Vanuatu - Agriculture Census 2006-2008

Vanuatu National Statistics Office - Vanuatu Government

Report generated on: August 5, 2019

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Overview

Identification

ID NUMBER
SPC_VUT_2006_AGC_v01_M

Version

VERSION DESCRIPTION
Version 01: Cleaned, labelled and de-identified version of the Master file.

PRODUCTION DATE
2008-09-30

Overview

ABSTRACT
The Agriculture Census 2007 was the third undertaken in Vanuatu for the purpose of compiling information on agriculture, forestry and fisheries resources. Data collected will be used to formulate plans, policies and programs for the development and improvement of these sectors. This census was conducted by the Vanuatu National Statistics Office (VNSO), a centralized organization mainly responsible for the collection and dissemination of important statistics in the country by means of censuses of population, agriculture, household income and expenditure surveys, business surveys, collection of imports and exports data, etc. However, owing to limited resources, the VNSO cannot accommodate requests for extra data needed by other government and private sectors: hence, these data may have to be collected independently.

Agricultural statistics in Vanuatu are produced in two ways: through census/ survey and through administrative records. The census/survey provides baseline or benchmark information for planners and policymakers while the data from administrative records are used to keep track of changes and development in specific aspects of agriculture.

KIND OF DATA
Census/enumeration data [cen]

UNITS OF ANALYSIS
Households and individuals about their agricultural involvements.

Scope

NOTES
Households

•structure and characteristics of agricultural activities of households in Vanuatu

• number and distribution of household engaged in agriculture

•general characteristics of the household agricultural activities – type of agricultural activities; type of management;

number of households members mainly responsible for agricultural activities in the last twelve months.

Individuals

•Characteristics of members of the household engaged in agricultural activities - relation to head; age; sex;highest education; involvement and average hours worked per week in agricultural activities. number of hired workers and average

hours worked per day per person

TOPICS

Topic	Vocabulary	URI
housing [10.1]	CESSDA	http://www.nesstar.org/rdf/common
censuses [14.1]	CESSDA	http://www.nesstar.org/rdf/common
plant and animal distribution [9.4]	CESSDA	http://www.nesstar.org/rdf/common
agricultural, forestry and rural industry [2.1]	CESSDA	http://www.nesstar.org/rdf/common

KEYWORDS
Agriculture Census, Agriculture, Livestock, Poultry, Fishing, Forestry, Crop, Garden, Trees

Coverage

GEOGRAPHIC COVERAGE
National coverage.

The Agriculture Census (Phase I and II) was undertaken in eighteen main islands of Vanuatu which are: namely, Banks. Torres, Malo, Santo, Ambae, Maewo, Pentecost, Malekula, Ambrym, Paama, Epi, Shepherds, Efate, Erromango, Tanna, Aneityum, Aniwa and Futuna.

UNIVERSE
The Survey covers all rural households

· Crop gardening

· Kava sub-holding

· Coconut sub-holding

· Cocoa sub-holding

· Coffee sub-holding

· Vanilla sub-holding

· Pepper sub-holding

· Cattle sub-holding

· Other livestock keeping

· Household fishing

· Household forestry-related activity.

Producers and Sponsors

PRIMARY INVESTIGATOR(S)

Name	Affiliation
Vanuatu National Statistics Office	Vanuatu Government

OTHER PRODUCER(S)

Name	Affiliation	Role
Statistics and Demography Program	South Pacific Community	Technical Assistance
Food Agriculture Organisation	United Nations	Technical Assistance
Nirmana Pty Ltd	Private Consulation Agency	Data Analysis & Report Writing

FUNDING

Name	Abbreviation	Role
New Zealand Aid Agency	NZAid	Principal Funder
European Union	EU	Funder
Australian Aid Agency	AusAID	Funder
Food and Agriculture Organisation	FAO	Funder
Vanuatu Government	VANGOV	Funder

OTHER ACKNOWLEDGEMENTS

Name	Affiliation	Role
Mr. Pioni Willie	Vanuatu National Statistics Office	National Project Coordinator
Mrs. Alice Sami	Vanuatu National Statistics Office	Deputy National Project Coordinator
Mrs. Aspinol Amos	Vanuatu National Statistics Office	Administration & FinanceOfficer

Metadata Production

METADATA PRODUCED BY

Name	Abbreviation	Affiliation	Role
Vanuatu National Statistics Office	VNSO	Vanuatu Government	Documentation of the study
Statistics for Development Division	SDD	Pacific Community	Review of the documentation

DATE OF METADATA PRODUCTION
2008-10-31

DDI DOCUMENT VERSION
Version 01 (March 2009): Done during a training provided by the Pacific Community (SPC). Done by Vanuatu National Statistics Office.

Version 02 (July 2019): Review of the existing documentation. Done by Statistics for Development Division at Noumea, New Caledonia.

