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FAO Regional Office, Bangkok, Thailand

“A significant contribution to public education, advancing the cause of integrated agriculture and forestry...a resource of lasting value.”
—The Permaculture Activist, North Carolina

“A most excellent handbook...a wonderful resource.”
—Developing Countries Farm Radio Network, Toronto, Canada

“Eloquently makes a case for reintroducing and emphasizing trees in our island agriculture.”
—Dr. Bill Raynor, Program Director, The Nature Conservancy, Pohnpei, Federated States of Micronesia

“Provides a real clearinghouse on traditional and modern agroforestry not only for Pacific Islands, also very useful for other regions.”
—ILEIA Newsletter for Low External Input and Sustainable Agriculture, The Netherlands

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Information Resources for Pacific Island Agroforestry

by Craig R. Elevitch and Kim M. Wilkinson

www.agroforestry.net
Information Resources for Pacific Island Agroforestry

Abstract: Agroforestry is a traditional Pacific Island practice of integrating trees with crops and/or animals. Starting in the colonial period, trees were systematically removed from agricultural systems in the desire to maximize outputs from cash crops. However, the short-term profits were often offset by long-term environmental problems, escalating dependence on chemical fertilizers and inputs, and high levels of economic risk. Today, integrating trees with agricultural production is known to be a beneficial practice, one that can combine continuous agricultural production with conservation and land improvement.

Agroforestry is an information-intensive practice. Mixed systems are more complex than single-species plantings, and advanced planning is necessary to minimize competition and optimize the benefits of trees in agricultural systems. This guide compiles sources of practical information for Pacific Island agroforesters. Organizations, books, periodicals, web links, and government agencies that offer information and/or support for practitioners are described.

Keywords: agroforestry, organizations, books, periodicals, handbooks, guides, web links, practitioner resources

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Introduction to Pacific Island Agroforestry

Agroforestry has been practiced in the Pacific Islands for thousands of years. The continued appropriate and well-managed use of trees in agricultural systems can serve as an effective component for sustainable economic development and environmental protection in the region. This guide describes practical resources and information materials for Pacific Island agroforestry practitioners.

What Is Agroforestry?

Agroforestry is a modern name for an ancient approach to land-use combining trees with other crops and/or animals. Some popular definitions of agroforestry are:

Agroforestry is a dynamic, ecologically based natural resources management system that, through the integration of trees in farmland and rangeland, diversifies and sustains production for increased social, economic, and environmental benefits for land users at all levels. (ICRAF Agroforestry Today 9:1:1997)

Agroforestry is any agricultural system (agro-ecosystem) in which planted or protected trees are seen as economically, socially, or ecologically integral to the system. (Clarke and Thaman 1993)

Agroforestry is an intensive land management system that optimizes the benefits from the biological interactions created when trees and/or shrubs are deliberately combined with crops and/or animals. (Association for Temperate Agroforestry 1997)

Agroforestry is a sustainable land-management system which increases the overall yield of the land, combines the production of crops (including tree crops) and forest plants and/or animals simultaneously or sequentially, on the same unit of land, and applies management practices that are compatible with the cultural practices of the local population. (Nair 1989)

By all these definitions, an agroforestry system:

• involves two or more species, at least one of which is a tree;
• yields two or more outputs;
• has a production cycle of longer than one year; and
• has significant interaction (economic and/or environmental) between trees and the other components (Nair 1993).

Some agroforestry systems are very simple, involving just a few species. Other agroforestry systems are more complex, resembling multi-storied, diverse forest ecosystems.

Reversing the Trend Towards Monocultures

Starting in the colonial era and intensifying in the 20th century, Pacific Island agroforestry systems were rapidly displaced in favor of monocultures (single-species plantings). It was thought that trees in mixed species systems interfered with production, and that outputs could be maximized by converting mixed plantings into single-species cropping systems. Increasing desire for consumer goods and increasing access to markets further intensified pressures to maximize outputs and plant cash crops. Single-species agricultural systems and forestry plantations, usually of exotic species, were promoted, usually at the expense of the traditional agroforestry systems. This trend has been called “agrodeforestation,” the removal of agroforestry systems for large-scale cash crops (Clarke and Thaman 1993).
Many now agree that the rapid conversion to monocropping systems was short-sighted. The short-term profits gained from intensive, single-species plantings are often negated by long-term environmental degradation and high risks. Intensive cropping systems tend to be costly and environmentally damaging, requiring high inputs of fertilizers and chemicals to sustain productivity. Single-species plantings involve a high level of economic risk, because if market conditions change the single crop may not be profitable. They also involve a high level of ecological risk, because one disease or pest problem can devastate production (AIS 1992).

