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1993 Information Resources in Central America

Belize



An institutional directory
of natural resource and environmental information.



The
Nature
Conservancy.

1993 Information Resources in Central America: Belize

An institutional directory of natural resource and environmental information



Produced as part of
The Environmental Project for Central America
a Consortium of CARE and The Nature Conservancy



In collaboration with
The Belize Center for Environmental Studies

With financial support from the U.S. Agency for International Development
Regional Office for Central American Programs

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Foreword

Access to information is critical to making sound decisions about the rational use and conservation of natural resources. A serious impediment for those in need of a particular type of information is that the relevant information is often dispersed among a wide array of institutions, both governmental and private. This directory of information resources - the first in a series to cover all of Central America - is a tool to overcome the difficulties that can be confronted in trying to access information about natural resources and environmental conservation.

The directory is not a compendium of information about Belize, but rather a guide to the many institutions in Belize that actively maintain information resources. In this way, it functions as a tool to obtain specific information on a wide variety of topics. This should be an indispensable tool for those interested in biodiversity conservation, sustainable development, environmental policy, and related areas.

The survey on which this directory was based was carried out by the Belize Center for Environmental Studies and includes 57 institutions. Clearly, in spite of Belize's relatively small size there is a very active conservation and natural resources sector.

The series, *Information Resources in Central America*, is produced as part of the PACA project (Environmental Project for Central America), a regional effort of The Nature Conservancy and CARE International, which is co-financed by USAID's Regional Office for Central

American Programs (ROCAP). The overall goal of PACA is to promote the development of improved links between conservation and sustainable development activities. This is being accomplished by working intensively with local partner organizations at four sites in Central America.

Regionwide activities are being undertaken particularly directed toward improving the availability of information to decision-makers. In addition to working with the existing network of Conservation Data Centers in the region, this includes the production and distribution of these directories of information resources for all seven Central American countries.

The Nature Conservancy and PACA have been very pleased with our collaboration with the Belize Center for Environmental Studies on this project, and the center is functioning as the information repository for this survey. We are confident that this directory will prove useful to those seeking information about Belize's diverse but fragile natural environment.

Bruce A. Stein, Ph.D.
Director, Latin American Science Program
The Nature Conservancy



Preface

This Belize directory is the first of the series *Information Resources in Central America* or *Fuentes de Información en Centro América*, produced as part of the PACA (*Proyecto Ambiental para Centro América* or *Environmental Project for Central America*) project.

The directories present the user with quick access to all agencies, institutions, departments, ministries, non-governmental organizations, and others who manage information on environmental and natural resources in this country.

This has truly been a joint effort of international and local organizations. Having the best knowledge of the relevant institutions, the local organizations and individuals proposed the target institutions, interviewed them, compiled the information, and confirmed it with the institutions, under the general guidelines and supervision of the editors. In Guatemala, Costa Rica, and Panama the information was produced by the Conservation Data Centers of these countries; in the remaining countries, including Belize, other local institutions or individuals gathered the data.

Institutions were directly queried and/or visited. In this way, not only was the information more accurate, but more institutions in each country learned of the PACA project and of the surveying institution.

The information itself is up-to-date as of April 1993 and, given the changing nature of Central American institutions, particularly in this field, the intention is

to update it in the coming years as part of the PACA project. We welcome any and all corrections to this volume and suggestions for future editions.

The Belize Center for Environmental Studies conducted the survey under the supervision of Lou Nicolait, with the assistance of Frances Griffith, Elicia Leslie, and Terry Wright. Credit for the utility of the information to a broad audience is due to their diligence and perseverance.

The editors would like to thank the other people who worked on this, including Martha Martínez, who contributed graphic design and translated the material into Spanish, Roger Reynolds, who produced the matrix, Pat Morrison, who created the cover art, and especially Anne Maude Teixeira, who formatted the entire Belize volume tolerating the many revisions required for this first edition. The editorial help of Bruce Stein, of the Conservancy's Latin American Science Program, and Karen Fishler and Kelly Johnson, of the Publications Department, was remarkable. The professional level of the final product is due to their skill and judgment.

We would like to thank all those who participated in the original design of the study and who reviewed the results, including Bruce Stein, Brian Houseal, Laurie Hunter, and Gina Green of The Nature Conservancy, Peter Hazlewood, Marshall Burke, and Kim Johnston of CARE, David Kauck and Sylvia Marín of the PACA Regional Office, Claudio Saito and Leslie Lannon of AID/ROCAP,

George Like and Joe McGann of
USAID/Belize, Pamela Hathaway of World
Wildlife Fund, and Dan Tunstall and
Norbert Henninger of the World
Resources Institute.

The editors would especially like
to thank their families who have had to
endure two years of hearing about "the
survey" and "the directory" and all that
had to be done. With their support we
hope we have created something of real
value to the conservation and
development community.

Douglas S. Baker
Renán E. Chaves
Latin American Science Program
The Nature Conservancy



How to Use This Directory

The goal of this set of directories is not just to amass information, but instead to produce a product that will be useful to people working in Central America. The user may ask and get answered such questions as: "Who can I contact for botanical information on the Rio Bravo area of Belize and how can I get this information?" or "What government agency has information on the environmental laws of Belize?" or "Is there an NGO or other private group that can help do an Environmental Impact Assessment of the Toledo area?"

Thus, the orientation of the work was to seek out useful institutions, ask them detailed questions, and then to analyze and present the resultant information in a usable, standardized format for all seven countries of Central America.

The directory's focus was on those institutions that maintain and utilize *information* in the area of natural resources and related areas of science, socio-economics, and law. Those institutions that only carry out projects or do not maintain resource-oriented information are not included. A list of all of the included institutions appears at the beginning of the section of Institutional Information.

In this directory, "institution" is employed in a broad sense to include all types of organizations including ministries, agencies, divisions, departments, foundations, institutes, research centers, non-governmental organizations, local organizations, and

any other identifiable group in the relevant areas. In some cases the "institution" is a department of a ministry, in others the entire ministry, and in still others, both. Which merited inclusion and at what level was determined based on whether this was a discrete group with an identified mission. Thus, in certain cases two different offices or departments of the same ministry could both be included if they were responsible for different areas (e.g., marine vs. terrestrial resources). Generally it was felt there was more utility in erring on the side of making too many records rather than putting too much disparate information in one record.

This directory has two main components: the main body of records of each institution and a matrix that presents only the main categories of information. Users may know only that they are interested in a certain type of scientific information or in finding out who keeps certain types of maps. The quickest way to find this is to consult the matrix. This will point directly to the actual institutional records. Users who already know the name of the institutions which interest them may proceed directly to the main body where the institutions are listed in alphabetical order.

EXPLANATION OF THE INFORMATION

For each institution included in this directory a variety of information is presented. This information is arranged in three main sections, including a

General Institutional Profile, the Types of Information Available, and Information Management Capabilities. The following provides a detailed explanation of the various specific kinds of data included within each section.

The initial General Institutional Profile section gives a clear and complete picture of who the institution is and what it is a part of, as well as the most basic information necessary for contacting and working with the institution.

The full name of the institution appears at the top of the record and on subsequent pages of the same record.

Abbreviation: Commonly-used abbreviation seen in logos and the like. Not all institutions have an abbreviation while others are known principally by this.

Director: Name of person responsible for institution. Frequently also Principal contact:.

Title: Official title of person appearing in Director:.

Address: Address used for regular mail.

Head of institution: President, Director, Department Chief, etc. of institution as may be necessary for formal contacts even if no direct contact was made with him or her for this directory.

Principal contact: Person who provided the information to the interviewer. If the same as Director: then left blank. This may not be the person for public contact or inquiries which may identified in Other contacts.

Other contacts: May include heads of other departments, important scientists or technicians, the officer responsible for public contact, and any others along with their titles or responsibilities.

Major institution: May identify an institution such as the Ministry of Agriculture even when it is not expected that the following field (Contact within larger institution) is used.

Major contact: Provides information on whom to contact in the larger institution or another office or department within it.

Type of institution: A controlled list of institution types utilized for purposes of standardization. Many institutions have Comments.

Mission: The official mission statement of the institution if it exists or a formulation of one if not.

Activities: The kinds of general activities and, if possible, some of the specific activities as well.

Employees: "Full-time" is all regular employees, professional, administrative, and otherwise; any other non-full-time whether paid or volunteer, are considered "other affiliated".

Funding: All those sources paying for activities of the institution are included even if some of these sources are only paying for specific projects.

The section on Types of Information Available details what kinds of information the institution manages, what areas it covers, how it is kept, and who can use it.

Types of information available: Lists all of the types of information which this institution handles as a useful, separable category. The operative principle for inclusion is whether one would send someone looking for information on this topic to this institution.

Coverage: Geographic rather than subject focus. In principle, lists the area for which the institution has official responsibility, but if, in fact, information exists for only a portion of this, the differences are noted in Comments.

Form and size of holdings: Characterizes in a general way the type of collection which is holding this information, (that is, library vs. museum, photos vs. database, etc.) and gives an estimate of the size of the collection. Comments may contain information as to collection activity.

Accessibility of information: Reflects the general or official policy of the institution; many institutions have explanations for cost policies in Comments.

Map collection: Types of maps in a standardized list; any others which the institution has which are not listed appear in Comments. Some Comments have indications of how current the maps are (e.g., 1977, 1990), their scale (e.g., 1:50,000, 1:16,000), and the classifications systems employed (e.g., Holdridge Life Zone, USGS Soil types).

Bibliographic collection: Presents the holdings contained and subjects emphasized and whether the collection is up-to-date and available to outside consultation.

The section on Information Management Capabilities presents what the institution is capable of doing with the information in terms of its analytical abilities, projects carried out, terms of services to the outside, and the publication of results.

Uses: Characterizes the institution and differentiate research organizations from decision-making organizations. The answer should be consistent with the Type of institution and the Types of information.

Analysis: Presents computer-based capabilities. When possible, specifies the program used for analysis of remotely sensed images, for GIS, and for databases.

Services: Clarifies information on what people can ask the institution to do. More applicable to consulting companies or to NGOs and CDCs than to government agencies.

Projects: Clearly conveys the projects' focus and includes dates where possible. Restricted to projects in the area of natural resources or conservation carried out or completed in last 3 years.

Regular and irregular publications: Regular publications include journals and newsletters; Irregular publications include published and available reports of studies completed, books published, EIAs finished, etc. List includes title and a phrase providing focus (if not clear from title), as well as frequency and approximate size.



Information Matrix

The matrix of information on the following pages represents the quickest way to find institutions of interest to the user. For all institutions which have records in the main body of the directory the main categories of information are presented here: scientific, socio-economic, and legal information, forms of holdings, and the type of maps in collections.

A black square indicates that the institution has this kind of information or has information in this format. Details as to coverage, completeness, years, etc. may be found when consulting the complete records of the institutions which are found in alphabetical order in the section following this.

To an extent, the matrix can also be an analytical tool for the natural resources/ecological information situation in Belize. The kinds of information found in Belize may be followed horizontally. A quick look shows clearly that more institutions have biological information than hydrological information, for example, and that more have land use information than information on environmental laws. Similarly, by looking vertically the user can see which institutions have a broader spectrum of information and which concentrate on which types of information.

As this directory concentrates only on natural resources and ecological information the reader should not construe this relative strength in these areas as also depicting either the institution's strength in other areas or even its overall strength as an institution.



Directory of Institutions

Association for Belizean Archaeology
Belize Agri-Business Company
Belize Archives Department
Belize Audubon Society
Belize Center for Environmental Studies
Belize Chamber of Commerce and
Industry
Belize College of Agriculture
Belize Enterprise for Sustained
Technology
Belize Fishermen Co-operative
Association
Belize Information Service
Belize Institute of Management
Belize Lumber Producers Association
Belize Rural Womens Association
Belize Sugar Industry
Belize Teacher's College
Belize Tourism Industry Association
Belize Tourist Board
Belize Water and Sewerage Authority
Belize Youth Conservation Corp
Belize Youth Development Centre
Belize Zoo and Tropical Education Center
CARE Belize
Central Statistical Office
Commission of European Communities
Coral Cay Conservation Ltd.
Council of Voluntary Social Services
Department of Agriculture
Department of Archaeology
Education Development Center/
Curriculum Development Unit
Fisheries Department
Gallon Jug Biological Survey Center
Geology and Petroleum Office
Ix Chel Tropical Research Foundation
Land Information Center
Medical Library
Medical Statistics Office
Ministry of Agriculture and Fisheries
Ministry of Economic Development
Ministry of Education
Ministry of Energy and Communications
Ministry of Foreign Affairs
Monkey Bay Wildlife Sanctuary
National Library Service
National Meteorological Service
Pallotti High School
Pesticide Control Board
PRIDE Belize
Programme for Belize
Public Health Bureau
Rural Water Supply and Sanitation
Program
Shipstern Nature Reserve
Siwa-ban Foundation
Society for the Promotion of Education
and Research
St. John's College
U.S. Agency for International
Development
University College of Belize
University of the West Indies Extension

Association for Belizean Archaeology

Costs: Free

Comments: Free access during regular working hours, but only through library attendant.

