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**ANNOTATED BIBLIOGRAPHY ON NATURAL RESOURCES
AND THE ENVIRONMENT IN GUYANA**

**Compiled by
Macsood Hoosein**

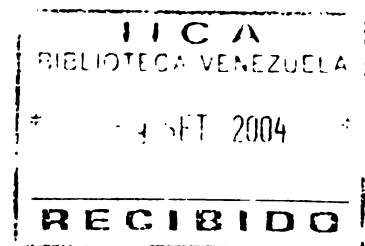
**Georgetown, Guyana
January, 1996**





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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 Hoosein, is to be congratulated for this time consuming effort. Mr. Hoosein 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
- the Library of the Guyana Agency for Health Sciences Education, Environment and Food Policy (GAHEF).

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:

1. DIXON, C.G. and GEORGE, H.K. **Bibliography of the geology and mining of British Guiana.** Geological Survey of British Guiana Bulletin 32, 1964. 87p. (GFC)
2. FORTE, J. **A selective reading list on Guyanese Amerindians.** Occasional Publication of the Amerindian Research Unit, University of Guyana. 1995. 16p. (UG)
3. MINISTRY OF NATIONAL DEVELOPMENT AND AGRICULTURE. **Bibliography of all entomological publications.** Georgetown, Guyana, 1973. 34p. (UG)

4. UNIVERSITY OF GUYANA. **List of books on the Amerindians of Guyana.** ?, nd, 4p.
(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.

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- 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. **National report: Forestry, Guyana**. Eleventh session of the Latin American Forestry Commission, Quito, Ecuador, 1970. 7p. (UG)
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- 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. **A report on the forest valuation survey of the Waini-Mazaruni watershed (the Kwabanna survey area)**. Unpublished, nd. 17p. (UG)

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. Amount of Wallaba and other short-fibred paper pulp timbers in the Bartica-Kaburi area. Unpublished, nd. 13p. Mimeo. (UG)

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 Unpublished, nd. 18p.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

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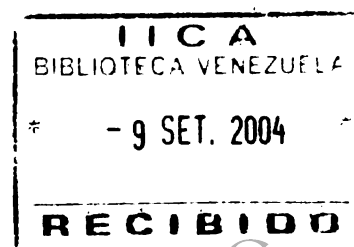
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ANONYMOUS. Brief information on Guyana's forests. Unpublished, nd. 6p, incl. 2 tables. Typescript. (GFC)

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BOLAND, M. and VERBURG, I. Effect of canopy gaps, as a result of logging, on the morphology of seedlings of a tropical tree species Greenheart, Chlorocardium rodiei (Schomb.) Mez. Unpublished, 1991. 47p. (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.



- BRATT, C.B. Forest Industries Survey, Guyana: Economic Aspects of Forest Utilization in Guyana.** F.A.O., Rome, 1970. 98p. 3 maps. (UG).
- BENNETT, H.G. Feasibility Study of a Wood Chip Mill for the Republic of Guyana.** A.K.L. Associates, Zurich, Switzerland, 1976. 162p. (GNRA)
- BERNI, C.A., BOLZA, E. and CHRISTENSEN, F.J. South American timbers - The characteristics, properties and uses of 190 species.** Commonwealth Science and Industrial Research Organization, Division of Public Research, ?, 1979. 212p. (GFSU)
- BUDHU, M. Structural utilization of Guyanese timbers.** Paper presented at the Conference on Forestry Development, Sophia, Georgetown, 1980. Compiled by Department of Civil Engineering, University of Guyana. 13p. Mimeo. (UG)
- BYNOE, M. and MARSHALL, G.E. Country report: Republic of Guyana.** Prepared for the seminar on "Management of forests and wood industries", SWEDEN. Georgetown, 1995. 29p. Maps, append. (GFC)
- CARIBBEAN COMMISSION. British Guiana.** In: Forest research within the Caribbean. Committee on Agriculture, Nutrition, Fisheries and Forestry of the Caribbean Research Council, Washington, D.C., 1947. p29-32, 75. (UG)
- CARIBBEAN DEVELOPMENT BANK/DEUTSCHE FORSTINVENTUR SERVICE. Regional Forestry Sector Study Country Report: Cooperative Republic of Guyana, 1983.** 99p.(GNRA)
- 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).
- CASE, G.O. British Guiana timbers.** Metcalfe & Cooper, Ltd., London, 1934. 73p. (NL)
- CHAFFEY, D.R. Resource development potential of the region served by Guyana's national self-help road. Volume 3: Forestry.** Overseas Development Administration, London, 1973. 55p. (GFC)
- CLARKE, E.C. Natural regeneration of exploited forests.** Paper presented at the International Conference on the three Guianas on Agriculture and Forestry, September 5-10, 1955. 4p. Mimeo. (UG)
- CLARKE, E.C. The regeneration of worked-out greenheart forest in British Guiana.** ?, ?. p173-183. Photocopy. (GFSU)

COLCHESTER, M. Who's Who in Guyana's Forests. Report prepared for the Amerindian People's Association. World Rainforest Movement, 1993. 26p. (GNRA)

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.

