

# Fiji - Household Income and Expenditure Survey 2002-2003

**Household Survey Department**

Report generated on: August 26, 2019

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## Overview

### Identification

ID NUMBER  
SPC\_FJI\_2002\_HIES\_v01\_M

### Version

VERSION DESCRIPTION  
Version 01 (ESCAP Mission, March 2008)

PRODUCTION DATE  
2006

### Overview

#### ABSTRACT

A national Household Income and Expenditure Survey (HIES) is a critical component of the work of the Fiji Islands Bureau of Statistics. It provides the data which is necessary for the periodic revision of weights for the Bureau's Consumer Prices Index and other indices, assists in the compilation of national accounts, the formulation of fiscal and social policies of government, and helps government and the private sector in their planning processes. A HIES, by providing income, expenditure and other data at the household level, is especially useful in the analysis of the national incidence of poverty.

KIND OF DATA  
Sample survey data [ssd]

UNITS OF ANALYSIS  
- Individuals  
  
- Households.

### Scope

#### NOTES

The scope of the 2002 Household Income and Expenditure Survey includes:

- Households, occupants, incomes and income distribution
- Labour market characteristics
- Major and minor sources of household income
- Household Expenditure
- Household assets and services.

#### TOPICS

Topic	Vocabulary	URI
consumption/consumer behaviour [1.1]	CESSDA	<a href="http://www.nesstar.org/rdf/common">http://www.nesstar.org/rdf/common</a>
income, property and investment/saving [1.5]	CESSDA	<a href="http://www.nesstar.org/rdf/common">http://www.nesstar.org/rdf/common</a>

unemployment [3.5]	CESSDA	<a href="http://www.nesstar.org/rdf/common">http://www.nesstar.org/rdf/common</a>
children [12.1]	CESSDA	<a href="http://www.nesstar.org/rdf/common">http://www.nesstar.org/rdf/common</a>
family life and marriage [12.5]	CESSDA	<a href="http://www.nesstar.org/rdf/common">http://www.nesstar.org/rdf/common</a>
community, urban and rural life [13.1]	CESSDA	<a href="http://www.nesstar.org/rdf/common">http://www.nesstar.org/rdf/common</a>
fertility [14.2]	CESSDA	<a href="http://www.nesstar.org/rdf/common">http://www.nesstar.org/rdf/common</a>

## Coverage

### GEOGRAPHIC COVERAGE

The 2003 Household Income and Expenditure Survey covers the entire country and allows for rural and urban estimates.

### UNIVERSE

The 2003 Household Income and Expenditure Survey covers all households in private and non-private dwellings and institutions.

## Producers and Sponsors

### PRIMARY INVESTIGATOR(S)

Name	Affiliation
Household Survey Department	Fiji Islands Bureau of Statistics

### OTHER PRODUCER(S)

Name	Affiliation	Role
Toga Raikoti	Fiji Islands Bureau of Statistics	Processing and editing of data
Serevi Baledrokadroka	Fiji Islands Bureau of Statistics	Processing and editing of data

### FUNDING

Name	Abbreviation	Role
Fiji Islands Government		Funding

### OTHER ACKNOWLEDGEMENTS

Name	Affiliation	Role
Kim Robertson	Pacific Community (SPC)	Assistance with processing and editing of data

## Metadata Production

### METADATA PRODUCED BY

Name	Abbreviation	Affiliation	Role
Daniel Clarke	ESCAP	Economic and Social Commission for Asia and the Pacific	Documentation of study
Statistics for Development Division	SDD	Pacific Community (SPC)	Review of the documentation

### DATE OF METADATA PRODUCTION

2008-03

### DDI DOCUMENT VERSION

Version 01 (ESCAP mission to Fiji, March 2008)

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

DDI DOCUMENT ID

DDI\_SPC\_FJI\_2002\_HIES\_v01\_M

## Sampling

### Sampling Procedure

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The sampling frame for the 2003 Household Income and Expenditure Survey (HIES) was the updated urban and rural Enumeration Areas (EAs) of the 1996 Population and Housing Census. At the Fiji Islands Bureau of Statistics (FIBOS), EAs are used as census collection units and are defined as small geographic units within Administrative Boundaries. There are 100 households in each EA. A frame update exercise was carried out in areas where it was thought that significant changes has taken place: the Suva-Nausori corridor, Nadi, Lautoka, Ba and Labasa.