### The Benefits of Agroforestry in the Pacific Islands

Population growth, increasing economic needs, environmental degradation, and a shortage of arable land make the development of sustainable and efficient agricultural systems crucial. Agroforestry practices can improve productivity and reduce inputs, while mitigating some of the environmental damage caused by the past processes of deforestation and the removal of trees from the landscape.

<table>
<thead>
<tr>
<th>Agroforestry systems make more efficient use of natural resources:</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Soil nutrients</strong></td>
</tr>
<tr>
<td><strong>Sun</strong></td>
</tr>
<tr>
<td><strong>Water</strong></td>
</tr>
</tbody>
</table>

Source: AIS 1992, Young 1997

<table>
<thead>
<tr>
<th>Agroforestry systems provide a more favorable environment for sustained production:</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Shade</strong></td>
</tr>
<tr>
<td><strong>Wind protection</strong></td>
</tr>
<tr>
<td><strong>Soil conservation</strong></td>
</tr>
<tr>
<td><strong>Nutrient cycling</strong></td>
</tr>
<tr>
<td><strong>Habitat diversity</strong></td>
</tr>
</tbody>
</table>

Source: AIS 1992, Young 1997
**Agroforestry systems can be more profitable:**

<table>
<thead>
<tr>
<th>Reduced expenses</th>
<th>Through nutrient cycling and soil and water conservation, trees reduce the need to purchase fertilizer and water. Trees may also reduce the need for pesticides by providing habitat for pest predators.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diversified products</td>
<td>Mixed cropping systems typically have two or more economic products, reducing dependence on market conditions for a single crop.</td>
</tr>
<tr>
<td>Continuous flow of products</td>
<td>Agroforestry systems often combine short-term and long-term crops, which can lead to a high level of total productivity and year-round production.</td>
</tr>
<tr>
<td>Greater self-reliance</td>
<td>Agroforestry can reduce farmer’s dependence on purchased products and resources, as well as reducing vulnerability to changing market conditions.</td>
</tr>
</tbody>
</table>

**Agroforestry systems can improve the environment:**

<table>
<thead>
<tr>
<th>Reduced pressure on natural forests</th>
<th>On-farm production of wood and other forest products reduces pressure to exploit natural forests.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Species diversity</td>
<td>Trees and mixed systems provide habitat and support biodiversity (wildlife, microlife, etc.)</td>
</tr>
<tr>
<td>Resource conservation</td>
<td>Trees can improve conservation of soil, nutrients, and water in the landscape.</td>
</tr>
<tr>
<td>Carbon sequestration</td>
<td>Trees store carbon from the air, helping to reduce carbon dioxide pollution and global climate change.</td>
</tr>
<tr>
<td>Decreased pollution</td>
<td>Nutrient cycling of trees may reduce the use of chemical fertilizers, thus reducing chemical and soil run-off.</td>
</tr>
</tbody>
</table>

**Agroforestry systems are culturally compatible:**

<table>
<thead>
<tr>
<th>Locally-based</th>
<th>Agroforestry systems incorporate species and techniques that have been used traditionally in Pacific Islands for many generations, in some cases for thousands of years.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adaptable</td>
<td>Due to farmer experience and acceptance over many decades, traditional systems and species provide a strong, locally-based framework for future agroforestry development (Thaman and Whistler, 1996).</td>
</tr>
<tr>
<td>Acceptable</td>
<td>By combining production with conservation and land improvement, the agroforestry approach can increase the acceptability and adoption of sustainable practices (Young 1997).</td>
</tr>
</tbody>
</table>

**The Importance of Planning Agroforestry Systems**

Agroforestry systems require careful advanced planning. Mixed systems are more complex than single-species monocultures. It is often difficult to predict the results of crop combinations and interactions, and the systems evolve and change over time. Those embarking on an agroforestry project need to be aware of the possible adverse effects of combining trees with crops. Compared to the relative abundance of data from monocultures, there is a scarcity of scientifically-based
practical information about mixed systems. There is also a shortage of information about the economic trade-off of agroforestry systems. Managing diverse, dynamic systems and marketing diverse products is a challenge. For these reasons, agroforestry systems require more up-front planning, research, and risk assessment than a simple single-species planting.

