ANNOTATED BIBLIOGRAPHY ON NATURAL RESOURCES
AND THE ENVIRONMENT IN GUYANA

Compiled by
Macsood Hoosein

Georgetown, Guyana
January, 1996
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FOREWORD

The world has entered a new and very dynamic information age exemplified by Internet and the World Wide Web. Guyana, like most developing countries, is making strides to become part of this international system. If it does not, it is told, Guyanese will be left behind in the development process. While this may be true, one could argue that too much emphasis is being placed on the technology and not enough on the information itself.

With or without Internet, and all that is to follow, there is a tremendous amount of information available right here in Guyana that can be extremely useful in the development process. Unfortunately, most of this information goes underutilized, either because the potential users cannot locate the documents they are looking for, or worse, they may be totally unaware that certain reports, studies, theses, etc. even exist.

One of the traditional methods of informing the public of the existence and location of published documents is through the publication of bibliographies. While often undervalued, bibliographies can save researchers years of wasted efforts by informing them of previous research done; they can facilitate decision making by providing useful background information, and they can save us all time by identifying the specific library where a desired document can be found.

The following partial bibliography focuses on natural resources, the environment and related areas in Guyana. This is of particular importance at this point in time when so many new projects are being initiated and development plans are being formulated. IICA is extremely pleased to contribute to the development process of the rural sector with this new publication.

The compiler of this bibliography, Macsood Hosein, is to be congratulated for this time consuming effort. Mr. Hosein was awarded a six-month scholarship under IICA's Junior Professional Program in 1994-95. Upon returning from Costa Rica where he studied forestry, natural resources and management of protected areas, he was given a short-term consultancy to prepare this document.

Jerry La Gra
IICA Representative
ACKNOWLEDGEMENTS

The compilation of this bibliography was not an easy task. However, it could have been much more difficult, had it not been for the accommodation, forbearance and knowledge of the staff of the several libraries, at which I virtually established temporary office. I am indebted to the staff of the Information and Documentation Centre of the Guyana Natural Resources Agency; the National Library; the Guyana Agency for Health Sciences Education, Environment and Food Policy; Dennis Gonsalves, Loretta Telford and the staff of the Caribbean Research Library of the University of Guyana; and Ms Nickram of the Guyana Forestry Commission Library.

In the physical compilation and collation of the data, the task was facilitated by the loaning of a portable computer and the accommodation and support on the part of several staff of the Inter-American Institute for Cooperation on Agriculture. I am particularly thankful to Jerry La Gra, Cromwell Crawford, Roy Samaroo, Atma Shivbarran, Lolita Doodnauth and Daisy Tucker. I also benefitted from the computer facilities at the Institute of Applied Science and Technology in the initial editing of this document. For this Boonauth Birbal and Estelene Hasan deserve my thanks. The final edited version of this work was prepared by Aletha Isaacs, who worked beyond the call of duty.

This exercise was a gratifying one, despite the problems with electricity and having to frequently check and re-check the entries for standardisation and missing information. I would recommend to anyone doing a bibliography in the future to use the available software technology available for bibliographic work. Such programmes save a tremendous amount of time and eliminate errors in standardising format of the entries.

I would like to thank the persons who selected me for this task, for allowing me such an opportunity.

Macsood Hoosein
Compiler
ACRONYMS AND ABBREVIATIONS

A number of acronyms, abbreviations and symbols have been used in this document. Firstly, the names of the libraries whose collections were examined are listed in abbreviated form in parentheses at the end of each reference listed. Also, the names of a number of organizations, chiefly international, have been entered in acronym form.

append. Appendices
CARICOM Caribbean Common Market Community
CIDA Canadian International Development Agency
EPA Environmental Protection Agency
FAO Food and Agriculture Organization of the United Nations
GAHEF Guyana Agency for Health Sciences Education, Environment and Food Policy
GFSU Guyana Forestry Support Unit (now Forest Resources Management Department) of the Guyana Forestry Commission
GTZ German Programme for Technical Cooperation
GNRA Documentation Centre, Guyana Natural Resources Agency
illustr. Illustrations
IDB Inter-American Development Bank
IUCN International Union for the Conservation of Nature and Natural Resources
IUFRO International Forestry Research Institute
mimeo. Mimeograph
nd Undated
NFAP National Forestry Action Plan of Guyana
NL National Library, Georgetown
NPAS National Protected Areas System
SEFORVEN Servicio Autonomo Forestal Venezolano
UG University of Guyana (Caribbean Research Library)
UNDP United Nations Development Programme
UNEP United Nations Environment Programme
UNESCO United Nations Educational, Scientific and Cultural Organization
UWI University of the West Indies
WWF World Wildlife Fund
?
Indicates that a particular was not available for the entry or that the date of publication is not certain
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INTRODUCTION

This bibliography is based on the holdings of the following libraries:

- the Caribbean Research Library, University of Guyana (CRL/UG);
- the Information and Documentation Centre of the Guyana Natural Resources Agency (GNRA);
- the National Library (NL);
- the Guyana Forestry Commission (GFC) Library; and

It is not exhaustive, since not all the libraries in Guyana were visited, and it is a certainty that the libraries researched did not have all the literature on the subject of this bibliography. Further, it includes only those documents that were actually in the collections of the libraries inventoried, that is, it was not based on the catalogue information, which may be different from the collection currently on the shelves, a situation that may result due to loss or new acquisitions, or both.

An attempt was made to annotate as many of the more important entries within the limitations imposed by the time factor.

Of the libraries involved, the CRL had the largest collection. It should be noted that other departmental libraries at the University of Guyana have information in Journal or other sources on Guyana but which may not be present in the collections of the CRL. These departmental libraries were not inventoried in the compilation of this work. It is instructive to note, also, that a data base on the biological diversity of Guyana, as well as the process of the recovery and compilation of information on the biological diversity of Guyana, is presently being prepared by the Institute of Applied Science and Technology. It is also reported that the Centre for the Study of Biological Diversity of the University of Guyana is presently compiling a data base on its holdings in the area of biological diversity. Additionally, locations like the Iwokrama International Rain Forest Programme, the Centre for the Study of Biodiversity and the Project Preparation Unit of the EPA/NPAS house collections on the subject of this bibliography.

Other bibliographies which were not included but which may be of interest to the reader interested in natural resources and environment are as follows:


2. FORTE, J. A selective reading list on Guyanese Amerindians. Occasional Publication of the Amerindian Research Unit, University of Guyana. 1995. 16p. (UG)

In the compilation of this bibliography, the subject of agriculture, despite its obvious relation to the environment, was not included. However, the bibliographies on agriculture that were encountered have been included in the "Bibliographies" section. Entomology, though it is related to wildlife and biology, was not included in this bibliography because it is regarded as a branch of the field of agriculture. Similarly, for the field of Acarology.

