

Modernization Efforts at the SIB

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Introduction

The Statistical Institute of Belize remains committed to its vision of providing accurate, timely and reliable statistical information that contributes to the development of the country.

The institute continues to achieve this through the modernization of its two main data sources:

- 1. Primary Data.
- 2. Administrative Data.

Primary Data Sources

Official Statistics from Primary sources:

- 1. Population and Housing (Census).
- 2. Labour Force.
- 3. Consumer Price Index.

These statistics are produced and released on a regular basis, lending the need for efficient and effective collection methods.

The SIB has been aiming to modernize:

- Collection and processing methods.
- Related administrative processes.



Modernizing primary data and CAPI

Since 2015: Migration to CAPI.

Main CAPI software is Survey Solutions:

- Free CAPI software developed by the World Bank.
- Combines data capture, survey management, data aggregation.
- Used for BES (PRASC), LFS, MOHS, among others.

Other software used for CAPI:

- CSPro (MICS5 Survey).
- In-house Android application (CPI).

Gained advantages:

- 1. Rapid availability of collected data.
- 2. Greater quality control.
- 3. Cost savings.

≡ Cover	:
MOH Survey	
HOUSEHOLD NUMBER 1 REGION Corozal HEALTH REGION Northern URBAN/RURAL URBAN/RURAL URBAN/RURAL 1 CLUSTER 101 ED NUMBER 101	
START	



CAPI Advantages

LFS Control Payments Checks and Reports

Number of Members Per Household

Mean number of members per household, according to interviewer team and area, Belize, 2017

Region	Area	Total Households	Interviewed Households	HOUSEHOLD MEMBEI	ELIGIBLE MEMBERS		
	Area	Total Households	(FRC = 1 or 2)	Household Members	Mean	Eligible Members	Mean
Corozal	Urban	175	143	450	3.1	344	2.4
Corozal	Rural	275	244	962	3.9	692	2.8
Orange Walk	Urban	175	144	528	3.7	406	2.8
Orange Walk	Rural	275	252	1004	4	745	4
Southside	Urban	275	233	749	3.2	559	2.4
Southside	Rural	175	138	456	3.3	359	2.6
Cayo	Urban	250	215	750	3.5	554	2.6
Cayo	Rural	250	228	918	4	614	2.7
Stann Creek	Urban	175	98	321	3.3	226	2.3
Stann Creek	Rural	275	197	765	3.9	533	2.7
Toledo	Urban	150	119	419	3.5	286	2.4
Toledo	Rural	350	309	1254	4.1	813	2.6
National	All	2800	2320	8576	3.7	6131	2.6

1. Rapid availability of collected data enables:

- Early analysis of data and indicators.
- Accurate and real-time monitoring of field work via Field Check Tables.
- Semi-automated payments for field-staff.

2. Greater Quality Control:

- Real-time input validation and range checks.
- Automatic application of filter/skip patterns.

Logout

• Two-level quality-review process.



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Pay Period: 2017-10-09 to 2017-10-15

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Corozal		Orange Walk	Drange Walk Belize Cayo St		Stan	n Creek	Toledo		Editors
Summary	Details								
Interviewer	Complete Count	Complete Items				Incomplete Count	Incomplete Items	Payment	
Deibi	×	Field Supervisor						\$360.00	Approve
Estilita	26	128; 17-4104-146; 105; 59-1201-121; 4104-110; 49-520;	59-1201-83; 13-2104-106; 13-2104-93; 11-101-24; 59-1201-137; 17-4104- 128; 17-4104-146; 13-2104-67; 17-4104-76; 13-2104-27; 17-4104-5; 59-1201- 105; 59-1201-121; 49-5201-128; 13-2104-14; 49-5201-107; 49-5201-65; 17- 4104-110; 49-5201-23; 49-5201-149; 49-5201-170; 49-5201-44; 13-2104-53; 59-1201-168; 49-5201-2; 17-4104-22;			5	13-2104- 79; 13- 2104-40; 49-5201- 87; 13- 2104-1; 11- 101-97;	\$337.00	Approve
Edna	³² ₃₇₅	74-745-61; 49-520	1-156; 57-1204-42; 49-5	104-28; 17-4104-11; 17-41 201-94; 74-745-90; 49-520 01-99; 49-5201-72; 11-110	1-51;	60	11-1105- 16; 11- 1105-49; 59-1201- 160: 13-	\$414.00	Approve
			www.sib.org.bz info@mail.si	b.org.bz +(501) 822-2207/2352	Constitution	Drive, Belmopan, I	Belize		

CAPI Advantages

3. Cost Savings:

- Paper and printing savings.
- Reusability of devices.

Results:

- 1. Reliable Data
 - Increased quality and accuracy of published data.
- 2. Timely Data
 - Reduction of processing and publishing times.
 - Labour Force: 4 months to 2 months.
 - CPI: 3 months to 1 month.
- 3. Resource Reallocation
 - Cost savings are reallocated for quality control measures, particularly monitoring and supervision.



Administrative Data

The SIB relies heavily on administrative data sources to feed the following main products:

- The GDP and financial statistics.
- Merchandise trade.
- Vital and Demographic Statistics

Some of our Admin data sources include:

- Government ministries (Agriculture, Health, Tourism, etc.)
- Customs department.
- Tax agencies.
- Social Security.

Modernizing Admin Data: Initiatives

Establishment of a National Statistical System (NSS).

National Strategy for Development of Statistics:

- Expanding the use of administrative registers.
- Assessment of existing administrative registers already available.
- Listing of all Indicators that can be obtained from available registers.

MOUs are being signed with several data providers and stakeholders.

- Define data sharing protocols: channels, frequency, security.
- Outline what SIB will give in return: Clean datasets, useful statistics.

PRASC Capacity Building

- Projects for creation of National Accounts
 - Business Register
 - SUTs

Current Modernization Projects

Current modernization projects:

- Modernization of Statistical System for Ministry of Agriculture
 - Data collection (CAPI), processing and dissemination.
- Income Tax digitization project (with PRASC)
 - Electronic questionnaires are being used to capture necessary data from physical financial statements.
 - Captured data will serve to strengthen GDP estimates and as foundation for the creation of supply-and-use tables (SUTs)
- Business Register
 - Work with several administrative registers along with traditional data sources to maintain a robust business register.
- Geospatial data

Modernization Challenges

1. Lack of understanding of Statistical Information

- A need for sensitization and outreach to the general population.
- A need for stablishing data collaboratives with stakeholders and data providers.

2. Lack of regulations

• Institutes and organizations collecting overlapping data with little regulation or standardization.

3. Limited human resources

• Full-time country-wide staff of 35.

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