Information leads to informed decisions that improve the potential for a successful agroforestry project. What follows is a compilation of practical resources available for the Pacific Island agroforestry practitioner. Organizations, books, guides, periodicals, and web sites are included.

### Organizations

**Appropriate Technology Transfer for Rural Areas (ATTRA)** provides technical assistance with primarily a temperate orientation to farmers, extension agents, market gardeners, agricultural researchers, and other ag professionals in the US. Address: ATTRA, P.O. Box 3657, Fayetteville, AR 72702, USA; Tel: 800-346-9140; Web site: http://www.attra.org/attra-pub/index.html

**Agricultural Development in the American Pacific (ADAP)** addresses common Pacific Island-based agriculture and community issues through cooperative research, extension, and instruction programs that are culturally appropriate, socially acceptable, economically viable, and environmentally compatible. Address: ADAP Home Office, College of Tropical Agriculture and Human Resources, 3050 Maile Way, Gilmore Hall 213, University of Hawaii, Honolulu, Hawaii 96822 USA; Tel: 808-956-8140; Fax: 808-956-6967; E-mail: adap@hawaii.edu; Web site: http://www2.ctahr.hawaii.edu/adap/

**The Association for Temperate Agroforestry (AFTA)** is a membership organization working for technical innovation and adoption of agroforestry in the temperate zone through a variety of research and educational activities. Address: School of Natural Resources, 1-30 Agriculture Bldg., University of Missouri, Columbia, MO 65211, USA; E-mail: afta@missouri.edu; Web site: http://web.missouri.edu/~afta/

**Australian Centre for International Agricultural Research (ACIAR)** works to improve the well-being of people in developing countries and Australia through international collaboration in research and related activities that develop sustainable agricultural systems and appropriate strategies for natural resource management. Address: The Director, ACIAR, GPO Box 1571, Canberra ACT 2601, Australia; Tel: +61-2-6217 0500; Fax: +61-2-6217 0501; E-mail: aciar@aciar.gov.au; Web site: http://www.aciar.gov.au/

**CAB International (CABI)** works to improve human welfare worldwide through the dissemination, application, and generation of scientific knowledge in support of sustainable development, with emphasis on agriculture, forestry, human health, and the management of natural resources. Address: CAB International, Wallingford, Oxfordshire, OX10 8DE, UK; Tel: +44-1491 832111; Fax: +44-1491 833508; E-mail: cabi@cabi.org; Web site: http://www.cabi.org/

**Centro Agronómico Tropical de Investigación y Enseñanza (CATIE)** conducts scientific research and postgraduate education applied to the development, conservation, and sustainable use of natural resources. Address: CATIE, 7170, Turrialba, Costa Rica; Tel: +506 556-6431; Fax: +506 556-1533; Web site: http://www.catie.ac.cr/catie/

**Danida Forest Seed Centre (DFSC)** provides information resources, training, and consultancies on seed procurement, tree improvement, and gene resource conservation. Address: DFSC, Krogerupvej 21, 3050 Humlebaek, Den-
Educational Concerns for Hunger Organization (ECHO) has many online publications related to agroforestry, including an extensive offering of hard-to-find publications in its online bookstore. Address: ECHO, 17430 Durranne Rd., N. Ft. Myers, FL 33917, USA; Tel: 941-543-3246; Fax: 941-543-5317; E-mail: echo@echonet.org; Web site: http://www.echonet.org/

European Tropical Forest Research Network (ETFRN) promotes the conservation and wise use of forests and woodlands in tropical and subtropical countries. Address: European Tropical Forest Research Network, c/o The Tropenbos Foundation, P.O. Box 232, 6700 AE Wageningen, The Netherlands; Tel: +31-317-495516; Fax: +31-317-495521; E-mail: etfrn@iac.agro.nl; Web site: http://www.etfrn.org/etfrn/index.html

Evergreen Trust promotes the use of trees in Africa. Address: 10 Barley Mow Passage, Chiswick, London W4 4PH, England, UK; Tel: +44-181-742 7267; Fax: +44-181-987 9377; E-mail: evergreentrust@psilink.co.uk; Web site: http://www.psiweb.co.uk/evergreentrust/navigate.html.