One of the sub-headings listed is that of "Natural History" because of its relation to natural resources and the environment. However, most of the literature on the subject was found to be travelogues and more descriptive than technical. Only the more technical documents were included in this bibliography. The reader interested in the other documents can consult the "List of books on travel in Guyana", compiled by the Department of Modern Languages of the University of Guyana, listed in the "Bibliography" section of this document. A number of the travelogues and books on natural history can be found at the National Library.

This bibliography is divided into sections which are arranged in alphabetical order. These are: Bibliographies; Biology; Botany; Charcoal and Wood Energy; Environment; Fisheries; Forestry; Hydrology/Climate; Iwokrama; Land Use; Mangroves and Coastal Zone; Natural History; Natural Resources; Non-timber Forest Products (which includes cultivated food and medicinal plants); Physical Geography; Policy and Legislation; Protected Areas; Soils; and Wildlife.

The entries follow the bibliographic format presented below, except in the case of Journals, which retained their own formats:

Name of author(s); Title; Publisher and location; Date of publication; Number of pages; Any relevant annotations; One library where it can be found (acronym in parenthesis). Annotations, summarizing the more important contents of each entry, where they occur, immediately follow the entry in indented paragraph(s) and in slightly smaller print.
BIBLIOGRAPHIES


ANONYMOUS. Bibliography - forestry, British Guiana. ?, nd. 9p. Photocopy of typescript. (UG)


DEPARTMENT OF MODERN LANGUAGES. List of books on travel in Guyana. The Department, University of Guyana, Turkeyen, nd. 5p. Photocopy of typescript. (UG)


RAMDIAL, B.S. and RAMDIAL, B.P. The natural history and ecology of the Agouti (Dasyprocta agouti): A literature review. ?. nd. 18p. Mimeo. (GFC)


TASHIRO, J. and DRAGOVICH, A. Bibliography on the off shore shrimp fishery of northern South America. WECAF Reports No. 35, Inter-regional Fisheries Development and Management Programme, F.A.O., Panama, 1980. 34p. (UG)

BIOLOGY

ANONYMOUS. University of Miami and University of Guyana field trip to Dawa, nd. Unpublished. 12p. (UG)

ANONYMOUS. Plants of the Botanical Gardens and the Georgetown Zoological Gardens. Pamphlet. (GFC)


Briefly describes the geography and biogeography of Guyana, the status of biological diversity, proposed measures for the conservation of biological diversity, and ex-situ institutions and conservation facilities. Provides maps on biogeographical provinces, areas of high endemism (plants and animals), location of fuelwood areas of Guyana, proposed location of protected areas, biogeographic provinces. Tables are on number of species by taxa, numbers and names of those in situational categories (endangered, threatened, etc.), among others.


IM THURN, E.F. The first ascent of Roraima. Timehri, Vol. 4, No. 4, 1885, p1-48. (UG)

IM THURN, E.F. The genus Thurnia. Timehri, Vol. 4, No. 4, 1885. p316. (UG)


QUELCH, J.J. A journey to the summit of Roraima. Timehri, Vol. 9, No. 14, (new series), 1895, p107-188. (UG)


A report on a study of the site, the vegetation, avifauna, mammals, herpetofauna, and some indicators on invertebrates, using the method of Rapid Ecological Assessment. Contains four appendices on plants and animals of the area, and two maps.

DERHAM, P. Integrated ecological resources and monitoring programme for man-made lakes in tropical regions. Paper presented at seminar "Hydropower and the Environment", October 4-8, 1976, University of Guyana, Turkeyen. 8p. (UG)

Relates to the Upper Mazaruni Hydroelectric Scheme. Provides an analysis of the scheme and briefly talks about seven areas for priority research on the Scheme.


BOTANY


ALSTON, R.A. Botanical survey (Upper Mazaruni District). ?, nd. 3p. Typescript. (GFC)


GRAHAM, V.E. *A simplified key to the native orchids of B.G. Timehri, No. 37, 1958, p41-7. (UG)*


HARRISON, S.C. *Notes on the vegetation of the coastal region of British Guiana. Timehri, No. 40, 1961, p93-104. Also photocopy. (UG)*


IM THURN, E.F. The cannonball tree (Couroupita guianensis). Timehri, Vol. 1, No. 1, 1882, p297-298. (UG)


IM THURN, E.F. Figures of Guiana orchids. Timehri, Vol. 3, No. 3, 1884, p163-64. (UG)


IM THURN, E.F. A new Guiana aroid. Timehri, Vol. 4, No. 4, 1885, p128-29. (UG)

IM THURN, E.F. A note on the genus Chrysodium. Timehri, Vol. 4, No. 4, 1885, p311-316. (UG)

IM THURN, E.F. Notes on the plants observed during the Mount Roraima Expedition of 1884. Timehri, Vol. 5, No. 5, 1886, p145-223. (UG)


SANDWITH, N.Y. Species minus cognitae (Strychnos diaboli, S. melinoniana, S. tomentosa). Hooker’s Icones Plantarum, tt. p3173-5, 1932. (GFC)


SANDWITH, N.Y. Contributions to the flora of tropical America XXXIX: Results of a recent collecting expedition to British Guiana. Bulletin of Miscellaneous Information, Royal Botanic Gardens, Kew, No. 1, 1939, p3-25. (GFC)


TUTIN, T.G. New species from British Guiana. (Begonia, Couratari, Licania, Talisia). Extracted from The Journal of Botany, November 1940, p249-257. (GFC)


CHARCOAL/WOOD ENERGY


Briefly looks at the role of bank-source credit, the current charcoal situation, major constraints, and makes some recommendations. The bulk of the paper consists of three appendices, dealing with charcoal production and exports, production technology (with illustrations), cooker technology (with illustrations), and environmental impacts of charcoal production on dry evergreen forests, respectively.


A report on the background of charcoal production in Guyana up to the year 1978, advises on characteristics of wood to be used for producing firewood and charcoal, sources of charcoal production in Guyana, markets for charcoal production, alternative methods of producing charcoal, and makes some general recommendations.

ENVIRONMENT

ANONYMOUS. Strategies and a plan of action for the implementation of environmental education into the formal education system of Guyana. Unpublished, nd. 7p. (GAHEF)

ANONYMOUS. Guyana Coastal Zone Management Study (first draft). Consultant report, GTZ?, nd. 15p. (GAHEF)

ANONYMOUS. Draft Environmental Impact Assessment of the construction of the road from Georgetown to Lethem. Unpublished, nd. 15p. Mimeograph. (GAHEF)

ANONYMOUS. Environmental policy of Guyana, nd. 8p. Photocopy. (GNRA)


A brief paper that looks at the role of public awareness in the development process, strategies for environmental awareness and education, introducing environmental science into the formal education system, training and education in occupational safety and health, and using public campaigning and development support communication for development and the environment.


BYNOE, P. A seminar presentation on "Man and the Environment". Unpublished, nd. 8p. Typescript. (GAHEF)


On geomorphological regions, population, settlements, economy, industries, land management, tourism and the environment, inter alia.


