

# Palau - Household Income and Expenditure Survey 2014

**Office of Planning and Statistics - Bureau of Budget and Planning**

Report generated on: July 14, 2016

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# Overview

## Identification

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### ID NUMBER

ROP-OPS-HIES-2014.v1.2

## Version

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### VERSION DESCRIPTION

v1.2 Edited data, second version, for internal use only.

### PRODUCTION DATE

2015-01-30

## Overview

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### ABSTRACT

The purpose of this survey is to obtain information on the income, consumption pattern, incidence of poverty, and saving propensities for different groups of people in the Republic of Palau. This information will be used to guide policy makers in framing socio-economic developmental policies and in initiating financial measures for improving economic conditions of the people.

The Palau National Household Income and Expenditure survey (HIES) was implemented over a 12-month period from November 2013 to October 2014. This report is the first generated output of the HIES and it includes information on the survey, interpretation and analysis of data, and an appendix of key expenditure and income tables.

The 2014 Household Income and Expenditure Survey, implemented by the Office of Planning and Statistics, and adopted a new regional standardized methodology that was developed by the Secretariat of the Pacific Community (SPC).

The main objective of the HIES was to collect household income and expenditure information and an array of socio-demographics data. HIES data:

- contribute to the revision of consumer price indice;
- contribute to the compilation of national accounts estimates; and
- provide information on the incidence of poverty in Palau.

Some 1,145 households were selected (in private dwellings and workers quarters) to participate in the survey, and the response rate was 75.8% (i.e. 869 households responded). This response rate allows for statistically significant analysis at the national, urban and rural level.

The results are summarized in five chapters, which cover population profile, expenditure analysis, income analysis and additional analysis. Additionally, these outputs will provide basic data for social and economic planning and policy development.

### KIND OF DATA

Sample survey data [ssd]

### UNITS OF ANALYSIS

- Individual
- Households

## Scope

### NOTES

The scope of the Household Income and Expenditure Survey includes:

- **DEMOGRAPHICS:** Demographic profile, Labor Force status (activities last week), Educational status, Anthropometrics & Health status, Communication status, and Household members who left the household.
- **HOUSEHOLD EXPENDITURES:** Housing characteristics, housing tenure expenditure, utilities & communication details, utilities & communication expenditures, land & home details, land & home expenditures, household goods & assets details, household goods & assets expenditures, vehicle & accessories details, vehicle & accessories expenditures, private travel details, private travel expenditures, household service expenditures, contributions to special occasion, provision of financial support, loans, household assets insurance & taxes, and personal insurance.
- **INDIVIDUAL EXPENDITURE:** Educational grants and scholarships, education identification, education expenditures, health identification, health expenditures, clothing identification, clothing expenditures, communication identification, communication expenditures, luxury items identification, and luxury items expenditures.
- **INCOME:** Wages & Salary of individual in the country and the last 12 months, as well as wages & salary for individual overseas from the last 12 months, module also include income from non subsistence business, as well as both the description and income from agricultural & forestry activities, description and income from handicraft & home processed food activities, description and income from livestock & agricultural activities, description and income from fishing, hunting, & gathering activities, property income, transfer income & other receipts, and remittances & other cash gifts.
- **DIARY:** Two weeks diary; Week 1, covers household expenses daily including payments paid for service, gambling, also records any items received for free as a gift (food or non-food items), home produced food items, the diary contains an overflow sheet for bought, service paid, items received for free, and home produced items consumed/sold/given/ away that week. Week 2; practically the same diary as week 1.

### TOPICS

Topic	Vocabulary	URI
Access to Finance	World Bank	
Health Systems & Financing	World Bank	
Payment Systems	World Bank	
Education	World Bank	

## Coverage

### GEOGRAPHIC COVERAGE

National coverage

### UNIVERSE

The HIES survey covered households selected in private dwelling and workers' quarters from 6 stratum;

- Koror
- Airai
- East Babeldaob
- West Babeldaob
- Peleliu
- Kayangel/Angaur

Geographical stratification: Urban/rural split among the 16 states within the 6 stratum.

