	447	760	1,936	354	155	40	115	180	55	125	4,417	
Lulunga	11		2	9	2,189	60	526	1,233	370	15	3	12	67	24	43	2,836	
Mu'omu'a	12	1	5	6	1,162	37	250	747	128	79	23	56	56	16	40	1,272	
Ha'ano	6	1		5	1,863	115	408	1,150	190	131	35	96	149	44	105	2,370	13
Uiha	17	3	10	4	1,951	126	434	1,162	229	33	7	26	117	30	87	2,821	
Eua	1,204	270	244	690	9,509	491	2,502	5,243	1,273	544	114	430	420	115	305	7,723	39
Eua Motu'a	665	174	132	359	5,328	266	1,362	3,045	655	295	57	238	260	72	188	4,100	22
Eua Fo'ou	539	96	112	331	4,181	225	1,140	2,198	618	249	57	192	160	43	117	3,623	17
Niuas	61	15	18	28	4,077	110	1,113	2,410	444	266	90	176	79	15	64	7,564	86
Niuatoputapu	1	1			2,224	88	585	1,230	321	128	41	87	49	6	43	5,081	79
Niuafu'ou	60	14	18	28	1,853	22	528	1,180	123	138	49	89	30	9	21	2,483	7

**Table 1.9C1: Number of Households Keeping Cattle, by Size of Cattle Holding, by Location of Household: 2001**

Division/District	Total Number of Households Keeping Cattle	Size of Cattle Holding				
		Less than 5 cattle	5 - 9 cattle	10 - 19 cattle	20 -49 cattle	50 cattle and over
<b>Tonga</b>	<b>2,311</b>	<b>1,630</b>	<b>485</b>	<b>148</b>	<b>41</b>	<b>7</b>
Tongatapu	1,225	858	248	89	25	5
Kolofo'ou	208	145	30	19	11	3
Kolomotu'a	187	148	30	6	2	1
Vaini	178	128	31	17	2	
Tatakamotonga	264	167	68	25	4	
Lapaha	154	94	46	11	2	1
Nukunuku	127	98	21	6	2	
Kolovai	107	78	22	5	2	
Vava'u	653	454	156	35	7	1
Neiafu	282	187	76	18	1	
Pangaimotu	63	40	20	3		
Hahake	117	88	20	6	3	
Leimatu'a	95	67	19	5	3	1
Hihifo	66	48	16	2		
Motu	30	24	5	1		
Ha'apai	151	110	34	5	2	
Pangai	93	65	25	1	2	
Foa	41	31	6	4		
Lulunga	4	3	1			
Mu'omu'a	6	6				
Ha'ano	2	2				
Uiha	5	3	2			
Eua	259	189	43	19	7	1
Eua Motu'a	136	104	14	12	5	1
Eua Fo'ou	123	85	29	7	2	
Niuas	23	19	4			
Niuatoputapu	1	1				
Niuafa'ou	22	18	4			

**Table 1.9C2: Number of Cattle, by Size of Cattle Holding, by Location of Household: 2001**

Division/District	Total Number of Cattle	Size of Cattle Holding				
		Less than 5 cattle	5 - 9 cattle	10 - 19 cattle	20 -49 cattle	50 cattle and over
<b>Tonga</b>	<b>10,354</b>	<b>3,558</b>	<b>3,089</b>	<b>1,936</b>	<b>1,142</b>	<b>629</b>
Tongatapu	5,736	1,871	1,570	1,145	653	497
Kolofu'ou	1,421	320	193	243	302	363
Kolomotu'a	750	332	193	77	64	84
Vaini	730	261	201	222	46	
Tatakamotonga	1,206	370	439	309	88	
Lapaha	765	218	289	156	52	50
Nukunuku	457	206	126	77	48	
Kolovai	407	164	129	61	53	
Vava'u	2,744	980	995	462	227	80
Neiafu	1,180	431	491	229	29	
Pangaimotu	256	76	133	47		
Hahake	483	177	131	74	101	
Leimatu'a	519	146	118	78	97	80
Hihifo	215	101	92	22		
Motu	91	49	30	12		
Ha'apai	609	257	222	80	50	
Pangai	383	155	164	14	50	
Foa	180	76	38	66		
Lulunga	11	3	8			
Mu'omu'a	12	12				
Ha'ano	6	6				
Uiha	17	5	12			
Eua	1,204	415	276	249	212	52
Eua Motu'a	665	219	89	158	147	52
Eua Fo'ou	539	196	187	91	65	
Niuas	61	35	26			
Niuatoputapu	1	1				
Niuafu'ou	60	34	26			

**Table 1.9D1: Number of Households Keeping Pigs, by Size of Pig Holding, by Location of Household: 2001**

Division/District	Total Number of Households Keeping Pigs	Size of Pig Holding				
		Less than 5 pigs	5 - 9 pigs	10 - 19 pigs	20 - 49 pigs	50 pigs and over
<b>Tonga</b>	<b>11,594</b>	<b>4,180</b>	<b>3,025</b>	<b>3,026</b>	<b>1,268</b>	<b>95</b>
Tongatapu	7,152	3,043	1,872	1,638	568	31
Kolofo'ou	1,537	815	377	267	74	4
Kolomotu'a	1,489	727	415	279	66	2
Vaini	1,072	487	288	219	73	5
Tatakamotonga	898	328	228	254	87	1
Lapaha	912	271	228	276	131	6
Nukunuku	760	285	195	191	80	9
Kolovai	484	130	141	152	57	4
Vava'u	2,204	636	587	641	318	22
Neiafu	797	230	230	228	105	4
Pangaimotu	162	36	44	55	27	
Hahake	359	83	94	111	64	7
Leimatu'a	389	142	96	100	47	4
Hihifo	335	105	83	99	45	3
Motu	162	40	40	48	30	4
Ha'apai	1,158	238	295	390	209	26
Pangai	400	86	118	126	60	10
Foa	222	35	56	79	44	8
Lulunga	193	46	53	64	29	1
Mu'omu'a	97	28	20	34	14	1
Ha'ano	113	20	19	39	32	3
Uiha	133	23	29	48	30	3
Eua	751	185	183	241	131	11
Eua Motu'a	425	120	94	133	72	6
Eua Fo'ou	326	65	89	108	59	5
Niuas	329	78	88	116	42	5
Niuatoputapu	202	42	60	75	24	1
Niuafu'ou	127	36	28	41	18	4

**Table 1.9D2: Number of Pigs, by Size of Pig Holding, by Location of Household: 2001**

Division/District	Total Number of Pigs	Size of Pig Holding				
		Less than 5 pigs	5 - 9 pigs	10 - 19 pigs	20 - 49 pigs	50 pigs and over
<b>Tonga</b>	<b>113,580</b>	<b>9,217</b>	<b>20,805</b>	<b>40,700</b>	<b>35,290</b>	<b>7,568</b>
Tongatapu	59,261	6,568	12,790	21,814	15,601	2,488
Kolofo'ou	10,205	1,689	2,583	3,522	2,006	405
Kolomotu'a	10,043	1,538	2,777	3,683	1,788	257
Vaini	8,256	1,066	1,980	2,832	1,964	414
Tatakamotonga	8,129	745	1,576	3,422	2,334	52
Lapaha	10,065	610	1,559	3,777	3,650	469
Nukunuku	7,288	607	1,353	2,493	2,237	598
Kolovai	5,275	313	962	2,085	1,622	293
Vava'u	24,549	1,412	4,035	8,660	8,986	1,456
Neiafu	8,238	531	1,543	3,048	2,830	286
Pangaimotu	1,847	79	295	738	735	
Hahake	4,701	179	655	1,560	1,875	432
Leimatu'a	3,900	304	677	1,355	1,338	226
Hihifo	3,647	226	591	1,319	1,324	187
Motu	2,216	93	274	640	884	325
Ha'apai	16,184	589	2,086	5,401	5,930	2,178
Pangai	5,522	211	831	1,721	1,698	1,061
Foa	3,497	85	405	1,110	1,289	608
Lulunga	2,189	117	363	839	810	60
Mu'omu'a	1,162	74	133	494	409	52
Ha'ano	1,863	45	142	563	913	200
Uiha	1,951	57	212	674	811	197
Eua	9,509	465	1,268	3,244	3,653	879
Eua Motu'a	5,328	299	656	1,795	2,012	566
Eua Fo'ou	4,181	166	612	1,449	1,641	313
Niuas	4,077	183	626	1,581	1,120	567
Niuatoputapu	2,224	97	422	1,020	634	51
Niuafu'ou	1,853	86	204	561	486	516

**Table 1.9E1: Number of Households Keeping Horses, by Size of Horse Holding, by Location of Household: 2001**

Division/District	Total Number of Households Keeping Horses	Size of Horse Holding			
		Less than 5 horses	5 - 9 horses	10 - 19 horses	20 - 49 horses
<b>Tonga</b>	<b>1,640</b>	<b>1,552</b>	<b>79</b>	<b>8</b>	<b>1</b>
Tongatapu	439	411	23	4	1
Kolofo'ou	54	47	2	4	1
Kolomotu'a	42	40	2		
Vaini	66	63	3		
Tatakamotonga	86	83	3		
Lapaha	102	94	8		
Nukunuku	46	44	2		
Kolovai	43	40	3		
Vava'u	476	453	23		
Neiafu	95	90	5		
Pangaimotu	51	50	1		
Hahake	90	88	2		
Leimatu'a	84	76	8		
Hihifo	105	100	5		
Motu	51	49	2		
Ha'apai	312	292	18	2	
Pangai	121	115	4	2	
Foa	71	66	5		
Lulunga	11	11			
Mu'omu'a	37	34	3		
Ha'ano	50	44	6		
Uiha	22	22			
Eua	264	252	10	2	
Eua Motu'a	151	145	5	1	
Eua Fo'ou	113	107	5	1	
Niuas	149	144	5		
Niuatoputapu	87	87			
Niuafa'ou	62	57	5		

**Table 1.9E2: Number of Horses, by Size of Horse Holding, by Location of Household: 2001**

Division/District	Total Number of Horses	Size of Horse Holding			
		Less than 5 horses	5 - 9 horses	10 - 19 horses	20 - 49 horses
<b>Tonga</b>	<b>3,255</b>	<b>2,659</b>	<b>471</b>	<b>105</b>	<b>20</b>
Tongatapu	896	667	155	54	20
Kolofo'ou	161	73	14	54	20
Kolomotu'a	86	75	11		
Vaini	129	106	23		
Tatakamotonga	147	130	17		
Lapaha	202	145	57		
Nukunuku	89	74	15		
Kolovai	82	64	18		
Vava'u	865	738	127		
Neiafu	176	151	25		
Pangaimotu	96	90	6		
Hahake	158	148	10		
Leimatu'a	168	120	48		
Hihifo	192	164	28		
Motu	75	65	10		
Ha'apai	684	557	104	23	
Pangai	271	224	24	23	
Foa	155	124	31		
Lulunga	15	15			
Mu'omu'a	79	62	17		
Ha'ano	131	99	32		
Uiha	33	33			
Eua	544	456	60	28	
Eua Motu'a	295	253	29	13	
Eua Fo'ou	249	203	31	15	
Niuas	266	241	25		
Niuatoputapu	128	128			
Niuafu'ou	138	113	25		

**Table 1.9F1: Number of Households Keeping Goats, by Size of Goat Holding, by Location of Household: 2001**

Division/District	Total Number of Households Keeping Goats	Size of Goat Holding				
		Less than 5 goats	5 - 9 goats	10 - 19 goats	20 - 49 goats	50 goats and over
<b>Tonga</b>	<b>805</b>	<b>642</b>	<b>115</b>	<b>38</b>	<b>9</b>	<b>1</b>
Tongatapu	300	241	43	11	4	1
Kolofo'ou	53	46	5	2		
Kolomotu'a	57	51	3	3		
Vaini	47	35	8	1	2	1
Tatakamotonga	49	37	9	3		
Lapaha	31	22	8		1	
Nukunuku	37	32	5			
Kolovai	26	18	5	2	1	
Vava'u	137	108	18	8	3	
Neiafu	52	41	6	4	1	
Pangaimotu	11	10		1		
Hahake	29	24	3	1	1	
Leimatu'a	9	6	2	1		
Hihifo	14	10	4			
Motu	22	17	3	1	1	
Ha'apai	233	194	30	8	1	
Pangai	65	59	6			
Foa	48	36	10	1	1	
Lulunga	25	22	2	1		
Mu'omu'a	15	11	2	2		
Ha'ano	49	43	5	1		
Uiha	31	23	5	3		
Eua	103	72	20	10	1	
Eua Motu'a	66	48	12	5	1	
Eua Fo'ou	37	24	8	5		
Niuas	32	27	4	1		
Niuatoputapu	20	16	4			
Niuafu'ou	12	11		1		

**Table 1.9F2: Number of Goats, by Size of Goat Holding, by Location of Household: 2001**

Division/District	Total Number of Goats	Size of Goat Holding				
		Less than 5 goats	5 - 9 goats	10 - 19 goats	20 - 49 goats	50 goats and over
<b>Tonga</b>	<b>2,741</b>	<b>1,257</b>	<b>712</b>	<b>493</b>	<b>229</b>	<b>50</b>
Tongatapu	988	437	272	144	85	50
Kolofou'ou	148	90	32	26		
Kolomotu'a	137	84	19	34		
Vaini	229	68	51	15	45	50
Tatakamotonga	157	71	53	33		
Lapaha	114	40	54		20	
Nukunuku	87	55	32			
Kolovai	116	29	31	36	20	
Vava'u	528	223	109	106	90	
Neiafu	210	85	36	49	40	
Pangaimotu	24	14		10		
Hahake	108	52	20	16	20	
Leimatu'a	40	9	12	19		
Hihifo	52	29	23			
Motu	94	34	18	12	30	
Ha'apai	726	410	184	108	24	
Pangai	157	119	38			
Foa	180	82	64	10	24	
Lulunga	67	46	11	10		
Mu'omu'a	56	19	12	25		
Ha'ano	149	103	30	16		
Uiha	117	41	29	47		
Eua	420	139	126	125	30	
Eua Motu'a	260	92	75	63	30	
Eua Fo'ou	160	47	51	62		
Niuas	79	48	21	10		
Niuatoputapu	49	28	21			
Niuafu'ou	30	20		10		

**Table 1.9G1: Number of Households Keeping Chicken, by Size of Chicken Holding, by Location of Household: 2001**

Division/District	Total Number of Households Keeping Chicken	Size of Chicken Holding				
		Less than 5 chicken	5 - 9 chicken	10 - 19 chicken	20 - 49 chicken	50 chicken and over
<b>Tonga</b>	<b>7,729</b>	<b>922</b>	<b>1,183</b>	<b>2,186</b>	<b>2,733</b>	<b>705</b>
Tongatapu	4,316	506	644	1,249	1,524	393
Kolofo'ou	859	112	129	249	303	66
Kolomotu'a	917	95	145	283	307	87
Vaini	713	80	84	197	262	90
Tatakamotonga	619	55	93	173	246	52
Lapaha	514	78	93	141	165	37
Nukunuku	408	49	59	123	142	35
Kolovai	286	37	41	83	99	26
Vava'u	1,704	192	270	488	618	136
Neiafu	581	58	83	159	221	60
Pangaimotu	127	11	28	43	39	6
Hahake	280	36	39	71	105	29
Leimatu'a	308	46	45	85	115	17
Hihifo	284	30	53	90	95	16
Motu	124	11	22	40	43	8
Ha'apai	915	103	132	218	362	100
Pangai	292	34	37	56	139	26
Foa	183	20	23	46	65	29
Lulunga	149	22	27	45	43	12
Mu'omu'a	86	14	21	26	21	4
Ha'ano	97	10	10	19	45	13
Uiha	108	3	14	26	49	16
Eua	497	94	95	154	132	22
Eua Motu'a	266	53	43	85	72	13
Eua Fo'ou	231	41	52	69	60	9
Niuas	297	27	42	77	97	54
Niuatoputapu	184	15	22	44	62	41
Niuafu'ou	113	12	20	33	35	13

**Table 1.9G2: Number of Chicken, by Size of Chicken Holding, by Location of Household: 2001**

Division/District	Total Number of Chicken	Size of Chicken Holding				
		Less than 5 chicken	5 - 9 chicken	10 - 19 chicken	20 - 49 chicken	50 chicken and over
<b>Tonga</b>	<b>177,829</b>	<b>2,353</b>	<b>7,687</b>	<b>28,099</b>	<b>75,121</b>	<b>64,569</b>
Tongatapu	105,871	1,281	4,155	15,911	41,468	43,056
Kolofo'ou	17,330	275	839	3,322	8,303	4,591
Kolomotu'a	24,014	247	924	3,467	8,250	11,126
Vaini	23,628	186	554	2,591	7,234	13,063
Tatakamotonga	13,330	139	597	2,193	6,458	3,943
Lapaha	9,590	207	583	1,738	4,504	2,558
Nukunuku	12,357	124	386	1,565	3,990	6,292
Kolovai	5,622	103	272	1,035	2,729	1,483
Vava'u	36,308	485	1,759	6,375	17,287	10,402
Neiafu	14,154	151	543	2,097	6,136	5,227
Pangaimotu	2,305	29	189	567	1,140	380
Hahake	6,172	96	263	909	2,990	1,914
Leimatu'a	5,850	106	298	1,119	3,169	1,158
Hihifo	5,282	75	327	1,134	2,653	1,093
Motu	2,545	28	139	549	1,199	630
Ha'apai	20,363	274	873	2,831	10,037	6,348
Pangai	6,647	92	242	741	3,870	1,702
Foa	4,417	47	153	603	1,746	1,868
Lulunga	2,836	51	183	584	1,159	859
Mu'omu'a	1,272	41	135	305	541	250
Ha'ano	2,370	35	68	255	1,275	737
Uiha	2,821	8	92	343	1,446	932
Eua	7,723	252	613	1,935	3,447	1,476
Eua Motu'a	4,100	138	279	1,075	1,835	773
Eua Fo'ou	3,623	114	334	860	1,612	703
Niuas	7,564	61	287	1,047	2,882	3,287
Niuatoputapu	5,081	32	151	618	1,830	2,450
Niuafu'ou	2,483	29	136	429	1,052	837