DDI DOCUMENT ID
DDI_SPC_VUT_2006_AGC_v01_M

Sampling

Sampling Procedure

Sampling method
The 18 major islands were classified as:
• small - number of households engaged in agricultural activities less than 500 (Torres, Paama, Erromango, Aniwa, Aneityum and Futuna);
• medium - number of households engaged in agricultural activities 500-1,999 (Banks, Malo, Maewo, Ambrym, Epi and Shepherds); and
• large - number of households operating agricultural activities 2,000 or more (Efate, Malekula, Ambae, Pentecost and Tanna).

In determining the number of households to be interviewed in each island and in each enumeration area (EA):

-for small islands, all households were listed and the identified households engaged in agricultural activities were enumerated;
-for medium-sized islands, one-third of the sample EAs in these islands were selected and all households were listed and those found to be engaged in agricultural activities were interviewed; and
-for large islands, one-third of the total EAs were selected in each island and all households listed. Of households found to have a crop garden, coconut sub-holding or kava sub-holding, one-third were selected to be further interviewed. In addition, all households listed and involved in the subholding of cattle and cash crops like cocoa, coffee (for Tanna only), vanilla and pepper (10 or more plants) were also enumerated.

Response Rate

100%.

Weighting

5.1 Estimation Procedure (General Underlying Estimation Concepts)

For any survey, estimates for total of a variable is computed using the general equation:
$\hat{X} = \sum_{i=1}^{n} w_i x_i$,where w is the weight of each ultimate sampling unit, x is the observation, and n is the number of samples.

The general equation used to compute the total of any variable x in the 2007 Census of Agriculture is given below:

$\hat{X} = \sum_{i=1}^{n}\sum_{j=1}^{m}\sum_{i=1}^{n} (N/n)[Hproj/(\sum(N/n)Mi)](Mi'/mi')(mi'/mi)x_{ij}$ eq. (1)

Where:
$\hat{X}$ - the estimated total for variable x
N - total number of EAs in the stratum, i.e., group of islands
n - number of sample EAs in the stratum
Mi - total number of households in EA i from 2006 listing of households (frame)
Mi' - total number of households engaged in agriculture in EA i
mi' - total number of households listed in listing form (with 10 or more trees, etc.) in EA i.
mi - total number of sample households in EA i.

Hproj - projected number of households in the stratum (see section for the

estimation of projected households)

The weight of each household or questionnaire in sample EA i is:

$w_i = (N/n_i)[H_{proj}/(?(N/n_i)M_i)](M_i'/m_i')(m_i'/m_i)$ eq. (2)

5.2 Derivation of the Weights used in this Survey

Since the enumeration procedure is to list all households in each target EA - target EA means all EAs in small island group, 1/3 of all EAs in medium and large island groups, the weight should be:

$w_i = (N/n)(M_i/m_i)[H_{proj}/(?(N/n)(M_i/m_i)M_i)]$ eq. (3)

Where N/n is the inverse of the probability that the EA would be selected and M/m is the inverse of the probability that the household would be selected. But since $M_i = m_i$, then these two numbers cancel each other out hence the equation can be written as:

$w_i = (N/n)[H_{proj}/(?(N/n)M_i)]$ eq. (4)

The equation term $H_{proj}/(?(N/n)M_i$ is the adjustment factor due to non-coverage or adjustment to the projected number of households in the stratum. This factor can be excluded if the variability in the size of all EAs is low, but for the sampling design employed in this survey, the factor cannot be removed because the resulting estimate of the number of households without the adjustment factor is much less compared to the 2006 census of agriculture. This is due to high variability in the size of sample EAs in each stratum.

For Small Island Group, all EAs were enumerated, i.e., N = n, hence the equation could be reduced to just the adjustment factor.

$w_i = H_{proj}/(?M_i)$ è H_{proj} / M, where M is the total number of households in
the Stratum.

This adjustment factor should no longer be needed for this stratum had the listing and enumeration been done correctly. Even though the instruction is to list all households, i.e., each household must have Form 1 or listing form, the actual procedure done was that, only those households engaged in agriculture with 10 or more trees and/or with cattle were listed. Hence, there is no way that the total number of households could be known in this stratum. This is the reason for including the adjustment factor in the weight of the households in this stratum. Another adjustment factor is added in the weight due to reason that will be discussed in the succeeding paragraph, i.e., weights of Medium Island Group. The actual weight used for small island group is:

$w_i = (H_{proj} / M) (M_i'/m_i')$

Note that this is just a special case of equation (2) where N = n, and $m_i' = m_i$.