COLLINS, C.F. Forest Products Research Plan. Utilization Division, Forest Department, Guyana, 1971. 17p. Photocopy. (GFC)

COLONIAL OFFICE. Report of the Great Britain Timber Mission to the British West Indies, British Guiana and British Honduras Oct. - Dec., 1952. Her Majesty's Stationery Office, London, 1953. 66p. (UG)

COOPER, A. Tropical Forest and Savanna in Guyana: An Ecologist's Viewpoint. Guyana J. of Sci., Vol. 2, No. 1, November, 1974, p2-14. (UG)

CORT, L. Practical experiences in the use of Guyana's mixed tropical hardwoods in the production of pulp and paper. Institute of Applied Science and Technology, unpublished, 1980. 13p. (UG)

COWAN, R.S. A monograph of the genus Eperua (Leguminosae: Caesalpinaceae) Smithsonian Contributions to Botany. No. 28. Smithsonian Institution Press, Washington, D.C., 1975. 45p. (GFSU)

DAM, P.C. and TRINES, E.P. An impact study on logging in a greenheart bearing mixed stand. Larenstein International Agricultural College/Tropenbos Foundation, Holland, 1990. 52p. 5 append. (GFC)

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 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)

DAVID, C. ET AL. Forest inventory manual. Guyana Forestry Commission/Canadian International Development Agency, nd. 169p. (GFC)

DAVID, C.A. Considerations on forest fires in Guyana. Prepared for the Permanent Secretary, Ministry of Energy and Natural Resources. 1976. 13p. Carbon copy, organizational chart, soil map of Guyana. (GFC)

DAVID, C.A. Silviculture in the context of Guyana. Paper presented at the C.I.D.A. Forest Management Seminar, Pegasus Hotel, Georgetown, Guyana, October 2-3, 1979. Unpublished. 15p. (UG)

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)

DOUGLAS, J. Some thoughts on forestry education in Guyana. Guyana Forestry Commission, 1985. 9p. Mimeo. (GFC)

DOW, L.E. Phytosanitary regulations and quarantines in British Guiana. FAO/IUFRO Symposium on Internationally Dangerous Forest Diseases and Insects, Oxford, 1964. 3p. (Translations into spanish, french, attached). (GFC)

DUBE, Y.C.; AMSTERDAM, D.; BAIRD, C.O. and RAMDASS, I. Working Paper No. 1: Institutions and Human Resources, NFAP. Guyana Natural Resources Agency/Canadian International Development Agency. Georgetown, Guyana, 1989. 52p. (GNRA)

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)

DUBE, Y. C., AMSTERDAM, D., BAIRD, C. O. and RAMDASS, I. Working paper # 9: Fuelwood and Energy, NFAP. Guyana Natural Resources Agency/ Canadian International Development Agency, Georgetown, Guyana, 1989. 45p. (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.

- EASTWOOD, J. Report on the extent and quality of the photo coverage of Guyana and present methods of volume and defect assessment in relation to the needs of UNDP Project No. 245. Unpublished, 1966. Folder bound. (GFC)**
- 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)**
- EVENSEN, T.B. Rationalizing the shipment of wood. Guyana Timber Export Board Paper No. 10, 1977. 5p. (GFC)**
- FANSHAWE, D.B. Forest Products of British Guiana. Part I: Principal Timbers. Forestry Bulletin No. 1 (New Series), Forest Department, British Guiana, 1948. 101p. (UG)**
- FANSHAWE, D.B. Studies of the trees of British Guiana. (Wallaba, Purpleheart, Mora). Tropical Woods, No. 93, March 1, 1948, p1-28. (GFC)**
- On the botany, ecology, silviculture, properties and utilization of the species.
- FANSHAWE, D.B. Regeneration of forests in the tropics with particular reference to British Guiana. British Commonwealth Forestry Conference, Canada, 1952. 8p. (UG)**
- FANSHAWE, D.B. Riparian Vegetation of British Guiana. Journal of Ecology, Vol. 42. No. 2, July 1954. 7p. (UG)**
- 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)**
- F.A.O. Report on the Guyana Forest Industries Development Project Identification Mission. F.A.O., Rome, 1972. 63p. (GNRA)**
- FLEMMICH, C.O. Report to the government of British Guiana on the marketing of wood and wood products with particular reference to the export of timber. F.A.O., Rome, 1963. 83p. (UG)**
- 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)**
- FORBES, G.P.A. Notes on seedling growth on an infertile white sand soil in Guyana-(Atkinson area - 25 miles right bank Demerara River). 1967. 5p. Typescript. (GFC)**