For urban areas, it was decided to stratify the sample into 14 economic "classes" defined as high class, middle class, housing authority, settlement, squatter, and village (see survey report for more details). In urban areas, the divisions were stratified using a "remoteness index" ranging from 1 (closest to urban areas) to 4 (furthest from urban areas) - resulting in 13 strata.

A two-stage sampling strategy was used. In the first stage, representative samples of urban and rural EAs were selected. The listing stage then collected demographic, economic activity and housing information from all households in the selected EAs.

Within each stratum, several EAs or Primary Sampling Units (PSUs) from the frame were selected with probability proportional to size, measured in terms of the total households in the frame. Within each EA, a fixed number of households were selected by systematic random sampling.

### Deviations from Sample Design

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None reported.

### Weighting

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A household weight was calculated for each Enumeration Area (EA) using a simple formula with inputs including the population of the stratum, number of households in the EA and the number of households in the sample. The household weight for all households in each selected EA was calculated as:

$$(\text{Population of stratum } 1) * (\text{Listing number of households in EA}) / (\text{Frame population of EA}) * (\text{Number of household in sample}) * (\text{Number of EAs selected in stratum}).$$

For additional details on the calculation of household weights see the survey report, Annex B that is provided as External Resources.

# Questionnaires

## Overview

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The questionnaire consist of 4 sections:

Schedule 1:

- household listing
- demographic particulars
- economic activity
- education
- housing particulars

Schedule 2 (recurrent expenditure)

- household and other bills
- expenditure on education, health, religion, culture and holidays, etc.
- housing tenure rents and other maintenance costs
- land purchases for residential or farming purposes
- outright purchases of durables
- installment agreement or hire purchase, lay-by, etc. on consumer durables
- outright purchases of consumer semi-durables
- installment agreement or hire purchase, lay-by, etc. on consumer semi-durables
- interest on other borrowings

Schedule 3 (2 week expenditure diary)

- household cash expenditure
- consumption of home-produced commodities
- goods and services taken from household's business
- goods and services obtained from employer
- gifts of cash or goods and services received
- gifts of cash or goods and services given

Schedule 4 (income)

- primary income
- non-primary income

# Data Collection

## Data Collection Dates

Start	End	Cycle
2002-03	2003-02	Urban
2003-05	2004-04	Rural

## Time Periods

Start	End	Cycle
2002-02		Urban-money activity
2003-04		Rural-money activity

## Data Collection Mode

Face-to-face [f2f]

## Data Collection Notes

Due to difficulties with funding for the 2003 Household Income and Expenditure Survey, the Fiji Islands Bureau of Statistics (FIBOS) could initially only conduct the urban part of the survey (from March 2002 to February 2003). The rural part could only be conducted when the funding was restored (from May 2003 to April 2004). This separation of the urban and rural data collections presented challenges in deriving national estimates of income and expenditure since the time periods needed to be adjusted for comparability. In addition, some households that migrated in the period from the rural to urban areas may not have been captured by either data collection. This may especially be true of those Indo-Fijian cane farmers who left their farms as their leases expired.

A pilot survey tested the questionnaire and the administrative arrangements in place, leading to improvements in questionnaire and fieldwork arrangements.

The FIBOS conducted training programmes for enumerators and supervisors at its four centres, followed by examinations to select those qualified. Some of the training coincided with the running of the SIAP/SPC Sampling and Estimation Course. The training covered conduct of interviews, as well as the content of the questionnaires.

Data collection for each of the urban and rural rounds were continuous over a 1-year period. For each survey, a quarter of the sample households were covered in a 3-month period sub-round. In effect, there were four independent sub-samples for each round. Each sub-round sample was distributed into lots to ensure data was collected continuously for the whole 1-year period.

The FIBOS undertook considerable publicity through the media, including radio and the Ministry of Information's television programme: Dateline. Publicity fliers containing some background information on the survey and its importance were circulated to households in the selected areas. Posters were also posted at public places such as hospitals, district offices, shops and schools. In Fijian rural areas, proper protocol was followed with the Turaga-ni-Koro and church leaders, to ensure full cooperation from the community.

Fieldwork arrangements were delegated to 4 field superintendents who put together their work plans, assigned the supervisors and enumerators, and ensured the regular accountable financing of their required activities, including travel, subsistence and fees.