EDEN, M.J. The savanna ecosystem - Northern Rupununi, British Guiana. Savanna Research Series No. 1, McGill University Savanna Research Project, Department of Geography, July, 1964. 216p. (UG)


G.A.H.E.F. An environmental profile of Guyana and a programme for environmental management. Guyana Agency for Health Sciences Education, Environment and Food Policy, Georgetown, Guyana, nd. 70p. (GNRA)

A conference working document, that presents general information on the geography, climate, soils, topography, and economic structure of Guyana. Also deals with the country's natural resources
(water, agricultural, marine and fisheries, forests, energy, mineral), human settlements, legislation, policy and institutional framework, proposed action programme for the environment, and support measures such as education. Contains three appendices (which, in part, map the locations of endangered species of Guyana), and seven annexes.


Provides general information on geography and climate, topography, soil characteristics and economic structure. Looks at the resources of the country - water, agricultural, marine and fisheries, forests, energy and mineral. Covers human settlements, legislative framework, institutional framework, a proposed plan of action for environmental management and assessment., environmental policy and legislation, and supporting measures (institutions, environmental education and public awareness). Appendices 2 to 4 are maps locating endangered species of mammals, birds, fish and reptiles of Guyana.


GUYANA ECOLOGICAL SOCIETY. Caribbean Conservation Association Conference 29th September-2nd October, 1976. 51p. (NL)

HILTY, S.L. Draft Environmental Profile of Guyana. Arid Lands Information Centre, Office for Arid Lands Studies, University of Arizona, Tucson, and US-MAB Secretariat, Washington, D.C., 1982. 113p, including 5 append., 18 fig. and 19 tables. (GAHEF)

Presents geographical features, climate, population, land use, environmental resources (geology, mineral and soil resources, water resources, energy resources, vegetation, fauna and conservation), environmental problems, problems of land use and management., environmental pollution and environmental policy. Appendices are on mammals, reptiles, selected bibliography and an abstract of articles on two hydro projects.

1 table. (GFC)


Looks at climate and the hydrological resources of watersheds, hydropower, the forest resource of watersheds, wildlife, and archaeological sites of Guyana. Contains a five-page Executive Summary, a general conclusion, an appendix of three maps, and four other appendices.

McLENNAN, P. Rural women, their work and their environment. Seminar handout, nd. 5p. (GAHEF)


A brief paper that looks at water as a resource, the water budget of Guyana, and human development/environmental issues related to water resources. Contains four statistical tables.


A report on the proceedings of the seminar in which several chapters relate to Guyana. These are on agricultural development and the environment, pesticide management in Guyana, fertilizer use and the environment, the Upper Demerara River forestry project, mineral exploitation with special reference to the Shell Beach project, physical environmental effects of the strip-mining of bauxite within the Linden area, and edible oil wastes and the environment with special reference to the oil palm industry.


Includes draft environmental policy and action plan, draft environmental policy of Guyana, draft environmental protection act, and draft environmental action plan, inter alia.

POMPEY, F. No title. (But relates to draft environmental legislation), unpublished, nd. 3p, typescript. (GAHEF)


FISHERIES


CREMER, M.C. Recommendations for commercial fish production at Blairmont sugarcane estate, Guyana. International Centre for Aquaculture, Department of Fisheries and Allied Aquaculture, Auburn University, 1981. 29p. Photocopy. (UG)


FISHERIES DIVISION. Review of the fisheries of British Guiana in 1958. Bulletin No. 1 of the Fisheries Division of the Department of Agriculture, British Guiana, nd. 52p. (NL)

FISHERIES DIVISION. The trawl survey carried out by the R/V "Cape St. Mary" off British Guiana 1957-59. Bulletin No. 2 of the Fisheries Division of the Department of Agriculture, British Guiana, nd. 53p. (NL)

FISHERIES DIVISION. Onverwagt Brackish Water Fish Culture Station, British Guiana. Bulletin No. 3 of the Fisheries Division of the Department of Agriculture, British Guiana, 1960. 53p. (UG)

FISHERIES DIVISION. Notes on the fishes found in the Georgetown fish markets and their seasonal fluctuations. Bulletin No. 4 of the Fisheries Division of the Department of Agriculture, British Guiana, 1962. 31p, 17 plates, illustr., map. (NL)


WHITELEATHER, R.T. and BROWN, H.H. *A small otter trawl*, ?, Trinidad, 1944. 11p. (UG)

FORESTRY


ANONYMOUS. Forestry in British Guiana. In: Symposium on the three Guianas, June 14-18, 1954, Amsterdam, p76-82. (UG)

ANONYMOUS. Interim pruning and thinning schedules (for) P. caribaea var. hondurensis and P. elliottii. Technical Note No. 7., 1969. 3p. Typescript. (GFC)


ANONYMOUS. Great Falls Forestry Development Project. Revised project concept. Unpublished, 1976. 2p. 3 annexes. (GFC)

ANONYMOUS. Pulp samples from hardwoods grown in Guyana. Tropical Products Institute, London, 1976. 20 samples. (GNRA)

ANONYMOUS. Greenheart The Exceptional Construction Timber. ?. nd. 38p. (GNRA)

ANONYMOUS. The Pulping Characteristics of Six Hardwoods from Guyana. Tropical Products Institute, London, nd. 58p. (GNRA)

ANONYMOUS. **British Guiana greenheart. Willems Timber and Trading Company Limited, Georgetown, Guyana, nd. 35p. (UG)**

This document looks at the wood properties of greenheart as well as gives a description of thirty selected Guyanese timbers. Contains an index of botanical names.


ANONYMOUS. **An analysis of enumeration data to determine a method for sub-dividing large forest types useful for management planning. Management Planning, Appendix 1. 5p. Photocopy of typescript, tables. (GFC)**

ANONYMOUS. **Anarika forest inventory. Unpublished, nd. 18p. Mimeo. (GFC)**


ANONYMOUS. **Edinburgh Centre for Tropical Forestry/Barama Company Limited sample plot programme. Unpublished, nd. 10p. (GFSU)**

ANONYMOUS. **Policy for utilising the forest resources. Unpublished, nd. 11p. Mimeo. (GFC)**

ANONYMOUS. **Brief information on Guyana’s forests. Unpublished, nd. 6p, incl. 2 tables. Typescript. (GFC)**


Greenheart seedlings showed increases in leaf area ratio, leaf weight ratio, decreases in specific leaf area (SLA), length of the first internode, and no differences in dry matter distribution between root and shoot. Except for SLA, the other morphological responses of seedlings to different light intensities are in contradiction to what is expected for a species with a shade tolerant strategy. Based on the findings, survival of greenheart seedlings in full shade is expected to be low, and the species will not be able to maintain a seedling bank. Greenheart is expected to need a gap in an early stage of its life cycle. It is generally concluded that the species is more a shade avoiding than a shade tolerant species.


Reports on the forestry sector (including watershed management, agroforestry, and reforestation), wildlife conservation and national parks, and the forest industries sector. Includes fourteen tables, and nine annexes (which include seven maps).