In case of Medium Island Group where all households in sample EAs were supposedly listed, the weight should be the same as equation (4) had all households in the EA have their respective questionnaire. Unfortunately, after analyzing the frequency distribution of households by sample EAs, the numbers were found to be much less than the counts of household in the 2006 Census of Agriculture or the 2006 Listing of Households. The reason is that only those households with 10 trees or more and, etc. were enumerated. When equation (4) was applied to generate the total number of households, the result gives only approximately 60% of the projected number of households. The reason is that the resulting count is the number of households with 10 trees or more and, etc. and not the total number of households in the stratum. These figures would definitely be very difficult to explain to data users - considering that this is supposed to be a census of all households and not a census of those with 10 trees or more ... To solve the problem, another adjustment factor is included in the weight, that is, M'/m' where M' is the total number of households engaged in agriculture from the 2006 listing of households and m' is the number of households with 10 trees or more and etc. In layman terms, the total number of households found to be engaged in agriculture in 2006 listing of households in the EA is distributed proportionately to each questionnaire in the file. The effect of this technique is higher estimates since those households engaged with less than 10 trees, etc. (that is, households excluded in the frame) have been included in the estimation. The weight used for medium island group is:

$w_i = (N/n)[H_{proj}/(?(N/n)M_i)] (M_i'/m_i')$ eq. (5)

Note that this is a special case of equation (2) where $m_i' = m_i$.

Estimation procedure for Large Island Group used weight similar to the above equation but another factor is included. The adjustment factor is mi' / m, where m is the number of sample households. Since mi' will cancel out, the simplified equation is given below:

wi = (N/n)[Hproj/(?(N/n)Mi)] (Mi'/mi) eq. (6)

The weight derived using the above equation (equation 6) is attached to all sample households only while weight derived using equation (5) is attached to all questionnaires (set of forms or cases) in the file. As mentioned above, sample households are those questionnaires with household form, i.e., all questionnaires in small and medium island groups and sample household questionnaires in large island group. The data item name of sample household weight is SWEIGHT, while all forms weight is DWEIGHT. Hence DWEIGHT is computed using equation (5) while equation (6) is used to compute SWEIGHT.

5.3 Using the Weights

As described above, SWEIGHT should be applied to all households (questionnaires) with household forms. In addition, this should be applied when generating totals for Kava and Coconut sub-holdings characteristics.

On the other hand, DWEIGHT should be used when tabulating Cocoa, Vanilla, Pepper, and Cattle sub-holdings characteristics.

Note that when cross tabulation is to be done for variables from these two different weighting groups (mixed), the sample weight SWEIGHT should be used.

5.4 Computation of the projected number of households

As described in the previous section, the number of households as of the first day of the enumeration (1st day of August, 2007) is needed in the weighting procedure. The practice in other countries is that official population projection is used, but since Vanuatu does not have this projection, and since required data are not available to be able to generate the population projection using internationally accepted procedure, an estimate was generated. The procedure for the estimation of the number of households is enumerated below.

1. Projected total population in the country for August, 2007 was computed using the growth rate between the last census of population conducted in November, 1999 and the listing of households which was conducted in May, 2006. The growth rate is 2.63 percent.

2. The total population counts for Urban and Rural areas were estimated using ratio and proportion, which resulted to 52,366 and 176,458 respectively. The main rationale for these prorated estimates is that it is more accurate to use the growth rate for the total population compared to estimates based on individual (i.e., provincial) growth rates.

3. Using the same rationale above, these estimates were distributed to their respective provincial areas using ratio and proportion.

4. The number of households in each province (urban/rural) was computed by dividing the population estimate with the average household size. The household size used is the one generated from the census of agriculture where the weights used is the basic weight, i.e., N/n*M/m. The rationale for using the average household size from the survey is that, when compared to the household size from the 1996 listing of households, it was found out that the figures are very different. If the average household size from 1996 listing of households would be used, the result to the weighted (final) population count would be unpredictable. Other reasons are: a) the sample is large enough to provide statistically accurate means and percentages, b) the definition of household membership used in the 1996 listing of households is not the same as in the 2007 census.

5. These numbers of households in all provinces (Urban / Rural) were added to come up with the final estimates for the total number of households in urban and rural areas in Vanuatu.

6. The final estimate for the number of households in each province was computed by prorating the final estimate for Vanuatu into all provinces using ratio and proportion.

7. In the same manner, the projected number of households in each stratum, i.e., small-island, medium-island, and large-island groups, was computed using ratio and proportion.

Questionnaires

Overview

The Questionnaire of the 2006-2008 Agriculture Census of Vanuatu was published in English and divided into 9 forms.

Form 1.1: Household
Form 1.2: Crop Garden
Form 1.3: Kava Plants Sub-Holding
Form 1.4: Coconut Farming
Form 2: Cocoa Trees Sub-Holding
Form 3: Coffee Trees Sub-Holding
Form 4: Vanilla Plants Sub-Holding
Form 5: Pepper Plants Sub-Holding
Form 6: Cattle Sub-Holding
Form 7: Commercial Farm/Holding
Form A: List of Agriculture Activities
Form B1: Control Sheet for all Small and Medium Sized-Islands.