**Table 1.9H1: Number of Households Keeping Ducks, by Size of Duck Holding, by Location of Household: 2001**

Division/District	Tota Number of Households Keeping Ducks	Size of Duck Holding				
		Less than 5 ducks	5 - 9 ducks	10 - 19 ducks	20 - 49 ducks	50 ducks and over
<b>Tonga</b>	<b>126</b>	<b>77</b>	<b>18</b>	<b>14</b>	<b>11</b>	<b>6</b>
Tongatapu	88	51	15	9	9	4
Kolofo'ou	27	19	5		2	1
Kolomotu'a	12	7	2	1		2
Vaini	21	12	1	3	4	1
Tatakamotonga	9	3	2	1	3	
Lapaha	11	6	3	2		
Nukunuku	5	4	1			
Kolovai	3		1	2		
Vava'u	14	9	1	3		1
Neiafu	9	6		3		
Hahake	2		1			1
Leimatu'a	1	1				
Hihifo	1	1				
Motu	1	1				
Ha'apai	7	5		1	1	
Pangai	6	5			1	
Ha'ano	1			1		
Eua	11	8	2	1		
Eua Motu'a	3	1	1	1		
Eua Fo'ou	8	7	1			
Niuas	6	4			1	1
Niuatoputapu	3	1			1	1
Niuafu'ou	3	3				

**Table 1.9H2: Number of Ducks, by Size of Duck Holding, by Location of Household: 2001**

Division/District	Total Number of Ducks	Size of Duck Holding				
		Less than 5 ducks	5 - 9 ducks	10 - 19 ducks	20 - 49 ducks	50 ducks and over
<b>Tonga</b>	<b>1,119</b>	<b>159</b>	<b>113</b>	<b>188</b>	<b>329</b>	<b>330</b>
Tongatapu	817	114	97	115	279	212
Kolofo'ou	174	36	34		44	60
Kolomotu'a	150	17	16	15		102
Vaini	254	30	5	35	134	50
Tatakamotonga	131	6	13	11	101	
Lapaha	58	16	18	24		
Nukunuku	14	9	5			
Kolovai	36		6	30		
Vava'u	124	13	6	45		60
Neiafu	54	9		45		
Hahake	66		6			60
Leimatu'a	2	2				
Hihifo	1	1				
Motu	1	1				
Ha'apai	53	10		13	30	
Pangai	40	10			30	
Ha'ano	13			13		
Eua	39	14	10	15		
Eua Motu'a	22	2	5	15		
Eua Fo'ou	17	12	5			
Niuas	86	8			20	58
Niuatoputapu	79	1			20	58
Niuafu'ou	7	7				

**Table 1.9I: Number of Households Disposing Livestock During the Past Twelve Months, by Kind of Livestock, by Location of Household: 2001**

Division/District	Total Number of Households Disposing Livestock	Kind of Livestock				
		Cattle	Pigs	Horses	Goats	Chicken
<b>Tonga</b>	<b>11,186</b>	<b>1,266</b>	<b>10,615</b>	<b>449</b>	<b>260</b>	<b>3,984</b>
Tongatapu	6,920	603	6,504	137	121	2,088
Kolofo'ou	1,524	135	1,417	21	26	376
Kolomotu'a	1,542	106	1,463	21	26	507
Vaini	962	83	853	19	20	328
Tatakamotonga	874	118	834	27	15	355
Lapaha	864	66	828	24	10	232
Nukunuku	709	58	677	14	16	223
Kolovai	445	37	432	11	8	67
Vava'u	2,171	447	2,096	141	35	1,036
Neiafu	801	161	759	34	20	326
Pangaimotu	155	42	148	18	2	78
Hahake	339	69	331	28	6	176
Leimatu'a	389	100	386	32	1	197
Hihifo	329	58	321	22	3	185
Motu	158	17	151	7	3	74
Ha'apai	1,052	85	1,012	86	68	495
Pangai	342	52	327	38	18	137
Foa	209	25	202	26	18	108
Lulunga	175	1	170	5	4	80
Mu'omu'a	101	1	95	5	7	79
Ha'ano	109	4	105	10	14	53
Uiha	116	2	113	2	7	38
Eua	739	120	712	63	27	118
Eua Motu'a	426	66	403	34	21	79
Eua Fo'ou	313	54	309	29	6	39
Niuas	304	11	291	22	9	247
Niuatoputapu	192	1	186	7	4	163
Niuafu'ou	112	10	105	15	5	84

**Table 1.9J1: Number of Livestock Disposed During the Past Twelve Months, by Type of Disposal and by Kind of Livestock, by Location of Household: 2001**

Division/District	Cattle				Pig				Horse				Goat				Chicken			
	Total Disposal	Con-sumed	Given Away as Gifts	Sold	Total Disposal	Con-sumed	Given Away as Gifts	Sold	Total Disposal	Con-sumed	Given Away as Gifts	Sold	Total Disposal	Con-sumed	Given Away as Gifts	Sold	Total Disposal	Con-sumed	Given Away as Gifts	Sold
<b>Tonga</b>	<b>3,116</b>	<b>135</b>	<b>2,302</b>	<b>679</b>	<b>123,739</b>	<b>16,790</b>	<b>97,367</b>	<b>9,582</b>	<b>885</b>	<b>85</b>	<b>621</b>	<b>179</b>	<b>1,220</b>	<b>366</b>	<b>749</b>	<b>105</b>	<b>75,573</b>	<b>33,309</b>	<b>40,455</b>	<b>1,809</b>
Tongatapu	1,743	95	1,272	376	61,022	8,790	48,092	4,140	314	46	191	77	516	147	318	51	31,996	16,731	13,683	1,582
Kolofo'ou	482	21	287	174	13,215	2,118	10,113	984	67	6	54	7	120	26	64	30	5,431	2,892	2,500	39
Kolomotu'a	244	11	196	37	13,115	1,281	11,103	731	31		23	8	114	58	56		8,640	3,461	4,669	510
Vaini	189	17	134	38	7,417	1,031	5,628	758	38	2	23	13	57	1	56		5,989	2,713	2,254	1,022
Tatakamotonga	302	14	223	65	9,753	1,532	7,495	726	59	2	47	10	80	29	39	12	5,296	3,307	1,978	11
Lapaha	139	3	117	19	8,276	1,383	6,346	547	28	3	20	5	42		40	2	2,980	2,442	538	
Nukunuku	109	10	79	20	5,839	651	4,942	246	17		14	3	89	23	59	7	3,000	1,443	1,557	
Kolovai	278	19	236	23	3,407	794	2,465	148	74	33	10	31	14	10	4		660	473	187	
Vava'u	906	14	726	166	32,007	2,783	26,836	2,388	234	13	179	42	190	22	139	29	23,106	6,424	16,593	89
Neiafu	366	6	279	81	10,143	903	8,648	592	65	6	45	14	141	13	114	14	6,954	2,049	4,891	14
Pangaimotu	97	2	78	17	2,089	180	1,755	154	37	1	33	3	3		3		1,433	408	1,005	20
Hahake	157	1	124	32	5,531	552	4,517	462	36		26	10	20	2	9	9	4,245	1,184	3,061	
Leimatu'a	174	4	148	22	5,419	341	4,621	457	61	6	45	10	2		2		3,980	677	3,303	
Hihifo	82		71	11	6,130	540	5,149	441	27		22	5	17	6	5	6	5,103	1,794	3,296	13
Motu	30	1	26	3	2,695	267	2,146	282	8		8		7	1	6		1,391	312	1,037	42
Ha'apai	178	5	127	46	16,518	3,041	12,130	1,347	174	12	135	27	353	161	182	10	12,507	6,201	6,218	88
Pangai	114	3	82	29	6,571	1,140	4,926	505	59	4	45	10	74	28	43	3	4,315	2,145	2,170	
Foa	53	2	39	12	3,730	649	2,536	545	48	4	35	9	92	63	24	5	2,817	1,470	1,277	70
Lulunga	1			1	1,371	301	1,065	5	6		5	1	4	1	3		1,137	550	587	
Mu'omu'a	1			1	1,177	323	803	51	28		26	2	54	23	31		1,572	694	860	18
Ha'ano	5		2	3	2,001	324	1,505	172	15		10	5	64	28	34	2	1,708	949	759	
Uiha	4		4		1,668	304	1,295	69	18	4	14		65	18	47		958	393	565	
Eua	269	19	174	76	9,557	1,179	7,140	1,238	132	8	96	28	122	23	85	14	2,160	1,101	1,045	14
Eua Motu'a	153	14	91	48	5,159	674	3,638	847	75	2	51	22	79	6	63	10	1,449	734	705	10
Eua Fo'ou	116	5	83	28	4,398	505	3,502	391	57	6	45	6	43	17	22	4	711	367	340	4
Niuas	20	2	3	15	4,635	997	3,169	469	31	6	20	5	39	13	25	1	5,804	2,852	2,916	36
Niuatoputapu	1			1	2,307	527	1,731	49	10	2	7	1	19	6	12	1	3,350	1,570	1,780	
Niuafa'ou	19	2	3	14	2,328	470	1,438	420	21	4	13	4	20	7	13		2,454	1,282	1,136	36

**Table 1.9J2: Number and Total Value of Livestock Sold During the Past Twelve Months, by Kind of Livestock, by Location of household: 2001**

Division/District	Cattle		Pig		Horse		Goat		Chicken	
	Number Sold	Value	Number Sold	Value	Number Sold	Value	Number Sold	Value	Number Sold	Value
<b>Tonga</b>	<b>679</b>	<b>496,210</b>	<b>9,582</b>	<b>813,030</b>	<b>179</b>	<b>56,090</b>	<b>105</b>	<b>3,631</b>	<b>1,809</b>	<b>7,081</b>
Tongatapu	376	293,505	4,140	395,063	77	23,780	51	1,256	1,582	5,620
Kolofo'ou	174	130,395	984	102,005	7	2,740	30	536	39	338
Kolomotu'a	37	27,400	731	64,507	8	4,450			510	56
Vaini	38	34,360	758	75,800	13	4,310			1,022	5,171
Tatakamotonga	65	52,620	726	60,821	10	4,150	12	350	11	55
Lapaha	19	12,480	547	49,765	5	2,800	2	40		
Nukunuku	20	15,650	246	20,495	3	1,800	7	330		
Kolovai	23	20,600	148	21,670	31	3,530				
Vava'u	166	112,500	2,388	205,515	42	10,800	29	1,090	89	484
Neiafu	81	41,150	592	62,190	14	2,800	14	410	14	62
Pangaimotu	17	10,400	154	14,430	3	1,500			20	100
Hahake	32	32,000	462	47,800	10	4,100	9	400		
Leimatu'a	22	20,100	457	44,540	10	400				
Hihifo	11	7,900	441	24,490	5	2,000	6	280	13	62
Motu	3	950	282	12,065					42	260
Ha'apai	46	33,300	1,347	108,847	27	11,250	10	365	88	680
Pangai	29	21,050	505	39,910	10	3,850	3	120		
Foa	12	8,300	545	37,045	9	4,300	5	165	70	600
Lulunga	1	1,000	5	712	1	400				
Mu'omu'a	1	250	51	3,510	2	1,000			18	80
Ha'ano	3	2,700	172	19,965	5	1,700	2	80		
Uiha			69	7,705						
Eua	76	47,005	1,238	80,245	28	9,060	14	890	14	112
Eua Motu'a	48	35,505	847	54,435	22	6,600	10	490	10	100
Eua Fo'ou	28	11,500	391	25,810	6	2,460	4	400	4	12
Niuas	15	9,900	469	23,360	5	1,200	1	30	36	185
Niuatoputapu	1	500	49	7,700	1	200	1	30		
Niuafu'ou	14	9,400	420	15,660	4	1,000			36	185

**Table 1.9K: Number of Dogs Kept, by Location of Household: 2001**

Division/District	Total Number of Households Keeping Dogs	Total Number of Dogs Kept	Average Number of Dogs Per Household Keeping Dogs
<b>Tonga</b>	<b>10,317</b>	<b>26,315</b>	<b>3</b>
Tongatapu	6,777	16,596	2
Kolofo'ou	1,670	4,077	2
Kolomotu'a	1,489	3,419	2
Vaini	965	2,194	2
Tatakamotonga	751	1,899	3
Lapaha	816	2,048	3
Nukunuku	667	1,693	3
Kolovai	419	1,266	3
Vava'u	1,749	4,919	3
Neiafu	632	1,677	3
Pangaimotu	137	348	3
Hahake	266	878	3
Leimatu'a	320	919	3
Hihifo	266	713	3
Motu	128	384	3
Ha'apai	963	2,663	3
Pangai	328	855	3
Foa	177	482	3
Lulunga	160	423	3
Mu'omu'a	86	261	3
Ha'ano	104	355	3
Uiha	108	287	3
Eua	554	1,341	2
Eua Motu'a	299	726	2
Eua Fo'ou	255	615	2
Niuas	274	796	3
Niuatoputapu	180	526	3
Niuafu'ou	94	270	3

**Table 1.10: Number of Households Engaged in Fishing, by Main Purpose of Fishing, by Location of Household: 2001**

Division/District	Total Number of Households Engaged in Fishing	Main Purpose of Fishing		
		Home Consumption Only	Mainly for Home Consumption with Occasional Selling	Mainly for Sale
<b>Tonga</b>	<b>5,130</b>	<b>3,943</b>	<b>1,073</b>	<b>114</b>
Tongatapu	2,393	1,868	439	86
Kolofo'ou	521	404	106	11
Kolomotu'a	442	344	80	18
Vaini	206	159	44	3
Tatakamotonga	403	373	26	4
Lapaha	381	220	112	49
Nukunuku	232	209	22	1
Kolovai	208	159	49	
Vava'u	1,337	1,067	247	23
Neiafu	420	323	88	9
Pangaimotu	124	94	25	5
Hahake	219	181	36	2
Leimatu'a	240	218	22	
Hihifo	199	177	21	1
Motu	135	74	55	6
Ha'apai	937	646	286	5
Pangai	299	252	46	1
Foa	168	133	35	
Lulunga	167	101	63	3
Mu'omu'a	86	32	54	
Ha'ano	101	62	39	
Uiha	116	66	49	1
Eua	211	160	51	
Eua Motu'a	127	97	30	
Eua Fo'ou	84	63	21	
Niuas	252	202	50	
Niuatoputapu	168	118	50	
Niuafu'ou	84	84		

**Table 1.11: Number of Households Engaged in Fishing, by Type of Fishing Method, by Location of Household: 2001**

Division/District	Total	Type of Fishing Method			
		Handline Fishing	Net Fishing	Spear Fishing	Other Types of Fishing
<b>Tonga</b>	<b>5,130</b>	<b>2,236</b>	<b>831</b>	<b>1,091</b>	<b>1,533</b>
Tongatapu	2,393	923	345	393	905
Kolofo'ou	521	299	70	77	116
Kolomotu'a	442	182	62	31	199
Vaini	206	86	47	32	47
Tatakamotonga	403	67	46	90	213
Lapaha	381	129	63	105	133
Nukunuku	232	84	18	40	99
Kolovai	208	76	39	18	98
Vava'u	1,337	577	270	238	435
Neiafu	420	214	85	75	121
Pangaimotu	124	58	20	34	26
Hahake	219	58	51	42	97
Leimatu'a	240	48	49	34	130
Hihifo	199	105	38	24	46
Motu	135	94	27	29	15
Ha'apai	937	478	149	367	120
Pangai	299	136	53	112	56
Foa	168	63	40	61	26
Lulunga	167	88	20	71	9
Mu'omu'a	86	69	4	33	6
Ha'ano	101	69	15	32	7
Uiha	116	53	17	58	16
Eua	211	92	15	62	50
Eua Motu'a	127	44	13	39	37
Eua Fo'ou	84	48	2	23	13
Niuas	252	166	52	31	23
Niuatoputapu	168	91	46	25	22
Niuafa'ou	84	75	6	6	1

**Table 1.12: Average Number of Trips Made During the Past Week, by Type of Fishing Method, by Location of Household: 2001**

Division/District	All Households Engaged in Fishing	Type of Fishing Method			
		Handline Fishing	Net Fishing	Spear Fishing	Other Types of Fishing
<b>Tonga</b>	<b>1.89</b>	<b>1.61</b>	<b>2.05</b>	<b>1.89</b>	<b>1.53</b>
Tongatapu	1.95	1.66	2.34	2.15	1.63
Kolofo'ou	1.75	1.40	2.41	1.91	1.55
Kolomotu'a	1.82	1.55	2.34	2.19	1.56
Vaini	2.07	1.81	2.64	2.03	1.72
Tatakamotonga	1.42	1.36	1.48	1.74	1.20
Lapaha	2.66	2.22	2.51	2.79	2.08
Nukunuku	1.97	1.85	2.44	2.10	1.77
Kolovai	2.26	1.87	2.56	1.78	2.00
Vava'u	1.59	1.39	1.71	1.39	1.22
Neiafu	1.61	1.31	1.67	1.25	1.32
Pangaimotu	1.56	1.41	1.55	1.53	1.08
Hahake	1.58	1.26	1.63	1.40	1.36
Leimatu'a	1.17	1.08	1.41	1.00	0.96
Hihifo	1.53	1.48	1.55	1.46	1.20
Motu	2.39	1.69	2.85	1.97	1.93
Ha'apai	2.26	1.80	2.17	1.91	1.90
Pangai	1.83	1.37	2.11	1.43	1.61
Foa	2.26	1.60	2.38	2.03	2.31
Lulunga	1.95	1.59	2.00	1.85	1.67
Mu'omu'a	3.59	2.71	2.00	3.00	2.50
Ha'ano	2.56	2.01	2.27	2.09	2.71
Uiha	2.51	2.06	2.00	2.05	1.81
Eua	1.76	1.61	1.87	2.00	1.44
Eua Motu'a	1.72	1.50	2.00	2.08	1.22
Eua Fo'ou	1.83	1.71	1.00	1.87	2.08
Niuas	1.70	1.49	1.54	1.87	1.91
Niuatoputapu	1.73	1.48	1.57	1.68	1.91
Niuafu'ou	1.64	1.49	1.33	2.67	2.00