Farm, Community, and Tree Network (FACT Net) is dedicated to stimulating the use of multipurpose trees. FACT Net offers many publications at a reasonable cost, including comprehensive fact sheets on many important agroforestry tree species. Address: FACT Net, Winrock International, 38 Winrock Drive, Morrilton, Arkansas 72110-9370, USA; Tel: 501-727-5435; Fax: 501-727-5417; E-mail: forestry@winrock.org; Web site: http://www.winrock.org/forestry/factnet.htm

The Forest Garden Initiative Program supported by Counterpart International is developing a model silvicultural system that fosters the restoration of degraded land through the development of family-owned forest rural gardens around the world. Address: Counterpart International, Inc., 1200 18th Street NW, Suite 1100, Washington, DC 20036, USA; Tel: 202-296-9676; Fax: 202-296-9679; E-mail: info@counterpart.org; Web sites: http://www.forestgarden.org/, http://www.counterpart.org/

The Forestry Programme of the Food and Agriculture Organization of the United Nations (FAO) addresses how to use trees, forests, and related resources to improve people's economic, environmental, social, and cultural conditions while ensuring that resources meet the needs of future generations. Many useful publications are available online. Address: Publications and Information Coordinator, Forestry Department, Food and Agriculture Organization of the United Nations, Viale delle Terme di Caracalla, 00100 Rome, Italy; Tel.: +39-6-57054778; Fax: +39-6-57052151; E-mail: Forestry-www@fao.org; Web site: http://www.fao.org/fo/

Forest, Trees and People Programme (FTPP) supports rural populations participating in developing forest resources. Address: FTPP Network, SLU Kontakt, Swedish University of Agricultural Sciences (SLU), Box 7034, 750 07 Uppsala, Sweden; Tel. +46 18 672001; Fax: +46 18 671980; E-mail: FTPP.Network@kontakt.slu.se; Web site: http://www-trees.slu.se/

International Center for Research in Agroforestry (ICRAF) has extensive worldwide programs in agroforestry research and training. Address: ICRAF, P.O. Box 30677, Nairobi, Kenya; Tel: +254-2-521450 or +1 650 833 6645; Fax: +254-2-521001 or +1-650-833-6646; E-mail: ICRAF@cgiar.org; Web site: http://www.cgiar.org/icraf/
The International Institute of Rural Reconstruction (IIRR) conducts workshops and publishes popular practical works emphasizing participatory approaches to development and agroforestry. Address: Yen Center and Headquar-
ters, Silang, Cavite, Philippines 4118; Tel: +63-46-4142417; Fax: +63-46-
4142420; E-mail: iirr@cav.pworld.net.ph; Web site: http://www.cav.pworld.net.ph/~iirr/

The National Agroforestry Center (NAC) of the US Department of Agri-
culture supports practices which integrate trees and agriculture and publishes
many practical agroforestry materials with a temperate focus including Inside
Agroforestry, a newsletter for natural resource professionals. Address: USDA
Forest Service/Natural Resources Conservation Service, East Campus–UNL,
Lincoln, Nebraska 68583-0822, USA; Tel: 402-437-5178; Fax: 402-437-5712;
Web site: http://www.unl.edu/nac/

New Forests Project (NFP) provides developing country farmers, commu-
nity organizations, and environmental groups with the training and materials nec-
essary to begin successful reforestation projects. Address: NFP, 731 Eighth Street
SE, Washington, DC 20003, USA; Tel: 202-547-3800; Fax: 202-546-4784;
E-mail: icnfp@erols.com; Web site: http://www.newforestsproject.com/