## Producers and Sponsors

### PRIMARY INVESTIGATOR(S)

Name	Affiliation
Office of Planning and Statistics	Bureau of Budget and Planning

### OTHER PRODUCER(S)

Name	Affiliation	Role
Secretariat of the Pacific Community, Statistic for Development Division	SPC	Technical support

### FUNDING

Name	Abbreviation	Role
Republic of Palau Government	ROP-Gov	Shared Funding
Asian Development Bank	ADB	Shared Funding
United States Department of Interior	USDI	Shared Funding

## Metadata Production

### METADATA PRODUCED BY

Name	Abbreviation	Affiliation	Role
Office of Planning and Statistics	OPS	Household Income and Expenditure Survey	Documentation of the Study

### DATE OF METADATA PRODUCTION

2016-07-11

### DDI DOCUMENT VERSION

Version 1.2 (January 2015)

### DDI DOCUMENT ID

ROP-OPS-HIES-2014.v1.2

# Sampling

## Sampling Procedure

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A sample size of 1,145 households were selected (in private dwellings and workers quarters) to participate in the survey, and out of the selected household 869 household responded. This response rate allows for statistically significant analysis at the national, urban and rural level.

The 2014 Palau HIES focused on generating reliable results at the national level, with a secondary focus on producing results for the urban-rural split. The urban population consists of the states of Koror and Airai. The rural population of Palau refers to all other states, excluding the states of Hatohobei and Sonsorol, which are located great distance away from the main population centers, and are very difficult to reach and only include a small proportion of the population (0.1% of the national population based on the 2012 census).

The sampling frame used was the 2012 Palau census, which provided population figures for everyone living in both private households and group quarters (e.g. worker barracks, school dormitories, prison). The sample selection was done separately in private dwellings and group quarters. Both types of sample selected are also divided into urban and rural areas, which are considered the stratum.

For private dwellings, the selection process was different in urban and rural areas. In urban areas, the sample in Koror and Airai was selected separately within each state. The process was to sort the households in each state by their geographical position, and then randomly select households in this list in order to achieve the desirable sample size. In rural states, the sample was distributed to each state proportional to the number of households.

For the group quarters, the strategy adopted was to combine group quarters together so that there were roughly 20 people or more residing within them (these combined group quarters are referred to as primary selection units or PSUs). A sample of PSUs was then selected using probability proportional to size (PPS) sampling. Within each selected PSU, a sampling of 14 people was selected using systematic sampling from the list of all people living within that PSU. The list was updated within each selected PSU prior to the round in which it was selected, and selections were based on the updated list.

It is important that this list was converted to household units rather than people because the data for the survey was collected from the household units. In most cases, the person was the household unit; however, there could have been cases where a couple could be living together in a group quarter, in which case they should be listed as one household.

## Deviations from Sample Design

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The first stage of the sample design involved splitting the population by those persons living in Private Dwellings and those persons living in Group Quarters. The split for Palau based on the 2012 census was as follows:

Private Dwellings.....	15,266
Group Quarters.....	2,235
TOTAL.....	17,501

Of this population, the persons residing on Sonsorol and Hatohobei were excluded from the survey due to their small populations and the difficulties in reaching these remote islands. These islands only accounted for 16 people (0.1 percent).

For Group Quarters, not all of these living quarters were considered appropriate to be included in the HIES. For this reason, only those persons residing in Work Dormitories were included in the survey. This still accounted for 1,912 persons living in group quarters.

The sample size chosen for the HIES was around 20 per cent, which means 1 in every 5 households should be selected in the survey. This figure was increased a little to account for household who could not be located, or refused to be part of the survey.

A random approach of skipping through a list of households for the private dwelling sample was adopted for both the urban and rural states.

For the group quarters the sample approach was more challenging. Group quarters were grouped together in such a way that there were at least 20 persons living in each combination of group quarters. From there a sample of these combined group quarters was chosen to represent each round, and 14 persons were chosen from each selection of combined group quarters.

Each workload for an interviewer will comprise of 10 households for the private dwelling sample, or 14 persons for the group quarters.

## **Response Rate**

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The overall response rate was 75.8%, a result from 1,145 households selected (in private dwellings and workers quarters) to participate in the survey (i.e. 869 household responded). This response rate allows for statistically significant analysis at the national, urban and rural level.

More than 76% of the interviews were conducted without any issues (household in scope of the survey and agree to collaborate). The main reason for not conducting the survey was refusal (almost 10% of households).