**Table 1.13: Number of Persons Engaged in Fishing During the Past Week, by Type of Fishing Method, by Location of Household: 2001**

Division/District	Total Number of Persons Engaged in Fishing			Household Members			Hired Workers		
	Both Sexes	Male	Female	Both Sexes	Male	Female	Both Sexes	Male	Female
<b>Tonga</b>	<b>7,704</b>	<b>6,066</b>	<b>1,638</b>	<b>7,104</b>	<b>5,542</b>	<b>1,562</b>	<b>600</b>	<b>524</b>	<b>76</b>
Tongatapu	3,641	2,709	932	3,239	2,380	859	402	329	73
Kolofo'ou	741	637	104	697	596	101	44	41	3
Kolomotu'a	790	615	175	627	454	173	163	161	2
Vaini	388	293	95	283	208	75	105	85	20
Tatakamotonga	534	297	237	489	279	210	45	18	27
Lapaha	528	406	122	513	394	119	15	12	3
Nukunuku	342	214	128	314	204	110	28	10	18
Kolovai	318	247	71	316	245	71	2	2	
Vava'u	2,180	1,695	485	1,996	1,514	482	184	181	3
Neiafu	713	556	157	660	506	154	53	50	3
Pangaimotu	186	158	28	163	135	28	23	23	
Hahake	360	248	112	346	234	112	14	14	
Leimatu'a	378	255	123	375	252	123	3	3	
Hihifo	304	258	46	266	220	46	38	38	
Motu	239	220	19	186	167	19	53	53	
Ha'apai	1,300	1,139	161	1,293	1,132	161	7	7	
Pangai	433	336	97	430	333	97	3	3	
Foa	226	181	45	225	180	45	1	1	
Lulunga	216	213	3	216	213	3			
Mu'omu'a	119	118	1	116	115	1	3	3	
Ha'ano	148	143	5	148	143	5			
Uiha	158	148	10	158	148	10			
Eua	246	222	24	246	222	24			
Eua Motu'a	151	135	16	151	135	16			
Eua Fo'ou	95	87	8	95	87	8			
Niuas	337	301	36	330	294	36	7	7	
Niuatoputapu	237	203	34	236	202	34	1	1	
Niuafu'ou	100	98	2	94	92	2	6	6	

**Table 1.14A: Number of Households Engaged in Fisheries, by Location of Household: 2001**

Division/District	Total	Use Boats	Did not Use Boats
<b>Tonga</b>	<b>5,130</b>	<b>2,044</b>	<b>3,086</b>
Tongatapu	2,393	789	1,604
Kolofo'ou	521	259	262
Kolomotu'a	442	131	311
Vaini	206	76	130
Tatakamotonga	403	37	366
Lapaha	381	204	177
Nukunuku	232	41	191
Kolovai	208	41	167
Vava'u	1,337	492	845
Neiafu	420	215	205
Pangaimotu	124	58	66
Hahake	219	44	175
Leimatu'a	240	19	221
Hihifo	199	59	140
Motu	135	97	38
Ha'apai	937	616	321
Pangai	299	150	149
Foa	168	63	105
Lulunga	167	151	16
Mu'omu'a	86	80	6
Ha'ano	101	76	25
Uiha	116	96	20
Eua	211	61	150
Eua Motu'a	127	39	88
Eua Fo'ou	84	22	62
Niuas	252	86	166
Niuatoputapu	168	60	108
Niuafa'ou	84	26	58

**Table 1.14B: Number of Households Engaged in Fisheries That Owned Boats, by Type of Boat, by Location of Household**

Division/District	Households Owning Boats		With In-Board Engine		With Out-board Engine		Non-Motorized	
	Total Number of Households	Total Number of Boats Owned	Number of Households	Number of Boats	Number of Households	Number of Boats	Number of Households	Number of Boats
<b>Tonga</b>	<b>887</b>	<b>932</b>	<b>114</b>	<b>127</b>	<b>614</b>	<b>640</b>	<b>164</b>	<b>165</b>
Tongatapu	334	363	43	53	241	257	53	53
Kolofo'ou	95	103	11	11	75	82	10	10
Kolomotu'a	56	73	9	18	47	54	1	1
Vaini	34	34	2	2	26	26	6	6
Tatakamotonga	18	18	1	1	13	13	4	4
Lapaha	96	99	12	13	58	60	26	26
Nukunuku	9	9	1	1	6	6	2	2
Kolovai	26	27	7	7	16	16	4	4
Vava'u	275	285	35	37	177	183	64	65
Neiafu	120	124	26	27	76	78	18	19
Pangaimotu	29	30	2	2	23	24	4	4
Hahake	26	27	3	3	14	14	10	10
Leimatu'a	12	12			2	2	10	10
Hihifo	37	38	2	3	19	19	16	16
Motu	51	54	2	2	43	46	6	6
Ha'apai	224	228	26	26	157	160	42	42
Pangai	30	30	8	8	21	21	1	1
Foa	21	21	4	4	6	6	11	11
Lulunga	65	67	1	1	55	56	10	10
Mu'omu'a	33	35	2	2	24	26	7	7
Ha'ano	37	37	1	1	31	31	5	5
Uiha	38	38	10	10	20	20	8	8
Eua	22	22	6	6	14	14	2	2
Eua Motu'a	15	15	3	3	10	10	2	2
Eua Fo'ou	7	7	3	3	4	4		
Niuas	32	34	4	5	25	26	3	3
Niuatoputapu	22	23	1	1	18	19	3	3
Niuafu'ou	10	11	3	4	7	7		

**Table 1.14C: Number of Households Engaged in Fisheries That Hired Boats, by Type of Boat, by Location of Household: 2001**

Division/District	Total Number of Households That Hired Boats	Type of Boat		
		With In-board Engine	With Out-board Engine	Non-motorized
<b>Tonga</b>	<b>314</b>	<b>88</b>	<b>221</b>	<b>7</b>
Tongatapu	166	42	124	
Kolofo'ou	46	11	35	
Kolomotu'a	33	13	20	
Vaini	16	2	14	
Tatakamotonga	9	4	5	
Lapaha	44	3	41	
Nukunuku	6	3	3	
Kolovai	12	6	6	
Vava'u	52	13	35	5
Neiafu	26	8	18	
Pangaimotu	9	1	8	
Hahake	3	2	2	
Hihifo	10	2	5	3
Motu	4		2	2
Ha'apai	79	24	55	1
Pangai	13	7	6	
Foa	14	5	9	1
Lulunga	10		10	
Mu'omu'a	15	3	12	
Ha'ano	5	2	3	
Uiha	22	7	15	
Eua	14	9	4	1
Eua Motu'a	9	4	4	1
Eua Fo'ou	5	5		
Niuas	3		3	
Niuatoputapu	2		2	
Niuafu'ou	1		1	

**Table 1.14D: Number of Households Engaged in Fisheries That Borrowed Boats, by Type of Boat, by Location of Household: 2001**

Division/District	Total Number of Households That Borrowed Boats	Type of Boat		
		With In-board Engine	With Out-board Engine	Non-motorized
<b>Tonga</b>	<b>893</b>	<b>155</b>	<b>653</b>	<b>90</b>
Tongatapu	299	57	203	39
Kolofo'ou	123	29	93	1
Kolomotu'a	42	10	32	
Vaini	26	4	19	3
Tatakamotonga	11	3	4	4
Lapaha	65	9	36	20
Nukunuku	27	2	14	11
Kolovai	5		5	
Vava'u	196	40	128	32
Neiafu	78	18	51	9
Pangaimotu	27	3	24	
Hahake	16	5	8	6
Leimatu'a	7		3	4
Hihifo	22	6	12	4
Motu	46	8	30	9
Ha'apai	319	37	270	12
Pangai	108	17	91	
Foa	30	7	16	7
Lulunga	78		75	3
Mu'omu'a	33	4	28	1
Ha'ano	34	3	31	
Uiha	36	6	29	1
Eua	25	18	7	
Eua Motu'a	15	9	6	
Eua Fo'ou	10	9	1	
Niuas	54	3	45	7
Niuatoputapu	37		34	3
Niuafu'ou	17	3	11	4

**Table 1.15: Number of Households Selling Fish Caught/Sea Products Collected/Gathered, by Proportion Sold: 2001**

Division/District	Total	About 1/4	About 1/2	About 3/4	All
<b>Tonga</b>	<b>1,139</b>	<b>182</b>	<b>382</b>	<b>488</b>	<b>87</b>
Tongatapu	512	75	139	247	51
Kolofo'ou	107	19	25	45	18
Kolomotu'a	102	12	35	43	12
Vaini	44	2	20	21	1
Tatakamotonga	25	8	5	9	3
Lapaha	158	12	33	98	15
Nukunuku	25	9	5	10	1
Kolovai	51	13	16	21	1
Vava'u	244	37	82	101	24
Neiafu	87	11	35	30	11
Pangaimotu	29	3	11	11	4
Hahake	29	4	9	14	2
Leimatu'a	16	1	4	10	1
Hihifo	28	8	10	9	1
Motu	55	10	13	27	5
Ha'apai	281	29	127	113	12
Pangai	45	3	22	19	1
Foa	32	3	12	16	1
Lulunga	62	12	29	17	4
Mu'omu'a	55	5	24	24	2
Ha'ano	38	2	13	21	2
Uiha	49	4	27	16	2
Eua	48	13	21	14	
Eua Motu'a	29	9	14	6	
Eua Fo'ou	19	4	7	8	
Niuas	54	28	13	13	
Niuatoputapu	54	28	13	13	

**Table 1.16: Number of Households Selling Fish Caught/Sea Products Collected/Gathered, by Location of Household: 2001**

Division/District	Total	Consumer	Middle Man	Others
<b>Tonga</b>	<b>1,139</b>	<b>892</b>	<b>236</b>	<b>11</b>
Tongatapu	512	470	35	7
Kolofo'ou	107	98	8	1
Kolomotu'a	102	88	10	4
Vaini	44	41	3	
Tatakamotonga	25	25		
Lapaha	158	154	4	
Nukunuku	25	19	5	1
Kolovai	51	45	5	1
Vava'u	244	116	124	4
Neiafu	87	43	42	2
Pangaimotu	29	16	13	
Hahake	29	20	9	
Leimatu'a	16	5	11	
Hihifo	28	20	7	1
Motu	55	12	42	1
Ha'apai	281	206	75	
Pangai	45	38	7	
Foa	32	28	4	
Lulunga	62	51	11	
Mu'omu'a	55	29	26	
Ha'ano	38	29	9	
Uiha	49	31	18	
Eua	48	46	2	
Eua Motu'a	29	28	1	
Eua Fo'ou	19	18	1	
Niuas	54	54		
Niuatoputapu	54	54		

**Table 2.1: Number of Households Deriving Income From Agricultural Activities of the Holding During the Past Twelve Months, by Proportion of Income, by Location of Household: 2001**

Location of Household	Total	About 1/8	About 1/4	About 1/3	About 1/2	About 3/4	All	Not Stated
<b>Tonga</b>	<b>10,088</b>	<b>2,376</b>	<b>1,341</b>	<b>1,348</b>	<b>1,732</b>	<b>1,179</b>	<b>479</b>	<b>1,633</b>
Tongatapu	5,723	1,537	858	830	773	445	79	1,201
Kolofo'ou	945	231	140	106	88	57	17	306
Kolomotu'a	950	176	135	140	101	100	13	285
Vaini	1,057	448	261	131	109	64	2	42
Tatakamotonga	814	363	148	106	118	44	5	30
Lapaha	761	177	91	216	169	74	22	12
Nukunuku	759	127	55	101	129	74	19	254
Kolovai	437	15	28	30	59	32	1	272
Vava'u	2,182	174	213	303	523	455	248	266
Neiafu	748	77	111	67	215	144	47	87
Pangaimotu	163	11	19	39	34	29	4	27
Hahake	336	40	22	56	58	81	39	40
Leimatu'a	419	12	14	36	99	89	147	22
Hihifo	360	5	24	83	89	89	9	61
Motu	156	29	23	22	28	23	2	29
Ha'apai	1,075	526	123	94	205	52	7	68
Pangai	341	201	28	29	58	7		18
Foa	202	73	26	18	53	31		1
Lulunga	185	71	24	12	18	5	7	48
Mu'omu'a	95	82	11		1	1		
Ha'ano	116	47	15	13	34	6		1
Uiha	136	52	19	22	41	2		
Eua	774	30	99	114	172	196	139	24
Eua Motu'a	454	22	53	71	106	108	77	17
Eua Fo'ou	320	8	46	43	66	88	62	7
Niuas	334	109	48	7	59	31	6	74
Niuatoputapu	203	83	47	5	17	27	2	22
Niuafu'u	131	26	1	2	42	4	4	52

**Table 2.2: Number of Holdings In Which Fertilizers and Agricultural Chemicals Were Used, by Type of Agricultural Chemicals, by Location of Holdings: 2001**

Location of Holdings (Division/District)	Using Fertilizers		Did Not Use Any Fertilizer	Using Agricultural Chemicals				Did Not Use Any Agricultural Chemical
	Inorganic	Organic		Insecticide	Herbicide	Others	Unknown	
<b>Tonga</b>	<b>1,125</b>	<b>610</b>	<b>8,984</b>	<b>1,301</b>	<b>1,315</b>	<b>237</b>	<b>6</b>	<b>8,331</b>
Tongatapu	938	411	4,678	1,121	1,196	168	6	3,941
Kolofo'ou	4	5	107	7	9	3		100
Kolomotu'a	55	36	588	68	75	15		538
Vaini	325	110	1,327	452	443	60	2	1,008
Tatakamotonga	119	47	801	181	116	25	1	668
Lapaha	139	33	708	172	124	26	2	652
Nukunuku	226	151	738	183	320	30	1	620
Kolovai	70	29	409	58	109	9		355
Vava'u	75	66	2,221	63	28	29		2,238
Neiafu	13	8	279	13	4	4		283
Pangaimotu	11	8	209	11	3	5		209
Hahake	12	10	329	7	4	3		337
Leimatu'a	27	24	623	25	6	9		629
Hihifo	12	14	601	7	11	5		601
Motu		2	180			3		179
Ha'apai	33	62	1,015	38	28	13		1,053
Pangai	10	4	315	9	7	7		314
Foa	15	5	193	19	17	3		182
Lulunga		41	127					168
Mu'omu'a	1	2	93	2		1		94
Ha'ano	5		114	4	2	2		115
Uiha	2	10	173	4	2			180
Eua	77	69	742	76	63	25		770
Eua Motu'a	51	60	527	54	46	16		556
Eua Fo'ou	26	9	215	22	17	9		214
Niuas	2	2	328	3		2		329
Niuatoputapu	2	2	197	3		2		198
Niuafu'ou			131					131

**Table 2.3A: Number of Households Using and Owning or Hiring or Borrowing Equipment  
During the Reference Period, by Location of Household: 2001**

Location of Households	Number of Households			
	Using Equipment	Owning Equipment	Hiring Equipment	Borrowing Equipment
<b>Tonga</b>	<b>7,653</b>	<b>4,366</b>	<b>6,348</b>	<b>1,447</b>
Tongatapu	5,253	3,106	4,678	1,038
Kolofo'ou	849	621	699	198
Kolomotu'a	867	535	719	122
Vaini	1,008	654	910	234
Tatakamotonga	780	371	745	118
Lapaha	634	213	584	110
Nukunuku	723	464	649	205
Kolovai	392	248	372	51
Vava'u	1,151	647	858	133
Neiafu	475	256	363	53
Pangaimotu	88	28	76	17
Hahake	170	76	133	13
Leimatu'a	265	181	199	18
Hihifo	128	85	85	28
Motu	25	21	2	4
Ha'apai	509	173	473	57
Pangai	293	97	278	31
Foa	160	61	152	22
Lulunga	3	2		1
Mu'omu'a	2	2		
Ha'ano	44	5	43	2
Uiha	7	6		1
Eua	520	327	264	135
Eua Motu'a	304	179	159	83
Eua Fo'ou	216	148	105	52
Niuas	220	113	75	84
Niuatoputapu	137	83	55	43
Niuafu'ou	83	30	20	41

**Table 2.4: Number of Households and Household Members Engaged in Handicraft Making During the Reference Period by Location of Household: 2001**

Location of Household	Total Number of Households Engaged	Number of Household Members Engaged		
		Both Sexes	Male	Female
<b>Tonga</b>	<b>5,798</b>	<b>7,591</b>	<b>155</b>	<b>7,436</b>
Tongatapu	2,601	3,177	82	3,095
Kolofo'ou	331	397	11	386
Kolomotu'a	291	337	9	328
Vaini	437	573	46	527
Tatakamotonga	402	452	2	450
Lapaha	484	603	4	599
Nukunuku	396	478	7	471
Kolovai	260	337	3	334
Vava'u	1,468	2,034	27	2,007
Neiafu	387	458	6	452
Pangaimotu	132	177		177
Hahake	250	419	16	403
Leimatu'a	282	373	5	368
Hihifo	281	407		407
Motu	136	200		200
Ha'apai	946	1,308	10	1,298
Pangai	288	399	2	397
Foa	179	223	2	221
Lulunga	159	248		248
Mu'omu'a	91	117	6	111
Ha'ano	104	148		148
Uiha	125	173		173
Eua	531	698	3	695
Eua Motu'a	302	389	2	387
Eua Fo'ou	229	309	1	308
Niuas	252	374	33	341
Niuatoputapu	161	246	21	225
Niuafu'ou	91	128	12	116