- FOREST DEPARTMENT. The Guyana grading rules for hardwood timber.** Forest Department, Georgetown, 1974. 88p. Booklet. (UG)
- FOREST DEPARTMENT. Progress Report 1966-72 by the Forest Department of Guyana.** Prepared for the Tenth Commonwealth Forestry Conference, 1974. Forest Department, Georgetown, 1974. 6p. (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. (UG)
- GILL, T. Tropical forests of the Caribbean.** Tropical Plant Research Foundation, 1931. p109-119 on British Guiana. (UG)
- GILLIES, G.B. Forest Industries Survey Guyana: Central Timber Manufacturing Plant Georgetown.** U.N.D.P.-F.A.O., Georgetown, Guyana, 1969. 57p. Plan in pocket. (UG)
- GILMOUR, J.D. Report on the proposed Barima-Barama forest concession in British Guiana.** Unpublished, Toronto, 1948. 54p. Typescript. (GFC)
- GRAYUM, G.H. Forest Industries Development Survey, Guyana: Logging and Forest Management.** F.A.O., Rome, 1971. 73p. 3 maps in back cover. (UG)
- Guyana. National Forest Policy.** Unpublished, nd. 6p. Photocopy. (GFSU)
- GUYANA/CANADA INTERIM FORESTRY PROJECT. Guyana's Forest Resources. A Presentation for Secondary School Students. Forestry Information Document #1.** Stewart & Ewing Associates Limited, British Columbia, Canada, 1992. 31p. (GNRA)
- 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.
- GUYANA/CANADA INTERIM FORESTRY PROJECT. Work activity programme update for Element 100 - Trained forestry personnel. Project Document No. 1, 1991.** 24p, 4 append. (GNRA)

GUYANA/CANADA INTERIM FORESTRY PROJECT. Proposal for the development of a "Silviculture Operations Centre" for Guyana. Project Document # 3. Stewart & Ewing Associates Limited, British Columbia, Canada, 1991. 121p. (GNRA)

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.

GUYANA/CANADA INTERIM FORESTRY PROJECT. Proposed National Strategy for Forestry Awareness, Education and Training. Project document #5. Stewart & Ewing Associates Limited, B. C., Canada, 1992. 65p. (GNRA)

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 advise, develop programmes and coordinate the sector's human resource activities at a national level.

GUYANA/CANADA INTERIM FORESTRY PROJECT. Forest Inventory Manager's Manual. Project Document #6. Stewart & Ewing Associates Limited, B. C., Canada, 1994. 105p. (GNRA)

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.

GUYANA/CANADA INTERIM FORESTRY PROJECT. Sawwood Industry Financial Model: A Management Tool for Forest Policy Decision Making. Project Document #7. Stewart & Ewing Associates Limited, B. C., Canada, 1992. 80p. (GNRA)

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 sawwood 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. Preliminary Socio-economic survey of the Bamia-Loo Creek area, Guyana. Project Document No. 8, 1992 (First Draft). 33p. 2 append., tables, exhibits. (GFSU)

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

GUYANA/CANADA INTERIM FORESTRY PROJECT. Management of the White Sand Forests of Guyana. Project Document No. 13, 1994. 27p. 5 append. (GNRA)

GUYANA/CANADA INTERIM FORESTRY PROJECT. Forest Inventory Operator's Manual. Project Document #14. Stewart & Ewing Associates Limited, British Columbia, Canada, 1994. 115p. (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.

GUYANA/CANADA INTERIM FORESTRY PROJECT. Management Guidelines for the Natural Forests of Guyana. Project document #15. Stewart & Ewing Associates Limited, B. C., Canada, 1994. 91p. (GNRA)

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)

GUYANA FORESTRY COMMISSION. Forest inventory: Golden Star Resources Limited (Mahdia Area). GFC, 1989. 5p. Carbon copy. (GFC)

GUYANA FORESTRY COMMISSION. Code of Practice for Forest Management (First Draft).
Guyana Forestry Commission, Georgetown, Guyana, 1994. 28p. (GNRA)

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)

G.F.C./C.I.D.A. National Forestry Action Plan 1990-2000. Guyana Forestry Commission and
Canadian International Development Agency, Georgetown, Guyana, 1989. 77p. (GNRA)

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.