Data Collection

Data Collection Dates

Start	**End**	**Cycle**
2006-10-01	2008-10-30	N/A

Time Periods

Start	**End**	**Cycle**
2007-08-01		Phase 2: Sample surveys

Data Collection Mode

Face-to-face [f2f]

Data Collection Notes

Most of the data items collected in the Agriculture Census Phase II covered the period June 1, 2006 to May 31, 2007 such as those pertaining to crop garden and cash crops like coconut, cocoa, coffee, kava, vanilla, and pepper. Other reference periods used were as follows:
1) Number of crops currently in the garden or number of trees/ plants currently in the sub-holding as of the day of visit to the households
2) Number of cattle or other Livestock/poultry kept as of the day of visit to the households
3) Value of crops/fisheries species/forest products sold last sale
The data gathering took place in August 21st to September 21st, 2007. A further one month period, from September 21st to October 21st, 2007 was allocated especially for difficult areas in the country.

During May–June 2006, about 650 trained enumerators listed every household in Vanuatu and recorded all agricultural activities undertaken by sampled households. The enumeration tasks were done according to census EAs. Coding, processing and tabulation were completed by mid-September 2006.
In August–September 2007 enumerators were again hired and trained to collect and record the different data items included in each of nine questionnaires from households. Regular staff and census supervisors collected information for the commercial farms/holdings.

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Form 6: Cattle Sub-Holding
Form 7: Commercial Farm/Holding
Form A: List of Agriculture Activities
Form B1: Control Sheet for all Small and Medium Sized-Islands.

Data Collectors

Name	Abbreviation	Affiliation
Vanuatu National Statistics Office	VNSO	Vanuatu Government

Supervision

With a view to collecting data with high precision, officers and staff members of the VNSO worked as trainers during Phase I while the main census project staff (both VNSO and the Ministry of Agriculture, Quarantine, Forestry and Fisheries (MAQFF)) were responsible for supervising data collection during Phase II. Under their guidance and supervision six census coordinators performed duties as provincial coordinators in both phases. These provincial coordinators were assisted by provincial agriculture officers and hired supervisors working at the island level who were responsible for recruitment, training and supervision of the activities of field level enumerators for Phases I and II.

Data Processing

Data Editing

Coding, processing and tabulation were completed by mid-September 2006.

Eight data entry operators were hired by the project to do the data encoding of the Phase I of the project. This was the first-hands on as far as the software is concerned for all the data entry operators. Before the actual data entry, the data processing expert had all eight operators plus the supervisors on a training session for a few days. At the end of the training session, they were familiar with the software and then started the actual data encoding. The processing of data for Phase I of the project took the entire month of June 2006 to be completed.
During the Phase II of the project, the expert set up the system and trained the local staff on system operation for two weeks and then left for his home country. Since the project staff and the data entry operators who were hired were already familiar with CsPro, the whole data processing was done without the presence of the consultant. The expert later came for his final mission to prepare the data for tabulation and generate the required tables using the table specifications for that purpose.

The machine data processing of the forms was done using CsPro. Data encoding, data cleaning and tabulation were done using data entry, batch edit and cross tab applications respectively. Control and management of the data entry of the forms and data cleaning of the batch files were done using SCIPS (Survey / Census Integrated Processing System), a Visual Basic 6 (VB6) program developed by the expert designed to integrate the different phases of data capture and data cleaning of any survey/census. The program facilitates the assignment of folios to keyers that resulted to automatic recording of the data capture status of each batch/folio and eliminated errors in the encoding of the geographic identification codes. It also made the data cleaning easier since SCIPS enabled the users to correct errors found by the data consistency and completeness check programs without printing the generated error list.

Data Appraisal

Estimates of Sampling Error

The number of households to be interviewed is based on the sampling methodology that is used in the census. The 15 major islands were classified as:
1. small - if the number of households engaged in agricultural activities is less than 500; in this case, Torres, Paama and Erromango are under this category.
2. medium - if the number of households engaged in agricultural activities is between 500 - 1,999; Banks, Malo, Maewo, Ambrym, Epi and Shepherds belong to this group.
3. large - if the number of households operating agricultural activities is 2,000 or more; Santo, Efate, Malekula, Ambae, Pentecost and Tanna were considered to be large islands.

In selecting the number of households to be interviewed in each island, the following was carried out:
a. For Erromango, Torres and Paama, all households were listed and those households engaged in agricultural activities were enumerated;
b. For Banks, Malo, Maewo, Ambrym, Epi and Shepherds, 1/3 of the sample EAs in these islands were selected and all households were listed and those engaged in agricultural activities were interviewed for their involvement in these activities; and
c. For Santo, Efate, Malekula, Ambae, Pentecost and Tanna, 1/3 of the total EAs were also selected in each island and all households were listed in these islands, after which only 1/3 of the households engaged in agricultural activities were further interviewed if they were involved in crop garden, coconut sub-holding and kava sub-holding. In addition to this, all households in the selected EAs of these islands that were involved in the sub-holding of cattle and cash crops (with 10 trees or more) like cocoa, coffee (for Tanna only), vanilla and pepper were enumerated.