Although 877 family units were interviewed, 8 were removed from analysis because too much information was missing on the survey form. In total, 869 valid interviewed household were kept in the analysis.

## **Weighting**

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In order to produce survey weights to produce more meaningful estimates of both population totals and means, weights were derived at a stratum level. The computation of the stratum level weight was a simple process where the estimates number of occupied households at the time of the survey, was divided by the responding sample for the stratum.

# Questionnaires

## Overview

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The survey schedules adopted for the HIES included the following:

- Household Control Form
- Expenditure Questionnaire
- Income Questionnaire
- Diary (x2)

Information collected in the four schedules covered the following:

Household Control Form: This form includes the following information:

1. Name
2. Sex
3. Date of Birth
4. Ethnicity
5. Marital Status
6. Educational Attainment
7. Activity Status
8. Literacy Status
9. Internet Usage

Income questionnaire: This questionnaire has 8 sections and includes the following information:

1. Working for Wage and / or Salary
2. Agriculture, livestock, fishing and other sales
3. Other Self Employed & Business Operations
4. Previous Jobs held in the last 12 months
5. Services Provided to Other Private Households
6. Receipts from Custom Occasions
7. Welfare Benefits/Allowances
8. Other Income, including Remittances

Expenditure Questionnaire: This questionnaire has 16 sections and includes the following information:

1. Dwelling characteristics
2. Dwelling tenure
3. Mortgages and loans for purchase of dwellings
4. Insurance policies
5. Construction of new dwellings
6. Major home improvements
7. Household operation
8. Transportation
9. Travel - Domestic & Overseas
10. Education, recreation, sport and culture
11. Loans
12. Credit Cards/ Charge accounts
13. Contribution to benefit schemes
14. Medical and health services
15. Customs Occasions
16. Miscellaneous payments
17. Agricultural Assets

Weekly Diary: This questionnaire has 4 sections and includes the following information:

1. Items Bought
2. Consumption of Items Produced by the Household
3. Gifts
4. Winnings from Betting, Raffles and Lotteries

For the household control form, expenditure questionnaire and income questionnaire, a face-to-face interview was

conducted with the household to capture the information. For the two diaries, the first diary was left with the household for the first week, for the household to fill out. After the first week, the diary is picked up and the second week diary is dropped off to be filled out and picked up at the end of second week. Interviewers were required to contact each household every two to three days to make sure households were filling out their diaries appropriately.

The HIES questionnaire; modules and diaries are provided as external resources.

## Data Collection

### Data Collection Dates

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Start	End	Cycle
2013-11-07	2013-11-27	Round 1
2013-11-28	2013-12-18	Round 2
2013-12-19	2014-01-08	Break / Christmas
2014-01-09	2014-01-29	Round 3
2014-01-30	2014-02-19	Round 4
2014-02-20	2014-03-12	Round 5
2014-03-13	2014-04-02	Round 6
2014-04-03	2014-04-23	Round 7
2014-04-24	2014-05-14	Round 8
2014-05-15	2014-06-04	Round 9
2014-06-05	2014-06-25	Round 10
2014-06-26	2014-07-16	Round 11
2014-07-17	2014-08-06	Round 12
2014-08-07	2014-08-27	Round 13
2014-08-28	2014-09-17	Round 14
2014-09-18	2014-10-08	Round 15
2014-10-09	2014-10-29	Round 16

### Time Periods

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Start	End	Cycle
2013-11-07		12-month period

### Data Collection Mode

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Face-to-face [f2f]

### Data Collection Notes

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The Palau 2013/14 HIES will be conducted over a 12 month period, commencing around the 7th November 2013, and concluding on the 29th October 2014. In order to spread the survey out over the 12 months, the sample will be divided into 16 rounds with 60 private dwellings and 14 groups quarter residents selected in each round.

Each round will last for approximately 3 weeks, with 1 designated break over Christmas which will also serve as a field work review for the first 2 weeks.

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The HIES questionnaire; modules and diaries are provided as external resources.