Bibliographic Collection

Comments: Maya archaeology, historical archaeology of Belize.

Information Management Capabilities

Uses: national development planning

Irregular publications:

ABA Newsletter

Belize Agri-Business Company

Acronym: BABCO

Director: Mr. Jose Novelo
Title: Managing Director

Address: P.O. Box 92
Orange Walk Town
Belize City
Belize

Phone: 3-22585 **Fax:** 3-22850 **Telex:**

Principal contact: **Title:**
Ada Vargas Executive Admin. Secretary

Other contacts: Enrique Carballo **Title:** Production Manager
Ana Mclaughlin Operations Analyst

Type of Inst.: NGO (national)
Comments: Private non-profit organization, limited by guarantee.

Mission: To conduct research and development work, develop technology in production, post harvest handling, processing and marketing of non-traditional crops for export and import substitution in Belize.

Activities: Production, packing, shipping and marketing of tropical fruits.
Research and development in the same.

Employees: Permanent: 8 Other type:

Funding: Private international agencies
Company or commercial entity

Types of Information Available

Scientific: biological **Socioeconomic:** **Legal:**
ecological
soil
hydrological

Comments: Information related to agriculture and business.

Coverage: other
Comments: International information on markets (specific).

Forms of holdings and size:

library
database
scientific collections

Comments: Information available in the library and in database (PARADOX).

Accessibility of Information

Users: public
qualified researchers
government offices

Methods: direct on-site consultation
request for information

Costs: Free
Charge

Comments: Most of information accessible by consultation. It may also be requested. A small fee is charged for administration.

Bibliographic Collection

Comments: Journals, newsletters, marketing news, and scientific papers.

Information Management Capabilities

Uses: land use analysis and land use decisions
resource management and resource management decisions
scientific or academic research

Comments: Information to decide on feasibility of producing, shipping and marketing a commodity. For research and development planning.

Analysis: other

Comments: Computer database on production and marketing.

Services: library/literature search
other

Comments: Technical assistance in production, post harvest handling and marketing. Literature on agri-business.

Projects:

1. Determining cost of production of several.
2. Non-traditional tropical fruits.
3. Adaptation studies.
4. Developing transportation matrix.

Regular publications:

Figures on cost of production.
Technical bulletins for a limited amount of crops.

Irregular publications:

Various studies on soybeans, onions, squash, papaya, cantaloupe and peppers.

Belize Archives Department

Director: Mr. Charles Gibson
Title: Chief Archivist

Address: 26/28 Unity Boulevard
Belmopan
Belize

Phone: 8-22247/22507 Fax: 8-23140 Telex:

Principal contact: Mr. Charles Gibson Title: Chief Archivist

Other contacts: Ms. Lidia Yacab Title: Typist
Ms. Anita Lisbey Clerk

Major Institution: Ministry of Education

Major contact: Dr. Santos Mahung, Permanent Secretary

Type of Inst.: Other
Comments: Government responsibilities.

Mission: Gathering, storing and preserving historic document or records of historical value to Belize.

Activities: The Belize Archives Department welcomes tours and, if notice is given, can mount small exhibitions on given topics. Regular exhibitions are held, which change every four months, on subjects such as "fires" and "hurricanes" which have devastated Belize.

Employees: Permanent: 8 Other type:

Funding: Government

Types of Information Available

Scientific:	biological soil geological hydrological geographic climatic	Socioeconomic:	land use health social cultural	Legal:	Environmental laws treaties
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Coverage: complete country
Comments: All information relates only to Belize; 1000 photographs and 151 books on Belize and the West Indies.

Forms of holdings and size:

library 3000
maps 112
aerial photos

Comments: The collection comes from government Ministries, local government authorities, the churches and other Belizean organizations and individuals. Some of the documents are over 200 years old.

Accessibility of Information

Users: public
qualified researchers
government offices

Methods: request for information

Costs: Free

Comments: The Archives are open to anyone. Information can also be requested by telephone or fax. No charge is payable, except small fees for photocopying information.

Map Collection

Map types: standard base
land use
demographic

Comments: Collection consists of government buildings and some historical sites and factories.

Bibliographic Collection

Comments: Newspapers, journals and annual reports: all up to date.

Belize Audubon Society

Director: Mrs. Therese Bowman Rath
Title: President/Board of Directors

Address: P.O. Box 1001
Belize City
Belize

Phone: 2-77369/78239 **Fax:** 2-78562 **Telex:**

Principal contact: Mrs. Virginia Vasquez **Title:** Executive Director

Other contacts: Osmany Salas **Title:** Protected Areas Manager
Mrs. Waight

Type of Inst.: NGO (national)
Comments: A registered limited liability company.

Mission: The promotion of sustainable use and preservation of natural resources in order to maintain a balance between people and the environment.

Activities: 1. Management and development of protected areas established under the National Parks System Act.
2. Environmental education.
3. Environmental monitoring and lobbying.

Employees: Permanent: 20 Other type: 39

Funds: Private international agencies
Membership
Private foundations

Types of Information Available

Scientific: biological **Socioeconomic:** land use **Legal:** environmental laws
botanical
ecological
geological
soil
zoological
hydrological
geographic

Coverage: Central American region
complete country

Comments: Some coverage of Central American region and coverage of Belize.

Regular publications:

- Quarterly newsletter
- Information brochures on protected areas, wildlife and coastal zone

Irregular publications:

- Snakes of Belize
- Guide to Belize and its wildlife
- Guide to trees of Guanacaste Park
- Checklist of birds of Belize

Belize Center for Environmental Studies

Director: Mrs. Lou Nicolait
Title: Managing Director

Address: PO Box 666
55 Eve Street
Belize City
Belize

Phone: 2-45545 **Fax:** 2-32347 **Telex:**
2-32348 2-31997

Principal contact: Frances Griffith **Title:** Administrator

Other contacts: Elicia Leslie **Title:** Director of Education and Information

Type of Inst.: NGO (national)
Comments: Non Governmental Organization environmental research center focusing on Belize's environmental resources, and social and cultural issues.

Mission: Serving the public in heightening awareness of the unique features of Belize's environment, facilitating dissemination of information, and identifying gaps where necessary concerning Belize's natural resources, ecology, development pressures, and sustainable development techniques and practices.

Activities:

1. Create and promote education and awareness on the importance of sustainable management of natural resources in Belize.
2. Conduct research on social and environmental issues and publish findings.
3. Provide technical assistance and training to government and non-governmental organizations.
4. Assess and monitor Belize's natural environment and economic growth identifying trends.
5. Evaluate policies relating to resource use and assist organizations responsible for policy formation and enforcement.
6. Establish forum to facilitate the dissemination of information, and encourage communication and cooperation between involved bodies.

Employees: Permanent: 3 Other type: 1

Funding: Private international agencies
Membership
Private foundations

Types of Information Available

<p>Scientific:</p> <ul style="list-style-type: none"> biological botanical ecological geological soil zoological hydrological geographic 	<p>Socioeconomic: land use social</p>	<p>Legal: environmental laws</p>
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Coverage: Central American region
complete country

Comments: Environmental profile of other Central American countries; health, women and development.

Forms and size of holdings and size:
library 2000
maps 200

Accessibility of Information

<p>Users:</p> <ul style="list-style-type: none"> public qualified researchers government offices 	<p>Methods:</p> <ul style="list-style-type: none"> direct on-site consultation request for information
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Costs: Free
Charge

Comments: Library is open to the public; open during regular working hours; photocopies of information can be obtained for a small fee.

Map Collection

Map types:

- standard base
- soil
- geological
- topographic
- forest types
- land use
- hydrological
- protected areas
- demographic

Comments: Other: demographic maps on maya civilization, air navigation, marine navigation charts.

Bibliographic Collection

Comments: Large bibliographic collection in process of being updated.

Information Management Capabilities

- Uses:** land use analysis and land use decisions
resource management and resource management decisions
national development planning
scientific or academic research
other
- Comments:** Provided for in-house research, consultancy work, government information, EIA's, etc.
- Analysis:** mapmaking (cartographic abilities)
electronic database
- Services:** environmental impact studies or assessments
library/literature search
laboratory analysis
training
- Comments:** Services provided on a paid/contractual basis, consultancy, etc.
Training - regular in-house training, staff training also provided through courses, workshops, etc.
- Projects:**
1. Management Plan (SDA) Monkey River
 2. Belize Mapping Project
 3. Rapid Environment Reconnaissance (RER) BEB/Hydro Electric Site
 4. Critical Habitat Survey
 5. Natural Resource Legislative and Policy Analysis
- Regular publications:**
Center Forum
- Irregular publications:**
Center Alert Bulletin

Belize Chamber of Commerce and Industry

Director: Mr. Hugh Fuller
Title: General Manager

Address: P.O. Box 291
Belize City
Belize

Phone: 2-73148/751 Fax: 2-74984 Telex:

Principal contact: Hugh Fuller Title: General Manager

Other contacts: Norris Hall Title: Manager Membership Support and Institutional Development

Type of Inst.: Other

Comments: Broad based private sector organization that strives continuously to represent, support and stimulate all of the private sector in Belize with the aim of increasing productivity and enhancing efficiency in all businesses.

Mission: To foster economic growth and social well-being of the nation by promoting and protecting commerce, all sections of industry, the professions and the trades. To enhance its ability to better serve its members.

Activities: 1. To be a voice for private sector enterprises.
2. To improve business climate.
3. To encourage/promote/enhance investment climate to local and foreign investors.
4. To bring about the acceleration of exports and encourage continued development of import substitution activities.

Employees: Permanent: 24 Other type: 1

Funding: Private international agencies
Membership

Types of Information Available

Scientific: Socioeconomic: other Legal:
Comments: Trade related information on imports and exports; investment information.

Coverage: complete country

Forms of holdings and size:
library 1500
database

Comments: Books and periodical form.

Accessibility of Information

Users: public
qualified researcher
government offices

Methods: direct on-site consultation
request for information

Costs: See comments.

Comments: Some services are free, some are charged a fee.

Information Management Capabilities

Uses: other

Comments: Provide trade information to businesses.

Analysis: electronic database

Regular publications:
Importers directory.
Exporters directory.
Promotional material.

Accessibility of Information

Users: public
qualified researchers
government offices

Methods: direct on-site consultation

Costs: Free
Charge

Comments: All photocopying is levied a small fee.

Map Collection

Map types: soil
geological
land use

Bibliographic Collection

Comments: Literature collection over 2,300 books on diverse subjects eg. statistics, Farm machinery, Crops, Livestock, Chemistry, Biology, Economics, 50 Journals all updated to 1992.

Information Management Capabilities

Uses: other

Comments: For training purposes.

Services: training

Comments: Training in general agriculture.

Belize Enterprise for Sustained Technology

Acronym: BEST

Director: Mrs. Bridget Garbutt Cullerton
Title: Managing Director

Address: P.O. Box 35
Belmopan
Belize

Phone: 8-23043/23150 **Fax:** 8-22563 **Telex:**

Other contacts: Anselmo Castenada **Title:** Co-ordinator/Natural Resources Management Program

Type of Inst.: NGO (national)
Comments: Private, non-profit making, Belizean ; funding from local and external sources.

Mission: To improve and sustain the economic, social, cultural well-being of the poor in Belize in congruence with the country's overall development strategy.

Activities: Training and technical assistance in the areas of:
Enterprise Development
Women in Development
Natural Resource Management

Employees: Permanent: 12 Other type:

Funding: Government
Private international agencies
Multilateral international agencies
Private foundations

Types of Information Available

Scientific: biological **Socioeconomic:** land use **Legal:** environmental laws
ecological demography
soil
climatic

Coverage: Central American region, some Belize country
Comments: Global

Forms of holdings and size:
library 400
maps

Comments: The small library will gradually be expanded.