Other forms of Data Appraisal

Consultants have not provided documents regarding this aspect of data quality.

File Description

Variable List

TABVAR01

Content		
Cases	0	
Variable(s)	22	
Structure	Type: Keys: ()	
Version		
Producer		
Missing Data		

Variables

ID	Name	Label	Type	Format	Question
V1	province	Province	discrete	numeric	N/A
V2	island	Island	discrete	numeric	N/A
V3	acouncil	Area Council	discrete	numeric	N/A
V4	ea	Enumeration Area	discrete	numeric	N/A
V5	fno	Folio Number	discrete	numeric	N/A
V6	hsn	Household Serial Number	contin	numeric	N/A
V7	thhsize	Household Size	contin	numeric	N/A
V8	tshrlvstk	Shared Livestock with other households	discrete	numeric	
V9	townboat	Owned Boat	discrete	numeric	
V10	townfger	Owned Fishing Gear	discrete	numeric	
V11	tcspcfish	Collected Special Fisheries	discrete	numeric	
V12	t11p06q21	F1.1 Q6.2.1 Gathering Firewood	discrete	numeric	
V13	t11p06q22	F1.1 Q6.2.2 Gathering timber/wood products	discrete	numeric	
V14	t11p06q23	F1.1 Q6.2.3 Planting trees for timber	discrete	numeric	
V15	t11p06q24	F1.1 Q6.2.4 Gathering Sandalwood	discrete	numeric	
V16	t11p06q25	F1.1 Q6.2.5 Logging	discrete	numeric	
V17	t11p06q26	F1.1 Q6.2.6 Gathering tree seedlings/seeds	discrete	numeric	
V18	t11p06q27	F1.1 Q6.2.7 Collecting anymedicinal plants	discrete	numeric	
V19	t11p06q28	F1.1 Q6.2.8 Other, specify	discrete	numeric	
V20	taforest	Forestry Activity	contin	numeric	
V21	tafrcode	Forest Activity Code	discrete	numeric	
V22	teforact	Engaged in Forest Activity	discrete	numeric	

TABVAR02

Content	
Cases	0
Variable(s)	10
Structure	Type: Keys: ()
Version	
Producer	
Missing Data	

Variables

ID	Name	Label	Type	Format	Question
V23	province	Province	discrete	numeric	
V24	island	Island	discrete	numeric	
V25	acouncil	Area Council	discrete	numeric	
V26	ea	Enumeration Area	discrete	numeric	
V27	fno	Folio Number	discrete	numeric	
V28	hsn	Household Serial Number	contin	numeric	
V29	tdtype01	Data Type	discrete	numeric	
V30	twtype01	Worker Type	discrete	numeric	
V31	twsex	Worker Sex	discrete	numeric	
V32	tddata	Data (no. of workers or man-hours per day)	contin	numeric	

TABVAR03

Content	
Cases	0
Variable(s)	8
Structure	Type: Keys: ()
Version	
Producer	
Missing Data	

Variables

ID	Name	Label	Type	Format	Question
V33	province	Province	discrete	numeric	
V34	island	Island	discrete	numeric	
V35	acouncil	Area Council	discrete	numeric	
V36	ea	Enumeration Area	discrete	numeric	
V37	fno	Folio Number	discrete	numeric	
V38	hsn	Household Serial Number	contin	numeric	
V39	tactfor	Forestry Activity	discrete	numeric	
V40	tpurfor	Purpose of Activity	discrete	numeric	

TABVAR04

Content	
Cases	0
Variable(s)	24
Structure	Type: Keys: ()
Version	
Producer	
Missing Data	