A brief report that aims to summarise the "assault" on the interior forests of Guyana and the effects of these developments on the Amerindians who make up the majority of the population in the sparsely populated interior. Looks at logging, forest policy, the road from Brazil, Amerindians of Guyana, Amerindian rights in international law, international norms regarding "natural forest logging", and protected areas. Offers a conclusion and some recommendations. Contains four maps, and a table on forest concessions in Guyana.


Based on a study carried out in the Waraputa Compartment of the Mabura Hill Concession of DWL benefiting from the Pilot Inventory carried out earlier by inventory consultant J. Slavicky. The population structure of greenheart shows a smaller number of individuals in the diameter classes from 20 to 50 cm than in the higher diameter classes. The share of greenheart was reduced by 49% as a result of logging. Damage increased with higher logging intensities. Other commercially interesting the species were only incidentally harvested. As a result of the slow growth of greenheart and the high logging intensity of the species its "share" might diminish under the present logging system. Too little is known at present to give guidelines for sustainable forest management but in the meantime it would be advisable to reduce the logging intensity and/or create greater variation range of species logged.

DANKS, F.S. Notes on British Guiana timbers. Forest Department, Georgetown 1945. 28p. Pamphlet. (GFC)


DIXON, R.M. Report to the Canadian International Development Agency on a programme for technical assistance in forest management and advisory services to the Guyana Forestry Commission. Consultant's report, 1981. 279p. (GFC)


With Executive Summary, Introduction and nine Annexes. The introduction deals with a description of forest policy and education, the Guyana education system (including forest education and research), forest-living people and non-timber forest products; and the short term institutional and human resources action plan. The annexes deal with figures and statistical tables and, Amerindian population by Region, among others. (GNRA)


Briefly describes the current situation with regards to the fuelwood resource, policy and legislation, institutions and human resources, the national energy balance, absence of a management plan, and fuelwood production and consumption. Also looks at charcoal, logging residues and sawmill wastes, markets and prices, research and technology. Outlines the scope for increased fuelwood production and consumption, including energy plantations and energy conversion of woody biomass. The short term fuelwood and energy action plan is based on wood-fired power plants, large scale energy plantation, multiple-use tree plantation, densification of sawmill wastes, and fuelwood end-use efficiency. Contains fifteen statistical tables and a flow chart.

ELSINGA, M. and ROBERTS, B. "Greenheart, sixty centimetres, straight and solid!" Inventory activities in Guyana. Report based on work done at Tropenbos Mabura Hill site, 1993. 40p, 11 appendices. (UG)


On the botany, ecology, silviculture, properties and utilization of the species.


FANSHAWE, D.B. Forest types of British Guiana. Caribbean Forester, Vol. 15, Nos. 3 and 4, July-October 1954, p73-111. (GFC)

FANSHAWE, D.B. Wallaba strip fellings. A correspondence responding to "Experimental strip fellings in wallaba forest" (anon. 1939. 2p). Typescript, 1940. 3p. (GFC)


FORBES, G.P.A. The use of field characters in the identification of tropical forest trees, with special reference to Guyana. Forest Department, Guyana, 1967. 9p. (GFC)


FOREST DEPARTMENT OF BRITISH GUIANA. Forest Resources, nd. 17p. Photocopy of typescript. (UG)

FOREST PRODUCTS ASSOCIATION. Combined memoranda on timber industry. Unpublished, nd. 28p. (GFC)

GOVERNMENT OF GUYANA. Investing in Guyana. Forestry sector, nd. 14p. Pamphlet. (G)


Prepared at the request of the Ministry of Education, the document aims to increase student awareness about the country’s forest resource and the career opportunities in the field. The document provides a brief description of the forest resource base, functions of the forest resource, forest industries, administration, and economic importance. It further looks at environmental considerations, identifies forestry sector careers and training opportunities in Guyana, and provides a short glossary of terminology.


The document justifies the Centre on a number of planned outputs from it, looks at its design and development, organizational and staffing requirements, costs, and proposed contribution under the Interim Forestry Project. Contains six maps, eleven tables, two charts, and six diagrams.


There is a serious shortage of qualified professional, technical and vocational personnel in Guyana which is severely constraining development within the forestry sector. At the same time the sector occupies a low public profile and there is a negative image of careers in the sector. The document is to draft a strategy to remedy these. It reviews the forestry sector, education and training in forestry, employment and training needs within the sector, and proposes a national strategy for awareness, education and training. It recommends the establishment of a National Forestry Advisory Council to provide advice, develop programmes and coordinate the sector's human resource activities at a national level.


Directed towards the understanding of managerial issues related to the planning and execution of forest inventory exercises within the national forest inventory system of Guyana. It outlines the basic elements in designing forest inventory projects (objectives, scope, accuracy, sampling, data flow), planning and executing field activities as done in the national forest inventory system, and management of prism cruise, tree volume and output data. Includes four appendices.


The purpose of the document is to examine the cost structure of the sawmilling industry in Guyana and the impact on the financial viability of the industry of changes in royalty rates and major variables such as product revenue. A hypothetical sawmill model was developed based on the establishment of a new mill capable of efficiently manufacturing sawnwood to international standards. The internal rate of return of the hypothetical mill, a key measure of financial viability, was used to assess the impact of changes in royalty rates and other variables.

Changes in royalty rates had very limited impact on financial viability. However, financial viability was very sensitive to small changes in product revenue, fairly sensitive to changes in capital costs, and less sensitive to increases in manufacturing costs and the cost of sawnlogs. Contains fifteen tables, one graph, and five appendices.

GUYANA/CANADA INTERIM FORESTRY PROJECT. Species Provenance trials established at Mon Repos, Laluni and Wiruni. Project Document No. 9, 1994. 13p. 5 append. (GNRA)


This manual is part contribution to the national forest inventory system of Guyana by the Interim Forestry Project and is the accompanying document to document #6. It is intended to provide junior forestry technicians and field crew members with operating instructions for use in forest inventory and mensuration, and associated field and office procedures. It describes field procedures for the prism cruise using point sampling, field procedures for tree measurements and is accompanied by figures illustrating these procedures. Contains a section on forest inventory equipment and their use namely: the compass, the clinometer, the 50-metre chain, the diameter tape, the 30-metre measuring tape, the prism, and the relaskop. This section, likewise, is accompanied by a number of related figures.


Seeks to present a series of guidelines for the "natural" forests of Guyana, drawing largely on the findings of research programmes in Guyana and on observations made during the course of the Interim Forestry Project. The management guidelines cover: (i) the adherence of guidelines under the Forest Policy and Regulations (ii) the role of general management guidelines (iii) the use of guidelines as a component of forest management plans (iv) the impact of guidelines on forest operations, and (v) the structuring of guidelines for these forests. It contains background information, a summary of the present situation in Guyana, a main chapter covering the preceding five topics and a concluding summary. Also has four appendices with supporting reference material.