The Oxford Forestry Institute (OFI) has four major groups of activities:
education, research, information, and advisory services, covering all aspects of
forestry with particular emphasis on tropical land use and sustainable forest man-
agement practices including the evaluation and conservation of biodiversity.
Address: Department of Plant Sciences, University of Oxford, South Parks Road,
Oxford OX1 3RB, UK; Tel: +44-1865-275000; Fax: +44-1865-275074; E-mail:
jeff.burley@plants.ox.ac.uk; Web site: http://www.plants.ox.ac.uk/ofi/

Pacific Islands Forests & Trees Support Programme (PIF&TSP)
works to strengthen national capabilities in Pacific Island countries to manage,
conserve, use, and develop their forest and tree resources sustainably. Address:
SPC/UNDP/AusAID/FAO SPC, Private Mail Bag, Suva, Fiji; Web site:
http://www.spc.org.nc/En/forestry.htm

The People and Plants Initiative carries out applied research projects, com-
munity workshops, exchanges, and training courses with young ethnobotanists
from developing countries and disseminates results and information through their
People and Plants Online Program. Web site:

Permanent Agriculture Resources (PAR) carries out agroforestry educa-
tion and research in the Pacific, provides workshops, and publishes Agroforestry
Guides for Pacific Islands and The Overstory, a free e-mail journal. Address: Per-
manent Agriculture Resources, P.O. Box 428, Holualoa, HI 96725, USA; Tel:
808-324-4427; Fax: 808-324-4129; E-mail: par@agroforestry.net; Web site:
http://www.agroforestry.net

Sustainable Agriculture Network (SAN) facilitates the exchange of scien-
tific and practical information on sustainable agriculture systems using a variety
of printed and electronic communications tools. Search for “agroforestry” on
their web site to find helpful references on the subject. Address: SAN Coordina-
tor, National Agricultural Library, Room 304, 10301 Baltimore Ave., Beltsville,
MD 20705-2351, USA; Tel: 301-504-6425; Fax: 301-504-6409; E-mail:
san@nal.usda.gov; Web site: http://www.sare.org/san/

Sustainable Harvest International (SHI) provides farmers and communi-
ties in the tropics with long-term assistance implementing environmentally and
economically sustainable technologies. Address: SHI, P.O. Box 3114, Ports-
mouth, New Hampshire 03802-3114, USA; Tel: 603-427-0735; Fax: 603-422-
Trees for Africa (TFA) promotes tree planting in many situations in Africa and publishes an informative monthly newsletter, Forestry for a Small Planet. Address: Trees for Africa, P.O. Box 2035, Gallo Manor 2052, Gauteng, South Africa; Tel: +11-803 9750, Fax: +11-803 9604; E-mail: trees@cis.co.za; Web sites: http://www.trees.co.za, http://www.EduPlant.org.za

Trees for the Future is a nonprofit organization initiating and supporting agroforestry self-help projects in cooperation with groups and individuals in developing countries. Address: Trees for the Future, P.O. Box 7027, Silver Spring, MD 20907-7027, USA; Tel: 800-643-0001; Fax: 301-565-5012; E-mail: info@treesftf.org; Web site: http://www.treesftf.org/

Titles

Agroforestry in Australia and New Zealand
Authors: R. Reid and G. Wilson, 1985
Publisher: Goodard and Dobson, Victoria, Australia
ISBN: 0-949200-00-X
Scientifically based practical information on how to productively integrate trees into farming systems.

Agroforestry in Dryland Africa
Authors: D. Rocheleau, F. Weber, and A. Field-Juma, 1988
Publisher: ICRAF, Nairobi, Kenya
ISBN: 92-9059-049-1
This book is especially useful for field workers, researchers, and extension agents, providing guidelines for evaluating and planning agroforestry projects with community involvement. Also details a wide range of traditional and adaptive agroforestry practices in drier environments in Africa.

Agro-Forestry in the Pacific Islands: Systems for Sustainability
Editors: W.C. Clark and R.R. Thaman, 1993
Publisher: United Nations University Press, Tokyo
Very thorough treatment of agroforestry practices in the Pacific. Includes tables and descriptions of many traditional agroforestry species.

Agroforestry for Soil Management
Author: A. Young, 1997 (Second Edition)
Publisher: CAB International, New York, New York and ICRAF, Nairobi, Kenya
ISBN: 0-85199-189-0
Now in a revised second edition, this book presents a synthesis of evidence from agriculture, forestry, and soil science, drawing on over 700 published sources dating largely from the 1990’s. Very well written and accessible to practitioners and academics. Highly recommended.