Variables

ID	Name	Label	Type	Format	Question
V41	province	Province	discrete	numeric	
V42	island	Island	discrete	numeric	
V43	acouncil	Area Council	discrete	numeric	
V44	ea	Enumeration Area	discrete	numeric	
V45	fno	Folio Number	discrete	numeric	
V46	hsn	Household Serial Number	contin	numeric	
V47	tf12p02q2c1	F1.2 Q2.2c1 Garden No.	discrete	numeric	
V48	tf12p02q2c2	F1.2 Q2.2c2a Location of the Garden	discrete	numeric	
V49	tf12p02q2c2b	F1.2 Q2.2c2b Code	contin	numeric	
V50	tf12p02q2c2i	F1.2 Q2.2c2b Island	contin	numeric	
V51	tf12p02q2c2a	F1.2 Q2.2c2b Area Council	contin	numeric	
V52	tf12p02q2c3	F1.2 Q2.2c3 Tenure of the garden	discrete	numeric	
V53	tf12p02q2c4	F1.2 Q2.2c4 Slope of the garden	discrete	numeric	
V54	tf12p02q2c5	F1.2 Q2.2c5 Irrigation used in the garden	discrete	numeric	
V55	tf12p02q2c6	F1.2 Q2.2c6 Is the garden … (Type of Garden)	discrete	numeric	
V56	tf12p02q3c2a	F1.2 Q2.3c2a Means of going to the garden	discrete	numeric	
V57	tf12p02q3c2b	F1.2 Q2.3c2b No. of minutes in going to the garden from the	contin	numeric	
V58	tf12p02q3c3	F1.2 Q2.3c3 Means of cleaning the garden	discrete	numeric	
V59	tf12p02q3c4	F1.2 Q2.3c4 No. of house-holds sharing the garden	discrete	numeric	
V60	tf12p02q3c5a	F1.2 Q2.3c5a No. of Years of the land as crop garden	contin	numeric	
V61	tf12p02q3c5b	F1.2 Q2.3c5b No. of Years of the land left fallow/ idle	contin	numeric	
V62	tcgarea	Area of the crop garden	contin	numeric	
V63	tf12p03q1c1	Year Prepared	discrete	numeric	
V64	tf12p03q2c1	Years used before	discrete	numeric	

TABVAR05

Content	
Cases	0
Variable(s)	11
Structure	Type: Keys: ()
Version	
Producer	
Missing Data	

Variables

ID	Name	Label	Type	Format	Question
V65	province	Province	discrete	numeric	
V66	island	Island	discrete	numeric	
V67	acouncil	Area Council	discrete	numeric	
V68	ea	Enumeration Area	discrete	numeric	
V69	fno	Folio Number	discrete	numeric	
V70	hsn	Household Serial Number	contin	numeric	
V71	tf12p02q2c1p	F1.2 Q2.2c1 Garden No.	discrete	numeric	
V72	tf12p02q2c2p	F1.2 Q2.2c2a Location of the Garden	discrete	numeric	
V73	tf12p03q3c1bg	F1.2 Q3.3c1b Temporary Crop Code	discrete	numeric	
V74	tf12p03q3c2g	F1.2 Q3.3c2 Total no. of plants in the gardens as of the day	contin	numeric	
V75	tf12p03q3c3ag	F1.2 Q3.3c3a Total No. of plants in the gardens	contin	numeric	

TABVAR06

Content	
Cases	0
Variable(s)	10
Structure	Type: Keys: ()
Version	
Producer	
Missing Data	

Variables

ID	Name	Label	Type	Format	Question
V76	province	Province	discrete	numeric	
V77	island	Island	discrete	numeric	
V78	acouncil	Area Council	discrete	numeric	
V79	ea	Enumeration Area	discrete	numeric	
V80	fno	Folio Number	discrete	numeric	
V81	hsn	Household Serial Number	contin	numeric	
V82	tsubhold	Subholding	discrete	numeric	
V83	tcropcode	Temporary Crop Code	discrete	numeric	
V84	tplantcurr	Total no. of plants in the subholding as of the day of visit	discrete	numeric	
V85	tplantpast	Total no. of plants in the subholding iin the past	contin	numeric	

TABVAR07

Content	
Cases	0
Variable(s)	19
Structure	Type: Keys: ()
Version	
Producer	
Missing Data	

Variables

ID	Name	Label	Type	Format	Question
V86	province	Province	discrete	numeric	
V87	island	Island	discrete	numeric	
V88	acouncil	Area Council	discrete	numeric	
V89	ea	Enumeration Area	discrete	numeric	
V90	fno	Folio Number	discrete	numeric	
V91	hsn	Household Serial Number	contin	numeric	
V92	tf14p02q3c1	F1.4 Q2.3c1 Parcel number	discrete	numeric	
V93	tf14p02q3c2a	F1.4 Q2.3c2a Location of the Parcel	discrete	numeric	
V94	tf14p02q3c2b	F1.4 Q2.3c2b Code	contin	numeric	
V95	tf14p02q3c3	F1.4 Q2.3c3 Area	contin	numeric	
V96	tf14p02q3c4	F1.4 Q2.3c4 Tenure	discrete	numeric	
V97	tf14p02q3c5	F1.4 Q2.3c5 Condition of the Parcel as of today	discrete	numeric	
V98	tf14p02q4c2	F1.4 Q2.4c2 Type of Trees	discrete	numeric	
V99	tf14p02q4c3a	F1.4 Q2.4c3a Total	contin	numeric	
V100	tf14p02q4c3b	F1.4 Q2.4c3b Bearing Coconuts	contin	numeric	
V101	tf14p02q4c4	F1.4 Q2.4c4 Age	contin	numeric	
V102	tf14p02q4c5	F1.4 Q2.4c5 Method of planting	discrete	numeric	
V103	tf14p02q4c6a	F1.4 Q2.4c6a Spaces between Trees (Rows)	contin	numeric	
V104	tf14p02q4c6b	F1.4 Q2.4c6b Spaces between Trees (Columns)	contin	numeric	