**Table 2.5: Number of Households Taking Raw Materials from Holding for Handicraft Making, During the Reference Period, by Location of Household: 2001**

Location of Household	Total	None	1/4	1/2	3/4	All
<b>Tonga</b>	<b>5,798</b>	<b>1,412</b>	<b>335</b>	<b>531</b>	<b>404</b>	<b>3,116</b>
Tongatapu	2,601	970	199	268	176	988
Kolofo'ou	331	202	19	31	22	57
Kolomotu'a	291	169	23	30	23	46
Vaini	437	174	35	33	22	173
Tatakamotonga	402	154	54	27	44	123
Lapaha	484	68	43	124	42	207
Nukunuku	396	147	13	9	2	225
Kolovai	260	56	12	14	21	157
Vava'u	1,468	188	55	111	95	1,019
Neiafu	387	60	30	62	30	205
Pangaimotu	132	28	4	7	13	80
Hahake	250	31	11	19	21	168
Leimatu'a	282	33	3	6	18	222
Hihifo	281	15	6	10	4	246
Motu	136	21	1	7	9	98
Ha'apai	946	122	28	67	66	663
Pangai	288	74	3	9	21	181
Foa	179	16	2	9	30	122
Lulunga	159	18	2	4	9	126
Mu'omu'a	91	2	17	42		30
Ha'ano	104	6	2	1	4	91
Uiha	125	6	2	2	2	113
Eua	531	78	19	55	36	343
Eua Motu'a	302	50	16	45	22	169
Eua Fo'ou	229	28	3	10	14	174
Niuas	252	54	34	30	31	103
Niuatoputapu	161	32	25	25	26	53
Niuafa'ou	91	22	9	5	5	50

**Table 2.6: Number of Households Buying Raw Materials for Handicraft Making During the Reference Period, by Location of Household: 2001**

Location of Household	Total	None	1/4	1/2	3/4	All
<b>Tonga</b>	<b>5,798</b>	<b>3,904</b>	<b>651</b>	<b>450</b>	<b>263</b>	<b>530</b>
Tongatapu	2,601	1,420	368	248	171	394
Kolofo'ou	331	128	50	35	27	91
Kolomotu'a	291	112	46	44	37	52
Vaini	437	213	56	46	32	90
Tatakamotonga	402	242	49	30	44	37
Lapaha	484	245	115	61	19	44
Nukunuku	396	275	27	20	9	65
Kolovai	260	205	25	12	3	15
Vava'u	1,468	1,113	160	101	35	59
Neiafu	387	261	35	50	22	19
Pangaimotu	132	92	14	10	3	13
Hahake	250	189	30	15	4	12
Leimatu'a	282	235	26	12	2	7
Hihifo	281	213	49	12	3	4
Motu	136	123	6	2	1	4
Ha'apai	946	811	51	37	22	25
Pangai	288	238	15	18	14	3
Foa	179	153	15	6	3	2
Lulunga	159	125	12	7	3	12
Mu'omu'a	91	89		1		1
Ha'ano	104	96	3	1		4
Uiha	125	110	6	4	2	3
Eua	531	410	46	35	16	24
Eua Motu'a	302	210	38	28	12	14
Eua Fo'ou	229	200	8	7	4	10
Niuas	252	150	26	29	19	28
Niuatoputapu	161	63	24	28	19	27
Niuafu'ou	91	87	2	1		1

**Table 2.7: Number of Households Selling Handicraft Made During the Reference Period, by Location of Household: 2001**

Location of Household	Total	None	1/4	1/2	3/4	All
<b>Tonga</b>	<b>5,798</b>	<b>2,681</b>	<b>1,045</b>	<b>1,014</b>	<b>788</b>	<b>270</b>
Tongatapu	2,601	1,474	527	334	160	106
Kolofo'ou	331	195	44	35	40	17
Kolomotu'a	291	194	41	32	15	9
Vaini	437	248	69	66	15	39
Tatakamotonga	402	254	77	41	18	12
Lapaha	484	161	182	91	44	6
Nukunuku	396	228	73	52	20	23
Kolovai	260	194	41	17	8	
Vava'u	1,468	726	211	238	200	93
Neiafu	387	212	51	83	37	4
Pangaimotu	132	66	25	17	15	9
Hahake	250	107	24	36	58	25
Leimatu'a	282	90	25	55	68	44
Hihifo	281	204	45	13	11	8
Motu	136	47	41	34	11	3
Ha'apai	946	194	141	286	302	23
Pangai	288	65	40	73	102	8
Foa	179	34	12	55	71	7
Lulunga	159	37	49	56	16	1
Mu'omu'a	91	19	16	38	17	1
Ha'ano	104	22	7	29	42	4
Uiha	125	17	17	35	54	2
Eua	531	203	112	120	78	18
Eua Motu'a	302	115	67	72	36	12
Eua Fo'ou	229	88	45	48	42	6
Niuas	252	84	54	36	48	30
Niuatoputapu	161	23	33	31	46	28
Niuafa'ou	91	61	21	5	2	2

**Table 2.8: Number of Persons 15 Years Old and Over Engaged in Agricultural Activities of the Holding During the Reference Month Prior to Time of Visit, by Sex and Membership Status, by Location of the Holdings: 2001**

Location of Holdings (Division/District)	Total Persons Engaged			Household Member			Non-Household Member		
	Both Sexes	Male	Female	Both Sexes	Male	Female	Both Sexes	Male	Female
<b>Tonga</b>	<b>13,593</b>	<b>13,144</b>	<b>449</b>	<b>12,949</b>	<b>12,525</b>	<b>424</b>	<b>644</b>	<b>619</b>	<b>25</b>
Tongatapu	7,730	7,445	285	7,279	7,013	266	451	432	19
Kolofo'ou	156	150	6	142	136	6	14	14	
Kolomotu'a	918	877	41	849	809	40	69	68	1
Vaini	2,360	2,268	92	2,171	2,089	82	189	179	10
Tatakamotonga	1,207	1,149	58	1,160	1,107	53	47	42	5
Lapaha	1,033	1,013	20	997	978	19	36	35	1
Nukunuku	1,397	1,349	48	1,334	1,288	46	63	61	2
Kolovai	659	639	20	626	606	20	33	33	
Vava'u	2,901	2,800	101	2,763	2,668	95	138	132	6
Neiafu	366	360	6	360	354	6	6	6	
Pangaimotu	289	278	11	270	259	11	19	19	
Hahake	431	420	11	422	411	11	9	9	
Leimatu'a	831	794	37	797	760	37	34	34	
Hihifo	750	727	23	680	663	17	70	64	6
Motu	234	221	13	234	221	13			
Ha'apai	1,423	1,398	25	1,411	1,386	25	12	12	
Pangai	435	427	8	431	423	8	4	4	
Foa	284	279	5	280	275	5	4	4	
Lulunga	207	203	4	207	203	4			
Mu'omu'a	109	109		109	109				
Ha'ano	145	142	3	145	142	3			
Uiha	243	238	5	239	234	5	4	4	
Eua	1,151	1,126	25	1,115	1,090	25	36	36	
Eua Motu'a	828	812	16	801	785	16	27	27	
Eua Fo'ou	323	314	9	314	305	9	9	9	
Niuas	388	375	13	381	368	13	7	7	
Niuatoputapu	221	212	9	216	207	9	5	5	
Niuafu'ou	167	163	4	165	161	4	2	2	

Table 2.9A: Number of Household Members 15 Years Old and Over Engaged in the Agricultural Activities of the Holdings During the Reference Month Prior to the Time of Visit, by Sex and Age, by Location of Holdings: 2001

Location of Holdings (Division/District)	Both Sexes							Male							Female						
	Total	15 - 24 yrs. old	25 - 34 yrs. old	35 - 44 yrs. old	45 - 54 yrs. old	55 - 64 yrs. old	65 yrs. & over	Total	15 - 24 yrs. old	25 - 34 yrs. old	35 - 44 yrs. old	45 - 54 yrs. old	55 - 64 yrs. old	65 yrs. & over	Total	15 - 24 yrs. old	25 - 34 yrs. old	35 - 44 yrs. old	45 - 54 yrs. old	55 - 64 yrs. old	65 yrs. & over
Tonga	12,949	1,821	2,860	2,779	2,278	1,820	1,391	12,525	1,778	2,760	2,685	2,173	1,772	1,357	424	43	100	94	105	48	34
Tongatapu	7,279	1,007	1,571	1,567	1,304	1,031	799	7,013	977	1,513	1,511	1,229	1,004	779	266	30	58	56	75	27	20
Kolofou	142	17	27	29	30	16	23	136	17	26	27	28	16	22	6		1	2	2		1
Kolomotu'a	849	111	167	178	161	132	100	809	109	163	166	146	127	98	40	2	4	12	15	5	2
Vaini	2,171	314	475	455	385	305	237	2,089	299	459	438	363	298	232	82	15	16	17	22	7	5
Tatakamotonga	1,160	140	258	257	218	165	122	1,107	136	242	249	204	158	118	53	4	16	8	14	7	4
Lapaha	997	113	202	227	168	149	138	978	111	199	223	164	143	138	19	2	3	4	4	6	
Nukunuku	1,334	226	302	286	236	171	113	1,288	220	288	279	225	169	107	46	6	14	7	11	2	6
Kolovai	626	86	140	135	106	93	66	606	85	136	129	99	93	64	20	1	4	6	7		2
Vava'u	2,763	394	630	603	470	360	306	2,668	385	606	575	449	356	297	95	9	24	28	21	4	9
Neiafu	360	61	67	71	54	51	56	354	60	65	70	53	51	55	6	1	2	1	1		1
Pangaimotu	270	37	60	69	47	30	27	259	37	57	64	45	30	26	11		3	5	2		1
Hahake	422	57	98	86	59	48	74	411	54	97	81	58	48	73	11	3	1	5	1		1
Leimatu'a	797	140	189	169	138	100	61	760	136	179	163	125	98	59	37	4	10	6	13	2	2
Hihifo	680	76	165	156	122	101	60	663	75	160	149	120	99	60	17	1	5	7	2	2	
Motu	234	23	51	52	50	30	28	221	23	48	48	48	30	24	13		3	4	2		4
Ha'apai	1,411	200	320	277	247	218	149	1,386	198	315	273	243	208	149	25	2	5	4	4	10	
Pangai	431	64	90	97	77	63	40	423	63	90	96	75	59	40	8	1		1	2	4	
Foa	280	46	66	52	54	37	25	275	45	64	51	54	36	25	5	1	2	1		1	
Lulunga	207	20	52	39	33	39	24	203	20	51	38	33	37	24	4		1	1		2	
Mu'omu'a	109	10	20	21	25	16	17	109	10	20	21	25	16	17							
Ha'ano	145	14	42	27	20	26	16	142	14	42	27	19	24	16	3				1	2	
Uiha	239	46	50	41	38	37	27	234	46	48	40	37	36	27	5		2	1	1	1	
Eua	1,115	184	270	234	190	135	102	1,090	182	260	229	187	133	99	25	2	10	5	3	2	3
Eua Motu'a	801	126	197	172	137	91	78	785	125	189	170	134	90	77	16	1	8	2	3	1	1
Eua Fo'ou	314	58	73	62	53	44	24	305	57	71	59	53	43	22	9	1	2	3		1	2
Niuas	381	36	69	98	67	76	35	368	36	66	97	65	71	33	13		3	1	2	5	2
Niuatoputapu	216	16	29	55	43	50	23	207	16	29	55	41	45	21	9				2	5	2
Niuafu'ou	165	20	40	43	24	26	12	161	20	37	42	24	26	12	4		3	1			

Table 2.9B: Number of Non-Household Members 15 Years Old and Over Engaged in the Agricultural Activities of the Holdings During the Reference Month Prior to the Time of Visit, by Sex and Age, by Location of Holdings: 2001

Location of Holdings (Division/District)	Both Sexes							Male							Female						
	Total	15 - 24 yrs. old	25 - 34 yrs. old	35 - 44 yrs. old	45 - 54 yrs. old	55 - 64 yrs. old	65 yrs. & over	Total	15 - 24 yrs. old	25 - 34 yrs. old	35 - 44 yrs. old	45 - 54 yrs. old	55 - 64 yrs. old	65 yrs. & over	Total	15 - 24 yrs. old	25 - 34 yrs. old	35 - 44 yrs. old	45 - 54 yrs. old	55 - 64 yrs. old	65 yrs. & over
Tonga	644	187	233	130	57	30	7	619	184	227	123	51	28	6	25	3	6	7	6	2	1
Tongatapu	451	126	170	93	34	22	6	432	124	165	89	29	20	5	19	2	5	4	5	2	1
Kolofo'ou	14	7	5	2				14	7	5	2										
Kolomotu'a	69	13	33	14	5	4		68	13	33	14	4	4		1				1		
Vaini	189	51	67	45	12	9	5	179	50	64	44	10	7	4	10	1	3	1	2	2	1
Tatakamotonga	47	17	14	11	4		1	42	17	14	8	2		1	5			3	2		
Lapaha	36	18	7	2	4	5		35	17	7	2	4	5		1	1					
Nukunuku	63	13	28	15	5	2		61	13	26	15	5	2		2		2				
Kolovai	33	7	16	4	4	2		33	7	16	4	4	2								
Vava'u	138	48	42	24	16	7	1	132	47	41	21	15	7	1	6	1	1	3	1		
Neiafu	6		1		2	3		6		1		2	3								
Pangaimotu	19	9	2	5	2	1		19	9	2	5	2	1								
Hahake	9	2	3	3			1	9	2	3	3			1							
Leimatu'a	34	12	9	3	7	3		34	12	9	3	7	3								
Hihifo	70	25	27	13	5			64	24	26	10	4		6	1	1	3	1			
Ha'apai	12	4	2	4	2			12	4	2	4	2									
Pangai	4		1	2	1			4		1	2	1									
Foa	4	1		2	1			4	1		2	1									
Uiha	4	3	1					4	3	1											
Eua	36	9	14	7	5	1		36	9	14	7	5	1								
Eua Motu'a	27	5	12	7	3			27	5	12	7	3									
Eua Fo'ou	9	4	2		2	1		9	4	2		2	1								
Niuas	7		5	2				7		5	2										
Niuatoputapu	5		3	2				5		3	2										
Niuafu'ou	2		2	-				2		2											

Table 2.10A: Number of Persons 15 Years Old and Over Engaged in the Agricultural Activities of the Holdings During the Reference Past Week Prior to the Time of Visit, by Sex, Membership Status and Type of Labor, by Location of Holdings: 2001

Location of Holdings (Division/District)	Both Sexes									Male									Female								
	Total			Household			Non-Household			Total			Household			Non-Household			Total			Household Member			Non-Household		
	Operator	Paid	Unpaid	Operator	Paid	Unpaid	Operator	Paid	Unpaid	Operator	Paid	Unpaid	Operator	Paid	Unpaid	Operator	Paid	Unpaid	Operator	Paid	Unpaid	Operator	Paid	Unpaid	Operator	Paid	Unpaid
Tonga	10,316	279	2,998	10,245	10	2,694	71	269	304	10,164	270	2,710	10,094	9	2,422	70	261	288	152	9	288	151	1	272	1	8	16
Tongatapu	5,693	199	1,838	5,650	6	1,623	43	193	215	5,598	191	1,656	5,556	6	1,451	42	185	205	95	8	182	94	0	172	1	8	10
Kolofo'ou	114	7	35	113	0	29	1	7	6	112	7	31	111	0	25	1	7	6	2	0	4	2	0	4	0	0	0
Kolomotu'a	656	23	239	652	0	197	4	23	42	644	23	210	640	0	169	4	23	41	12	0	29	12	0	28	0	0	1
Vaini	1,675	83	602	1,654	4	513	21	79	89	1,650	81	537	1,630	4	455	20	77	82	25	2	65	24	0	58	1	2	7
Tatakamotonga	924	26	257	923	0	237	1	26	20	907	21	221	906	0	201	1	21	20	17	5	36	17	0	36	0	5	0
Lapaha	850	13	170	843	1	153	7	12	17	838	12	163	831	1	146	7	11	17	12	1	7	12	0	7	0	1	0
Nukunuku	984	37	376	979	1	354	5	36	22	969	37	343	964	1	323	5	36	20	15	0	33	15	0	31	0	0	2
Kolovai	490	10	159	486	0	140	4	10	19	478	10	151	474	0	132	4	10	19	12	0	8	12	0	8	0	0	0
Vava'u	2,323	73	505	2,304	2	457	19	71	48	2,301	72	427	2,282	1	385	19	71	42	22	1	78	22	1	72	0	0	6
Neiafu	297	3	66	296	0	64	1	3	2	295	3	62	294	0	60	1	3	2	2	0	4	2	0	4	0	0	0
Pangaimotu	221	17	51	221	0	49	0	17	2	220	17	41	220	0	39	0	17	2	1	0	10	1	0	10	0	0	0
Hahake	346	2	83	346	0	76	0	2	7	344	2	74	344	0	67	0	2	7	2	0	9	2	0	9	0	0	0
Leimatu'a	657	10	164	648	0	149	9	10	15	644	10	140	635	0	125	9	10	15	13	0	24	13	0	24	0	0	0
Hihifo	620	40	90	611	1	68	9	39	22	617	40	70	608	1	54	9	39	16	3	0	20	3	0	14	0	0	6
Motu	182	1	51	182	1	51	0	0	0	181	0	40	181	0	40	0	0	0	1	1	11	1	1	11	0	0	0
Ha'apai	1,102	1	320	1,101	1	309	1	0	11	1,088	1	309	1,087	1	298	1	0	11	14	0	11	14	0	11	0	0	0
Pangai	325	1	109	324	1	106	1	0	3	320	1	106	319	1	103	1	0	3	5	0	3	5	0	3	0	0	0
Foa	209	0	75	209	0	71	0	0	4	207	0	72	207	0	68	0	0	4	2	0	3	2	0	3	0	0	0
Lulunga	168	0	39	168	0	39	0	0	0	166	0	37	166	0	37	0	0	0	2	0	2	2	0	2	0	0	0
Mu'omu'a	96	0	13	96	0	13	0	0	0	96	0	13	96	0	13	0	0	0	0	0	0	0	0	0	0	0	0
Ha'ano	119	0	26	119	0	26	0	0	0	116	0	26	116	0	26	0	0	0	3	0	0	3	0	0	0	0	0
Uiha	185	0	58	185	0	54	0	0	4	183	0	55	183	0	51	0	0	4	2	0	3	2	0	3	0	0	0
Eua	868	6	277	862	1	252	6	5	25	856	6	264	850	1	239	6	5	25	12	0	13	12	0	13	0	0	0
Eua Motu'a	625	6	197	623	1	177	2	5	20	617	6	189	615	1	169	2	5	20	8	0	8	8	0	8	0	0	0
Eua Fo'ou	243	0	80	239	0	75	4	0	5	239	0	75	235	0	70	4	0	5	4	0	5	4	0	5	0	0	0
Niuas	330	0	58	328	0	53	2	0	5	321	0	54	319	0	49	2	0	5	9	0	4	9	0	4	0	0	0
Niuaotupapu	200	0	21	199	0	17	1	0	4	191	0	21	190	0	17	1	0	4	9	0	0	9	0	0	0	0	0
Niuafo'ou	130	0	37	129	0	36	1	0	1	130	0	33	129	0	32	1	0	1	0	0	4	0	0	4	0	0	0

