

Fiji - Household Income and Expenditure Survey 2002-2003

Household Survey Department

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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 | http://www.nesstar.org/rdf/common |
| income, property and investment/saving [1.5] | CESSDA | http://www.nesstar.org/rdf/common |

| | | |
|--|--------|---|
| unemployment [3.5] | CESSDA | http://www.nesstar.org/rdf/common |
| children [12.1] | CESSDA | http://www.nesstar.org/rdf/common |
| family life and marriage [12.5] | CESSDA | http://www.nesstar.org/rdf/common |
| community, urban and rural life [13.1] | CESSDA | http://www.nesstar.org/rdf/common |
| fertility [14.2] | CESSDA | http://www.nesstar.org/rdf/common |

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

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

None reported.

Weighting

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

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

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 Collectors

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

Supervision

Supervisors were required to check 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

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

Data processing was supervised by Toga Raikoti, Acting Principal Statistician, Fiji Islands Bureau of Statistics (FIBOS), using the CSPro 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 | inowork | 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? rooftank? 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_empt | | 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_consmpt | | contin | numeric | |
| V117 | gd_buss | | contin | numeric | |
| V118 | gd_emply | | 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 | |