GRIMM, U.; PELZ, D.; and SONNERT, H. Forest Inventory Study. A project preparation report.
Cooperative Republic of Guyana and Federal Republic of Germany, 1990. 158p. (GNRA)

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. Guyana timber species : Wallaba (Eperua falcata). The
Board, Georgetown, 1979. 30p. (NL)

**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)

HEGYI, F. Report of the forest valuation survey on the Amakura-Koriabo watershed, south of Wauna Creek, North West District, British Guiana. Unpublished, 1963. 55p. Mimeo., folder bound. (GFC)

HEGYI, F. Restricted random sampling in British Guiana. Unpublished, 1964. 2p, carbon copy. (GFC)

HEGYI, F. Forest inventory in the tropics with special reference to British Guiana. Unpublished, 1964. 3p. Typescript. (GFC)

HELLUM, A.K. Regeneration trials in soft wallaba at Chickabaru. Unpublished, 1994. 14p. (GFSU)

HELLUM, A.K. End-of-mission report: Silviculture. Guyana/Canada Interim Forestry Project, 1994. 11p. Appendix. (GFSU)

HENRIKSEN, R.J.; FORBES, P.G. and FIELD-RIDLEY, R. Working Paper No. 5: Forest-based Industrial Development, NFAP. Guyana Natural Resources Agency/Canadian International Development Agency, Georgetown, Guyana, 1989. 115p. (GNRA)

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.

HINGSTON, R.W.G. A naturalist in the Guyana forest. Edward Arnold and Co., London, 1932. 384p with 16 plates and 150 illustrations. (UG)

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.

HOHENKERK, L.S. The forests of British Guiana. Empire Forestry Journal, Vol. III, No. 1, July 1924, p169-179. (GFC)

HUGHES, H. J. Forest Resources of British Guiana. Section 5 of Handbook of Natural Resources of British Guiana. The Interior Development Committee of British Guiana, unpublished, 1947. 191p. (GNRA)

INTERNATIONAL BANK FOR RECONSTRUCTION AND DEVELOPMENT. The economic development of British Guiana. Report of a mission organised by the Bank. IBRD/John Hopkins Press, 1953. 366p. (GFC)

JAAKO POYRY & CO. Guyana Export Chip Mill: Approximate Feasibility Estimate. Unpublished, 1976. 84p. (GNRA)

JAAKONSAARI, J.E. Logging and mechanical forest industries demonstration and training: Phase I, Guyana. Sawmilling in the country and the reinstallation of the Wimiperu sawmill. UNDP/FAO, Georgetown, Guyana, 1980. 36p. Consultant's report. (GFC)

JETTEN, V.G. Modelling the effects of logging on the water balance of a tropical rain forest. A study in Guyana. Technical Series No. 6, Stichting Tropenbos, The Netherlands, nd. 196p. (UG)

JOHN, C.A. The rate of growth of *Virola surinamensis* Warb. Imperial Forestry Institute, Oxford, 1961. 75p. Carbon copy, tables. (GFC)

KING, K.F.S. Notes on silvicultural practice in British Guiana. Unpublished, 1964, carbon copy. 20p. (GFC)

KING, K.F.S. Diagnostic sampling in the Bartica Triangle, British Guiana. Unpublished, 1964?. Mimeo. (GFC)

KING, K.F.S. The use of arboricides in the management of tropical high forests. Unpublished, nd. 11p. (UG)

KOROLEFF, A. Research to increase logging efficiency. Paper 9 - September 1977. Guyana Timber Export Board, Georgetown. 4p. Typescript. (GFC)

KULKARNI, D.H. Strengthening Guyana's Forestry Commission (draft report). Food and Agriculture Organization of the United Nations, Rome, 1980. 41p. (GNRA)

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.

LAARMAN, J.G. and BUTTS, H.C. Working paper #10: Financial and Economic Linkages Among Projects, NFAP. Guyana Natural Resources Agency/Canadian International Development Agency, Georgetown, Guyana, 1989. 81p. (GNRA)

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.

LAARMAN, J.G. and BUTTS, H.C. Working Paper No. 3: The forest-based sector in the Guyana economy, NFAP. Guyana Natural Resources Agency/Canadian International Development Agency, Georgetown, Guyana, 1989. 42p. (GNRA)

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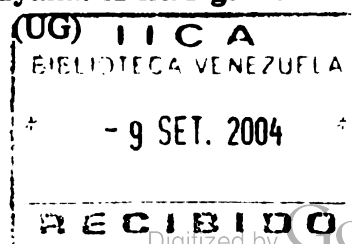
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