The arrangements for the interview depended on the availability of the head of household. For the diary, the enumerators were required to visit the household daily for two weeks in order to minimize omissions due to weaknesses in the recall.

The Enumerators were instructed to complete work in a selected EA within a time frame of 3 weeks. The first week was spent on listing all households in the EA and the following two weeks for gathering information on Schedule 2 (recurrent expenditure) Schedule 3 (2 week expenditure diary), and Schedule 4 (income).

## Questionnaires

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- demographic particulars
- economic activity
- education
- housing particulars

Schedule 2 (recurrent expenditure)

- household and other bills
- expenditure on education, health, religion, culture and holidays, etc.
- housing tenure rents and other maintenance costs
- land purchases for residential or farming purposes
- outright purchases of durables
- installment agreement or hire purchase, lay-by, etc. on consumer durables
- outright purchases of consumer semi-durables
- installment agreement or hire purchase, lay-by, etc. on consumer semi-durables
- interest on other borrowings

Schedule 3 (2 week expenditure diary)

- household cash expenditure
- consumption of home-produced commodities
- goods and services taken from household's business
- goods and services obtained from employer
- gifts of cash or goods and services received
- gifts of cash or goods and services given

Schedule 4 (income)

- primary income
- non-primary income

## Data Collectors

Name	Abbreviation	Affiliation
Household Survey Unit	HHSU	Fiji Islands Bureau of Statistics

## Supervision

Supervisors were required to chekc on Enumerators on a daily basis, selecting households at random to confirm that the data recorded was actually reported by the household. These checks improved the data collection practice of the Enumerators; there were a few cases of termination of employment.

A total of 36 Enumerators, 12 Supervisors, 4 Coders and 3 Data Entry Operators, and 4 drivers, were distributed into the 4 regional offices of the FIBOS Each regional office is headed by a Field Superintendent.



## Data Processing

### Data Editing

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Keeping with internationally accepted Household Income and Expenditure Survey (HIES) methodology, the 2003 HIES estimated "imputed rents" - the estimated net value of owner-occupied dwellings which need to be added to the incomes (and expenditures) of all households which do not pay rents on the dwellings occupied.

The regressions were conducted separately for Central and Western divisions of the Fiji Islands, while the Northern and Eastern Divisions were combined, to improve the statistical reliability of the results. In urban areas, distinctions were made between the types of houses in Central and Western Divisions (major categories used were: concrete with 3-4 bedrooms, concrete with 1-2 bedrooms, wooden, iron, and squatter houses), while in rural areas, the only distinctions were between concrete/wood houses and those made of iron.

The Net Imputed Values were calculated as the Gross Imputed Values (estimated from the regressions using actual rent data) less the Imputed Cost of Owned Houses, which is estimated as an aggregate percentage of actual repairs and maintenance plus interest component of instalment payments plus property rates. For more information on imputed rent, see the survey report, Annex B that is provided as External Resources.

### Other Processing

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Data processing was supervised by Toga Raikoti, Acting Principal Statistician, Fiji Islands Bureau of Statistics (FIBOS), using the CPro software.

## Data Appraisal

### **Estimates of Sampling Error**

None reported.

### **Other forms of Data Appraisal**

Expenditure is usually better reported than incomes. Where the former exceeded the latter, Enumerators were required to re-question the relevant households for possible omissions of incomes. Enumerators were also trained to probe further where they observed that households had income-earnings assets but were not reporting any related incomes. Enumerators and Supervisors were also required to check the validity of any large incomes and expenditures reported.

## File Description

## Variable List

## FJI\_2002\_HIES\_Person

Content	The complete person recoded data file. The file person.sas7bat, located in the folder: SAS, was converted to SPSS format using the Stat/Transfer program by Daniel Clarke on 12 March 2008.
Cases	0
Variable(s)	32
Structure	Type: relational Keys: hhldnum(Household number), hhid(Household ID)
Version	Version 1.0, edited file.
Producer	Fiji Islands Bureau of Statistics
Missing Data	