GUYANA FORESTRY COMMISSION. Manual of forest management planning requirements for Guyana. GFC, 1980. 41p. (GFC)


Aimed at ensuring the effective administration and management of the State Forest, thereby ensuring the sustainable utilization of the resource base "while maintaining the ecological balance". It discusses various levels of inventory, inventory design, protected areas (for reasons of environment, conservation of biodiversity, or unharvestable areas), roads, silviculture, harvesting, environmental protection, and monitoring. Contains two appendices on forest types, and harvestable species, respectively.

GUYANA FORESTRY COMMISSION. Timber Sales Agreement. Unpublished, nd, 5p. (GNRA)

A sample document of the legal instrument used for Timber Sales Agreements in Guyana.

GUYANA FORESTRY COMMISSION. Forest valuation survey of the Puruni area, nd. 5p, 9 append. Typescript. (GFC)

GUYANA FORESTRY COMMISSION. Guyana woods: 21 species. Marketing Unit, GFC, ?. 27p. (GFSU)

GUYANA FORESTRY COMMISSION. Guyana woods: 30 species. GFC, Georgetown, nd. 13p, mimeo. (GFSU)


Provides a general review of the forestry sector in Guyana as well as land use and natural resources. Contains maps on vegetation and Amerindian Reserves and the state forest. Additionally, it describes the policy framework for the NFAP, and thirty-seven projects that constitute the NFAP. The ten accompanying working papers of the NFAP are listed in the document.


Examines the geography of Guyana, forest cover and forest types, the role of Guyanese forests in providing goods, services and values, forestry in Guyana, forest policy and administration, and takes a brief look at land use and environmental policy. It also looks at training and education, research, and international cooperation. In addition, it looks at forest management in Guyana, deals at length with the proposal for a forest inventory study, complementary project activities such as training, growth and yield studies, and addressing the problems of the white sands area. Contains twelve annexes, including twelve maps, three tables and an organizational chart of the Forestry Commission.


GUYANA TIMBER EXPORT BOARD. Hout 73. General Information and technical data on timbers of Guyana. Guyana Timber Export Board, Georgetown, Guyana, nd. 35p. (NL)
GUYANA TIMBER EXPORT BOARD. Timber species of Guyana. The Board, Georgetown, nd. 15p. Colour plates. (UG)

GUYANA TIMBERS LIMITED. Demerara Greenheart stands alone. nd. 12p. Pamphlet. (UG)


A fairly extensive review which looks at the current status of, constraints to the development of, development objective requirements of, and suggests critical development projects needing funding for, the following sub-sectors of the forest industry: small-scale logging, small-scale sawmilling, large-scale logging and sawmilling and, other wood-using industries. Contains eleven tables and three appendices.


HODGE, L.P. Some of the construction wood of British Guiana. Timehri, Vol. 5, No. 22 (third series), 1918, p56-63. (UG)

HOEFSLOOT, F. The influence of logging activities on topsoil properties of Lixosols under tropical rainforest. Tropenbos Foundation/Utrecht University, the Netherlands, 1991. 33p, 10 append. (GFC)

Based on a study done at Mabura Hill, no negative effects were measured at the selectively logged plot, except for a slight decrease in litter cover. The effects of total clearance were significant; litter was removed, a crust had formed and the topsoil was compacted which resulted in a strong decrease in infiltration.


Gives a background of the forestry sector and the related local agencies and on-going international assistance. It also evaluates resource management, silviculture, and forest products and forest industries. It looks at the organization of the Forestry Commission, financial prospects, and makes some conclusions and some recommendations. Contains three tables and a proposed chart of the Guyana Forestry Commission.

Looks at the various costs of various projects of the NFAP as well as it takes a general look at the possible benefits and beneficiaries of the NFAP. Also looks at linkages between proposed projects and issues of feasibility. Contains thirteen tables covering wide ranging issues of the NFAP.


Summarises forestry in relation to Guyana’s development objectives and strategies, constraints which limit development, the economic contribution of timber and wood products to national income, exports and imports, employment and government revenue. Discusses macro-economic and sectoral policies for sound development of forest-based sector in Guyana. Also provides twenty-two tables with statistics relating to the sector.

Leaflet. British Guiana timbers, Leaflets Nos. 1-13 (crabwood, greenheart, wallaba, purpleheart, mora, cedar, determa, kabukalli, locust, brown silverballi, kereti silverballi, white silverballi, yellow silverballi). Forest Department, various dates. (UG)


34
MANN, A. Report on the forestry sector. Institute of Applied Science and Technology, Georgetown, nd. 31p. (GFC)


DE MILDE, R. Assessment of hidden defect on standing trees during inventory work. UNDP/FAO, Georgetown, 1970. 32p, 8 black and white plates. (GFC)


MINISTRY OF AGRICULTURE AND NATURAL RESOURCES. Timbers of Guyana. The Ministry, Georgetown, nd. 4p. (UG)


MOOTOO, P.H. An investigation into the Proposal to set up a modern Saw Milling Operation in the New Amsterdam Area. Guyana Development Corporation, nd. 39p. (GNRA)


PALMER, D. An assessment of marketing potentials of Forest Products of Guyana, South America. A report to the Guyana Development Corporation, 1969. 75p. (GNRA)


PAUL, D.K. The potential for the establishment of long-fibre pulp plantations in Guyana. Logging and mechanical forest industries demonstration and training, Phase I: Guyana. UNDP/FAO, Georgetown, 1977. 27p. 5 append., 4 graphs, 1 map, recommendations. (GFC)


With four chapters. The first of these deals with the timber resource of Guyana. The second chapter gives a profile of Guyana covering history, people, land, the political climate, and the specifics of Guyana. Chapter three is a business plan for a timber harvest operation with financial analysis and two options of the start up cost and scope of initial goals. The final chapter is an international timber market study.


PERSAUD, C. and STEWART, M. Forestry and land use (draft). Tropical Forestry Action Plan. 20p. 3 maps. (GFC)

PERSAUD, C.A. A programme for re-foresting heavily exploited wallaba/dakama forests on the Soesdyke/Linden Highway. Ministry of Information, Georgetown, 1981. 23p. (NL)


PRINS, H. Effects of different light climates on growth and partitioning of woody pioneer, canopy and understorey species in Guyana. Effects of different light intensities and its components on survival, the RGR and its components, the biomass allocation, and leaf dynamics of two light demanding species, two gap-dependent species and two gap-independent species. Utrecht University/Tropenbos, 1992. 43p. (GFC)

RAAIMAKERS, D. Growth of tropical rain forest trees as dependent on phosphorus supply. Tree saplings differing in regeneration strategy and their adaptations to a low phosphorus environment in Guyana. Tropenbos Series 11, the Tropenbos Foundation, Holland, 1994. 97p. (GFC)


Provides a description of the coastal, savannah, and forest ecosystems represented in Guyana. Also describes the present situation as regards policy and legislation, institutions and human resources, research, protected areas, environmental impact assessment, and non-governmental organizations. Describes also the state of habitats and wildlife populations and deals with the economic significance of renewable natural resources in Guyana (domestic and export value, living fish, non-timber resources, tourism, and research). Also outlines the development objectives for Guyana's forest ecosystems, offers a development plan for their conservation (protected areas, training in natural resources management, institutional development, legislation and policy, non-governmental organizations, research, natural resources management by local people, environmental education, and financing conservation in Guyana).