Accessibility of Information

Users: public
qualified researchers
government offices
other

Methods: direct on-site consultation

Costs: Free

Map Collection

Map types: standard base
soil

Bibliographic Collection

Comments: Environmental and agricultural journals.

Information Management Capabilities

Uses: land use analysis and land use decisions
resource management and resource management decisions
national development planning

Services: training

Comments: Training in Enterprise Development, Women in Development, and Natural Resource Management.

Projects: Assistance and/or training for:
Hopkins Farmers Cooperative
Big Falls Farmers Cooperative
Programme For Belize
Southern Bee Keepers

Belize Fishermen Co-operative Association Ltd.

Acronym: BFCA

Director: Mr. Allan Bevens Green
Title: Chairman/BOD

Address: P.O. Box 751
49 North Front Street
Belize City
Belize

Phone: 2-45207 Fax: 2-30978 Telex:

Principal contact: Mr. Severo E. Pinto Title: Executive Secretary

Other contacts: Ms. S. Heredia Title: Clerk Typist

Type of Inst.: Other
Comments: Umbrella organization for fishermen co-operatives.

Mission: To work in the interest of the fishermen co-operatives and the fishing industry as a whole.

Activities: Proposing legislation. Negotiating with government. Lobbying with government officials in the interest of the industry. Obtaining marketing information for member co-operatives.

Employees: Permanent: 2 Other type:

Funding: Private international agencies
Membership

Types of Information Available

Scientific: Socioeconomic: other Legal:
Comments: Statistics on production and sale of marine products. Membership of co-operatives activities.

Coverage: complete country
Comments: Full coverage of cooperatives that are members of the association.

Forms of holdings and size:
other

Comments: Available in typed forms and on graphs.

Accessibility of Information

Users: public
qualified researchers
government offices

Methods: request for information

Costs: Free

Comments: Available at any time during normal working hours.

Map Collection

Map types: other

Comments: A few maps of Belizean waters within the reef.

Information Management Capabilities

Uses: other

Comments: Marketing purposes of member co-operatives.

Regular publications:
BFCA Quarterly Newsletters

Accessibility of Information

Users: public
qualified researchers
government offices

Methods: direct on-site consultation
request for information

Costs: Free

Information Management Capabilities

Uses: national development planning
scientific or academic research
other

Services: other

Comments: Information dissemination.

Projects: News items regularly published and broadcast by print and video units.

Regular publications:
Belize Today magazine (monthly)
Various government and sociological information releases.

Irregular publications:
Extensive: impossible to list.

Belize Institute of Management

Acronym: BIM

Director: Mr. Edward Hoy
Title: General Manager

Address: P.O. Box 115
7 Gabourel Lane
Belize City
Belize

Phone: 2-77117 Fax: 2-78944 Telex:

Principal contact: Edward Hoy Title: General Manager

Other contacts: Reynaldo Guerrero Title: Director
Seleny Matus Director, Finance & Administration
Business Development
Dr. Santos Mahung Chairman/BOD

Type of Inst: NGO (national)
Comments: Management and Business Development Institution

Mission: To maintain a leading role in the social and economic development of Belize and improve the quality of life of its people through increased efficiency and productivity. It will proactively meet changing needs in its training technical assistance and other activities to develop individuals and businesses to be competent and ethical leaders in business and management practices.

Activities: 1. Organizational development.
2. Project management.
3. Operational support.
4. Training services.
5. Technical inputs.

Employees: Permanent: 7 Other type:

Funding: Private international agencies
Membership

Types of Information

Scientific: Socioeconomic: demography Legal:
other
Comments: Business development data; training activities and calendars.
Coverage: complete country

Forms of holdings and size:

library
database
other

Comments: Training surveys and evaluation of seminars; business information subscriptions.

Accessibility of Information

Users: public
qualified researchers
government offices

Methods: direct on-site consultation
request for information

Costs: Free
Charge

Comments: Prefer personal visits or contacts, but correspondence is welcomed.

Information Management Capabilities

Uses: resource management and resource management decisions
national development planning

Services: training
other

Comments: Training in business and management development disciplines.
Evaluations and needs assessments for organisational development.
Business planning and research.

Belize Lumber Producers Association

Acronym: BLPA

Director: Mr. Joseph B. Loskot
Title: Chairman

Address: P.O. Box 97
Belize City
Belize

Phone: 2-44193 **Fax:** (502) 2-33552 **Telex:**

Principal contact: **Title:**
Gilbert H. Canton, Ph.D. Managing Director

Other contacts: John C. Roberson **Title:** Chairman
David Lowe Treasurer

Type of Inst.: Other
Comments: Association representing the private sector in the timber industry.

Mission: Represent, protect and promote the timber industry in Belize.

Activities: Coordination with Government of Belize and sundry international agencies.

Funding: Membership
Company or commercial entity

Types of Information Available

Comments: Information on production capacities etc.

Coverage: complete country

Accessibility of Information

Comments: Accessible through contact with members.

Information Management Capabilities

Uses: other
Comments: Promotion of a sustainable timber industry in Belize.

Analysis: See comments.
Comments: Being developed presently.

Services: environmental impact studies or assessments
other

Comments: Lobbying

Projects: Forestry Committee for recommendations on this sector to Government of Belize.

Costs: Free
Comments: Information may be requested by letter, telephone or fax.

Map Collection

Map types: topographic

Information Management Capabilities

Uses: resource management and resource management decisions
national development planning
scientific or academic research

Comments: Copy of final report on oral history project sent to national archives and national arts council.

Analysis: other
Comments: manual

Services: training
Comments: Training in Health Business Management Leadership Craft development.

Projects: Oral history project - preservation of culture.

Regular publications:
Annual report

Irregular publications:
Report on Belize Oral History Pilot project.

Belize Sugar Industry

Acronym: BSI
Director: Mr. John McFarland
Title: Managing Director

Address: P.O. Box 29
Orange Walk Town
Belize

Phone: 03 22150 ext 19

Fax: 03 23247

Telex: 371 257 BSI BZ

Principal contact: Eduardo Zetina
Title: Senior Research Officer

Other contacts: Juan R. Rancharan
Luis Tzul
Title: Senior Technical Officer
Research Officer

Major contact: John Macfarlane (General Manager)

Type of Inst.: Other

Comments: Private Company Research Unit Institution devoted to sugar cane research in the fields of variety selection (adaptability to environment) and input management. It also provides technology transfer to cane growers and foundation cane seed.

Mission: To aid in the development of a sound and efficient industry by providing to the industry, and particularly cane growers, cane varieties, and necessary technique to maximize productivity.

Activities:

1. Variety selection program (Stages 1-6).
2. Studies on input (fertilizers, herbicides) maximization to increase productivity.
3. Production of foundation cane seed.
4. Disease testing.
5. Extension education, video and image processing.
6. Soil adaptability studies.
7. Coordination and execution of land preparation scheme for farmers including credit logistics.

Employees: Permanent: 8

Funding: Company or commercial entity

Types of Information Available

Information Management Capabilities

- Uses:** land use analysis and land use decisions
resource management and resource management decisions
scientific or academic research
- Analysis:** satellite or remote sensing image processing
GIS (Geographical Information System) (indicate format or program below)
electronic database
- Comments:** Map and image processing system (MIPS) is the program used for image processing and to develop the areas Geographic Information System.
- Services:** training
- Comments:** Training - pesticide application and handling general cane growing technology.
- Projects:**
1. Drainage on sandy soils.
 2. Soil improvement studies using Filter Press Mud and Crop Rotation.
 3. No-till cane planting on sandy soils.
- Regular publications:**
Articles of general information concerning the sugar cane industry are published regularly in the company bulletin "Belize Sugar".
- Irregular publications:**
The Role of Small Farmers in Sugar Cane Production
Yield Variations in the Sugar Industry- Canes and Effects
The Sugar Cane Extension and Technical Support Unit and Programmes
The use of Remote Sensing in estimate cane production
Others: pamphlets for cane farmers

Belize Teacher's College

Acronym: BTC

Director: Ms. Cynthia T. Thompson
Title: Principal

Address: P.O. Box 579
Belize City
Belize

Phone: 2-44372/44413 Fax: 2-30255(UCB) Telex:

Principal contact: Cynthia Thompson Title: Principal

Other contacts: Ellajeon Gillett Title: Vice-Principal

Major Institution: Ministry of Education

Major contact: Mr. Ernest Raymond, Chief Education Officer

Type of Inst.: Other

Comments: Government institution for teacher training; mainly for Primary teachers.

Mission: Belize Teacher's College is committed to the education of the nation's youth through a system of basic training for reserve teachers and teachers in service.

Activities: Teacher training for Primary teachers.

Employees: Permanent: 24 Other type: 8

Funding: Government

Types of Information Available

Scientific: biological Socio-economic: health Legal:
 botanical
 ecological
 soil
 zoological
 geographic
 climatic

Comments: These volumes are primarily geared for teacher training.

Coverage: See comments.

Comments: Volumes give general coverage of aforementioned topics.

Forms of holdings and size:

library
Comments: Library used by teachers for research.

Accessibility of Information

Users: public Methods: direct on-site consultation

Costs: Free

Bibliographic Collection

Comments: National Geographic - up to date

Information Management Capabilities

Uses: other

Comments: Mainly to provide content and methodology for teaching.

Services: library/literature search

Belize Tourism Industry Association

Acronym: BTIA

Director: Ms. Maria Vega
Title: President (BOD)

Address: P.O. Box 62
99 Albert Street
Belize City
Belize

Phone: 2-78709/75917 Fax: 2-78710 Telex:

Principal contact: Mr. Sylvano Guerrero Title: Executive Director

Other contacts: Suzette Miller Title: Assistant Executive Director

Type of Inst.: NGO (national)
Comments: Tourism Association

Mission: To promote through sound, ethical and professional means the development and the improvement of the tourism industry in Belize in a way that will benefit members of the association and Belizeans in general while conserving the human, cultural and environmental assets of Belize.

Activities: 1. Membership Services: hospitality training, lobbying, co-op advertising, public awareness education.
2. Tourism development.

Employees: Permanent: 6 Other type:

Funding: Government
Membership

Types of Information Available

Scientific: other Socioeconomic: Legal:
Comments: Training. Large library for hospitality industry.

Forms of holdings and size:
library 200

Accessibility of Information

Users: public Methods: request for information
other
Costs: Free

Information Management Capabilities

Regular publications:

Quarterly Tourism Link

Monthly - BTIA News

Belize Tourist Board

Acronym: BTB

Director: Miss Joy Vernon
Title: Director of Tourism/Chief Executive Officer

Address: P.O. Box 325
83 North Front Street
Belize City
Belize

Phone: 02 77213 Fax: 02 77490 Telex:

Major Institution:
Ministry of Tourism and the Environment

Major contact:
Dr. Victor Gonzalez, Permanent Secretary

Type of Inst.: Other
Comments: BTB is a statutory body in charge of Tourism Marketing for the country of Belize.

Mission: Overall promotion of Belize as a tourist destination to assist in the economic growth of Belize.

Activities: 1. Marketing Belize internationally.
2. Public awareness with regard to tourism.

Employees: Permanent: 16 Other type:

Funding: Government

Types of Information Available

Scientific: Socioeconomic: demography
cultural
other
Legal:

Coverage: complete country

Forms of holdings and size:
library
maps
database
aerial photos
other

Accessibility of Information

Users: public
government offices
other

Methods: request for information

Costs: Free

Map Collection

Map types: standard base

Information Management Capabilities

Uses: national development planning

Belize Water and Sewerage Authority

Acronym: WASA

Director: Mr. Luke Espat
Title: Chairman of the Board

Address: P.O. Box 150
44 Regent street
Belize City
Belize

Phone: 02 77079
02 77084
02 77463

Fax: 02 77090

Telex: 117 BZ

Principal contact: Winston Michael
Title: Chief Executive Officer

Other contacts: Mr. Denroy Mccord
Mr. Frederick Sandiford
Mr. George Wong
Ms. Geraldine Morris

Title: Chief Engineer
Project Engineer
Operations Engineer
Finance Officer

Major Institution: Ministry of Natural Resources

Major contact: Permanent Secretary

Type of Inst.: Other

Comments: Statutory, utility - in charge of all urban areas WASA facility.

Mission: Provision of adequate, safe and acceptable supply of potable water and environmentally safe disposal of sewerage.

Activities:

1. Identify and document water sources countrywide.
2. Treat and supply potable water countrywide.
3. Monitor water quality.
4. Waste water management including monitoring of final disposal.
5. Design and construct water and sewerage systems.
6. Provide technical support and advice to government of Belize.