Table 2.10B: Average Hours Worked by Persons 15 Years Old and Over Engaged in the Agricultural Activities of the Holdings During the Reference Past Week Prior to the Time of Visit, by Sex, Membership Status and Type of Labor, by Location of Holding: 2001

Location of Holdings (Division/District)	Both Sexes									Male									Female								
	Total			Household			Non-Household			Total			Household			Non-Household			Total			Household Member			Non-Household		
	Operator	Paid	Unpaid	Operator	Paid	Unpaid	Operator	Paid	Unpaid	Operator	Paid	Unpaid	Operator	Paid	Unpaid	Operator	Paid	Unpaid	Operator	Paid	Unpaid	Operator	Paid	Unpaid	Operator	Paid	Unpaid
Tonga	21.0	15.9	17.5	21.0	22.7	17.9	23.7	15.7	13.8	21.1	15.9	18.0	21.1	20.8	18.6	23.9	15.7	13.6	14.7	17.4	12.3	14.7	40.0	12.0	12.0	14.6	17.5
Tongatapu	20.6	14.6	16.8	20.6	18.2	17.1	23.9	14.5	13.8	20.7	14.6	17.3	20.7	18.2	17.8	24.2	14.5	13.7	14.9	14.6	11.9	14.9	11.7	12.0	14.6	14.9	
Kolofo'ou	18.0	11.0	15.5	18.1		15.2	6.0	11.0	16.8	18.3	11.0	15.8	18.4		15.6	6.0	11.0	16.8	3.5		12.5	3.5					
Kolomotu'a	14.2	12.4	10.3	14.1		10.4	30.8	12.4	9.5	14.3	12.4	10.8	14.2		11.1	30.8	12.4	9.7	8.0		6.5	8.0				1.0	
Vaini	20.4	12.1	15.1	20.4	25.3	15.8	23.4	11.4	11.4	20.5	11.9	15.4	20.4	25.3	16.2	24.0	11.2	11.2	17.6	18.5	12.7	17.9	12.5	12.0	18.5	14.3	
Tatakamotonga	20.9	20.9	19.8	20.9		20.2	40.0	20.9	14.1	21.1	24.0	20.7	21.1		21.3	40.0	24.0	14.1	12.4	8.0	14.1	12.4	14.1		8.0		
Lapaha	23.0	22.1	20.5	23.0	5.0	20.3	26.0	23.5	21.5	23.0	20.6	20.8	23.0	5.0	20.8	26.0	22.0	21.5	22.3	40.0	11.6	22.3	11.6		40.0		
Nukunuku	22.9	16.4	18.3	22.9	3.0	18.1	22.8	16.8	22.1	23.0	16.4	19.0	23.0	3.0	18.8	22.8	16.8	22.0	17.7		11.6	17.7	10.8			24.0	
Kolovai	21.1	10.6	20.3	21.1		20.9	18.0	10.6	16.6	21.4	10.6	20.6	21.4		21.1	18.0	10.6	16.6	10.6		16.1	10.6	16.1				
Vava'u	22.5	20.1	16.6	22.4	35.0	16.8	24.2	19.6	15.4	22.5	19.8	17.7	22.5	30.0	18.0	24.2	19.6	14.5	13.3	40.0	10.9	13.3	40.0	10.0		21.8	
Neiafu	18.7	24.7	14.5	18.7		14.7	24.0	24.7	9.5	18.8	24.7	14.5	18.8		14.7	24.0	24.7	9.5	9.0		14.0	9.0					
Pangaimotu	21.3	22.1	18.0	21.3		18.0	22.1	20.0	21.4	22.1	19.8	21.4	22.1		19.8	22.1	20.0	6.0	14.0		10.7	6.0					
Hahake	22.3	24.0	18.8	22.3		18.7	24.0	19.7	22.3	24.0	19.7	22.3	24.0		19.7	24.0	19.7	16.0	11.0		16.0	11.0					
Leimatu'a	23.2	20.4	16.4	23.3		17.0	19.6	20.4	10.4	23.4	20.4	17.5	23.4		18.4	19.6	20.4	10.4	16.2		10.0	16.2					
Hihifo	24.1	18.1	15.7	24.0	30.0	15.2	28.9	17.8	17.5	24.2	18.1	17.2	24.1	30.0	17.6	28.9	17.8	15.9	7.3		10.6	7.3			5.8	21.8	
Motu	21.8	40.0	16.9	21.8	40.0	16.9				21.9		18.1	21.9		18.1				4.0	40.0	12.3	4.0	40.0	12.3			
Ha'apai	18.4	24.0	18.3	18.4	24.0	18.4	24.0		13.7	18.4	24.0	18.4	18.4	24.0	18.6	24.0		13.7	15.5		14.5	15.5				14.5	
Pangai	19.4	24.0	20.2	19.4	24.0	20.5	24.0		10.0	19.4	24.0	20.1	19.4	24.0	20.4	24.0		10.0	20.4		22.7	20.4				22.7	
Foa	19.4		15.2	19.4		14.9			20.8	19.5		15.4	19.5		15.1			20.8	5.0		10.3	5.0				10.3	
Lulunga	16.3		20.7	16.3		20.7				16.3		20.6	16.3		20.6				13.0		23.0	13.0				23.0	
Mu'omu'a	17.5		19.5	17.5		19.5				17.5		19.5	17.5		19.5												
Ha'ano	19.4		20.0	19.4		20.0				19.4		20.0	19.4		20.0						17.0						17.0
Uiha	17.2		15.9	17.2		16.4			9.5	17.2		16.5	17.2		17.1			9.5			4.7					4.7	
Eua	24.8	7.3	22.3	24.8	24.0	23.9	24.0	4.0	7.2	24.9	7.3	22.1	24.9	24.0	23.7	24.0	4.0	7.2	18.7		26.8	18.7				26.8	
Eua Motu'a	24.6	7.3	21.3	24.5	24.0	23.1	39.0	4.0	5.4	24.7	7.3	21.1	24.7	24.0	22.9	39.0	4.0	5.4	11.8		26.0	11.8				26.0	
Eua Fo'ou	25.5		25.0	25.6		25.7	16.5		14.2	25.4		24.8	25.5		25.6	16.5		14.2	32.5		28.0	32.5				28.0	
Niuas	17.0		20.5	17.0		19.6	14.5		30.4	17.2		21.5	17.2		20.6	14.5		30.4	10.0		7.0	10.0				7.0	
Niuatoputapu	14.6		23.7	14.6		21.1	25.0		35.0	14.9		23.7	14.8		21.1	25.0		35.0	10.0			10.0					
Niuafu'ou	20.7		18.7	20.8		18.9	4.0		12.0	20.7		20.1	20.8		20.3	4.0		12.0			7.0					7.0	

Table 2.11: Number of Hired Laborers Forming Group Labor During the Reference Month Prior to the Time of Visit, by Sex, by Location of Holdings: 2001

Location of Holdings	Number of Laborers		
	Both Sexes	Male	Female
<b>Tonga</b>	<b>22,676</b>	<b>22,466</b>	<b>210</b>
Tongatapu	14,263	14,140	123
Kolofo'ou	95	95	
Kolomotu'a	727	726	1
Vaini	2,945	2,928	17
Tatakamotonga	3,783	3,772	11
Lapaha	3,325	3,239	86
Nukunuku	2,122	2,114	8
Kolovai	1,266	1,266	
Vava'u	4,668	4,643	25
Neiafu	282	282	
Pangaimotu	201	198	3
Hahake	340	340	
Leimatu'a	1,639	1,625	14
Hihifo	2,054	2,050	4
Motu	152	148	4
Ha'apai	1,156	1,153	3
Pangai	266	266	
Foa	578	578	
Lulunga	132	129	3
Mu'omu'a	2	2	
Ha'ano	90	90	
Uiha	88	88	
Eua	2,283	2,224	59
Eua Motu'a	1,533	1,492	41
Eua Fo'ou	750	732	18
Niuas	306	306	
Niuatoputapu	20	20	
Niuafu'ou	286	286	

**Table 2.12: Number of Holdings, by Main Source of Loans Availed for the Agricultural Activities in the Holding, by Location of Holdings: 2001**

Location of Holding (Division/District)	Total Number of Holdings with Availed Loans	Source of Loan				
		Tonga Development Bank	Other Banks	Exporters	Other Sources	Not Stated
<b>Tonga</b>	<b>1,386</b>	<b>1,239</b>	<b>122</b>	<b>9</b>	<b>15</b>	<b>1</b>
Tongatapu	596	518	53	9	15	1
Kolofo'ou	4	4				
Kolomotu'a	34	29	4		1	
Vaini	151	120	20	5	5	1
Tatakamotonga	116	99	14	1	2	
Lapaha	91	87	2		2	
Nukunuku	145	130	11	2	2	
Kolovai	55	49	2	1	3	
Vava'u	399	364	35			
Neiafu	27	25	2			
Pangaimotu	37	35	2			
Hahake	47	41	6			
Leimatu'a	114	101	13			
Hihifo	133	123	10			
Motu	41	39	2			
Ha'apai	119	112	7			
Pangai	46	42	4			
Foa	29	28	1			
Lulunga	6	6				
Mu'omu'a	11	9	2			
Ha'ano	9	9				
Uiha	18	18				
Eua	221	195	26			
Eua Motu'a	152	137	15			
Eua Fo'ou	69	58	11			
Niuas	51	50	1			
Niuatoputapu	16	16				
Niuafa'ou	35	34	1			

**Table 2.13: Number of Holdings Using Crops/Trees/Shrubs for Multi-purposes, by Uses of Crops/Trees/Shrubs, by Location of Holdings (Division/District): 2001**

Location of Holdings	Planted Crops/Trees/Shrubs for Multi-purposes										Did Not Plant Any Trees for Multi-purposes
	Total Holdings	Source of Food/Income	Support for Crops	Soil Improvement and Protection	Timber	Fuel	Shade/Shelter/Windbreaks	Boundaries	Handicrafts	Other Uses	
<b>Tonga</b>	<b>9,976</b>	<b>9,675</b>	<b>1,435</b>	<b>982</b>	<b>5,303</b>	<b>4,082</b>	<b>5,103</b>	<b>5,664</b>	<b>5,307</b>	<b>3,580</b>	<b>351</b>
Tongatapu	5,544	5,480	1,292	833	2,863	2,191	2,707	3,107	1,995	1,932	153
Kolofo'ou	111	111	19	7	36	29	44	69	33	28	3
Kolomotu'a	609	593	80	73	221	139	227	261	114	161	48
Vaini	1,632	1,613	415	253	755	384	850	908	467	523	45
Tatakamotonga	904	897	67	41	475	360	359	389	329	297	21
Lapaha	846	844	274	288	478	599	517	571	489	122	4
Nukunuku	961	944	355	83	566	369	427	604	353	524	23
Kolovai	481	478	82	88	332	311	283	305	210	277	9
Vava'u	2,206	2,035	64	38	1,567	1,153	1,414	1,140	1,733	470	117
Neiafu	268	209	5		180	120	171	85	200	23	29
Pangaimotu	207	165	5	4	134	109	135	82	162	36	14
Hahake	329	325	10	1	253	225	236	150	247	112	17
Leimatu'a	633	623	13	5	475	342	391	387	490	107	24
Hihifo	600	584	28	21	429	283	382	359	482	174	20
Motu	169	129	3	7	96	74	99	77	152	18	13
Ha'apai	1,070	1,054	33	17	313	274	543	863	888	475	35
Pangai	326	325	2	2	128	96	216	261	265	155	
Foa	210	208	6	2	70	66	134	174	177	89	1
Lulunga	157	148	14	8	24	22	41	114	111	23	11
Mu'omu'a	96	96	1	1	2	3	2	60	86	47	
Ha'ano	119	119	1		62	56	67	108	109	77	
Uiha	162	158	9	4	27	31	83	146	140	84	23
Eua	829	787	30	52	387	320	291	426	435	513	41
Eua Motu'a	597	567	19	41	276	238	217	292	301	363	30
Eua Fo'ou	232	220	11	11	111	82	74	134	134	150	11
Niuas	327	319	16	42	173	144	148	128	256	190	5
Niuatoputapu	201	199	14	38	109	116	92	87	168	173	
Niuafu'ou	126	120	2	4	64	28	56	41	88	17	5

**Table 2.14: Number and Area of Holdings (Acres) and Number of Parcels, by Location of Holdings: 2001**

Location of Holdings (Division/District)	Total Holdings		Number of Parcels
	Number	Area	
<b>Tonga</b>	<b>10,328</b>	<b>66,956</b>	<b>15,084</b>
Tongatapu	5,698	35,419	7,672
Kolofo'ou	114	283	165
Kolomotu'a	657	2,611	868
Vaini	1,677	9,862	2,239
Tatakamotonga	926	6,156	1,248
Lapaha	850	6,166	1,040
Nukunuku	984	6,487	1,404
Kolovai	490	3,853	708
Vava'u	2,323	14,568	3,499
Neiafu	297	1,245	485
Pangaimotu	221	1,268	288
Hahake	346	2,254	569
Leimatu'a	657	4,531	962
Hihifo	620	4,049	892
Motu	182	1,220	303
Ha'apai	1,105	6,462	1,827
Pangai	326	1,923	558
Foa	211	1,666	362
Lulunga	168	634	285
Mu'omu'a	96	474	111
Ha'ano	119	723	218
Uiha	185	1,043	293
Eua	870	8,030	1,458
Eua Motu'a	627	5,901	1,034
Eua Fo'ou	243	2,129	424
Niuas	332	2,477	628
Niuatoputapu	201	1,838	447
Niuafu'ou	131	639	181

**Table 2.15: Number and Area of Holdings (Acres) of Agriculturally Active Households, by Location of Holdings: 2001**

Location of Holdings (Division/District)	Total Holdings		Agriculturally Active Households					
	Number	Area	Subsistence Only		Subsistence with Cash Cropping		Commercial Crop Producer	
			Number	Area	Number	Area	Number	Area
<b>Tonga</b>	<b>10,328</b>	<b>66,956</b>	<b>6,013</b>	<b>28,813</b>	<b>4,061</b>	<b>31,768</b>	<b>254</b>	<b>6,375</b>
Tongatapu	5,698	35,419	3,884	17,278	1,662	13,958	152	4,183
Kolofo'ou	114	283	98	183	12	71	4	29
Kolomotu'a	657	2,611	521	1,454	121	870	15	287
Vaini	1,677	9,862	1,170	5,496	472	3,871	35	496
Tatakamotonga	926	6,156	647	2,987	255	2,235	24	934
Lapaha	850	6,166	562	3,264	262	2,169	26	732
Nukunuku	984	6,487	593	2,500	351	2,952	40	1,034
Kolovai	490	3,853	293	1,393	189	1,790	8	671
Vava'u	2,323	14,568	954	4,959	1,323	8,501	46	1,108
Neiafu	297	1,245	172	608	120	583	5	55
Pangaimotu	221	1,268	108	518	110	733	3	18
Hahake	346	2,254	240	1,544	97	615	9	96
Leimatu'a	657	4,531	146	740	499	3,081	12	711
Hihifo	620	4,049	190	997	415	2,862	15	189
Motu	182	1,220	98	553	82	627	2	40
Ha'apai	1,105	6,462	846	4,333	250	2,092	9	37
Pangai	326	1,923	265	1,383	61	540		
Foa	211	1,666	120	750	90	907	1	8
Lulunga	168	634	159	601	9	34		
Mu'omu'a	96	474	93	455	3	19		
Ha'ano	119	723	84	491	35	231		
Uiha	185	1,043	125	653	52	361	8	29
Eua	870	8,030	200	1,355	625	5,639	45	1,036
Eua Motu'a	627	5,901	160	1,063	430	3,964	37	874
Eua Fo'ou	243	2,129	40	292	195	1,676	8	162
Niuas	332	2,477	129	888	201	1,577	2	12
Niuatoputapu	201	1,838	93	714	108	1,124		
Niuafu'ou	131	639	36	174	93	453	2	12