TABVAR08

Content	
Cases	0
Variable(s)	16
Structure	Type: Keys: ()
Version	
Producer	
Missing Data	

Variables

ID	Name	Label	Type	Format	Question
V105	province	Province	discrete	numeric	
V106	island	Island	discrete	numeric	
V107	acouncil	Area Council	discrete	numeric	
V108	ea	Enumeration Area	discrete	numeric	
V109	fno	Folio Number	discrete	numeric	
V110	hsn	Household Serial Number	contin	numeric	
V111	tf2p02q2c1	F2 Q2.2 Parcel Number	discrete	numeric	
V112	tf2p02q2c2a	F2 Q2.2 Location of the Parcel	discrete	numeric	
V113	tf2p02q2c2b	F2 Q2.2 Codes	contin	numeric	
V114	tf2p02q2c3	F2 Q2.2 Area	contin	numeric	
V115	tf2p02q2c4	F2 Q2.2 Tenure	discrete	numeric	
V116	tf2p02q3c2	F2 Q2.3 Number of Trees currently in Parcel	contin	numeric	
V117	tf2p02q3c3	F2 Q2.3 Age of Trees	contin	numeric	
V118	tf2p02q3c4	F2 Q2.3 Method of Planting	discrete	numeric	
V119	tf2p02q3c5a	F2 Q2.3 Spaces between Trees (rows)	contin	numeric	
V120	tf2p02q3c5b	F2 Q2.3 Spaces between Trees (columns)	contin	numeric	

TABVAR09

	Content	
Cases	0	
Variable(s)	16	
Structure	Type: Keys: ()	
Version		
Producer		
Missing Data		

Variables

ID	Name	Label	Type	Format	Question
V121	province	Province	discrete	numeric	
V122	island	Island	discrete	numeric	
V123	acouncil	Area Council	discrete	numeric	
V124	ea	Enumeration Area	discrete	numeric	
V125	fno	Folio Number	discrete	numeric	
V126	hsn	Household Serial Number	contin	numeric	
V127	tf3p02q2c1	F3 Q2.2 Parcel Number	discrete	numeric	
V128	tf3p02q2c2a	F3 Q2.2 Location of the parcel	discrete	numeric	
V129	tf3p02q2c2b	F3 Q2.2 Code	contin	numeric	
V130	tf3p02q2c3	F3 Q2.2 Area	contin	numeric	
V131	tf3p02q2c4	F3 Q2.2 Tenure	discrete	numeric	
V132	tf3p02q3c2	F3 Q2.3 Number of trees currently in the Parcel	contin	numeric	
V133	tf3p02q3c3	F3 Q2.3 Age of trees	contin	numeric	
V134	tf3p02q3c4	F3 Q2.3 Method of Planting	discrete	numeric	
V135	tf3p02q3c5a	F3 Q2.3 Spaces between Trees (Rows)	contin	numeric	
V136	tf3p02q3c5b	F3 Q2.3 Spaces between Trees (Columns)	contin	numeric	

TABVAR10

Content	
Cases	0
Variable(s)	16
Structure	Type: Keys: ()
Version	
Producer	
Missing Data	

Variables

ID	Name	Label	Type	Format	Question
V137	province	Province	discrete	numeric	
V138	island	Island	discrete	numeric	
V139	acouncil	Area Council	discrete	numeric	
V140	ea	Enumeration Area	discrete	numeric	
V141	fno	Folio Number	discrete	numeric	
V142	hsn	Household Serial Number	contin	numeric	
V143	tf4p02q2c1	F4 Q2.2 Parcel Number	discrete	numeric	
V144	tf4p02q2c2a	F4 Q2.2 Location of the Parcel	discrete	numeric	
V145	tf4p02q2c2b	F4 Q2.2 Code	contin	numeric	
V146	tf4p02q2c3	F4 Q2.2 Area	contin	numeric	
V147	tf4p02q2c4	F4 Q2.2 Tenure	discrete	numeric	
V148	tf4p02q3c2	F4 Q2.3 Number of Plants Currently In The Parcel	contin	numeric	
V149	tf4p02q3c3	F4 Q2.3 Ages of trees	discrete	numeric	
V150	tf4p02q3c4	F4 Q2.3 Method of Planting	discrete	numeric	
V151	tf4p02q3c5a	F4 Q2.3 Spaces Between Plants (rows)	contin	numeric	
V152	tf4p02q3c5b	F4 Q2.3 Spaces Between Plants (Columns)	contin	numeric	