Employees: Permanent: 200 Other type: 50

Funding: Government
Private international agencies
Multilateral international agencies
Company or commercial entity

Types of Information Available

Scientific: other Socioeconomic: health Legal:
Comments: Technical publication on WASA.

Coverage: sub-national region
Comments: Ladyville, Hattville, Boom/Belize City (main coverage). Water quality monitoring (urban areas).

Forms of holdings and size:

Comments: Holdings and size not stored in one area/approximate holdings and size amounts not available/new WASA building will have a library.

Accessibility of Information

Users: Methods: request for information
Comments: Information is available but must be requested.

Information Management Capabilities

Uses: resource management and resource management decisions
national development planning

Comments: Design / Construction / Environmental purposes

Services: laboratory analysis
other

Comments: Act as a resource body for government water system design.

Projects: Feasibility study - San Pedro Ambergris Caye for the development of water and sewerage facilities (August 1991).

Belize Youth Conservation Corp

Acronym: BYCC

Director: Mr. Bernard Panton
Title: Chairperson

Address: P.O. Box 666
55 Eve Street
Belize City
Belize

Phone: 2-32321/32348 Fax: 2-31997/318 Telex:

Other contacts: Ray Usher Title: Asst. Regis. General
F. Griffith Member/BOD

Type of Inst.: NGO (national)

Comments: Youth development; Grass Roots Environmental Awareness program.

Mission: The development of work ethic, leadership and life skills among youth of both sexes, ages 16 - 20, through their learning and practice of sustainable utilization of the natural resources in all areas of Belize's national development.

Activities: BYCC Summer Pilot Program

Employees: Permanent: Other type: 1

Funding: Private international agencies
Membership
Private foundations

Information Management Capabilities

Uses: other

Comments: Development of conservation work projects.

Services: training

Comments: Training/education in life skills, work ethic, job skills, education, environment.

Projects: 1. Conservation work projects in conjunction with Summer Pilot Program in Cockscomb.
2. Basin Wildlife Sanctuary, July/August 1991.
3. October 92 week program at Programme for Belize.

Irregular publications:

1991 BYCC Summer Pilot Program Report
Proposal for BYCC Year Round Program

Belize Youth Development Centre

Acronym: BYDC

Director: Mr. Anthony Castillo
Title: Supervisor

Address: 27 1/2 mile Western Highway
Cayo District
Belize

Phone: 2-44835 **Fax:** **Telex:**

Principal contact: **Title:**
Mr. Evans Dakers Deputy Director

Other contacts: Mr. Darios Martinez **Title:** Senior Social Development Officer
John Nenh Director

Major Institution:
Ministry of Social Development

Major contact:
Permanent Secretary

Type of Inst.: Other
Comments: Residential Vocational Training Centre for boys between the ages of 16 and 21.

Mission: To give those youth "males", who have not been able to cope with the formal educational system, opportunities to learn a "marketable skill".

Activities: 1. Vocational/technical - agricultural, plumbing, woodwork, auto mechanic, basic electricity.
2. Remedial instructions - basic literacy skills, reading and writing, interpersonal skills.
3. Supervision, occupational programs.

Employees: Permanent: 6 Other type: 5
Funding: Government

Types of Information Available

Comments: Subject area : English and Math (remedial), electricity, automatic, woodwork.

Forms of holdings and size:
library
maps
database
aerial photos
satellite or remote sensing images
Comments: Small collection of above.

Forms of holding and size:

library
maps
other

Accessibility of Information

Users: public
government offices
other

Methods: direct on-site consultation

Costs: Free
Charge

Comments: Accessible to other institutions in the country. Free to teachers and students.

Map Collection

Map types: standard base

Bibliographic Collection

Comments: Limited books, periodicals, reprints on a diversity of subjects.

Information Management Capabilities

Uses: resource management and resource management decisions

Comments: Biological/conservation information on wildlife.

Services: training

Comments: Training in breeding programs, (captive breeding, environmental reduction).

Projects: Outreach education - all primary schools country-wide

Irregular publications:

Hoodwink the Owl (children's book)

Wildlife of Belize



CARE Belize

Acronym: CARE
Director: Mr. Larry Holzman
Title: Director

Address: P.O.Box 612
Belize City
Belize

Phone: 2-31048 Fax: 2-31474 Telex:

Principal contact: Larry Holzman Title: Director

Major Institution:
CARE, International

Major contact:
Curt Schaeffer, Regional Manager for Latin America, New York

Type of Inst.: NGO (international)
Comments: International Relief and Development Organization.

Mission: To provide assistance to the world's poor through development projects and during times of disaster.

Activities: 1. Health
2. Agriculture
3. Natural resources
4. Small enterprise development
5. Disaster assistance

Employees: Permanent: 20 Other type: 2

Funding: Government
Private international agencies

Types of Information Available

Scientific: other Socioeconomic: Legal:
Comments: Reports on projects done in Belize.

Coverage: other
Comments: Different areas of Belize where projects are carried out.

Forms of holdings and size:
other
Comments: Very small library.

Accessibility of Information

Users: qualified researchers **Methods:** direct on-site consultation
request for information

Costs: Free

Comments: As regards to needs/project cases.

Information Management Capabilities

Uses: resource management and resource management decisions
national development planning

Comments: With regards to the latter: water and sanitation projects.

Projects:

1. Water and sanitation project (rural).
2. Maternal child health project
3. Business/agricultural (youth)
4. Small farmers vegetable/production project
5. Institutional plan gathering
6. PACA project

Note: in July, 1993 the CARE Mission in Belize was closed and administrative responsibilities were shifted to the CARE Regional Office in San José, Costa Rica. In-country activities continue to be carried out by the Belize Zoo and Tropical Education Center and by the Belize Center for Environmental Studies.

Central Statistical Office

Acronym: CSO

Director: Mr. Sylvan Roberts
Title: Chief Statistician

Address: Ministry of Finance
Belmopan
Belize

Phone: 8-22207/22352 Fax: 8-23206 Telex:

Other contacts: Martin Aldana Title: Statistician

Major Institution:
Ministry of Finance

Major contact:
Mr. David Gibson, Financial Secretary

Type of Inst.: Public Agency/Ministry
Comments: Government Department

Mission: Department's mandate is to collect, compile, analyze and disseminate information on the people and economy of Belize.

Activities: Collect and compile administrative data to plan and conduct censuses and surveys.

Employees: Permanent: 24 Other type:

Funding: Government
Private international agencies
Multilateral international agencies

Types of Information Available

Scientific: climatic Socioeconomic: demography health social other Legal:

Comments: Economic indicators - GDP, GNP, consumer price index, trade.

Coverage: complete country
Comments: Country and district levels.

Bibliographic Collection

Comments: Range of resources available through the head of cartels in Europe (selective material available in the delegation/Belize office).

Information Management Capabilities

Projects:

1. Technical assistance to the tourism sector to recommend policies, reform, institutional strengthening, and investment programs.
2. Construction of a new tertiary/referral in Belize city including human resource development in the health sector.
3. Human resource development management of the public sector under consideration.

Regular publications:
Not specifically for Belize but the European Economic Community does publications.

Coral Cay Conservation Ltd.

Director: Peter Raines/Jonathon Ridley
Title: Directors

Address: 5 Adams Lane
Belize City
Belize

Phone: 02-71052 **Fax:** **Telex:**

Principal contact: **Title:**
Mr. Peter Raines Director

Other contacts: Denise McCorry **Title:** Science Coordinator

Type of Inst.: NGO

Mission: To provide resources to assist the Coastal Zone Management Unit (Belize) with surveys of the coastal marine resources of Belize.

Activities: 1. Marine Surveys.
2. Provision of training for Belizeans in Survey of Coastal Marine Resources.

Employees: Permanent: 6 Other type: 1

Funding: membership
private foundations
company or commercial entity

Types of Information Available

Scientific: biological **Socioeconomic:** land use **Legal:**
botanical
ecological
geological
zoological
hydrological
climatic

Coverage: sub-national region

Comments: Comprehensive database held for the following area: 1. 180 km sq area surrounding South Water Caye. 2. Sapodilla Cayes. 3. Laughing Bird Farrow.

Forms of holdings and size:

maps
database 4000
aerial photos
satellite or remote sensing images

Council of Voluntary Social Services

Director: Mrs. Velda Aguet
Title: Executive Director

Address: P.O. Box 435
14 Cemetery Rd
Belize City
Belize

Phone: 2-73712/74312 **Fax:** (510) 2-74803 **Telex:**

Principal contact: Mr. Harry Pilgrim **Title:** President

Other contacts: Mrs. Linda Moguel **Title:** Chairperson

Type of Inst.: NGO (national)
Comments: National Umbrella type with a co-ordinating function.

Mission: Brings together, on a permanent basis, voluntary social service organizations of Belize in order to secure a comprehensive view to relevant problems and needs, and to mobilize resources for action.

Activities: 1. Institutional development.
2. Program development.

Employees: Permanent: 4 Other type: 34

Funding: Government
Private international agencies
Company or commercial entity

Types of Information Available

Scientific: Socioeconomic: cultural
social **Legal:**

Comments: Reports, journals and publications available.

Coverage: other
Comments: Local, national, regional and international.

Forms of holdings and size: library
Comments: Government information service; international organizations.

Accessibility of Information

Accessibility of Information

Users: public **Methods:** direct on-site consultation
request for information

Costs: Free

Comments: On request.

Information Management Capabilities

Uses: national development planning

Projects: 1. Set up task force on social ecology and development.
2. Symposium on social biology and development.

Irregular publications:
Newsletters/reports from seminars or consensus

Department of Agriculture

Acronym: DOA

Director: Mr. Rodney Neal
Title: Permanent Secretary

Address: West Block, 2nd Floor
Belmopan
Belize

Phone: 2-22332 Fax: 8-22409 Telex:

Principal contact: Eulalio Garcia Title: Chief Agricultural Officer

Other contacts: Mr. Windel Paraham Title: Policy Analyst

Major Institution: Ministry of Agriculture and Fisheries

Major contact: Hon. Michael Espat

Type of Inst.: Public Agency/Ministry
Comments: Government Ministry

Mission: Regulatory body - Research and development, Agriculture, Education and Extension.
Activities: 1. Quarantine.
2. Research and development.
3. Agricultural training - Farmer, (BCA).

Funding: Government

Types of Information Available

Scientific: soil Socioeconomic: land use Legal:

Coverage: complete country

Forms of holdings and size:
library
aerial photos
scientific collections

Accessibility of Information

Users: public Methods: request for information
qualified researchers
government offices

Costs: Free

Map Collection

Map types: soil
topographic
land use

Information Management Capabilities

Uses: land use analysis and land use decisions
national development planning
scientific or academic research

Analysis: electronic database

Services: laboratory analysis
training

Comments: Training in agricultural production credit and marketing

Regular publications:

Agricultural annual reports
Extension Newsletters
Research Proceedings

Irregular publications:

Special project reports
Feeds/pasture - livestock

Department of Archaeology

Acronym: DOA

Director: Mr. Allen Moore
Title: Acting Archaeological Commissioner

Address: Department of Archaeology
Belmopan Cayo District
Belize

Phone: 8-22106 **Fax:** 8-23345 **Telex:**

Principal contact: Allen Moore **Title:** Acting Archaeological Commissioner

Other contacts: John Morris **Title:** Archaeologist
Therese Batty Librarian

Major Institution: Ministry of Tourism & Environment

Major contact: Permanent Secretary

Type of Inst.: Public Agency/Ministry

Comments: Government Agency with mandate to Belize's Cultural Heritage through the Ancient Monuments and the Antiquities Ordinance.

Mission: Preservation, protection, and dissemination of cultural heritage.

Activities:

1. Archaeological excavation of Ancient Monuments.
2. Protection of Ancient Monuments.
3. Exhibition of Ancient Antiquities.
4. Education of Belizeans on cultural heritage.