## Data Collectors

Name	Abbreviation	Affiliation
Office of Planning and Statistics	OPS	Ministry of Finance

## Supervision

The staff involved in the fieldwork comprised of the following:

- Staff from the Office of Planning and Statistics - HIES Manager
- Quality Control Officers (2)
- Supervisors (3)
- Enumerators (7)

The overall organisation and control of the HIES will be the responsibility of the staff from the Office of Planning and Statistics, in particular the HIES survey manager. The HIES manager will have 3 supervisors working under them, who will be responsible for:

Supervisor 1: All data collection from the private dwelling sample in the rural states (2 Interviewers)

Supervisor 2 & 3: All data collection from the private dwelling sample in Koror and Airai + data collection from the group quarters.

Data collected from the field, after being thoroughly checked by interviewers and supervisors, will be delivered to the two quality control officers for data entry and error checking. The two quality control officers will be responsible for reporting back to the HIES manager on the quality of field work, as well as providing supervisors with error reports at the completion of each round to assist the data cleaning process.

Refer to: 2.1 Team Structure; in the Field Work Manual  
2.2 Communication; in the Field Work Manual

## Data Processing

No content available

# Data Appraisal

## **Estimates of Sampling Error**

No formal measure of sample errors has been calculated for the survey results. Non-sampling errors cannot be readily measured, and include issues such as:

- both respondents and interviewers not completely understanding what was required from the survey;
- the questionnaires being in English, which is a second language for both interviewers and respondents;
- the exclusion of remote areas and institutions from the sampling frame.

The methodological report provides a section on data quality.



# Documentation

## Questionnaires

### Module 1 - Demographics Information

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Title	Module 1 - Demographics Information
subtitle	Household Income and Expenditure Survey
Author(s)	Office of Planning and Statistics
Date	2013-09-13
Country	Palau
Language	English
Contributor(s)	Office of Planning and Statistics
Publisher(s)	Office of Planning and Statistics, Bureau of Budget and Planning, Ministry of Finance
Table of contents	S1.1 Demographic Profile S1.2 Labor Force status (Activities last week) S1.3 Educational status S1.4 Anthropometrics & Health status S1.5 Communication status S1.6 Household members who left the household
Filename	docs/1. questionnaire/Module1_Palau_13Sep13_V4.pdf

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### Module 2 - Household Expenditures

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Title	Module 2 - Household Expenditures
subtitle	Household Income and Expenditure Survey
Author(s)	Office of Planning and Statistics
Date	2013-09-13
Country	Palau
Language	English
Contributor(s)	Office of Planning and Statistics
Publisher(s)	Office of Planning and Statistics, Bureau of Planning and Statistics, Ministry of Finance
Table of contents	S2.1 Housing Characteristics S2.2 Housing Tenure Expenditure S2.3.1 Utilities & Communication Details S2.3.2 Utilities & Communication Expenditures S2.4.1 Land & Home Details S2.4.2 Land & Home Expenditures S2.5.1 Household Goods & Assets Details S2.5.2 Household Goods & Assets Expenditures S2.6.1 Vehicles & Accessories Details S2.6.2 Vehicles & Accessories Expenditures S2.7.1 Private Travel Details S2.7.2 Private Travel Expenditures S2.8 Household Services Expenditures S2.9 Contributions to Special Occasions S2.10 Provisions of Financial Support S2.11 Loans S2.12 Household Asset Insurance & Taxes S2.13 Personal Insurance
Filename	docs/1. questionnaire/Module2_Palau_13Sep13_V4.pdf

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## Module 3 - Individual Expenditures

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Title	Module 3 - Individual Expenditures
subtitle	Household Income and Expenditure Survey
Author(s)	Office of Planning and Statistics
Date	2013-09-13
Country	Palau
Language	English
Contributor(s)	Office of Planning and Statistics
Publisher(s)	Office of Planning and Statistics, Bureau of Budget and Planning, Ministry of Finance
Table of contents	<ul style="list-style-type: none"> <li>S3.1.1 Educational grants and scholarships</li> <li>S3.1.2 Educational Identification</li> <li>S3.1.3 Educational Expenditures</li> <li>S3.2.1 Health Identification</li> <li>S3.2.2 Health Expenditures</li> <li>S3.3.1 Clothing Identification</li> <li>S3.3.2 Clothing Expenditures</li> <li>S3.4.1 Communication Identification</li> <li>S3.4.2 Communication Expenditures</li> <li>S3.5.1 Luxury Items Identification</li> <li>S3.5.2 Luxury Items Expenditures</li> </ul>
Filename	docs/1. questionnaire/Module3_Palau_13Sep13_V4.pdf