Contains seven maps on Guyana, four tables/pie charts, six appendices, and two tables on wildlife export and value in Guyana.


Report. Committee of the Empire Forestry Conference in Canada appointed to enquire into the present forestry situation in British Guiana, and to make proposals for improvements. Combined Court. First Special Session, 1924. (GFC)


SCHULTZ, C.D. Market opportunities for forest products from Guyana in the United States of America, Trinidad & Tobago and Barbados. C.D. Schultz & Company Limited, Vancouver, 1981. 54p. 2 append. (GFC)


SEFORVEN. Autecología de la especie : Saman (Pithecellobium saman (Jack.) Bentif. Cartilla No. 6, SEFORVEN, Ministerio del Ambiente y de los Recursos Renovables, Caracas, 1992. 8p. Pamphlet, illustr. (GAHEF)
SEFORVEN. Autecologia de la especie: Carapa (Carapa guianensis Aubl.) Cartilla No. 7. SEFORVEN, Ministerio del Ambiente y de los Recursos Naturales Renovables, Caracas, 1992. 8p. Pamphlet, illustr. (GAHEF)


The forest resource of Guyana, though dense and extensive, is not as rich a base for supporting a large export trade in forest products as many may believe. Reviews the resource base and resource utilization in the extensive forest areas of Guyana. Also looks at trends, characteristics, prices, and organization of the local and export markets. Further, deals with market intelligence, promotion, grading and certification. Also, discusses the goals and needs of product development and marketing and offers a product development and marketing development plan. The appendix contains a project profile for the reorganization and strengthening of the Guyana Forestry Commission Marketing Unit.


SIMON, H.G. A Second Look at the Forestry Operation of the Matthews’ Ridge Area. Forest Department, Georgetown, Guyana, not dated. 22p. (GNRA)

SLICK, F. Dispersal strategies in the rainforest of Guyana with descriptions and drawings of the seedlings of many native plant species. Utrecht University, Holland, 1994. 31p. 3 append. (GFC)


TER STEEGE, H. TROPENBOS Programme Guyana: Scientific Results 1989-1993 and implications for forest management. The Tropenbos Foundation, the Netherlands, 1993. 61p. (GNRA)


Aimed at documenting the "most serious findings in regard to inadequacies of Guyana's instruments of legislation and policy as they impede the contribution made by the forest resources to national development." It is a non-exhaustive paper and lists five measures to address weaknesses in policy and legislation in forestry.


Provides a description of the timber resources of Guyana, timber exploitation, forest administration, the level of forest management practiced and, economic impacts of current exploitation at the local, national and global levels. Also identifies constraints to development of the sector and its development requirements. Provides maps of the vegetation and permanent forest estate of Guyana. Contains twelve tables on production, timber uses, tree species and, land classification.


Gives the characteristics and resource values of forest land in Guyana according to five bio-physical divisions of the country and lands used by forest dwelling people. Characterizes forest lands important for the production of industrial timber and timber products, minor forest products, lands with agro-forestry potential, lands with important geological and cultural features, lands with tourism and recreation potentials, and lands with important hydrological functions. Also identifies lands of significant agricultural and mining potential, and reviews the existing mechanisms and the administration of forest land use in Guyana. Contains six maps and three tables on Guyana.


SWELLEN GREB, E.J.G. On the value of large scale aerial photographs in British Guiana forestry. The Empire Forestry Review, Vol. 38, No. 95, March 1959, p54-64. (GFC)


Proposes the establishment of a centre that will establish a nursery, an arboretum, lowland and savannah trials, develop improved management practices on white sand, and develop applied silviculture practices for the natural rain forest.

TROOP, R. S. Colonial forest administration. Oxford University Press, 1940. p407-410 on British Guiana. (UG)


UDIT, B. Forest valuation survey of the Barima watershed from Eclipse Falls to the source. Report prepared for the Eclipse Falls Hydropower Project Secretariat, nd. 15p. (GFC)

UPPER CORENTYNE SAWMILLERS ASSOCIATION. The Exploitation of "known", "lesser known" and/or "lesser used" Forest Products in the Corentyne River. Upper Corentyne Sawmillers Association. Report submitted to the Ministry of Energy and Natural Resources, 1980. 19p. (GNRA)

A brief report which highlights some of the problems of the logging industry in the area, the need for constructing two main forest roads in the upper Corentyne area, and the formation of the Corentyne Logging Consortium. Also contains a report on the road alignment survey of the Upper Corentyne River.


VIEIRA, V.S. Procurement of machinery and equipment for increase(d) production in the forestry sector. Task Force No. 17, 1974. 37p. Append. (GFC)


HYDROLOGY/CLIMATE


EARNEST, N. A soil hydrological study of the Mabura Hill area. Free University, Amsterdam/Tropenbos, 1991. 39p. 11 append (incl. 3 maps). (GFC)

FRASER, D. The application of rainfall confidence limits to agricultural land use planning. Hydrometeorological Service, Georgetown, 1981. 31p. (NL)


GIBBON, U.P. Water resources management in Guyana. United Nations inter-regional seminar on current issues of water resources' administration, New Delhi, 1971. 26p. (NL)


HYDROMETEOROLOGICAL SERVICE. Annual Climatological Data Summary, 1971. Ministry of Works and Communications, Georgetown, Guyana, nd. 125p. (GNRA)


HYDROMETEOROLOGICAL SERVICE. **Annual Climatological Data Summary, 1974.** Ministry of Works and Transport (Works), Georgetown, Guyana, 1980. 137p. (GNRA)

HYDROMETEOROLOGICAL SERVICE. **Compilation of Surface Water Data to December 31, 1965.** Ministry of Works and Transport (Works), 1977. 264p. (GNRA)

HYDROMETEOROLOGICAL SERVICE. **Annual surface water data 1966.** The Service, Georgetown, 1976. 43p. (NL)


HYDROMETEOROLOGICAL SERVICE. **Annual Surface Water Data, 1968.** The Service, Georgetown, 1979. 45p. (NL)

HYDROMETEOROLOGICAL SERVICE. **Records of surface water quality 1966-1972.** The Service, Georgetown, nd. 34p. (GFC)

HYDROMETEOROLOGICAL SERVICE. **Reference Index of Rainfall Stations for which Daily Data Are Available, and Years in Which Daily Data are Available to 1970.** Ministry of Works and Communications, Georgetown, Guyana, 1976. 43p. (GNRA)

HYDROMETEOROLOGICAL SERVICE. **Directory of Hydrometric stations and years for which data are available to December 1978.** Hydrometeorological Service, Georgetown, nd. 26p. Tables, maps. (GFC)

HYDROMETEOROLOGICAL SERVICE. **Annual Surface Water Data, Guyana, 1969.** Ministry of Works and Transport (Works), Georgetown, Guyana, 1980. 44p. (GNRA)