Employees: Permanent: 7 Other type:

Funding: Government

Types of Information Available

- | | | | | | |
|------------------------------------|--|-----------------------|--|---------------|--------------------|
| Scientific: | biological
botanical
ecological
geological
soil
zoological
hydrological
geographic
climatic | Socioeconomic: | land use
demography
cultural
social | Legal: | environmental laws |
| Comments: | Library contains a complete set of published information on archaeology and anthropology in Belize as well as other pertinent fields. | | | | |
| Coverage: | Central American region
complete country
other | | | | |
| Comments: | Complete set of archaeological information in Belize Selection of books focusing on Central America. Smaller set on world archaeology. | | | | |
| Forms of holdings and size: | library
maps
aerial photos
scientific collections
other | | | | |
| Comments: | Houses the national collection of antiquities. | | | | |

Accessibility of Information

- | | | | |
|---------------|---|-----------------|-----------------------------|
| Users: | public
qualified researchers
government offices | Methods: | direct on-site consultation |
| Costs: | Free | | |

Map Collection

- Map types:** standard base
geological
topographic
land use
protected areas

Bibliographic Collection

- Comments:** Literature subjects: Archaeology Anthropology Related Fields, National Geographic -up to date, Other archaeological and environmental journals are available.

Information Management Capabilities

Uses: land use analysis and land use decisions
resource management and resource management decisions
national development planning
scientific or academic research

Analysis: other

Comments: Computer with lotus, database and wordperfect.

Services: library/literature search

other

Comments: Analysis of artifacts. Cultural resource assessments.

Projects:

1. Caracol Consolidation Project
2. Cahal Pech Consolidation Project
3. Xunantunich Archaeological Project
4. Lamanai Consolidation Project

Irregular publications:

Belizean Bullet

Travelling Exhibition Catalogue

Education Development Center/Curriculum Development Unit

Director: Mr. Joseph Alexander Bennett
Title: Director

Address: P.O. Box 369
Belize City
Belize

Phone: 2-44772 Fax: Telex:

Principal contact: Mrs. Linda Moguel Title: Officer, Curriculum Development Unit

Major Institution: Ministry of Education

Major contact: Permanent Secretary

Type of Inst.: Public Agency/Other
Comments: Government Department

Mission: To develop curriculum to be used in primary and secondary schools. To improve quality of materials for schools.

Activities: Curriculum design
Materials design and products
In-service library
Supervision

Employees: Permanent: 13 Other type: 8

Funding: Government
Private international agencies

Types of Information Available

Scientific: ecological Socioeconomic: land use Legal: environmental laws
soil health
zoological social

Comments: Information on materials accumulated through resources. Materials designed for use in schools.

Forms of holdings and size:
library
other

Comments: Magazines, pamphlets, leaflets, textbooks, compiled sheets.

Accessibility of Information

Users: public
other

Methods: direct on-site consultation
request for information

Costs: Free

Comments: Call the office for proper procedures.

Information Management Capabilities

Uses: other

Comments: Use by teachers in classroom (on occasion researchers).

Analysis: other

Comments: Contacts with schools.

Services: library/literature search
training

Comments: Training in the use of materials in the classroom.

Projects:

1. Development of Environmental Education (E.E.) Programme.
2. Development of E.E. materials, i.e., manuals and lesson plan booklets.
3. Integration of E.E. materials within primary curriculum.
4. Training of E.E. materials via countrywide E.E. teacher workshops.

Irregular publications:

Pollution Manual
Pollution Manual Lesson Plan Booklet
Land use Manual
Land Use Manual Lesson Plan Booklet
Wildlife Habitat (current)
Marine Ecology (current)

Fisheries Department

Acronym: FD

Director: Mr. Vincent Gillett
Title: Fisheries Administrator

Address: P.O. Box 148
Belize City
Belize

Phone: 2-44552/32623 **Fax:** 2-32983 **Telex:**

Principal contact: Vincent Gillett **Title:** Fisheries Administrator

Other contacts: George Myvette **Title:** Senior Fisheries Officer
Earl Young **Title:** Research Assistant
Jaime Villanueva **Title:** UNEP, INFOTERA Co-ordinator

Major Institution: Ministry of Agriculture and Fisheries

Major contact: UN/FAO/WECAF/INFOTERA

Type of Inst.: Public Agency/Ministry

Comments: Fisheries Unit established on January 1st, 1965, falls under the portfolio of the ministry of Agriculture and Fisheries. The Fisheries Unit is directed by a Fisheries Administrator.

Mission: The department is the leading agency in devising and implementing strategies to ensure development of industry. To advise government on any matters pertinent to the fishing industry which may arise from time to time.

Activities:

1. Administration and management of the fisheries resources with liaison between the fishing community and the Ministry.
2. Conducting research on commercial aspect.
3. Extension work (new technique and trends).
4. Quality control.
5. Law enforcement (fisheries law and regulations).
6. Advise Ministry generally on all matters affecting the industry.

Employee:: Permanent: 51 Other type:

Funding: Government
Private international agencies

Types of Information Available

Scientific:	biological ecological zoological climatic	Socioeconomic:	Legal: treaties municipal or states codes
Comments:	Laws concerning fisheries resources.		
Coverage:	complete country		
Comments:	The department is responsible in providing technical assistance, enforce fisheries regulation and other principal activities through the entire country by land and sea.		

Forms of holdings and size:

library 1000
maps 20
database

Comments: Maps, coastal zone unit & boat section has maps for navigation purposes/1:100,000; and map overlays for Belize's resources and uses & impacts.

Accessibility of Information

Users:	public qualified researchers government offices	Methods:	direct on-site consultation request for information
Costs:	Free		
Comments:	Persons interested in obtaining information can visit the department during normal working hours to do research in the library, or through an appointment, or in-house consultation.		

Map Collection

Map types:	standard base topographic forest types land use hydrological protected areas
Comments:	Maps are provided to this department by other governmental offices (eg. land and survey). The information is in the scale of 1:250,000. Used as map overlays.

Bibliographic Collection

Comments: Books available in the library are obtained through donations from different organizations eg. UN/FAO, locally from the Ministry or from researchers in the country, and data collected by staff members.

Information Management Capabilities

- Uses:** scientific or academic research
- Comments:** Information is provided to individuals involved in any research program, school students and tutors and to people involved in the fishing industry.
- Analysis:** See comments.
- Comments:** Presently setting up GIS/ARCINFO.
- Services:** environmental impact studies or assessments
library/literature search
biological inventories
laboratory analysis
- Comments:** These types of services are granted with the aim to help people in field work; mainly with up to date data and with equipment when necessary. Also through laboratory research by the quality control officer.
- Projects:**
1. Conch hatchery in San Pedro Ambergris Caye.
 2. Compliance Conservation Unit.
 3. Coastal Zone Management.

Gallon Jug Biological Survey Center

Acronym: GJBSC

Director: Mr. Bruce W. Miller

Address: P.O. Box 37
Belize City
Belize

Phone: 02-77031

Fax: 02-77062

Telex:

Principal contact:

Bruce W. Miller

Title:

Major Institution:

Paseo Pantera, New York Zoological Society (NYZS), The Wildlife Conservation Society (WCS).

Type of Inst.: NGO

Comments: The GJBSC is involved in conservation research, field science and consultancy.

Mission: Its mission is conservation.

Activities: These include scientific research, biodiversity inventory work, reserve and park planning.

Employees: Permanent: 2 Other type:

Funding: government
private international agencies
private foundations
company or commercial entity

Types of Information Available

Scientific: biological Socioeconomic: cultural Legal:
botanical
ecological
zoological
geographic
climatic

Comments: The information includes archaeological use of forest, Geographic Information System (GIS) overlays, and specific areas.

Coverage: Central American region
complete country
sub-national region

Comments: Within the Central American Region only areas that are part of the Paseo Pantera Project area are covered. The sub-national region is particularly detailed for the Maya Mountains, the Chiquibul area, and the Greater Rio Bravo area.

Forms of holdings and size:

library 2900

maps

database 5

satellite or remote sensing images

Comments: The in-house library houses about 2500 reprints and about 360 books. The GJBSC is a node in the national Conservation and Environmental Data System (CEDS), and includes the databases: NoteBook, Wildlife Worldwide CD-ROM database, Biosis Dialogue and Knowledge Index, and links with BIODOC based in Costa Rica. The satellite images are Jet Propulsion Lab - NASA- supplied.

Map Collection

Map types: land use
protected areas
other

Comments: Hard copy plus GIS files, other species, Atlas projects, and GIS species overlays.

Bibliographic Collection

Comments: GJBSC's natural sound library is composed of both field recordings made in Belize and an extensive selection of published cassettes relevant to the region. Holdings currently include birds, bats, frogs and toads.

Information Management Capabilities

Uses: land use analysis and land use decisions
resource management and resource management decisions
national development planning
scientific or academic research

Analysis: satellite or remote sensing image processing
GIS
mapmaking (cartographic abilities)
electronic database

Comments: GIS -CAMRIS, with ARC-Info utilities. Database: AREV, CEDS.

Services: environmental impact studies or assessments
library/literature search
biological inventories
training

Comments: Training provided in basic field techniques.

- Projects:**
- 1991-1993
1. Assisting the Belize UNESCO committee with Maya Mountain Biosphere Reserve nomination.
 2. Assisting Government of Belize with on-going management plans for the greater Chiquibul area.
 3. Assisting Land Information Center with the development of the Conservation and Environmental Data system.
 4. Bat inventory and diversity work for Belize.
 5. Directing Gallon Jug Biological Survey.
 6. Directing the Chiquibul National Park Biological Survey.
 7. Life history/ecology study of the endangered Keel-billed Motmot, *Electron carinatum*, throughout known range in Central America.
- 1991
1. Establishment of Chiquibul National Park.

Irregular publications:

- 1990
- Special report: The Chiquibul Forest Reserve and Considerations on the Establishment of a Biosphere Reserve for Belize. Unpublished report for Minister Daniel Silva.
- 1991
- Exploring the Rainforest at Chan Chich Lodge, Belize.
Special Report to the Belize Audubon Society regarding the Maya Mountain Biosphere Reserve.
Izote: A report prepared for Mr. Earl Green, Department of Conservation.
A report on the Belize Electricity Board's Hydroelectric Project: An evaluation of Environmental Impact.
The status of the Black Catbird, *Melanoptila glabrirostris* on Caye Caulker, Belize
Bird Conservation International.
- 1992
- Distributional notes and new species records for Belize. Occasional Papers, Belize Natural History Society.
Preliminary Avian Survey of the Upper Macal River: Rubber Camp and Francelia Camp with C.M. Miller. In Preliminary Report for B.E.B. Hydroelectric Project, Environmental Impact Assessment. Section 1 MACAL RIVER hydroelectric development, environmental impact assessment: Rubber Camp and Chalilo schemes. Pre-feasibility study-draft; Environmental appendix Vol. 2, July.
Closing comments, citation as above.
Edited and compiled team report, citation as above.
- Dawkins, H.C. (1959). The volume increment of natural tropical high-forest and limitations on its improvements. *Empire Forestry Review*. 38, 175-180.
- Forestry Department. (1978). An inventory of the Columbia River and Maya Mountains Forest Reserves. Management Division report. 55pp. Unpublished.
- Land Information Center. (1992). Area estimates for forest reserves in Belize. Ministry of Natural Resources.
- Matola, S. (1990). The Columbia River Forest Reserve Expedition. 9-16 December 1990. 39pp. Unpublished.
- Parker, T.A. [editor]. (1992). A biological assessment of the Columbia River Forest Reserve. 3-14 April 1992. 23pp. Belize Center for Environmental Studies. Unpublished.
- Wright, A.C.S.; Romney, D.H.; Arbuckle, R.H.; Vial, V.E. (1959). *Land in British Honduras*. HMSO, London. 327pp.

Geology and Petroleum Office

Acronym: GPO

Director: Mrs. Evadney Garcia
Title: Director/Inspector of Mines

Address: 34/36 Unity Boulevard
Belmopan
Belize

Phone: 8-22178/22651 Fax: 8-23538 Telex:

Principal contact: Evadney Garcia Title: Director/Inspector of Mines

Major Institution: Ministry of Natural Resources

Major contact: Permanent Secretary

Type of Inst.: Public Agency/Ministry
Comments: Government Unit working in conjunction with the UNDP since 1983.

Mission: Responsible to identify, assess and develop the mineral potential of Belize in an environmentally sound manner for the future and growth of Belize.

Activities: 1. Information gathering of a geological nature.
2. Train and upgrade from unit to department.
3. Carry out the works necessary to achieve mission of unit by creating a suitable climate.

Employees: Permanent: 10 Other type:

Funding: Government

Types of Information Available

Scientific: geological Socioeconomic: Legal:

Coverage: complete country
Comments: Uses information for in country U.S.

Forms of holdings and size:
library
maps
database
aerial photos (through Lands Department)
scientific collections

Comments: A small collection of minerals of Belize exist in the office/holdings and size currently being indexed.