## Variables

ID	NAME	LABEL	TYPE	FORMAT	QUESTION
V1	type	Record type	discrete	character	
V2	round	Data collection round	discrete	character	
V3	batchnum	Batch number	discrete	numeric	
V4	area		discrete	character	
V5	division		discrete	character	
V6	ea	Enumeration Area	discrete	character	
V7	hhldnum	Household number	discrete	character	
V8	hhid	Household ID	discrete	character	
V9	r_index		discrete	character	
V10	persnum	Person line number	discrete	numeric	
V11	relation	Relation to head of household	discrete	numeric	
V12	ethnic	Ethnicity	discrete	numeric	
V13	rstatus	Residential status	discrete	numeric	
V14	sex	Sex	discrete	numeric	
V15	age	Age	contin	numeric	
V16	mstatus	Marital Status	discrete	numeric	
V17	money	Money activity	discrete	numeric	Did you work for money within the last 30 days?
V18	day_mon	Days worked in month	discrete	numeric	How many days money work?
V19	subs	Subsistence activity	discrete	numeric	Did person plant or collect shells, fish or provide for own use?
V20	eactive	Other activity	discrete	numeric	
V21	occup	Occupation	discrete	numeric	What was your principal occupation in the last 30 days?
V22	indus	Industry	discrete	numeric	Give name and address of your employer and if self-employed, what is your trade or business.
V23	estatus	Employment status	discrete	numeric	
V24	rnowork	Reason not working	discrete	numeric	
V25	inwork	Time without work	discrete	numeric	How long have you been without work?

V26	attend	School attendance	discrete	numeric
V27	attain	Educational attainment	discrete	character
V28	field	Field of study	discrete	character
V29	demo_wgt		contin	numeric
V30	inc_wgt		contin	numeric
V31	pop_fiji		contin	numeric
V32	selhhld		contin	numeric

## FJI\_2002\_HIES\_Household

Content	The complete household recoded data file. The file household.sas7bat, located in the folder: SAS, was converted to SPSS format using the Stat/Transfer program by Daniel Clarke on 12 March 2008.
Cases	0
Variable(s)	43
Structure	Type: relational Keys: hhldnum(Household number), hhid(Household ID)
Version	Version 1.0, edited file.
Producer	Fiji Islands Bureau of Statistics
Missing Data	

## Variables

ID	NAME	LABEL	TYPE	FORMAT	QUESTION
V33	type	Record type	discrete	character	
V34	round	Data collection round	discrete	character	
V35	batchnum	Batch number	discrete	numeric	
V36	area		discrete	character	
V37	division		discrete	character	
V38	ea	Enumeration Area	discrete	character	
V39	hhldnum	Household number	discrete	character	
V40	hhid	Household ID	discrete	character	
V41	r_index		discrete	character	
V42	tlqtrs	Type of living quarters	discrete	numeric	Does this household live in: an independent dwelling? a building housing two or more households? a hotel or lodging house? other, specify.
V43	co_walls	Material of outer walls	discrete	numeric	
V44	nrooms	Number of rooms	contin	numeric	
V45	w_supply	Source of water supply	discrete	numeric	Is the household's water: metered? from a communal standpipe? rooftop? borehole? well? river or creek? other, specify.
V46	electric	Electricity	discrete	numeric	Does the household have electricity?
V47	elec_sup	Supply of electricity	discrete	numeric	If yes, by which supply?
V48	lighting	Source of lighting	discrete	character	
V49	lgt_elec	Lighting: electric	discrete	numeric	What does the household mainly use for lighting?
V50	lgt_kero	Lighting: kerosene	discrete	numeric	What does the household mainly use for lighting?
V51	lgt_benz	Lighting: benzene	discrete	numeric	What does the household mainly use for lighting?
V52	lgt_sol	Lighting: solar power	discrete	numeric	What does the household mainly use for lighting?
V53	cfuel	Cooking fuel	discrete	character	
V54	ck_wood	Cooking fuel: wood	discrete	numeric	What does the household mainly use for cooking?
V55	ck_kero	Cooking fuel: kerosene	discrete	numeric	What does the household mainly use for cooking?
V56	ck_lpg	Cooking fuel: LPG	discrete	numeric	What does the household mainly use for cooking?
V57	ck_elec	Cooking fuel: electricity	discrete	numeric	What does the household mainly use for cooking?