TABVAR11

Content	
Cases	0
Variable(s)	16
Structure	Type: Keys: ()
Version	
Producer	
Missing Data	

Variables

ID	Name	Label	Type	Format	Question
V153	province	Province	discrete	numeric	
V154	island	Island	discrete	numeric	
V155	acouncil	Area Council	discrete	numeric	
V156	ea	Enumeration Area	discrete	numeric	
V157	fno	Folio Number	discrete	numeric	
V158	hsn	Household Serial Number	contin	numeric	
V159	tf5p02q2c1	F5 Q2.2 Parcel number	discrete	numeric	
V160	tf5p02q2c2a	F5 Q2.2 Location of the Parcel	discrete	numeric	
V161	tf5p02q2c2b	F5 Q2.2 Code	contin	numeric	
V162	tf5p02q2c3	F5 Q2.2 Area	contin	numeric	
V163	tf5p02q2c4	F5 Q2.2 Tenure	discrete	numeric	
V164	tf5p02q3c2	F5 Q2.3 Number of plants currently in the parcel	contin	numeric	
V165	tf5p02q3c3	F5 Q2.3 Age of trees	contin	numeric	
V166	tf5p02q3c4	F5 Q2.3 Method of planting	discrete	numeric	
V167	tf5p02q3c5a	F5 Q2.3 Spaces between plants (Rows)	contin	numeric	
V168	tf5p02q3c5b	F5 Q2.3 Spaces between plants (Columns)	contin	numeric	

TABVAR12

Content		
Cases	0	
Variable(s)	15	
Structure	Type: Keys: ()	
Version		
Producer		
Missing Data		

Variables

ID	Name	Label	Type	Format	Question
V169	province	Province	discrete	numeric	
V170	island	Island	discrete	numeric	
V171	acouncil	Area Council	discrete	numeric	
V172	ea	Enumeration Area	discrete	numeric	
V173	fno	Folio Number	discrete	numeric	
V174	hsn	Household Serial Number	contin	numeric	
V175	tf6p02q3c1	F6 Q2.3 Paddock No	discrete	numeric	
V176	tf6p02q3c2a	F6 Q2.3 Location of the Paddock	discrete	numeric	
V177	tf6p02q3c2b	F6 Q2.3 Code	contin	numeric	
V178	tf6p02q3c3	F6 Q2.3 Area	contin	numeric	
V179	tf6p02q3c4	F6 Q2.3 Tenure	discrete	numeric	
V180	tf6p02q4c2	F6 Q2.4c2 With permanent water supply?	discrete	numeric	
V181	tf6p02q4c3	F6 Q2.4c3 With improved pasture?	discrete	numeric	
V182	tf6p02q4c4	F6 Q2.4c4 With fences?	discrete	numeric	
V183	tf6p02q4c5	F6 Q2.4c5 With amenities	discrete	numeric	

Documentation

Questionnaires

Vanuatu 2006-2008 AGC - Questionnaire

Title	Vanuatu 2006-2008 AGC - Questionnaire
Author(s)	Vanuatu National Statistics Office
Date	2006-01-01
Country	Vanuatu
Language	English
Description	This file is the final questionnaire of the 2006-2008 Agriculture Census of Vanuatu. It is divided into 9 forms: Form 1.1: Household Form 1.2: Crop Garden Form 1.3: Kava Plants Sub-Holding Form 1.4: Coconut Farming Form 2: Cocoa Trees Sub-Holding Form 3: Coffee Trees Sub-Holding Form 4: Vanilla Plants Sub-Holding Form 5: Pepper Plants Sub-Holding Form 6: Cattle Sub-Holding Form 7: Commercial Farm/Holding Form A: List of Agriculture Activities Form B1: Control Sheet for all Small and Medium Sized-Islands.
Filename	C:/Users/olivierm/OneDrive - SPC/Olivier Menaouer/NADA/Vanuatu/SPC_VUT_2006_AGC_v01_M/Doc/Questionnaires/VU-CA-2007-EN.pdf

Reports

Vanuatu 2006-2008 AGC - Final Report

Title	Vanuatu 2006-2008 AGC - Final Report
Author(s)	Vanuatu National Statistics Office
Date	2008-01-01
Country	Vanuatu
Language	English
Description	This file is the Final Report of the 2006-2008 Agriculture Census of Vanuatu. This report summarizes the main findings collected during the agriculture census.
Table of contents	Foreword: p.3 Preface: p.5 Part 1: Analysis: p.9 Part 2: Census Tables: p.93.
Filename	C:/Users/olivierm/OneDrive - SPC/Olivier Menaouer/NADA/Vanuatu/SPC_VUT_2006_AGC_v01_M/Doc/Reports/Final Report - 2007 Vanuatu Agriculture Census.pdf