Accessibility of Information

Users: public
government offices

Methods: direct on-site consultation
request for information

Costs: Free
Charge

Comments: Except for confidential information, all other information is available to the public. Some (eg. dockets, reports, maps) are sold, while pamphlets etc. are given away.

Map Collection

Map types: geological
other

Bibliographic Collection

Comments: Dockets describing Petroleum potential of Belize; a package of three covering the north and south basins- up to date.

Information Management Capabilities

Uses: resource management and resource management decisions
scientific or academic research

Analysis: electronic database

Services: library/literature search

Projects:

1. Assessment of industrial minerals of Belize
2. Implementation of Coastal Zone Management Project.
3. Assessment of Precious Minerals of one alluvial form.

Irregular publications:

Mineral Resources of Belize

Papers on: Foraminiferal Biostratigraphy of Belize in the Ceraceous Lime Industry.

Forms of holdings and size:

database
scientific collections 2300
Comments: Herbaria specimens of useful plants and data.

Accessibility of Information

Users: public
qualified researchers
government offices
Comments: Other user access: traditional healers/medical personnel.
Costs: Free
Methods: direct on-site consultation
request for information

Bibliographic Collection

Comments: Various and sundry.

Information Management Capabilities

Uses: scientific or academic research
Comments: To further and nourish traditional healing, encourage apprentices and train health workers in Belize.

Analysis: See comments.
Comments: Only available at New York Botanical database.

Services: training
other
Comments: Safe suitable use of medicinal plants. Healers conferences. School field trips. Ecological tourism (medicine trail).

Projects:
1. 2,300 useful plants collected, recorded and sent in for cancer/AIDS research.
2. Determine economic value of 1 acre of rainforest in medicinal plants.
3. Start 2 nurseries for endangered medicinal plants/trees.
4. Teach a course at Belize College of Agriculture.
5. Sponsorship of educational field trips.
6. Producing a book of 100 medicinal plants of Belize.

Regular publications:

The Plant Press - newsletter of traditional healing in Belize.
Field Guide with illustrations of Panti Mayan Medicine Trail.

Land Information Center

Director: Mr. Lindsay Belisle
Title: Permanent Secretary

Address: Ministry of Natural Resources
Belmopan
Cayo District
Belize

Phone: 8-22226/22630 **Fax:** 8-22333 **Telex:**

Principle contact: Lindsay Belisle **Title:** Permanent Secretary

Major Institution: Ministry of Natural Resources

Major contact: Lindsay Belisle, Permanent Secretary

Type of Inst.: Public Agency/Ministry
Comments: technically oriented

Mission: Administration of natural lands. Assessment and collection of land tax. Processing applications for land. Acquisition of land. Development of land policy. Cadastral, topographical surveys. Horizontal and vertical control surveys. Preparation of maps. Sale of maps.

Activities: 1. Cadastral and central surveys.
2. Management of national lands.
3. Land registration activities.
4. Physical planning activities.

Employees: Permanent: 4 Other type:

Funding: Government
Private international agencies
Multilateral international agencies

Types of Information Available

Scientific: geological **Socioeconomic:** land use **Legal:** land law
geographic cadastral
other

Coverage: complete country

Forms of holdings and size:
maps
aerial photos
satellite or remote sensing images

Accessibility of Information

<p>Users:</p> <p>public qualified researchers government offices</p> <p>Costs:</p> <p>Free Charge</p> <p>Comments:</p> <p>Depending on the type of information required, it may be free, sold, or purely for reference on site.</p>	<p>Methods:</p> <p>direct on-site consultation request for information</p>
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Map Collection

Map types:

- standard base
- soil
- geological
- topographic
- land use
- protected areas

Bibliographic Collection

Comments: Mainly technical journals which are work related. Most are up to date.

Information Management Capabilities

Uses:

- land use analysis and land use decisions
- resource management and resource management decisions
- national development planning

Analysis: GIS (Geographical Information System)
electronic database

Comments: ARC/INFO System is presently being installed; Land Information System (LIC) will be installed directly; Conservation & Environmental Center/Data Capacity soon.

Medical Library

Acronym: ML

Director: Dr. Errol Vanzie
Title: Director of Health Services

Address: Belize City Hospital
Eve Street
Belize City
Belize

Phone: 2-33081 **Fax:** **Telex:**

Principal contact: Dr. Errol Vanzie **Title:** Director of Health Services

Other contacts: Mr. Wayne Usher **Title:** Hospital Administrator
Mrs. Elsie Mae Daily Head of Library

Major Institution: Ministry of Health

Major contact: Mr. Fred Smith, Permanent Secretary

Type of Inst.: Public Agency/Other
Comments: Medical library

Mission: Research, issue of medical text, funding dissemination of information, cataloguing and classification, bibliography.

Activities: Research

Employees: Permanent: Other type:

Funding: Government

Types of Information Available

Scientific: **Socioeconomic:** health **Legal:**

Coverage: Central American region
sub-national region

Comments: Jamaica (UWI), Trinidad

Forms of holdings and size:
library 4000

Comments: Monthly. At present, due to funding, the library is stagnant.

Accessibility of Information

<p>Users:</p> <p>public qualified researchers government offices</p> <p>Costs: Free</p> <p>Comments: Open to public and other individuals.</p>	<p>Methods:</p> <p>direct on-site consultation request for information</p>
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Bibliographic Collection

Comments: Clinical Advance literature information, but not up to date.

Information Management Capabilities

<p>Uses:</p> <p>scientific or academic research other</p> <p>Comments: Teaching, clinical meetings, and research information.</p> <p>Services:</p> <p>environmental impact studies or assessments library/literature search laboratory analysis</p> <p>Comments: Library literature search for the upkeep of health information.</p>
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Medical Statistics Office

Acronym: MSO

Director: Dr. Errol Vanzie
Title: Director of Health Service

Address: Belize City Hospital
Eve Street
Belize City
Belize

Phone: 2-30778/77251 Fax: Telex:

Other contacts: Dr. Jose Lopez Title: Epidemiologist
Mrs. Elaine Clark

Major Institution:
Ministry of Health

Major contact:
Fred Smith, Permanent Secretary

Type of Inst.: Public Agency/Other
Comments: Medical Statistics Office

Mission: Collection of data on the health services for the country of Belize.

Activities: Collection and dissemination of information at local, national and international level.

Employees: Permanent: 5 Other type:

Funding: Government

Types of Information Available

Scientific: Socioeconomic: health Legal:
Comments: Cultural health as according to cultural behaviour. Overall medical/health statistics.

Coverage: complete country
Comments: Central Office Department- records for the whole country of Belize. PAITO, WA, CARIB/TRINIDAD CAREC, Caribbean Epidemiological Center records.

Forms of holdings and size:
other

Comments: Records are kept on file appertaining to medical statistics.

Ministry of Agriculture and Fisheries

Director: Hon. Michael Espat
Title: Minister

Address: West Block, Second Floor
Belmopan
Belize

Phone: 8-22330/22242 Fax: 8-22409 Telex:

Principal contact: Rodney Neal Title: Permanent Secretary

Major Institution:
Government

Major contact:
Hon. Michael Espat

Type of Inst.: Public Agency/Ministry
Comments: Government.

Mission: To provide policy and regulatory guidelines in agriculture and fisheries.

Activities: Support services in research and development education, extension, regulation of agriculture and fisheries.

Funding: Government

Types of Information Available

Scientific: biological Socioeconomic: land use Legal: environmental laws
soil

Forms of holdings and size:
library
maps
scientific collections

Accessibility of Information

Users: public Methods: direct on-site consultation
qualified researchers request for information
government offices

Costs: Free

Map Collection

Map types: topographic
soil
land use

Information Management Capabilities

Uses: land use analysis and land use decisions
resource management and resource management decisions
national development planning
scientific or academic research

Projects: Reef fish management
Reef monitoring
Conservation/compliance
Glovers Reef atoll management plan
Hol Chan Marine Reserve
Sustainable agricultural production

Regular publications:
Annual reports

Ministry of Economic Development

Acronym: MED

Director: Hon. Said Musa
Title: Minister

Address: P.O. Box 42
Unity Boulevard
Belmopan
Belize

Phone: 8-22526/7 **Fax:** 8 23111 **Telex:**

Principal contact: Orlando Pulga **Title:** Permanent Secretary

Other contacts: Mr. H. Paredes **Title:** Head of Public Sector
Investment Programme (PSIP)

Type of Inst.: Public Agency/Ministry
Comments: Responsible for planning, public sector investments and private sector investment concessions.

Mission: Stimulate, promote and encourage national development through inter alia, the coordination and implementation and mobilization of external technical cooperation.

Activities:

1. Macro economic plan preparation and review of same etc.
2. Project cycle activities of identification, preparation and appraisal.
3. Co-ordination of donor agencies requirements with those of line ministries.
4. PSIP preparation etc.
5. Approval of conclusions.
6. Monitoring compliance.

Employees: Permanent: 18 Other type:

Funding: Government

Types of Information Available

Scientific: other **Socioeconomic:** other **Legal:** other
Comments: Ministry has varying type publications provided by donor agencies fitting within the above categories.

Coverage: other
Comments: Proper files and classification of data is yet to be carried out.

Accessibility of Information

Users: qualified researchers
government offices

Methods: direct on-site consultation
request for information

Costs: Free

Information Management Capabilities

Uses: national development planning

Ministry of Education

Acronym: MOE

Director: Hon. Said Musa
Title: Minister

Address: West Block, 3rd Floor
Belmopan, Cayo District
Belize

Phone: 8-22324 Fax: 8-23389 Telex:
8-22698
8-22329

Principal contact: Dr. Santos Mahung Title: Permanent Secretary

Other contacts: Ernest Raymond Title: Chief Education Officer
E. Roy Cayetano Deputy Chief Education Officer

Major Institution:
Government of Belize

Major contact:
Hon. Said Musa

Type of Inst.: Public Agency/Ministry
Comments: Government Ministry responsible for education in Belize.

Mission: To ensure on behalf of the government and in cooperation with the churches that all Belizeans acquire the knowledge skills and attitudes required for a full and active participation in the development of the nation for their own personal development.

Activities: Ensuring that there are adequate support systems for the delivering of appropriate and equitable educational services.

Employees: Permanent: 22 Other type:

Funding: Government
Multilateral international agencies

Types of Information Available

Scientific: Socioeconomic: social Legal:
Comments: People, enrollment, student flows - teachers, quality information, and schools.

Coverage: complete country
Comments: Just about all of the country, over multiple years.

Forms of holdings and size:
database

Comments: Annual report on education system/statistics In the process of implementing a management information system.

Accessibility of Information

Users: public Methods: direct on-site consultation
request for information

Costs: Free

Comments: RE: Annual report, contact Planning Unit (telephone 08 22559)

Information Management Capabilities

Uses: national development planning

Analysis: electronic database

Ministry of Energy and Communications

Acronym: MEC

Director: Hon. Carlos Diaz
Title: Minister

Address: Power Lane
Cayo District
Belmopan
Belize

Phone: 8-22435/22692 **Fax:** 8-23317 **Telex:**

Principal contact: Mr. David Aguilar **Title:** Permanent Secretary

Other contacts: Rudy Avila **Title:** Assistant Secretary

Major Institution:
Government of Belize

Major contact:
Hon. Carlos Diaz

Type of Inst.: Public Agency/Ministry

Comments: Government Ministry responsible for utilities, ground, air and sea transportation, postal service telecommunications and meteorology.

Mission: To provide, distribute and conserve energy and allied utilities.

Activities:

1. To regulate transportation of different types.
2. To provide data on weather and climatic conditions.
3. To oversee the development of telecommunications with a view to optimizing these elements to facilitate the development of Belize.

Employees: Permanent: 8 Other type:

Funding: Government
Multilateral international agencies

Types of Information Available

Scientific: ecological Socioeconomic: Legal:
geographic
climatic

Comments: Geographic: weather control throughout region. Other: transportation and energy.

Coverage: Central American region
complete country

Comments: Weather and civil aviation - coverage throughout region Meteorology and also nautics.

Forms of holdings and size:

library
maps
database

Comments: Small in the form of Government of Belize legislation.

Accessibility of Information

Users: public
qualified researchers

Methods: direct on-site consultation:
request for information

Costs: Free

Comments: Only cabinet information will be unclassified until released.

Map Collection

Map types: other

Comments: Small collection in office, but use other personnel to do interpretations.

Information Management Capabilities

Uses: resource management and resource management decisions
national development planning

Services: training

Comments: Some training/centralised training in all departments.