**Table 2.16: Number and Area of Holdings (Acres), by Method of Operation, by Location of Holdings (Division/District)**

Location of Holdings (Division/District)	Total Holdings		Method of Operation					
	Number	Area	Individual Household on Own-Account		In Partnership		Institution	
			Number	Area	Number	Area	Number	Area
<b>Tonga</b>	<b>10,328</b>	<b>66,956</b>	<b>10,295</b>	<b>66,111</b>	<b>21</b>	<b>219</b>	<b>12</b>	<b>626</b>
Tongatapu	5,698	35,419	5,675	34,816	18	196	5	407
Kolofo'ou	114	283	114	283				
Kolomotu'a	657	2,611	654	2,403	2	28	1	180
Vaini	1,677	9,862	1,667	9,575	8	114	2	174
Tatakamotonga	926	6,156	922	6,091	2	12	2	53
Lapaha	850	6,166	849	6,158	1	8		
Nukunuku	984	6,487	980	6,460	4	27		
Kolovai	490	3,853	489	3,845	1	8		
Vava'u	2,323	14,568	2,323	14,568				
Neiafu	297	1,245	297	1,245				
Pangaimotu	221	1,268	221	1,268				
Hahake	346	2,254	346	2,254				
Leimatu'a	657	4,531	657	4,531				
Hihifo	620	4,049	620	4,049				
Motu	182	1,220	182	1,220				
Ha'apai	1,105	6,462	1,099	6,387	3	23	3	52
Pangai	326	1,923	323	1,905	2	12	1	6
Foa	211	1,666	208	1,609	1	11	2	46
Lulunga	168	634	168	634				
Mu'omu'a	96	474	96	474				
Ha'ano	119	723	119	723				
Uiha	185	1,043	185	1,043				
Eua	870	7,898	868	7,898			2	132
Eua Motu'a	627	5,901	625	5,769			2	132
Eua Fo'ou	243	2,129	243	2,129				
Niuas	332	2,477	330	2,442			2	35
Niuatoputapu	201	1,838	200	1,811			1	27
Niuafu'ou	131	639	130	631			1	8

**Table 2.17A: Number of Parcels in the Holding, by Size of Parcel, by Location of Parcel: 2001**

Location of Parcels (Division/District)	Total Number of Parcels	Size of Parcel					
		Less than 1.00 Acre	1.00 - 9.99 Acres	10.00 - 19.99 Acres	20.00 - 49.99 Acres	50.00 - 99.99 Acres	100.00 acres and over
<b>Tonga</b>	<b>15,084</b>	<b>2,709</b>	<b>11,998</b>	<b>276</b>	<b>74</b>	<b>11</b>	<b>16</b>
Tongatapu	7,672	1,362	6,118	133	41	9	9
Kolofo'ou	165	86	78		1		
Kolomotu'a	868	295	564	3	3	1	2
Vaini	2,237	373	1,810	38	9	4	3
Tatakamotonga	1,250	164	1,029	43	9	3	2
Lapaha	1,040	55	966	12	6		1
Nukunuku	1,404	277	1,090	27	8	1	1
Kolovai	708	112	581	10	5		
Vava'u	3,499	691	2,702	84	19	1	2
Neiafu	485	198	277	9	1		
Pangaimotu	288	41	229	16	2		
Hahake	569	151	403	12	3		
Leimatu'a	962	145	786	21	8	1	1
Hihifo	892	90	777	20	4		1
Motu	303	66	230	6	1		
Ha'apai	1,827	338	1,466	21	2		
Pangai	559	123	430	6			
Foa	361	59	291	10	1		
Lulunga	285	77	208				
Mu'omu'a	111	15	94	2			
Ha'ano	218	43	175				
Uiha	293	21	268	3	1		
Eua	1,458	118	1,285	38	11	1	5
Eua Motu'a	1,034	79	918	23	9		5
Eua Fo'ou	424	39	367	15	2	1	
Niuas	628	200	427		1		
Niuatoputapu	447	140	306		1		
Niuafu'ou	181	60	121				

**Table 2.17B: Area of Parcels (Acres) in the Holding, by Size of Parcel, by Location of Parcel: 2001**

Location of Parcels (Division/District)	Total Area of Parcels	Size of Parcel					
		Less than 1.00 Acre	1.00 - 9.99 Acres	10.00 - 19.99 Acres	20.00 - 49.99 Acres	50.00 - 99.99 Acres	100.00 acres and over
<b>Tonga</b>	<b>66,956</b>	<b>1,056</b>	<b>56,393</b>	<b>3,841</b>	<b>2,107</b>	<b>676</b>	<b>2,883</b>
Tongatapu	35,334	501	29,621	1,842	1,239	539	1,593
Kolofo'ou	294	24	241		30		
Kolomotu'a	2,651	116	2,029	43	76	80	308
Vaini	10,522	138	8,498	560	266	259	802
Tatakamotonga	6,107	72	4,827	563	285	150	210
Lapaha	6,220	26	5,664	164	193		173
Nukunuku	6,211	81	5,377	376	228	50	100
Kolovai	3,329	45	2,987	138	161		
Vava'u	14,598	288	12,032	1,204	494	52	528
Neiafu	1,300	74	1,070	123	32		
Pangaimotu	1,324	20	1,031	221	52		
Hahake	2,283	64	1,955	192	72		
Leimatu'a	4,331	61	3,377	298	214	52	328
Hihifo	4,129	42	3,507	280	100		200
Motu	1,232	27	1,091	90	24		
Ha'apai	6,507	132	6,055	271	48		
Pangai	1,931	47	1,805	80			
Foa	1,678	18	1,512	124	24		
Lulunga	647	34	613				
Mu'omu'a	474	7	442	26			
Ha'ano	725	17	708				
Uiha	1,052	10	976	41	24		
Eua	8,065	47	6,340	525	306	85	762
Eua Motu'a	5,957	34	4,590	309	262		762
Eua Fo'ou	2,108	13	1,751	216	44	85	
Niuas	2,452	87	2,345		20		
Niuatoputapu	1,833	66	1,747		20		
Niuafu'ou	619	21	598				

Table 2.18: Number and Area of Parcels (Acres) in the Holding, by Land Tenure, by Location of Parcel: 2001

Location of Parcel (Division/District)	Number of Parcels						Area of Parcels					
	Total	Legally Owned	Formal Leased	Rented (payment in cash/kind)	Used with permission of owner (free)	Others	Total	Legally Owned	Formal Leased	Rented (payment in cash/kind)	Used with permission of owner (free)	Others
Tonga	15,084	4,255	387	694	9,732	16	66,956	28,690	3,292	2,711	32,181	82
Tongatapu	7,672	2,157	269	323	4,917	6	35,334	15,043	2,283	1,691	16,294	23
Kolofo'ou	165	38	2	2	123		294	129	12	3	150	
Kolomotu'a	868	164	25	46	632	1	2,651	1,207	125	67	1,244	8
Vaini	2,237	502	126	157	1,449	3	10,522	3,443	931	870	5,273	5
Tatakamotonga	1,250	406	28	47	768	1	6,107	2,784	488	365	2,467	4
Lapaha	1,040	454	14	21	551		6,220	3,381	138	156	2,545	
Nukunuku	1,404	388	44	41	931		6,211	2,652	357	189	3,014	
Kolovai	708	205	30	9	463	1	3,329	1,448	233	41	1,601	6
Vava'u	3,499	1,012	52	310	2,124	1	14,598	6,913	647	665	6,364	8
Neiafu	485	111	2	61	311		1,300	642	24	90	543	
Pangaimotu	288	103	2	16	167		1,324	690	16	51	568	
Hahake	569	185	3	80	301		2,283	1,315	12	69	887	
Leimatu'a	962	221	24	59	658		4,331	1,630	463	173	2,064	
Hihifo	892	282	19	68	523		4,129	1,977	108	215	1,830	
Motu	303	110	2	26	164	1	1,232	660	24	67	473	8
Ha'apai	1,827	565	15	21	1,215	8	6,507	3,094	78	41	3,252	43
Pangai	559	130	9	2	418		1,931	803	23	1	1,105	
Foa	361	130	6	18	207		1,678	894	50	32	703	
Lulunga	285	84			201		647	290			357	
Mu'omu'a	111	46			65		474	293			182	
Ha'ano	218	82	2		134		725	366	3		356	
Uiha	293	93	1	1	190	8	1,052	449	3	8	550	43
Eua	1,458	280	37	37	1,004		8,065	2,696	215	309	4,846	
Eua Motu'a	1,034	257	27	33	717		5,957	2,001	138	294	3,525	
Eua Fo'ou	424	123	10	4	287		2,108	695	77	15	1,321	
Niuas	628	141	11	3	472	1	2,452	944	69	7	1,425	8
Niuatoputapu	447	64	11	3	368	1	1,833	430	69	7	1,320	8
Niuafu'ou	181	77			104		619	514			105	

**Table 2.19A: Number of Parcels in the Holding, by Main Land Use, by Location of Parcel: 2001**

Location of the Parcel (Division/District)	Total	Main Land Use							
		Land under annual crops	Land under perennial crops	Land under mixed crops	Land under preparation for planting	Land under fallow (5 years or less)	Land under bush/forest growth (>5 yrs. idle)	Land under Livestock	Land under non- agriculture use
<b>Tonga</b>	<b>15,084</b>	<b>8,134</b>	<b>1,180</b>	<b>5,221</b>	<b>51</b>	<b>275</b>	<b>115</b>	<b>93</b>	<b>15</b>
Tongatapu	7,672	5,585	463	1,427	31	95	15	50	6
Kolofo'ou	165	87	8	66		1	1	1	1
Kolomotu'a	868	729	28	94	7	6	1	3	
Vaini	2,237	1,458	242	501	2	9	3	20	2
Tatakamotonga	1,250	934	52	204	10	39	4	7	
Lapaha	1,040	691	85	245	3	8	4	3	1
Nukunuku	1,404	1,125	30	213	7	20	2	6	1
Kolovai	708	561	18	104	2	12		10	1
Vava'u	3,499	363	163	2,864	15	52	25	12	5
Neiafu	485	76	13	384	2	6	3	1	
Pangaimotu	288	21	8	249		4	5		1
Hahake	569	72	17	438	6	21	7	6	2
Leimatu'a	962	86	33	826	4	6	2	5	
Hihifo	892	58	78	742	3	7	3		1
Motu	303	50	14	225		8	5		1
Ha'apai	1,827	1,500	165	79	3	41	21	17	1
Pangai	559	490	8	28		15	8	10	
Foa	361	253	79	8	3	4	6	7	1
Lulunga	285	268	4	11		2			
Mu'omu'a	111	101	5	2		3			
Ha'ano	218	182	22	4		8	2		
Uiha	293	206	47	26		9	5		
Eua	1,458	371	357	615	2	66	30	14	3
Eua Motu'a	1,034	271	252	431	2	47	20	8	3
Eua Fo'ou	424	100	105	184		19	10	6	
Niuas	628	315	32	236		21	24		
Niuatoputapu	447	275	28	101		19	24		
Niuafa'ou	181	40	4	135		2			

**Table 2.19B: Area of Parcels (Acres) in the Holding, by Main Land Use, by Location of Parcel: 2001**

Location of the Parcel (Division/District)	Total	Main Land Use							
		Land under annual crops	Land under perennial crops	Land under mixed crops	Land under preparation for planting	Land under fallow (5 years or less)	Land under bush/forest growth (>5 yrs. idle)	Land under Livestock	Land under non- agriculture use
<b>Tonga</b>	<b>66,956</b>	<b>34,212</b>	<b>6,482</b>	<b>21,679</b>	<b>384</b>	<b>2,067</b>	<b>879</b>	<b>1,035</b>	<b>219</b>
Tongatapu	35,334	25,369	2,682	5,375	156	791	123	680	159
Kolofo'ou	294	118	45	86		*	8	30	8
Kolomotu'a	2,651	1,988	110	245	37	45	8	219	
Vaini	10,522	6,736	1,249	1,954	12	199	24	221	127
Tatakamotonga	6,107	4,577	444	699	38	275	27	47	
Lapaha	6,220	4,112	603	1,356	17	64	40	19	8
Nukunuku	6,211	5,174	124	631	45	137	16	76	8
Kolovai	3,329	2,664	108	404	8	71		67	8
Vava'u	14,598	1,177	722	11,853	94	369	223	126	34
Neiafu	1,300	154	39	1,033	7	40	20	8	
Pangaimotu	1,324	71	12	1,180		25	28		8
Hahake	2,283	222	117	1,588	54	168	62	56	16
Leimatu'a	4,331	313	73	3,783	16	44	40	62	
Hihifo	4,129	226	420	3,403	17	39	22		2
Motu	1,232	191	62	866		54	51		8
Ha'apai	6,507	4,857	905	249	10	229	137	117	4
Pangai	1,931	1,596	41	73		90	59	74	
Foa	1,678	990	522	35	10	27	47	44	4
Lulunga	647	599	15	22		11			
Mu'omu'a	474	403	40	10		21			
Ha'ano	725	580	95	11		34	5		
Uiha	1,052	689	193	98		46	26		
Eua	8,065	1,721	2,042	3,297	124	520	228	112	22
Eua Motu'a	5,957	1,300	1,453	2,504	124	335	156	64	22
Eua Fo'ou	2,108	421	590	793		185	72	48	
Niuas	2,452	1,088	131	906		159	168		
Niuatoputapu	1,833	990	103	430		143	168		
Niuafu'ou	619	99	28	476		16			

\* means less than 0.5 acre.

**Table 3.7B: Estimated Area of Crops Used as Boundary Crops (Acres), by Type of Crops and by Location of Parcel: 2001**

Name of Crops	Total	Tongatapu	Vava'u	Ha'apai	Eua	Niuas
<b>Total Area of Boundary Crops</b>	<b>91.78</b>	<b>51.58</b>	<b>13.86</b>	<b>15.97</b>	<b>6.60</b>	<b>3.72</b>
Faina (Pineapple)	0.01	0.01	*	*	*	*
Kape (Giant Taro)	0.33	0.24	*	0.03	0.06	
Koane (Corn)	0.02	0.01	*	*	*	
Piini (Bush Bean)	*	*	*	*		
Talo Futuna (American Taro)	*	*	*	*	*	
Talo Tonga (Common Taro)	0.01	0.01	*	*		
To (Sugarcane)	1.34	0.87	0.17	0.18	0.09	0.03
Avoka (Avocado)	0.08	0.06	0.02			
Fau	0.92	0.67	0.04	0.10	0.03	0.07
Fekika (Food/Timber)	0.17	0.10	0.04	0.02		
Fiki	0.28	0.15	0.11	0.02		
Hiapo (Paper Mulberry)	0.03	0.02	0.01		0.01	*
Hopa or Pata (Banana Plantain)	3.19	1.74	0.51	0.61	0.31	0.02
Kauri/Kauli (Agatha Robusta-Timber)	0.26	0.11	0.09	0.02	0.05	
Kava Tonga (Kava)	0.02	0.01	*	*	*	0.01
Koka	0.09	0.02	0.05	0.02		
Lesi (Papaya)	0.13	0.06	0.02	0.04	*	
Lou'akau (Pandanus)	24.96	6.68	9.74	6.38	1.56	0.60
Loupata	0.08	0.04	0.01			0.03
Mango	1.15	0.50	0.31	0.25	0.10	
Mei (Breadfruit)	0.45	0.17	0.14	0.06	0.05	0.04
Misipeka (Banana Ladyfinger)	0.02	0.01	0.01	*	*	
Moli (Citrus Orange)	0.43	0.08	0.01	0.02	0.32	0.01
Ngatae	0.34	0.15	0.08	0.04	0.06	0.02
Niu (Coconut)	45.02	31.68	1.06	7.00	2.54	2.74
Nonu (Beach Mulberry)	0.08	0.03		0.01		0.04
Oke	0.09	0.06	0.01	*	0.02	
Paini (Pine Tree)	0.71	0.18	0.11	0.01	0.41	
Pele (Hibiscus Manihot)	6.40	5.20	0.48	0.50	0.20	0.03
Pulukamu (Eucalyptus)	0.49	0.28	0.06	0.02	0.12	
Siaine (Banana)	1.76	1.16	0.14	0.33	0.13	
Sita (Red Cedar)	0.55	0.13	0.14	0.01	0.27	*
Tanetane	0.22	0.21	0.01	0.01		
Tava (Pacific Lychee)	0.21	0.07	0.06	0.07	0.01	
Tavahi	0.08	0.02	0.02		0.02	0.02
Toa	0.09	0.02	0.03	0.01	0.02	0.01
Tuitui (Candlenut)	0.10	0.06		0.02	0.01	0.01
Vanila (Vanilla)	0.01	*	*	*	*	*
Vavae (Kapok)	0.29	0.19	0.06		0.02	0.02
Akaupapa (Other Trees)	1.36	0.59	0.32	0.20	0.21	0.04

\* means the area planted is very nil.