V58	toilet	Toilet facilities	discrete	numeric	What kind of toilet facilities does your household have?
V59	tenure	Tenure of living quarters	discrete	numeric	
V60	durables	Household durables	discrete	numeric	
V61	car	Household durables: car	discrete	numeric	Are any of the following items available for use by any members of this household?
V62	truck	Household durables: truck	discrete	numeric	Are any of the following items available for use by any members of this household?
V63	fridge	Household durables: fridge	discrete	numeric	Are any of the following items available for use by any members of this household?
V64	computer	Household durables: computer	discrete	numeric	Are any of the following items available for use by any members of this household?
V65	videotv	Household durables: video/tv	discrete	numeric	Are any of the following items available for use by any members of this household?
V66	wash	Household durables: washing machine	discrete	numeric	Are any of the following items available for use by any members of this household?
V67	stove	Household durables: stove	discrete	numeric	Are any of the following items available for use by any members of this household?
V68	phone	Household durables: phone	discrete	numeric	Are any of the following items available for use by any members of this household?
V69	motor	Household durables: outboard motor	discrete	numeric	Are any of the following items available for use by any members of this household?
V70	waterp	Household durables: water pump	discrete	character	Are any of the following items available for use by any members of this household?
V71	radio		discrete	character	
V72	bcutter		discrete	character	
V73	demo_wgt		contin	numeric	
V74	prov		discrete	character	
V75	selhhld		contin	numeric	



## FJI\_2002\_HIES\_Exp-deflated

Content	The complete household expenditure deflated recoded data file. The file hhld_exp_deflated.sas7bat, located in the folder: SAS, was converted to SPSS format using the Stat/Transfer program by Daniel Clarke on 12 March 2008.
Cases	0
Variable(s)	24
Structure	Type: relational Keys: hhid(Household ID)
Version	Version 1.0, edited file.
Producer	Fiji Islands Bureau of Statistics
Missing Data	

## Variables

ID	NAME	LABEL	TYPE	FORMAT	QUESTION
V76	hhid	Household ID	discrete	character	
V77	r_index		discrete	character	
V78	class		discrete	character	
V79	h_coninc		contin	numeric	
V80	h_condry		contin	numeric	
V81	imp_rent	Imputed rent	contin	numeric	
V82	imp_trans		contin	numeric	
V83	low_food		contin	numeric	
V84	hh_eth		discrete	character	
V85	division		discrete	character	
V86	area		contin	numeric	
V87	inc_cas		contin	numeric	
V88	inc_perm		contin	numeric	
V89	agr_buss		contin	numeric	
V90	bus_entp		contin	numeric	
V91	inc_oth		contin	numeric	
V92	h_consmpt		contin	numeric	
V93	gd_buss		contin	numeric	
V94	gd_empty		contin	numeric	
V95	gif_dry		contin	numeric	
V96	loans		contin	numeric	
V97	rev_rent		contin	numeric	
V98	imp_food		contin	numeric	
V99	income06		contin	numeric	

## FJI\_2002\_HIES\_Inc-deflated

Content	The complete household income deflated recoded data file. The file hhld inc deflated.sas7bat, located in the folder: SAS, was converted to SPSS format using the Stat/Transfer program by Daniel Clarke on 12 March 2008.
Cases	0
Variable(s)	24
Structure	Type: relational Keys: hhid(Household ID)
Version	Version 1.0, edited file.
Producer	Fiji Islands Bureau of Statistics
Missing Data	

## Variables

ID	NAME	LABEL	TYPE	FORMAT	QUESTION
V100	hhid	Household ID	discrete	character	
V101	r_index		discrete	character	
V102	class		discrete	character	
V103	h_coninc		contin	numeric	
V104	h_condry		contin	numeric	
V105	imp_rent		contin	numeric	
V106	imp_trans		contin	numeric	
V107	low_food		contin	numeric	
V108	hh_eth		discrete	character	
V109	division		discrete	character	
V110	area		contin	numeric	
V111	inc_cas		contin	numeric	
V112	inc_perm		contin	numeric	
V113	agr_buss		contin	numeric	
V114	bus_entp		contin	numeric	
V115	inc_oth		contin	numeric	
V116	h_consm		contin	numeric	
V117	gd_buss		contin	numeric	
V118	gd_empt		contin	numeric	
V119	gif_dry		contin	numeric	
V120	loans		contin	numeric	
V121	rev_rent		contin	numeric	
V122	imp_food		contin	numeric	
V123	income06		contin	numeric	