Accessibility of Information

Users:	public qualified researchers government offices other	Methods:	direct on-site consultation request for information
Costs:	Free		

Information Management Capabilities

Uses:	national development planning
Services:	laboratory analysis training other

Monkey Bay Wildlife Sanctuary

Director: Mr. Matthew Miller
Title: Manager

Address: Mile 31 1/2 Western Highway
P.O. Box 187
Belmopan
Belize

Phone: 8-23180 **Fax:** **Telex:**

Principal contact: Matthew Miller **Title:** Manager

Other contacts: Joshua Brown **Title:** Co-Director

Type of Inst.: NGO (local)
Comments: Environmental Education/Natural History Field Protection Courses offered.

Mission: Management of 1,070 acre reserve for wildlife and forest protection. Use sanctuary as outdoor classroom and base for excursions to sites of natural history and cultural interest.

Activities: Wildlife management, environmental education, cultural exchange through village homestay programmes, co-ordinate earth day activities.

Employees: Permanent: 3 Other type: 3

Funding: Private international agencies
Private foundations

Types of Information Available

Scientific:	biological	Socioeconomic:	land use	Legal:
	botanical		health	
	ecological		cultural	
	geological			
	soil			
	zoological			
	hydrological			
	geographic			
Comments:	Library with zoo entries on above topics. Small natural history museum with zoological specimens.			

Coverage: Complete country.
Comments: Some of areas, but continually adding to the collection.

Forms of holdings and size:
library 200
maps 20
scientific collections 50

Accessibility of Information

Users: public
qualified researchers
government offices

Methods: direct on-site consultation

Costs: Free

Comments: Anyone, anytime of day.

Map Collection

Map types: standard base
topographic
land use

Information Management Capabilities

Uses: land use analysis and land use decisions
resource management and resource management decisions
scientific or academic research
teaching to all levels: 5th grade to university
other

Analysis: See comments.

Comments: Interpretation and analysis.

Services: training

Comments: Training in student teaching.

Projects:

1. Native tree nursery producing seedlings for transplanting.
2. Interpretative natural trail system for visitors/students.
3. Bird siting list, (216 species).
4. Educational tour of watershed continuum design is offered.

Regular publications:
Quarterly newsletter to members.

National Library Service

Director: Mrs. Joy Ysaguirre
Title: Chief Librarian

Address: P.O. Box 287
Belize City
Belize

Phone: 2-73401/77267 **Fax:** 2-33415 **Telex:**

Principal contact: Alice Gibson **Title:** Principal Librarian

Other contacts: Robert Husle **Title:** Library Assistant

Major Institution: Ministry of Education

Major contact: Permanent Secretary

Type of Inst.: Public Agency/Other
Comments: Quasi-government

Mission: Becoming the cornerstone of National Library Systems.

Activities:

1. Library activities.
2. Cultural and Educational Programme.
3. Annual Training Programme for Librarians.
4. Summer activities for children.

Employees: Permanent: 7 Other type: 40

Funding: Government

Types of Information Available

Scientific:	biological	Socioeconomic:	land use	Legal:
	botanical		demography	
	geological		health	
	soil		cultural	
	zoological		social	
	geographic			
	climatic			

Comments: General information.

Coverage: other

Forms of holdings and size:

library 90000

Comments: Collection has been growing by about 5% per annum. Should be installing CDS/ISIS database program.

Accessibility of Information

Users: public
qualified researchers
government offices
other

Methods: direct on-site consultation
request for information

Costs: Free

Comments: Information can be accessible via the CARD catalogue/ available to everyone.

Information Management Capabilities

Uses: other

Comments: General research purposes; probably will be installing CDS/ISIS program for future networking.

Services: library/literature search

Comments: upgrading library

National Meteorological Service

Acronym: NMS

Director: Mr. Carlos Fuller
Title: Chief Meteorologist

Address: P.O. Box 717
Belize City
Belize

Phone: 25-2012 **Fax:** 25-2101 **Telex:** 371 211 CW BOOTH BZ

Principal contact: Carlos Fuller **Title:** Chief Meteorologist

Other contacts: Justin Hulse **Title:** Meteorologist Data Quality Control

Major Institution: Ministry of Natural Resources

Major contact: Permanent Secretary

Type of Inst.: Public Agency/Ministry
Comments: Government department.

Mission: Provide Meteorological advice and warnings to government and public. To liaise with similar foreign services and institutions.

Activities: 1. Provides daily weather information to public, aviation, military and agriculture.
2. Provides climatic data for planning and assessment for agriculture, construction, transportation etc.

Employees: Permanent: 30 Other type:

Funding: Government

Types of Information Available

Scientific: climatic **Socioeconomic:** **Legal:**

Coverage: complete country

Forms of holdings and size:

maps
database

Comments: Database information PCLYCOM stores information for complete country (contours, rainfall)/collection of daily data for complete country.

Accessibility of Information

Users: public Methods: direct on-site consultation
request for information

Costs: Free

Map Collection

Map types: standard base

Bibliographic Collection

Comments: All publications of World Meteorological Organisation are available.

Information Management Capabilities

Uses: other
Comments: Weather and climate assessment.

Analysis: satellite or remote sensing image processing
electronic database
Comments: Satellite and radar image reception and qualitative assessment.

Services: other
Comments: Climatic assessment of country.

Information Management Capabilities

Uses: other

Comments: Used by students to do their research for school projects.

Services: library/literature search

Pesticide Control Board

Acronym: PCB

Director: Mr. John Link
Title: Director

Address: Central Farm
Cayo District
Belize

Phone: 92-2131 **Fax:** 92-2640 **Telex:**

Principal contact: John Link **Title:** Director

Other contacts: Miriam Serut **Title:**

Major Institution: Ministry of Agriculture and Fisheries

Major contact: Rodney Neal, Permanent Secretary

Type of Inst.: Public Agency/Ministry

Comments: The PCB is a department for agricultural research functioning as the regulatory body for the control of pesticides in Belize.

Mission: Controls all aspects of pesticide use in Belize.

Activities: 1. License importers, manufacturers, sales agents, applicators, wholesalers, and retailers of pesticides.
2. Train farmers in the safe use of pesticides.

Employees: Permanent: 4 Other type:

Funding: Government

Types of Information Available

Scientific: biological **Socioeconomic:** **Legal:**
Comments: Lists of pesticides : Prohibited Restricted Registered Importers. Wholesalers. Retailers and amounts and kinds of pesticides imported.

Coverage: complete country
Comments: 3 years data on whole country

Forms of holdings and size: database
Comments: Information is being entered on computer database.

Accessibility of Information

Users: qualified researchers Methods: direct on-site consultation
Costs: Free
Comments: Any serious researcher may access the Information.

Information Management Capabilities

Uses: other
Comments: To monitor and control pesticide use in Belize.

Analysis: other
Comments: Computer capability shared with Ministry of Agriculture PCB will shortly acquire its own.

Services: laboratory analysis
 training
Comments: A joint laboratory for food quality and pesticide residue testing is being set up in Belize City. Farmers and Extension Officers are trained in safe use of pesticides.

Regular publications:
The list of Pesticide Schedules is published annually in the government Gazette. The list is updated annually.

Programme for Belize

Director: Mrs. Joy Grant
Title: Managing Director

Address: P.O. Box 749
11 King Street
Belize City
Belize

Phone: 2-75616/75617 **Fax:** 2-75635 **Telex:**

Principal contact: Ms. Joy A. Grant **Title:** Managing Director

Other contacts: Rene Nunez **Title:** Senior Project Co-ordinator

Type of Inst.: NGO (national)
Comments: Conservation/Economic development. Has branches in the UK.

Mission: To link conservation with sustainable economic development of Belize's natural resources.

Activities: 202,000 acres of land in Northern Belize/zoned in four areas/conservation, recreation strict reserve and sustainable forestry. Conservation of natural reserve.

Employees: Permanent: 9 Other type:

Funding: Private international agencies
donations

Types of Information Available

Scientific:	biological botanical ecological zoological hydrological geographic climatic	Socioeconomic:	Legal:
Comments:	Agricultural/archeological, information on tree species/transects analysis.		
Coverage:	Central American region complete country		
Comments:	Belize		

Forms of holding:

library
maps
database
satellite or remote sensing images

Comments: Climate data. Forestry. Migratory.

Accessibility of Information

Users: public
qualified researchers
government offices

Methods: direct on-site consultation
request for information

Costs: See comments.

Comments: Charge is dependent upon the type of information required.

Map Collection

Map types: See comments.

Comments: Map collection is only in Rio Bravo.

Bibliographic Collection

Comments: Limited, but in the process of collection.

Information Management Capabilities

Uses: land use analysis and land use decisions
resource management and resource management decisions
scientific or academic research
other

Comments: Education and training.

Analysis: computer database

Projects: 1. Rio Bravo conservation and management area: a 202,000 acre area of moist subtropical rainforest managed for conservation.
2. Economic development (eg. forestry, ecological, archeological/educational)

Irregular publications:

Newsletter UK

Public Health Bureau

Acronym: PHB

Director: Mr. Hilbert Lenares
Title: Principal Public Health Inspector

Address: Corner of St. Joseph Street and Princess Margaret Drive
P.O. Box 273
Belize City
Belize

Phone: 2-45408/45210 Fax: 2-30171 Telex:

Principal contact: Hilbert Linares Title: Principal Public Health Officer

Other contacts: Carlos Guerra Title: Sanitary Engineer

Major Institution: Ministry of Health

Major contact: Permanent Secretary

Type of Inst.: Public Agency/Ministry
Comments: Responsible for the maintenance of Public Health Standards within the country.
Monitors services and programmes related to environmental health.

Mission: Prevention of illnesses - diseases, environmental pollution/contamination.

Activities: Inspection of foods, food processing plants monitoring of water quality, investigation of communicable diseases, solid waste and liquid waste monitoring, rabies control and health education.

Employees: Permanent: 18 Other type: 18

Funding: Government

Types of Information Available

Scientific: Socioeconomic: health Legal: environmental laws
municipal state codes

Comments: Health/Environmental Health Activities.

Coverage: complete country

Forms of holdings and size:

maps
database

Comments: Database is used to store information on malaria.

Accessibility of Information

Users: qualified researchers
government offices

Methods: direct on-site consultation
request for information

Costs: Free

Comments: Some information is confidential and is only released by the Ministry/Government.

Bibliographic Collection

Comments: Public Health/Environmental Health Some journals - not up to date.

Information Management Capabilities

Uses: land use analysis and land use decisions
resource management and resource management decisions
national development planning
scientific or academic research

Analysis: other

Comments: Human: A special unit within the Ministry utilizes the electronic database.

Services: environmental impact studies or assessments
laboratory analysis
training

Comments: Training, and on the job, in Public Health Inspection and Environmental Health.

Regular publications:

Institutional - Quarterly Newsletter
Ministerial - Yearly publication of achievement and status.

Coverage: complete country
Comments: Present coverage of country is limited to communities covered by water and sanitation projects since 1987.

Forms of holdings and size:

other
Comments: Well logs of bore-holes. Village or community profiles of project villages. Health behaviours collected by focus group dynamics/actual behaviour observation.

Accessibility of Information

Users: public
qualified researchers
government offices
Methods: direct on-site consultation
request for information

Costs: Free
Comments: The information is accessible to all involved in community type projects as baseline information for planning, co-ordinating and implementing projects.

Map Collection

Map types: geological
hydrological
Comments: Apart from individual bore-hole well logs, the collected information has not been transferred to a map presentation.

Bibliographic Collection

Comments: Wash technical reports - very helpful and up to date PAHO/UNICEF publications. World Federation of Public Health Associations. Developing World Water.

Information Management Capabilities

Uses: land use analysis and land use decisions
resource management and resource management decisions
Comments: Protection of water shed areas.

Services: laboratory analysis
Comments: Chemical and bacteriological analysis of water. No pesticidal analysis capability.

Shipstern Nature Reserve

Director: Mr. Jan C. Meerman
Title: Manager

Address: P.O. Box 1694
Belize City
Belize
Corozal
Belize

Phone: 4-32046 Fax: 4-32046 Telex:

Principal contact: Jan Meerman Title: Manager

Other contacts: Tineke Boomsma Title: Manager

Type of Inst.: NGO
Comments: Nature Reserve.

Mission: Conservation of Shipstern Nature Reserve.

Activities: Conservation.