**Table 3.1B: Area of Separate Plots (Acres) in the Parcel, by Area and by Location of Parcel: 2001**

Location of Parcel (Division/District)	Total Area of Parcels	Size of Parcel				
		Less than 1 acre	1 - 9 acres	10 -19 acres	20 - 99 acres	100 acres and over
<b>Tonga</b>	<b>66,330</b>	<b>1,056</b>	<b>56,328</b>	<b>3,773</b>	<b>2,491</b>	<b>2,683</b>
Tongatapu	34,927	501	29,597	1,831	1,506	1,493
Kolofo'ou	294	24	241		30	
Kolomotu'a	2,471	116	2,029	43	76	208
Vaini	10,364	138	8,490	560	375	802
Tatakamotonga	6,038	72	4,811	552	393	210
Lapaha	6,220	26	5,664	164	193	173
Nukunuku	6,211	81	5,377	376	278	100
Kolovai	3,329	45	2,987	138	161	
Vava'u	14,598	288	12,032	1,204	546	528
Neiafu	1,300	74	1,070	123	32	
Pangaimotu	1,324	20	1,031	221	52	
Hahake	2,283	64	1,955	192	72	
Leimatu'a	4,331	61	3,377	298	266	328
Hihifo	4,129	42	3,507	280	100	200
Motu	1,232	27	1,091	90	24	
Ha'apai	6,455	132	6,029	245	48	
Pangai	1,914	47	1,788	80		
Foa	1,643	18	1,503	98	24	
Lulunga	647	34	613			
Mu'omu'a	474	7	442	26		
Ha'ano	725	17	708			
Uiha	1,052	10	976	41	24	
Eua	7,934	47	6,340	493	391	662
Eua Motu'a	5,826	34	4,590	278	262	662
Eua Fo'ou	2,108	13	1,751	216	129	
Niuas	2,417	87	2,330			
Niuatoputapu	1,806	66	1,740			
Niuafu'ou	611	21	590			

**Table 3.2A: Number of Separate Plots in the Parcel, by Method of Sowing and by Location of Parcel: 2001**

Location of Parcel (Division/District)	Total Number of Separate Plots	Method of Sowing		
		Single Crop	Mixed Crop	Scattered Pattern
<b>Tonga</b>	<b>32,794</b>	<b>18,724</b>	<b>13,662</b>	<b>408</b>
Tongatapu	18,429	12,127	6,069	233
Kolofo'ou	286	144	135	7
Kolomotu'a	1,728	969	753	6
Vaini	5,560	3,798	1,703	59
Tatakamotonga	2,854	1,885	922	47
Lapaha	2,814	1,910	846	58
Nukunuku	3,396	2,301	1,061	34
Kolovai	1,791	1,120	649	22
Vava'u	5,780	1,785	3,994	1
Neiafu	722	187	535	
Pangaimotu	488	167	321	
Hahake	917	284	633	
Leimatu'a	1,550	368	1,182	
Hihifo	1,560	566	993	1
Motu	543	213	330	
Ha'apai	4,593	2,966	1,579	48
Pangai	1,407	866	539	2
Foa	895	516	341	38
Lulunga	649	453	196	
Mu'omu'a	324	257	64	3
Ha'ano	586	393	188	5
Uiha	732	481	251	
Eua	2,999	1,512	1,377	110
Eua Motu'a	2,154	1,104	961	89
Eua Fo'ou	845	408	416	21
Niuas	993	334	643	16
Niuatoputapu	695	285	396	14
Niuafu'ou	298	49	247	2

**Table 3.2B: Area of Separate Plots (Acres) in the Parcel, by Method of Sowing and by Location of Parcel: 2001**

Location of Parcel (Division/District)	Total Area of Separate Plots	Method of Sowing		
		Single Crop	Mixed Crop	Scattered Pattern
<b>Tonga</b>	<b>43,063</b>	<b>24,652</b>	<b>17,884</b>	<b>527</b>
Tongatapu	24,829	17,491	7,031	307
Kolofo'ou	201	116	82	2
Kolomotu'a	1,651	913	734	3
Vaini	7,718	5,617	1,958	143
Tatakamotonga	4,301	2,864	1,380	57
Lapaha	4,136	2,967	1,112	58
Nukunuku	4,611	3,466	1,116	30
Kolovai	2,210	1,549	648	14
Vava'u	8,924	2,411	6,512	1
Neiafu	671	155	516	
Pangaimotu	604	168	436	
Hahake	1,054	260	793	
Leimatu'a	3,028	711	2,317	
Hihifo	3,017	921	2,096	1
Motu	549	196	353	
Ha'apai	3,644	2,296	1,258	90
Pangai	925	563	361	1
Foa	907	541	290	77
Lulunga	462	299	164	
Mu'omu'a	309	240	63	6
Ha'ano	365	228	132	6
Uiha	676	426	250	
Eua	4,864	2,273	2,477	114
Eua Motu'a	3,548	1,713	1,741	94
Eua Fo'ou	1,317	559	737	20
Niuas	802	181	605	16
Niuatoputapu	531	154	362	16
Niuafu'ou	271	27	244	1

**Table 3.3A: Number of Separate Plots in the Parcel Without Planted Crops, by Location of Parcel: 2001**

Location of Parcel (Division/District)	Total Number of Separate Plots	Status of Plots				
		Fallow, Idle	Waiting to be Planted	Under Bush	Under Livestock	Other Status (House, Quarry, etc.)
<b>Tonga</b>	<b>5,594</b>	<b>4,504</b>	<b>251</b>	<b>597</b>	<b>216</b>	<b>26</b>
Tongatapu	2,605	2,089	201	160	135	20
Kolofo'ou	29	20	2	3	3	1
Kolomotu'a	201	148	15	20	16	2
Vaini	643	470	61	55	44	13
Tatakamotonga	510	386	72	32	19	1
Lapaha	555	529	6	13	6	1
Nukunuku	392	300	31	32	28	1
Kolovai	275	236	14	5	19	1
Vava'u	1,233	1,033	5	167	27	1
Neiafu	140	107	1	28	3	1
Pangaimotu	139	104		34	1	
Hahake	257	229		15	13	
Leimatu'a	256	241	1	8	6	
Hihifo	303	283	3	13	4	
Motu	138	69		69		
Ha'apai	848	716	37	63	29	3
Pangai	278	227	20	11	20	
Foa	178	135	13	20	8	2
Lulunga	79	74		4		1
Mu'omu'a	56	54	1	1		
Ha'ano	130	108	3	18	1	
Uiha	127	118		9		
Eua	610	453	8	122	25	2
Eua Motu'a	428	319	8	81	18	2
Eua Fo'ou	182	134		41	7	
Niuas	298	213		85		
Niuatoputapu	236	197		39		
Niuafu'ou	62	16		46		

**Table 3.3B: Area of Separate Plots (Acres) in the Parcel Without Planted Crops, by Location of Parcel: 2001**

Location of Parcel (Division/District)	Total Number of Separate Plots	Status of Plots				
		Fallow, Idle	Waiting to be Planted	Under Bush	Under Livestock	Other Status (House, Quarry, etc.)
<b>Tonga</b>	<b>23,267</b>	<b>17,587</b>	<b>614</b>	<b>3,330</b>	<b>1,681</b>	<b>55</b>
Tongatapu	10,099	7,747	460	802	1,059	32
Kolofo'ou	94	51	1	33	9	1
Kolomotu'a	820	462	31	76	251	1
Vaini	2,646	1,959	130	197	337	23
Tatakamotonga	1,736	1,245	141	206	144	*
Lapaha	2,083	1,960	13	82	28	1
Nukunuku	1,600	1,150	92	182	171	6
Kolovai	1,119	921	53	26	119	*
Vava'u	5,674	4,590	9	867	204	4
Neiafu	629	444	2	159	19	4
Pangaimotu	719	533		178	8	
Hahake	1,229	1,043		95	92	
Leimatu'a	1,303	1,172	1	64	67	
Hihifo	1,112	1,047	7	41	18	
Motu	682	352		330		
Ha'apai	2,810	2,312	54	281	161	3
Pangai	990	788	29	62	112	
Foa	736	558	22	107	48	2
Lulunga	185	169		15		1
Mu'omu'a	165	160	1	4		
Ha'ano	360	302	3	53	2	
Uiha	376	335		41		
Eua	3,070	1,814	92	890	258	16
Eua Motu'a	2,278	1,263	92	699	208	16
Eua Fo'ou	792	551		191	50	
Niuas	1,614	1,124		490		
Niuatoputapu	1,275	1,023		252		
Niuafu'ou	340	102		238		

\* means less than an acre

**Table 3.4: Area Planted to Single Crops (Acres), by Type of Crops and by Location of Parcel: 2001**

Name of Crops	Total	Tongatapu	Vava'u	Ha'apai	Eua	Niuas
<b>Total Area Planted to Single Crops</b>	<b>24652</b>	<b>17491</b>	<b>2411</b>	<b>2296</b>	<b>2273</b>	<b>181</b>
Cucumber	6	6				
Faina (Pineapple)	346	137	152	43	14	*
Hina (Squash)	3487	3330	7	1	149	
Kaloti (Carrot)	19	16	3	*	1	*
Kape (Giant Taro)	352	190	33	107	18	3
Kapisi (Head Cabbage)	19	18	1	1	*	
Kapisi Siaina (Chinese Cabbage)	2	2			*	
Koane (Corn)	23	22		1		
Kumala (Sweet Potato)	1229	960	60	88	112	9
Letisi (Lettuce)	6	6			0	
Manioke (Cassava)	6206	4354	506	1024	260	62
Meleni (Watermelon)	587	496	46	26	17	2
Onioni Tonga (Spring Onion)	1	1				
Paingani (Eggplant)	14	14			1	
Pateta (Potato)	41	37		1	4	
Piini (Bush Bean)	6	5	1		*	
Piini Tonga (Tongan Bean)	3	3				
Piini Totolo (Climbing Bean)	3	2		*	*	1
Pinati (Peanut)	114	109	4		1	
Polo (Capsicum)	22	22				
Sinisa (Ginger)	1	1				
Sukini (Zucchini)	2	2				
Talo Futuna (American Taro)	3247	2690	51	298	206	2
Talo Tonga (Common Taro)	2449	2200	41	76	130	3
Temata (Tomato)	89	80	3	2	4	
To (Sugarcane)	7	1	2	5		
Ufilei (Sweet Yam)	98	22	14	19		43
Ufi tokamu'a (Early Yam)	1313	1059	28	60	162	5
Ufi tokamui (Late Yam)	596	494	1	54	40	7
Aloe (Aloevera)	16	16				
Ai (Canarium Harvey-Nut)	4				4	
Citrus Pomelo	1	1				
Custard Apple	3	3				
Fekika (Food/Timber)	1	1				
Hiapo (Paper Mulberry)	577	295	23	177	79	5
Hopa or Pata (Banana-Plantain)	115	29	13	57	12	4
Ifi (Tahitian Chestnut)	1	1				
Kauri/Kauli (Agatha Robusta-Timbe)	2	1			1	
Kava Tonga (Kava)	2159	287	877	165	797	33
Kofi (Coffee)	25	21		1	3	
Koko (Cocoa)	1		1			
Kuava (Guava)	6	1	1		2	2
Lesi (Papaya)	32	31			1	
Lopa	1	1				
Lou'akau (Pandanus)	96	3	21	62	3	7
Mango	1	1				
Niu (Coconut)	311	280	1	31		
Nonu (Beach Mulberry)	8	8				
Oke	1		1			
Paini (Pine Tree)	6	2	2		3	
Pasione (Passionfruit)	1	1			1	
Pele (Hibiscus Manihot)	9	8	1			
Sesipania	1	1				
Siaine (Banana)	87	58	2	22	5	
Sita (Red Cedar)	4	0			4	
Tavahi	8	2	2		4	
Toi (Timber)	4	2	2			
Vanila (Vanilla)	1123	317	514	6	286	1
Akaupapa (Other Trees)	5	3	1		1	

\* means less than an acre

**Table 3.5: Single Crop Equivalent Area of Crops in Mixed Pattern (Acres), by Type of Crops and by Location of Parcel: 2001**

Name of Crops	Total	Tongatapu	Vava'u	Ha'apai	Eua	Niuas
<b>Total Area Planted to Mixed Crops</b>	<b>17815</b>	<b>7013</b>	<b>6474</b>	<b>1256</b>	<b>2468</b>	<b>604</b>
Cucumber	6	4	2			
Faina (Pineapple)	138	23	105	6	4	1
Hina (Squash)	46	45	*		2	
Kaloti (Carrot)	29	21	6	*	2	
Kape (Giant Taro)	2198	747	984	186	202	79
Kapisi (Head Cabbage)	24	16	6	1	1	
Kapisi Siaina (Chinese Cabbage)	5	3	*	*	*	*
Koane (Corn)	39	28	8	1	1	*
Kumala (Sweet Potato)	159	90	23	8	26	12
Letisi (Lettuce)	10	8	2	0	0	
Manioke (Cassava)	512	214	161	46	52	39
Meleni (Watermelon)	64	37	16	6	3	2
Onioni Tonga (Spring Onion)	7	6	1	*	*	
Paingani (Eggplant)	1	1	*			*
Pateta (Potato)	5	3	1			
Piini (Bush Bean)	14	11	3		*	
Piini Tonga (Tongan Bean)	2	*	1		*	
Piini Totolo (Climbing Bean)	5	4	1	*		
Pinati (Peanut)	2	1	1	*		
Polo (Capsicum)	23	14	8	*	1	*
Sinisa (Ginger)	5	*	*		4	
Sukini (Zucchini)	4	3	*	*	1	
Talo Futuna (American Taro)	1880	688	684	153	316	40
Talo Tonga (Common Taro)	2434	1007	834	67	445	82
Temata (Tomato)	47	27	13	2	5	1
To (Sugarcane)	4	2	2			*
Ufilei (Sweet Yam)	61	11	24	5	2	20
Ufi tokamu'a (Early Yam)	4111	2487	850	374	330	71
Ufi tokamui (Late Yam)	1532	962	300	174	60	36
Aloe (Aloevera)	1	1				
Ai (Canarium Harvey-Nut)	6	*	6		*	
Avoka (Avocado)	3	1	1	1	1	
Custard Apple	3		1		2	
Fekika kai (Food/Timber)	8	7	*	*	*	
Heilala (Flowering Tree)	1				1	
Hiapo (Paper Mulberry)	199	81	20	18	79	*
Hopa or Pata (Banana-Plantain)	730	201	317	105	62	46
Ifi (Tahitian Chestnut)	1	1			*	
Jackfruit	3	*	1			1
Kauri/Kauli (Agatha Robusta-Timber)	1				1	
Kava Tonga (Kava)	3115	128	1892	55	864	175
Kofi (Coffee)	5	4	*	1		
Koka	1				1	
Kuava (Guava)	6	1	4			1
Lesi (Papaya)	5	3	2	*		
Lou'akau (Pandanus)	4	2	1	1	1	
Mango	3	2	*		1	*
Mei (Breadfruit)	1	1				
Misipeka (Ladyfinger)	2	*	2			
Ngatata (Falcata-Timber)	1		1			
Niu (Coconut)	6	4			2	
Pele (Hibiscus Manihot)	14	10	3	1	*	
Pulukamu (Eucalyptus)	2				2	
Siaine (Banana)	329	120	136	45	24	3
Sita (Red Cedar)	2	1			1	
Toi (Timber)	3	1	1		*	*
Tuitui (Candlenut)	1	1	*			
Vanila (Vanilla)	92	13	47	1	32	
Vavae (Kapok)	1		1	*		

\* means less than an acre

**Table 3.6A: Number of Crops in Scattered Pattern, by Type of Crops and by Location of Parcel: 2001**

Name of Crops	Total	Tongatapu	Vava'u	Ha'apai	Eua	Niuas
Faina (Pineapple)	39	15	5	11	1	7
Kape (Giant Taro)	44	38	1	2	3	
Koane (Corn)	15	13	1		1	
Talo Tonga (Common Taro)	11	3		8		
To (Sugarcane)	75	49	4	10	11	1
Ahi (Sandalwood)	172	116	6	16	34	
Ai (Canarium Harvey-Nut)	356	6	316	4	29	1
Avoka (Avocado)	616	449	62	31	69	5
Citrus Grapefruit	41	8	5	1	26	1
Citrus Lemon	149	69	21	25	30	4
Citrus Lime	74	34	7	12	17	4
Citrus Pomelo	15	5	5	2	1	2
Custard Apple	159	60	70	16	7	6
Fa	10	1		1	1	7
Fau	783	352	34	111	70	216
Fekika (Food/Timber)	1,138	169	673	180	59	57
Feta'u	12	6		3		3
Fiki	19	7	10			2
Fo'ui	61	20	7	15	19	
Fuko	27	5	1	20		1
Futu	14	6		2	2	4
Hehea	82	31	3	26	6	16
Heilala (Flowering Tree)	148	63	33	36	8	8
Hiapo (Paper Mulberry)	203	89	15	8	87	4
Hopa or Pata (Banana-Plantain)	711	414	32	241	24	
Ifi (Tahitian Chestnut)	1,861	945	422	341	88	65
Kalosipani	10	6		3	1	
Kanume	10	2	1	5	1	1
Kasia	11	9	1		1	
Kauri/Kauli (Agatha Robusta-Timber)	42	26	9		7	
Kava Tonga (Kava)	76	28	3	1	39	5
Kofepitu	30	16	3	8		3
Kofi (Coffee)	11	7		1	2	1
Koka (Meila Azedarach-Timber)	1,966	1,245	284	183	237	17
Koko (Cocoa)	12	9	3			
Kotone	18	6		3	9	
Kuava (Guava)	438	210	60	37	74	57
Langakali	11	6	1	2		2
Lesi (Papaya)	2,485	1,198	740	198	208	141
Lopa	83	43	20	12	6	2
Lou'akau (Pandanus)	1,151	483	240	192	169	67
Loupata	657	228	141	100	80	108
Mafua	43					43
Maile	12	2		1		9
Malolo	13	6		2		5
Manau	36	6	26	3	1	
Mangele	10	1		2	1	6
Mango	7,924	4,284	1,685	1,241	438	276
Manonu (Tarenna Sambucina-Medicinal)	65	4	12	6	32	11
Masi	10	9			1	
Masikoka	27	1	9	14	3	
Mei (Breadfruit)	4,883	2,262	1,261	838	346	176
Milo	14	2	1	9		2
Mohokoi (Canaga Odorata)	106	42	11	21	2	30
Moli (Citrus Orange)	2,052	613	392	381	545	121
Moli Inu (Citrus Mandarin)	120	56	21	16	16	11
Mo'ota	57	3	17	1	8	28
Motou	86	1	85			
Nati	26	17	1		8	
Ngatae	52	20	6	10	3	13
Ngatata (Falcata-Timber)	84	6	29	3	46	