HYDROMETEOROLOGICAL SERVICE. **Annual Surface Water Data, Guyana, 1970.** Ministry of Works and Transport (Works), Georgetown, Guyana, 1981. 41p. (GNRA)

HYDROMETEOROLOGICAL SERVICE. **Annual Surface Water Data, Guyana, 1971.** Ministry of Works and Transport (Works), Georgetown, Guyana, 1982. 45p. (GNRA)

HYDROMETEOROLOGICAL SERVICE. **Annual Surface Water Data, Guyana, 1973.** Ministry of Works and Transport (Works), Georgetown, Guyana, 1990. 58p. (GNRA)

HYDROMETEOROLOGICAL SERVICE. **Annual Surface Water Data, Guyana, 1974.** Ministry of Works and Transport (Works), Georgetown, Guyana, 1992. 58p. (GNRA)


OUDIT, B. Country report, Guyana. Training course on Watershed Planning and Management, ?., nd. 4p. Typescript. (GFC)


RAMSAHOYE, L.E. Ground water potential of the coastal areas of British Guiana. Proceedings of Fifth Inter-Guiana Conference, nd, p303-308. Photocopy. (UG)


TRANSPORT AND HARBOURS DEPARTMENT. Guyana tide tables and list of lights for 1987. Transport and Harbours Department, Guyana, nd. 34p. Booklet. (GFC)
IWOKRAMA


Describes the site of the of what is now called the Iwokrama International Rainforest Programme in the aspects of its physical profile, forests and vegetation, fauna, human and social profile, and research, education and environmental aspects. Contains three maps and three informative annexes on tree vegetation, the legal framework for selected areas, and wild fauna of the project area, respectively.


GUYANA NATURAL RESOURCES AGENCY. Executive Summary: Phase 1, Site Resources Survey, The Commonwealth and Government of Guyana Iwokrama Rain Forest Programme, nd. 17p. (GNRA)

Gives a brief introduction of the reserve, gives the objectives of the site resources survey, offers a description of the reserve, and gives the methodology of the survey. Also provides the results and makes recommendations. Contains two maps of the area.


A more detailed report on the site resources survey than those listed above.
LAND USE

ANONYMOUS. Soesdyke/Linden Land Development Project. Unpublished, nd. 13p. 4 append., carbon copy. (GFC)


RAMSAHOYE, L.E. Proposed plan for the utilization of the white sand belt for agricultural purposes, nd. 7p. Typescript. (UG)


A brief document that presents an overview of natural regions of Guyana, land use and natural resources, and projects in the area of land use in Guyana. Contains seven maps.

MANGROVES AND COASTAL ZONE


PASTAKIA, C.M.R. A preliminary report of the mangroves of Guyana. Final report. The European Community, nd. 32p. 2 append, black and white plates. (GFC)

PASTAKIA, C.M.R. A preliminary study of the mangroves of Guyana. Baseline maps. The European Union, nd. 75 maps. (GFC)

SCOTT, P.J.B. Toward a coastal zone management plan for Guyana. Discussion paper prepared for the special meeting of government ministries and agencies responsible for all aspects of coastal management, March, 1992. 15p. 1 organizational chart. (GAHEF)


NATURAL HISTORY

ANONYMOUS. Georgetown Botanic Gardens illustrated guide. Department of Agriculture, British Guiana, 1934. 38p. (NL)

ANONYMOUS. Guyana Natural History Expedition Jan 4-16, 1967. 32p. Mimeo. (UG)


Baldwin, R. The Rupununi record. The Daily Argosy, 1946. 57p. (NL)


MYERS, J.G. Observations on a journey from the mouth of the Amazon to Mt. Roraima and down the cattle trail to Georgetown. Agricultural Journal of British Guiana 5:2:p86-100; June 1934. (UG)

RAYNER, T.C. A visit to the Kaieteur Falls. Unpublished, nd. 6p. (NL)


NATURAL RESOURCES

ANONYMOUS. Natural resources. In: The British Guiana handbook 1922, Francis, W. and Mullin, J. (eds), nd. p68-146. (NL)

ANONYMOUS. British Guiana. The British Empire Exhibition, Wembley, 1924. 103p. (NL)

BANGOR. **Expedition to Guyana 1963.** University College of North Wales, Bangor, 1964. 37p. 4 plates, mimeo. (GFC)


INTERIOR DEVELOPMENT COMMITTEE OF BRITISH GUIANA. **Handbook of Natural Resources of British Guiana.** The "Daily Chronicle" Ltd., Georgetown, Guyana, 1946. 243p. (GFC)

Examines the physical characteristics, climate, mineral, forest, soil, water, wildlife and "power" resources of the country. Also has notes on problems affecting the industrialisation of the interior of British Guiana. Contains numerous maps, tables and figures. (Also Index to Handbook of Natural Resources of British Guiana by V. Roth. The "Daily Chronicle", Ltd. Georgetown, 1947. 11p. (GFC)).


**NON-TIMBER FOREST PRODUCTS**


ANONYMOUS. **Minor forest products. Bulletin No. 2. Clusia - Kufa.** Typescript and photocopy (in folder). nd. (GFC)

Provides botanical information on various species of *Clusia.*

ANONYMOUS. **Cambridge expedition to Guyana: a report.** Unpublished, 1971. 60p. (UG)

The report deals with the ethno-medical survey, an outline of the material culture of the Amerindians and, entomological work conducted in the North-West District, mainly at Baramita.

ANONYMOUS. **Extraction of forest plants for medicinal and essential oils.** Unpublished, nd. 1p. Typescript. (GFC)

Lists uses of eight local plants.

ANONYMOUS. **Medicinal plants. Quassia - Simarubaceae.** Unpublished, nd. 1p (other pages missing?). Typescript. (GFC)


GUYANA FORESTRY COMMISSION. *An Introduction to the Balata Industry in Guyana (Draft).* 1985. 16p. Typescript. (GNRA)

Looks at the bulletwood tree and its distribution, balata the product, equipment used in balata extraction and technical aspects of the process of "bleeding", and the organization of the industry, among others. Contains a very short glossary and two appendices.


RODWAY, J. *On some of the domestic medicines used in Guiana.* Timehri, Vol. 4, No. 4, 1885, p294-300. (UG)

RODWAY, J. *Domestic medicines, Devil-doer.* Timehri, Vol. 4, No. 21 (third series), 1917, p295. (UG)

STOCKDALE, F.A. The indigenous "rubber" trees in British Guiana. Timehri, Vol. 1, No. 18 (third series), 1911, p21-32. (UG)

WELCH, I.A. and WALDRON, M.B. Rubber cultivation in Guyana. Forest Department, Guyana, 1976. 33p. 1 colour map, carbon copy. (GFC)


PHYSICAL GEOGRAPHY


VANN, J.H. The physical geography of the lower coastal plain of the Guiana coast. Department of Geography and Anthropology, Louisiana State University, 1959. 91p. Photocopy, 4 maps in pocket. (UG)


POLICY AND LEGISLATION

ANONYMOUS. Guyana Forest Policy. ?, nd. 13p. (GFC)


Guyana. Regulations made under The Forestry Act (Cap. 67:01). No.2 of 1977. 7p. (GFC)


GUYANA FORESTRY COMMISSION. Contract for the sale of standing trees (Contract) and Standard conditions of sale of standing trees, nd. 7p. (GFC)

PROTECTED AREAS

ANONYMOUS. Project proposal for the development of a management plan for Kaieteur National Park, Guyana. 14p. (GAHEF)


A profile of natural resources management, conservation, protected areas and related institutions and legislation in Guyana. Needs updating and lacks information and locations of Forest Reserves and Amerindian Reserves.