Employees: Permanent: 4 Other type:

Funding: private foundations

Types of Information Available

Scientific: biological Socioeconomic: land use Legal:
botanical
zoological
climatic

Coverage: sub-national region
Comments: Northwest Corozal District data information gathered since 1989.

Forms of holdings and size:
library
maps
aerial photos
satellite or remote sensing images
scientific collections

Accessibility of Information

Users: qualified researchers
government offices

Methods: direct on-site consultation

Costs: Charge

Comments: Costs depend on user.

Map Collection

Map types: standard base
soil
geological
topographic
forest types
land use
protected areas

Comments: Some maps cover the entire country but most are specific to Shipstern Nature Reserve.

Information Management Capabilities

Uses: resource management and resource management decisions
scientific or academic research

Analysis: electronic database

Services: environmental impact studies or assessments
biological inventories

Projects: Conservation and management of Shipstern Nature Reserve, Environmental Impact Survey for Belize.

Siwa-ban Foundation

Director: Ms. Ellen McRae

Address: 47, Caye Caulker
Belize

Phone: 022-2178

Fax: 022-2239

Telex:

Principal contact:

Ellen McRae

Title:

Director

Other contacts: Maria Vega
Caumelita Aguilar
Tracy Darnell

Title: Director
Director
Biologist, Volunteer

Type of Inst.: NGO

Mission: The promotion of optimal health of Belize's marine habitats through education and promotion of sustainable development practices.

Activities: 1. The design and implementation of a proposed multihabitat marine sanctuary.
2. Ongoing education programs/ongoing research.
3. Mooring and buoy construction.

Employees: Permanent: 4 Other type: 1

Funding: private international agencies
membership
private foundations

Types of Information Available

Scientific: biological Socioeconomic: Legal:
ecological
zoological
other

Comments: Other includes marine information.

Coverage: Central American region
other

Comments: The information available covers marine ecology and nearshore processes, especially Western Central Atlantic and some migrant birds of North and Central America.

Forms of holdings and size:

library 300
scientific collections 200

Comments: The library material consists of reprints and the scientific collections are all samples.

Accessibility of Information:

Users: qualified researchers Methods: request for information
government offices

Costs: Charge

Comments: All material is accessible at the expense of the requester.

Bibliographic Collection

Comments: The most recent reprints are dated 1992.

Information Management Capabilities

Uses: resource management and resources management decisions
national development planning
scientific or academic research

Services: biological inventories
environmental impact studies or assessments
other

Comments: Other services include the design of sampling regimes to analyze natural and man-made phenomena concerning marine habitats. This includes littoral forest and mangroves.

Projects:

1. The design of a multihabitat marine sanctuary at Caye Caulker.
2. The collection of base-line data of seagrass fauna of the Northern Shelf Lagoon, carried out over a period of 10 years to date.
3. Studies of the birds of Caye Caulker, including the use of habitats by migrant and local species.

Irregular publications:

The Siwa-ban Foundation Occasional Newsletter.

Society for the Promotion of Education and Research

Acronym: SPEAR

Director: Mr. Dennis Jones
Title: Executive Director

Address: P.O. Box 571
Belize City
Belize

Phone: 2-45641/31668 Fax: 2-32367 Telex:

Principal contact: Diane Haylock Title: Program Co-Ordinator

Other contacts: Assad Shoman Title: Assistant Advisor

Type of Inst.: NGO (national)

Comments: Implements adult education and research programs.

Mission: Non-partisan organization committed to raising the level of political consciousness and so contribute to the struggle for social and economic justice.

Activities: 1. Adult education and literacy programs.
2. Research into socio-economic activities.
3. Research and mass awareness programs.
4. Provision of library of alternate information.

Employees: Permanent: 10 Other type: 2

Funding: Private international agencies
Membership
Company or commercial entity

Types of Information Available

Scientific: Socioeconomic: land use
cultural
social Legal:

Coverage: Central American region
complete country

Comments: Information coverage of social and cultural covers complete country, through radio talks, workshops, and annual studies on Belize Conferences.

Forms of holdings and size:
library 5000

Comments: Continuous.

St. John's College

Director: Mr. James S. Murphy, S.J.
Title: President

Address: P.O.Box 548
Belize City
Belize

Phone: 2-33732 **Fax:** 2-32752 **Telex:**

Principal contact: James S. Murphy **Title:** President

Other contacts: S.R. Mercy Cervantes R.S.M. **Title:** Dean, Sixth Form Division
F.R. John Stochl, S.J. Headmaster, High School Division
F.R. Led Webber, S.J. Director, Extension Department

Major Institution:
Roman Catholic Church

Type of Inst.: Private University
Comments: St. John's College is a grant-aided secondary school and sixth form sponsored by the society of Jesus and the Roman Catholic Church.

Mission: To provide quality, value-centered educational services in Belize.

Activities: Educational

Employees: Permanent: 60 Other type: 60

Funding: Government
Membership
Private foundations

Accessibility of Information

Users: qualified researchers
Comments: St. John's College exists primarily for the students.

Information Management Capabilities

Services: library/literature search

Regular publications:
Belizean Studies - Mr. Herman Byrd, Editor

United States Agency for International Development

Acronym: USAID BELIZE

Director: Ms. Barbara Sandoval
Title: AID Representative

Address: P.O. Box
Gabourel Lane
Belize City
Belize

Phone: 02 31066 Fax: 02 30215 Telex:

Principal contact: Mr. George Like Title: Agricultural Development Officer

Other contacts: Mr. Joe McGann Title: Natural Resources Project Manager
Mr. Paul Bisek Project Development Officer

Major Institution: USAID - US EMBASSY

Major contact: Mr. Jim Hester, Chief LAC/DR/EES

Type of Inst.: Public Agency/Ministry
Comments: US Government International Development Agency

Mission: Bilateral Economic Development Assistance

Activities: 1. Assistance in natural resource management
2. Assistance in physical resource management
3. Other development activities (building bridges, roads, education, training, activities against drug abuse).

Employees: Permanent: 35 Other type:

Funding: Government

Types of Information Available

Scientific: Socioeconomic: other Legal:
Comments: Variety of studies relevant to Belize's economic development.

Coverage: Central American region
complete country
Comments: Special Central American regional strategies.

University College of Belize

Director: Dr. Angel E. Cal
Title: President

Address: P.O.Box 990
University Drive
West Landivar
Belize City
Belize

Phone: 2-32732 Fax: 2-30255 Telex:

Principal contact: Dr. Angel Cal Title: President

Other contacts: Dr. Alvaro Rosaro Title: Vice President
Mrs. Gilda Lewis Acting Academic Dean

Type of Inst.: Public university

Mission: To provide education, training, and undertake research at the University level to meet the development needs of Belize.

Activities: 1. Instruction at the adult, continuing education, junior college and undergraduate levels.
2. Research and services related to the above.

Employees: Permanent: 54 Other type: 15

Funding: Government
Membership (tuition fees)

Types of Information Available

Scientific: biological Socioeconomic: health Legal:
cultural

Comments: Education (secondary and tertiary), Allied Health (pharmacy, med. lab. tech., environmental), Paralegal studies, English as a second language, natural resources management, Marine studies, and Business Administration.

Coverage: complete country

Forms of holdings and size:
library
other

Comments: Information available mostly from subject/area specialists.

Accessibility of Information

Users: public
qualified researchers
government offices

Methods:

Costs: other

Comments: Information is available to all. The cost is dependent on the nature of the request, such as the time it takes to process, and use of resources.

Bibliographic Collection

Comments: Collection mainly support program offerings. General reference material and a Belize Collection is also offered.

Information Management Capabilities

Uses: resource management and resource management decisions
national development planning
scientific or academic research

Comments: Information available mostly through specialized personnel.

Analysis: other

Comments: Basically design, implementation and evaluation of training programs in areas previously indicated.

Services: training

Projects: 1. Underway: UCB- University of Montana project
2. Underway: Design of a marine Studies Programme

Irregular publications:
UCB Journal

University of the West Indies Extension

Acronym: UWI

Director: Dr. Joseph Palacio
Title: Resident Tutor

Address: P.O. Box 229
School of Continuing Studies
Princess Margaret Drive
Belize City
Belize

Phone: 2-44100 Fax: 2-32038 Telex:

Principal contact: Dr. Joseph Palacio Title: Resident Tutor

Other contacts: Mr. Joslyn Nembhard Title: Acting Resident Tutor

Major Institution:
University of the West Indies, Mona, Jamaica.

Type of Inst.: Private University
Comments: The University is autonomous but it gets grants from the regional governments.

Mission: To teach at the tertiary level and to carry out research. Community outreach program.

Activities: 1. Running of courses (eg. Media technology).
2. Introduction to environmental planning.
3. Functional Spanish.
4. Functional Garifuna.
5. Conducting workshops.
6. Research.

Employees: Permanent: 8 Other type: 5

Funding: Government
Private international agencies
Private foundations

Types of Information Available

Scientific: geographic Socioeconomic: land use demography health cultural social
Legal:



Index of Acronyms

ABA	Association for Belizean Archaeology
BABCO	Belize Agri-Business Company
BCA	Belize College of Agriculture
BEST	Belize Enterprise for Sustained Technology
BFCA	Belize Fishermen Co-operative Association
BIM	Belize Institute of Management
BLPA	Belize Lumber Producers Association
BRWA	Belize Rural Womens Association
BSI	Belize Sugar Industry
BTC	Belize Teacher's College
BTIA	Belize Tourism Industry Association
BTB	Belize Tourist Board
WASA	Belize Water and Sewerage Authority
BYCC	Belize Youth Conservation Corp
BYDC	Belize Youth Development Centre
CAPE	CARE Belize
CSC	Central Statistical Office
CEC	Commission of European Communities
DOA	Department of Agriculture
DOA	Department of Archaeology
FD	Fisheries Department
GJBSC	Gallon Jug Biological Survey Center
GPO	Geology and Petroleum Office
ML	Medical Library
MSO	Medical Statistics Office
MED	Ministry of Economic Development
MOE	Ministry of Education
MEC	Ministry of Energy and Communications
NMS	National Meteorological Service
PHS	Pallotti High School
PCB	Pesticide Control Board
PHB	Public Health Bureau
RWSSP	Rural Water Supply and Sanitation Program
SPEAR	Society for the Promotion of Education and Research
USAID BELIZE	U.S. Agency for International Development
UWI	University of the West Indies Extension



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About The Nature Conservancy

The mission of The Nature Conservancy is to preserve plants, animals and natural communities that represent the diversity of life on Earth by protecting the lands and waters they need to survive. The Conservancy acts internationally by assisting countries in building the capacity and commitment to conserve their biological diversity and the natural systems necessary to sustain life.

For more than 40 years, the Conservancy, a nonprofit membership organization headquartered in Arlington, Virginia, USA has worked with local conservationists both in the United States and internationally to identify and protect critical habitat. To date the Conservancy and its members, who now number more than 700,000, have been responsible for the protection of more than 6.3 million acres in the United States and Canada. Internationally, the Conservancy has a well-developed program in Latin America and the Caribbean and during the last several years has begun focusing on conservation challenges in the Pacific. Through the "Parks in Peril" program, which has targeted 200 of the Western hemisphere's most important and most imperiled natural areas, more than 35 million acres are being protected.

The Conservancy is well-known for its expertise in land acquisition for conservation purposes; in the United States, the organization owns more than 1,300 preserves, the largest private system of nature sanctuaries in the world. The Conservancy also developed the Natural Heritage methodology, which has grown into a hemisphere-wide network of computerized biodiversity inventories known as Conservation Data Centers. The Conservancy has also developed widely adopted techniques of managing land for conservation purposes. Each of these strategies plays an important role in the Conservancy's goal of preserving biodiversi-

ty by protecting whole ecosystems with both people and nature in mind.

Internationally, the Conservancy recognizes that local organizations have the best insight into local conservation issues. It therefore works to support partners ensuring that they have the resources and skills to make decisions that will guarantee a rich natural legacy for the future. Its closest partners generally are private land-conservation organizations which, like the Conservancy, have a clear mission of protecting areas of high biological importance but it also collaborates closely with government institutions and other international organizations.

In Latin America and the Caribbean, the Conservancy's partners number more than 30 organizations in 18 countries. The Conservancy focuses on institutional development, protected areas management, long-term conservation financing and the application of science and information technologies for conservation decision-making.

For more information about The Nature Conservancy and its work in Latin America and the Caribbean, call (703) 841-4860 or write The Nature Conservancy, Latin America/Caribbean Program, 1815 North Lynn Street, Arlington, Virginia 22209.