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## Module 4 - Income

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Title	Module 4 - Income
subtitle	Household Income and Expenditure Survey
Author(s)	Office of Planning and Statistics
Date	2013-09-13
Country	Palau
Language	English
Contributor(s)	Office of Planning and Statistics
Publisher(s)	Office of Planning and Statistics, Bureau of Budget and Planning, Ministry of Finance
Table of contents	<ul style="list-style-type: none"> <li>S4.1.1 Wages &amp; Salary: In country (current)</li> <li>S4.1.2 Wages &amp; Salary: Overseas (last 12 months)</li> <li>S4.1.3 Wages &amp; Salary: In country (last 12 months)</li> <li>S4.2 Income from Non Subsistence Business</li> <li>S4.3.1 Description of Agricultural &amp; Forestry Activities</li> <li>S4.3.2 Income from Agricultural &amp; Forestry Activities</li> <li>S4.4.1 Description of Handicraft &amp; Home Processed Food Activities</li> <li>S4.4.2 Income from Handicraft &amp; Home Processed Food Activities</li> <li>S4.5.1 Description of Livestock &amp; Aquaculture Activities</li> <li>S4.5.2 Income from Livestock &amp; Aquaculture Activities</li> <li>S4.6.1 Description of Fishing, Hunting &amp; Gathering Activities</li> <li>S4.6.2 Income from Fishing, Hunting &amp; Gathering Activities</li> <li>S4.7 Property Income, Transfer Income &amp; Other Receipts</li> <li>S4.8 Remittances &amp; Other Cash Gifts</li> </ul>
Filename	docs/1. questionnaire/Module4_Palau_13Sep13_V4.pdf

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## Diary - Week 1

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Title	Diary - Week 1
subtitle	Household Income and Expenditure Survey
Author(s)	Office of Planning and Statistics
Date	2013-09-13
Country	Palau
Language	English

	S5.1 What did your household buy today (food & non food items)
	S5.2 Payments for services made today
	S5.3 Gambling done today
	S5.4 Any items received for free as a gift today (food & non food items)
Table of contents	S5.5 Home produced food items today
	S5.1a Overflow sheet for items bought this week
	S5.2a Overflow sheet for services paid for this week
	S5.4a Overflow sheet for items received for free this week
	S5.5a Overflow sheet for home produced items consumed/sold/given away this week
Filename	docs/1. questionnaire/Diary1_Palau_23Oct13.pdf

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## Diary - Week 2

Title	Diary - Week 2
subtitle	Household Income and Expenditure Survey
Author(s)	Office of Planning and Statistics
Date	2013-09-13
Country	Palau
Language	English
	S5.1 What did your household buy today (food & non food items)
	S5.2 Payments for services made today
	S5.3 Gambling done today
	S5.4 Any items received for free as a gift today (food & non food items)
Table of contents	S5.5 Home produced food items today
	S5.1a Overflow sheet for items bought this week
	S5.2a Overflow sheet for services paid for this week
	S5.4a Overflow sheet for items received for free this week
	S5.5a Overflow sheet for home produced items consumed/sold/given away this week
Filename	docs/1. questionnaire/Diary2_Palau_23Oct13.pdf

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## Reports

### 2014 Household Income and Expenditure Survey

Title	2014 Household Income and Expenditure Survey
Author(s)	Office of Planning and Statistics
Date	2015-01-30
Country	Palau
Language	English
Contributor(s)	Office of Planning and Statistics (OPS) Secretariat of the Pacific Community (SPC) Asian Development Bank (ADB) United States of Interior (USDI)
Publisher(s)	Office of Planning and Statistics, Bureau of Budget and Planning, Ministry of Finance
Filename	docs/Report/2014-ROP-HIES.pdf

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## Other materials

### Questionnaire Manual

Title	Questionnaire Manual
Author(s)	Office of Planning and Statistics
Date	2013-10-01
Country	Palau
Language	English
Filename	docs/Manuals/Palau Questionnaire Manual.pdf

## Field Work Manual

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Title Field Work Manual  
Author(s) Office of Planning and Statistics  
Date 2013-10-01  
Country Palau  
Language English  
Filename docs/Manuals/Palau Field Work Manual.pdf

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