Lists some constraints to the establishment of a system of protected areas, describes the current Park and its administration, and describes the proposed expansion of the Park, including Amerindian settlements, proposed zones, and management programmes. Contains three maps.


SOILS


ANONYMOUS. Soil management.?, nd, 43p. Mimeo. (UG)

BLEACKEY, D and KHAN, E.J.A. A note on the white sand formation of British Guiana. Reprint from "Proceedings of the Fifth Inter-Guiana Geological Conference, Georgetown, October 28 - November 6, 1959. p169-175. (GFC)


The report consists of two parts. Part I is on soil chemistry and toxic chemical research. It is accompanied by four appendices which are papers on Analytical Procedures; Studies in the Improvement of "Problem" Soils in British Guiana; A Study of Aluminium in Rice Soils and; Salt, Acidity and Base Status in the Coastal Clays of British Guiana, respectively. Part II is on soil management and is accompanied by three papers on Some Notes on Climatic Factors Affecting Agriculture in British Guiana; Description of Tabela Sand and Kasarama Loamy Sand and Their Related Chemical Data and; Fertilizer Experiments, as appendices.


Both parts offer a reconnaissance soil survey of northeast British Guiana, northwest British Guiana, the Pakaraima Mountains, southwest British Guiana and, southeast British Guiana. Part I offers
introduction, land capability classification, and description of mapping units for each area. Par II describes the general physiography, geomorphology and geology, and describes the great soil groups in each area.


FORRESTER, M. and PAUL, S. Soil survey, semi-detailed: Kalcoon (Bartica) area. Central Agricultural Station, Mon Repos, 1977. 31p. 2 maps in back cover. (GFC)


HUBBARD, E.A. Soil sampling and soil fertility analysis. Central Agricultural Station, Mon Repos, 1973. 9p. (NL)


Loxton, R.F. et al. Soil and land-use surveys No. 2, British Guiana. The Rupununi savannas. Imperial College of Tropical Agriculture, Regional Research Centre for the British Caribbean, Trinidad, 1958. 33p. 3 maps in back cover. (UG)


WILDLIFE


ALLSOPP, W.H.L. Arapaima - its manners, morals and measurements - "the giant fish of South America". Timehri, No. 37, 1958, p89-98. (UG)


ALLSOPP, W.H.L. Putting manatees to work. New Scientist (No. 263), 30 November 1961, p548-549. (UG)

ALLSOPP, H. Putting manatees to work. J. Br. Guiana Museum and Zoo, No. 34, 1962, p33-35. (UG)

BALDWIN, R. Wildlife and me. Timehri, No. 39, 1960, p71-78. (UG)


BODKIN, G.E. A fishing trip on the upper waters of the Mazaruni river. Timehri, Vol. 5, No. 22 (third series), 1918, p64-73. (UG)


GIRDHARI. The rearing of mammals for laboratory purposes. An occasional paper for students and teachers. Department of Biology, University of Guyana, 1977. 14p. Pamphlet. (UG)

GORZULA ET AL. Crocodilian Resources in Guyana, Parts I & II. The CITES Secretariat, 1990. 212p. (GNRA)

A report consisting of three sections: Part I, a Supplement to Part I, and Part II. Part I is an assessment of the distribution, status and management potential of the crocodile species of Guyana. It also includes population structure where possible and provides a broad overview of their biology. It also contains six appendices, a number of maps, tables and figures, and a Supplement on the location, history, geography and socio-economics of Guyana. Part II contains recommendations for conservation and management and contains an annex on the CITES approved tagging system.


HALL, A. Catalogue of the Lepidoptera Rhopalocera (Butterflies) of British Guiana. Entomological Bulletin, No. 3, British Guiana Department of Agriculture, Georgetown, 1940. 86p. (UG)


HOWE, W.N. and SINGH, R.S. Survey of the birds of Greater Georgetown. Timehri, No. 39., 1960, p79-100. (UG)


LLOYD, C.A. Some Guiana parrots. Timehri, Vol. 9, No.14 (new series), 1895, p270-278. (UG)

McCONNELL, R. *Introduction to the fish fauna of British Guiana.* Timehri, No. 37, 1958, p25-35. (UG)


POONAI, N.O. *Notes on the birds of British Guiana (for field identification).* Unpublished, August 1962, 121p. Photocopy. (UG)


QUELCH, J.J. *A new rat from British Guiana.* Timehri, Vol. 1, No. 6 (new series), 1887, p122-123. (UG)

QUELCH, J.J. *Cosmopolitan, Guiana bird.* Timehri, Vol. 2, No. 7 (new series), 1887, p120-122. (UG)


QUELCH, J.J. *Labarrias born in the museum.* Timehri, Vol. 1, No. 6 (new series), 1887, p346-348. (UG)


QUELCH, J.J. *Mollusca of British Guiana.* Timehri, Vol. 4, No. 9 (new series), 1890, p37-46. (UG)

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QUELCH, J.J. Colony deer. Timehri, Vol. 6, No. 11 (new series), 1892, p170-171. (UG)


QUELCH, J.J. Intelligence of the sloth. Timehri, Vol. 6, No. 11 (new series), 1892, p163-64. (UG)

QUELCH, J.J. New colony birds. Timehri, Vol. 6, No. 11, 1892, p186. (UG)

QUELCH, J.J. Venom in harmless snakes. Timehri, Vol. 6, No. 11 (new series), 1892, p174-176. (UG)

QUELCH, J.J. Young animals taking refuge in the mouth of their parent. Timehri, Vol. 6, No. 11 (new series), 1892, p172-174. (UG)


RODWAY, J. Father Dawson's hand list of birds. Timehri, Vol. 4, No. 21 (third series), 1917, p300. (UG)

RODWAY, J. Recent contributions to our fauna (new names). Timehri, Vol. 6, No. 23 (third series), 1919, p.212. (UG)

ROTH, V. Notes and observations on animal life in British Guiana. The "Daily Chronicle", Ltd., Georgetown, Guyana, 1941. 79p. (NL)


SMELLIE, G.H. Some notes on the birds of British Guiana. Timehri, No. 26, 1944, p107-116. (UG)


SULLIVAN, F. Proactive conservation in Guyana. WWF Reports, August/September, 1990. p10-12. (GNRA)

TAMESSAR, M. Provisional list of mammals of Guyana. Unpublished, nd. 3p. Pamphlet. (UG)


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