**Table 3.6A: Number of Crops in Scattered Pattern, by Type of Crops and by Location of Parcel:  
2001 (Con't)**

Name of Crops	Total	Tongatapu	Vava'u	Ha'apai	Eua	Niuas
Niu (Coconut)	10,064	4,828	2,796	1,357	652	431
Nonu (Beach Mulberry)	520	164	59	120	25	152
Oke	39	31	3		5	
Ovava	33	15	3	6	9	
Paini (Pine Tree)	94	49	9	1	34	1
Pasione (Passionfruit)	49	20	18	1	4	6
Pele (Hibiscus Manihot)	123	88	7	18	10	
Pipi	35	22	7		3	3
Poumuli	12					12
Pua Tonga	61	48	3	1	6	3
Pulukamu (Eucalyptus)	81	58	4	2	17	
Salato	10				10	
Sesipania	16	8	5		2	1
Si	18	12	3	3		
Siaine (Banana)	638	420	20	177	21	
Siale tonga (Lot)	21	1		1		19
Sialemohemohe (Leucena)	259	180	15	60	2	2
Sinamoni (Cinamon)	31	19	2	3	5	2
Sita (Red Cedar)	439	330	45	9	54	1
Tamaline (Tamarind)	11	9	1	1		
Tamanu	76	3	4	3	66	
Tanetane	10	4	4			2
Tangato	12	1	3		8	
Tava (Pacific Lychee)	3,036	1,665	555	646	132	38
Tavahi	1,167	204	345	82	332	204
Telie	69	47	5	9	5	3
Toa	37	22	5	3	4	3
Toi (Timber)	327	27	119	14	151	16
Tongo (Mangrove)	21	15	3	2		1
Tuitui (Candlenut)	493	257	50	73	80	33
Uhi	32	10	1	12	1	8
Vanila (Vanilla)	32	7	3		20	2
Vavae (Kapok)	102	70	6	13	6	7
Vi (Plum)	367	103	179	15	16	54
Volovalo	17	5		4		8
Akaupapa (Other Trees)	324	108	35	33	92	56

**Table 3.6B: Estimated Area of Crops in Scattered Pattern (Acres), by Type of Crops and by Location of Parcel: 2001**

Name of Crops	Total	Tongatapu	Vava'u	Ha'apai	Eua	Niuas
<b>Total Area in Scattered Pattern</b>	<b>203.99</b>	<b>95.76</b>	<b>47.23</b>	<b>30.73</b>	<b>19.54</b>	<b>10.72</b>
Faina (Pineapple)	0.31	0.12	0.04	0.09	0.01	0.06
Kape (Giant Taro)	0.35	0.30	0.01	0.02	0.02	
Koane (Corn)	0.12	0.10	0.01		0.01	
Talo Tonga (Common Taro)	0.09	0.02		0.06		
To (Sugarcane)	0.60	0.39	0.03	0.08	0.09	0.01
Ahi (Sandalwood)	1.37	0.92	0.05	0.13	0.27	
Ai (Canarium Harvey-Nut)	2.83	0.05	2.51	0.03	0.23	0.01
Avoka (Avocado)	4.89	3.56	0.49	0.25	0.55	0.04
Citrus Grapefruit	0.33	0.06	0.04	0.01	0.21	0.01
Citrus Lemon	1.17	0.54	0.17	0.20	0.24	0.03
Citrus Lime	0.58	0.27	0.06	0.10	0.13	0.03
Citrus Pomelo	0.11	0.04	0.04	0.01	0.01	0.02
Custard Apple	1.26	0.48	0.56	0.13	0.06	0.05
Fa	0.08	0.01		0.01	0.01	0.06
Fau	6.20	2.79	0.27	0.87	0.56	1.71
Fekika (Food/Timber)	9.02	1.33	5.34	1.43	0.47	0.45
Feta'u	0.10	0.05		0.02		0.02
Fiki	0.15	0.06	0.08			0.02
Fo'ui	0.48	0.16	0.06	0.12	0.15	
Fuko	0.21	0.04	0.01	0.15		0.01
Futu	0.11	0.05		0.02	0.02	0.03
Hehea	0.32	0.12	0.01	0.10	0.02	0.06
Heilala (Flowering Tree)	1.17	0.50	0.26	0.29	0.06	0.06
Hiapo (Paper Mulberry)	1.61	0.71	0.12	0.06	0.69	0.03
Hopa or Pata (Banana-Plantain)	1.04	0.61	0.05	0.35	0.03	
Ifi (Tahitian Chestnut)	14.74	7.48	3.35	2.70	0.70	0.51
Kalosipani	0.08	0.05		0.02	0.01	
Kanume	0.08	0.02	0.01	0.04	0.01	0.01
Kasia	0.09	0.07	0.01		0.01	
Kauri/Kauli (Agatha Robusta-Timber)	0.17	0.10	0.04		0.03	
Kava Tonga (Kava)	0.04	0.02	0.00	0.00	0.02	0.00
Kofepitu	0.24	0.13	0.02	0.06		0.02
Kofi (Coffee)	0.09	0.06		0.01	0.02	0.01
Koka (Meila Azedarach-Timber)	15.60	9.88	2.25	1.45	1.88	0.13
Koko (Cocoa)	0.10	0.07	0.02			
Kotone	0.14	0.05		0.02	0.07	
Kuava (Guava)	3.48	1.67	0.48	0.29	0.59	0.45
Langakali	0.09	0.05	0.01	0.02		0.02
Lesi (Papaya)	4.13	1.99	1.23	0.33	0.35	0.23
Lopa	0.66	0.34	0.16	0.10	0.05	0.02
Lou'akau (Pandanus)	1.92	0.81	0.40	0.32	0.28	0.11
Loupata	5.19	1.80	1.12	0.79	0.63	0.85
Mafua	0.34					0.34
Maile	0.10	0.02		0.01		0.07
Malolo	0.10	0.05		0.02		0.04
Manau	0.29	0.05	0.21	0.02	0.01	
Mangele	0.08	0.01		0.02	0.01	0.05
Mango	62.79	33.94	13.37	9.83	3.47	2.17
Manonu (Tarenna Sambucina-Medicin)	0.52	0.03	0.10	0.05	0.25	0.09
Masi	0.08	0.07			0.01	
Masikoka	0.21	0.01	0.07	0.11	0.02	
Mei (Breadfruit)	38.69	17.92	10.01	6.63	2.74	1.39
Milo	0.11	0.02	0.01	0.07		0.02
Mohokoi (Canaga Odorata)	0.83	0.33	0.09	0.17	0.02	0.23
Moli (Citrus Orange)	16.25	4.87	3.11	3.01	4.31	0.95
Moli Inu (Citrus Mandarin)	0.95	0.44	0.17	0.13	0.13	0.09
Mo'ota	0.45	0.02	0.13	0.01	0.06	0.22
Motou	0.68	0.01	0.67			
Nati	0.21	0.13	0.01		0.06	

**Table 3.6B: Estimated Area of Crops in Scattered Pattern (Acres), by Type of Crops and by Location of Parcel: 2001 (Con't)**

Name of Crops	Total	Tongatapu	Vava'u	Ha'apai	Eua	Niuas
Ngatae	0.41	0.16	0.05	0.08	0.02	0.10
Ngatata (Falcata-Timber)	0.67	0.05	0.23	0.02	0.37	
Niu (Coconut)	201.02	96.52	55.92	27.00	13.04	8.54
Nonu (Beach Mulberry)	4.11	1.29	0.47	0.95	0.20	1.20
Oke	0.15	0.12	0.01		0.02	
Ovava	0.26	0.12	0.02	0.05	0.07	
Paini (Pine Tree)	0.37	0.19	0.04	0.00	0.13	0.00
Pasione (Passionfruit)	0.39	0.16	0.14	0.01	0.03	0.05
Pele (Hibiscus Manihot)	0.98	0.70	0.06	0.14	0.08	
Pipi	0.28	0.17	0.06		0.02	0.02
Poumuli	0.05					0.05
Pua Tonga	0.48	0.38	0.02	0.01	0.05	0.02
Pulukamu (Eucalyptus)	0.32	0.23	0.02	0.01	0.07	
Salato	0.08				0.08	
Sesipania	0.13	0.06	0.04		0.02	0.01
Si	0.14	0.10	0.02	0.02		
Siaine (Banana)	0.94	0.62	0.03	0.26	0.03	
Siale tonga/ Lot	0.17	0.01	0.00	0.01		0.15
Sialemohemohe (Leucena)	1.01	0.71	0.06	0.23	0.01	0.01
Sinamoni (Cinamon)	0.25	0.15	0.02	0.02	0.04	0.02
Sita (Red Cedar)	1.73	1.30	0.18	0.04	0.21	0.00
Tamaline (Tamarind)	0.09	0.07	0.01	0.01		
Tamanu	0.30	0.01	0.02	0.01	0.26	
Tanetane	0.08	0.03	0.03			0.02
Tangato	0.10	0.01	0.02		0.06	
Tava (Pacific Lychee)	24.06	13.21	4.40	5.11	1.05	0.29
Tavahi	4.61	0.80	1.36	0.32	1.31	0.81
Telie	0.55	0.37	0.04	0.07	0.04	0.02
Toa	0.14	0.09	0.02	0.01	0.02	0.01
Toi (Timber)	2.60	0.21	0.94	0.11	1.20	0.13
Tongo (Mangrove)	0.17	0.12	0.02	0.02		0.01
Tuitui (Candlenut)	3.89	2.02	0.40	0.58	0.63	0.25
Uhi	0.25	0.08	0.01	0.10	0.01	0.06
Vanila (Vanilla)	0.25	0.06	0.02		0.16	0.02
Vavae (Kapok)	0.80	0.55	0.05	0.10	0.05	0.06
Vi (Plum)	2.91	0.82	1.42	0.12	0.13	0.43
Volovalo	0.13	0.04		0.03		0.06
Akaupapa (Other Trees)	1.28	0.42	0.14	0.13	0.36	0.22

**Table 3.7A: Number of Crops Used as Boundary Crops , by Type of Crops and by Location of Parcel: 2001**

Name of Crops	Total	Tongatapu	Vava'u	Ha'apai	Eua	Niuas
Faina (Pineapple)	106	67	8	23	7	1
Kape (Giant Taro)	896	643	11	77	165	
Koane (Corn)	73	59	3	6	5	
Piini (Bush Bean)	10	8	1	1		
Talo Futuna (American Taro)	15	5	3	3	4	
Talo Tonga (Common Taro)	33	27	1	5		
To (Sugarcane)	169	109	22	23	11	4
Avoka (Avocado)	10	8	2			
Fau	117	85	5	13	4	10
Fekika (Food/Timber)	21	13	5	3		
Fiki	35	19	14	2		
Hiapo (Paper Mulberry)	84	45	16		22	1
Hopa or Pata (Banana Plantain)	2,171	1,185	348	418	209	11
Kauri/Kauli (Agatha Robusta-Timber)	67	27	23	5	12	
Kava Tonga (Kava)	34	15	4	1	5	9
Koka	11	3	6	2		
Lesi (Papaya)	76	37	12	26	1	
Lou'akau (Pandanus)	3,146	842	1,227	805	197	75
Loupata	10	5	1			4
Mango	145	63	39	31	12	
Mei (Breadfruit)	57	21	18	7	6	5
Misipeka (Banana Ladyfinger)	15	5	5	2	3	
Moli (Citrus Orange)	54	10	1	2	40	1
Ngatae	43	19	10	5	7	2
Niu (Coconut)	2,259	1,589	53	350	130	137
Nonu (Beach Mulberry)	10	4		1		5
Oke	24	15	3	1	5	
Paini (Pine Tree)	180	46	28	3	103	
Pele (Hibiscus Manihot)	808	655	60	63	26	4
Pulukamu (Eucalyptus)	124	71	16	6	31	
Siaine (Banana)	1,200	789	95	225	91	
Sita (Red Cedar)	141	33	35	3	69	1
Tanetane	28	26	1	1		
Tava (Pacific Lychee)	27	9	8	9	1	
Tavahi	21	5	4		6	6
Toa	11	2	4	1	3	1
Tuitui (Candlenut)	12	8		2	1	1
Vanila (Vanilla)	17	6	6	2	2	1
Vavae (Kapok)	36	24	8		2	2
Akaupapa (Other Trees)	346	149	82	52	53	10

**Table 3.7B: Estimated Area of Crops Used as Boundary Crops (Acres), by Type of Crops and by Location of Parcel: 2001**

Name of Crops	Total	Tongatapu	Vava'u	Ha'apai	Eua	Niuas
<b>Total Area of Boundary Crops</b>	<b>91.78</b>	<b>51.58</b>	<b>13.86</b>	<b>15.97</b>	<b>6.60</b>	<b>3.72</b>
Faina (Pineapple)	0.01	0.01	*	*	*	*
Kape (Giant Taro)	0.33	0.24	*	0.03	0.06	
Koane (Corn)	0.02	0.01	*	*	*	
Piini (Bush Bean)	*	*	*	*		
Talo Futuna (American Taro)	*	*	*	*	*	
Talo Tonga (Common Taro)	0.01	0.01	*	*		
To (Sugarcane)	1.34	0.87	0.17	0.18	0.09	0.03
Avoka (Avocado)	0.08	0.06	0.02			
Fau	0.92	0.67	0.04	0.10	0.03	0.07
Fekika (Food/Timber)	0.17	0.10	0.04	0.02		
Fiki	0.28	0.15	0.11	0.02		
Hiapo (Paper Mulberry)	0.03	0.02	0.01		0.01	*
Hopa or Pata (Banana Plantain)	3.19	1.74	0.51	0.61	0.31	0.02
Kauri/Kauli (Agatha Robusta-Timber)	0.26	0.11	0.09	0.02	0.05	
Kava Tonga (Kava)	0.02	0.01	*	*	*	0.01
Koka	0.09	0.02	0.05	0.02		
Lesi (Papaya)	0.13	0.06	0.02	0.04	*	
Lou'akau (Pandanus)	24.96	6.68	9.74	6.38	1.56	0.60
Loupata	0.08	0.04	0.01			0.03
Mango	1.15	0.50	0.31	0.25	0.10	
Mei (Breadfruit)	0.45	0.17	0.14	0.06	0.05	0.04
Misipeka (Banana Ladyfinger)	0.02	0.01	0.01	*	*	
Moli (Citrus Orange)	0.43	0.08	0.01	0.02	0.32	0.01
Ngatae	0.34	0.15	0.08	0.04	0.06	0.02
Niu (Coconut)	45.02	31.68	1.06	7.00	2.54	2.74
Nonu (Beach Mulberry)	0.08	0.03		0.01		0.04
Oke	0.09	0.06	0.01	*	0.02	
Paini (Pine Tree)	0.71	0.18	0.11	0.01	0.41	
Pele (Hibiscus Manihot)	6.40	5.20	0.48	0.50	0.20	0.03
Pulukamu (Eucalyptus)	0.49	0.28	0.06	0.02	0.12	
Siaine (Banana)	1.76	1.16	0.14	0.33	0.13	
Sita (Red Cedar)	0.55	0.13	0.14	0.01	0.27	*
Tanetane	0.22	0.21	0.01	0.01		
Tava (Pacific Lychee)	0.21	0.07	0.06	0.07	0.01	
Tavahi	0.08	0.02	0.02		0.02	0.02
Toa	0.09	0.02	0.03	0.01	0.02	0.01
Tuitui (Candlenut)	0.10	0.06		0.02	0.01	0.01
Vanila (Vanilla)	0.01	*	*	*	*	*
Vavae (Kapok)	0.29	0.19	0.06		0.02	0.02
Akaupapa (Other Trees)	1.36	0.59	0.32	0.20	0.21	0.04

\* means the area planted is very nil.

**Table 3.8: Total Area Harvested to Major Crops (Acres), by Location of Parcel: 2001**

Major Crops	Location of Parcel					
	Tonga	Tongatapu	Vava'u	Ha'apai	Eua	Niua
Common Taro (Talo Tonga)	2,211.81	1,235.86	552.95	30.71	335.84	56.45
American Taro (Talo Futuna)	1,826.11	1,191.81	289.26	143.42	193.35	12.78
Cassava (Manioke)	2,955.45	2,200.69	160.75	398.03	102.74	93.24
Early Yam ('Ufi Tokamu'a)	1,958.70	1,353.68	264.00	109.51	209.89	21.64
Late Yam ('Ufi Tokamui)	378.57	285.80	31.32	46.82	7.94	6.69
Squash (Hina)	3,514	2,810	92		613	
Sweet Potato (Kumala)	731.01	598.47	32.30	31.30	62.60	6.33
Giant Taro (Kape)	705.78	253.72	289.12	46.32	98.61	18.01
Banana (Siaine)	123.26	53.80	40.78	21.91	6.39	0.38
Banana-Plantain (Hopa, Pata)	287.37	97.32	98.60	51.10	12.38	27.96
Kava (Kavatonga)	248.39	13.80	0.32	0.50	6.84	
Vanilla (Vanila)	105.63	89.25	13.13	0.75	2.50	
Coconut (Niu)	106.20	91.04		7.96		7.20
Meleni (Watermelon)	322.08	259.95	20.31	11.32	30.00	0.50