Agroforestry for the Pacific: Fact Sheets
1 Why Agroforestry
2 Hedgerow Intercropping for Upland Root Crop Systems
3 Managing Organic Matter: Composting and Mulching
4 Nitrogen Fixing Trees as Atoll Soil Builders
5 Windbreaks for the Pacific Islands
6 Intercropping Coconuts with Nitrogen Fixing Trees
7 Pasture/Livestock Production Under Coconuts
8 Fodder Bank Establishment and Management
9 Fuelwood Production in the South Pacific
10 Selecting and Testing Nitrogen Fixing Trees for Acid Soils
11 Trees and Shrubs for Agroforestry on Atolls
12 Seed Treatment and Inoculation
13 Community-based Tree Seed Production with Desmodium rensonii and Flemingia macrophylla
14 Seed Production Guidelines for Tropical Tree Legumes
15 Understory Cropping with Pogostemum cablin: Raw Material for Rural Enterprise
16 Moringa oleifera: A Perfect Tree for Home Gardens
17 Tamarindus indica: A Widely Adapted, Multipurpose Fruit Tree

Authors: various
Publisher: FACTNet, Winrock International, Morrilton, Arkansas
This set of 2–6 page brochures presents a wide range of valuable agroforestry information for practitioners. Download from http://www.winrock.org/forestry/FACTPUB/AIS_list.html

Agroforestry Guides for Pacific Islands
1 Information Resources for Pacific Island Agroforestry
2 Multipurpose Trees for Agroforestry in the Pacific Islands
3 Nontimber Forest Products for Pacific Islands: An Introductory Guide for Producers
4 Integrating Understory Crops with Tree Crops
5 Introduction to Integrating Trees into Pacific Island Farm Systems
6 Choosing Timber Species for Pacific Island Agroforestry
7 Economics of Farm Forestry: Financial Evaluation for Landowners
8 Multipurpose Windbreaks: Design and Species for Pacific Islands

Publisher: Permanent Agriculture Resources, Holualoa, Hawaii
Series of 22–50 page guides covering eight topics in Pacific Island agroforestry. Published with support from the US Department of Agriculture’s Western Region Sustainable Agriculture Research and Education (WSARE) Program. The guides can be downloaded at http://www.agroforestry.net

Agroforestry Technology Information Kit (ATIK)
Author: Various authors, 1990
Publisher: International Institute of Rural Reconstruction (IIRR), Cavite, Philippines
ISBN: 0-942717-31-7
This practical agroforestry guide details nursery techniques, seed collection, seed treatment, soil and water conservation strategies, animal systems, and more. Available from IIRR Bookstore and several other sources. Highly recommended.

Amaranth to Zai Holes: Ideas for Growing Food Under Difficult Conditions
Publisher: ECHO, North Fort Myers, Florida
While not strictly an agroforestry title, this useful book contains many practical and technical tips from extension workers and small farmers from around the
world including information on vegetables, fruits, multipurpose trees, urban gardening, and more.

**The Dictionary of Forestry**  
Editor: J.A. Helm, 1998  
Publisher: Society of American Foresters, Bethesda, Maryland  
A comprehensive dictionary defining over 4,500 terms used in forestry and conservation.

**Forest Gardening**  
Author: R. Hart, 1991  
Publisher: Green Books, Devon, UK  
Describes the design of predominately temperate multistory garden plantings which incorporate fruit and nut trees.

**Glossary for Agroforestry**  
Editors: P. Huxley and H. van Houten, 1997  
Publisher: CTA and ICRAF, Nairobi, Kenya  
Includes 1,400 agroforestry terms arranged alphabetically, with extensive cross-referencing. Also available in electronic form at:  
http://www.bugwood.caes.uga.edu/glossary/

Authors: M.G. Thomas and D.R. Schumann, 1993  
Publisher: USDA Forest Service, Washington, DC  
In depth discussion of temperate special forest products (nontimber forest products) that represent opportunities for rural entrepreneurs to supplement their incomes. Order from Southern Research Station, USDA Forest Service, Blacksburg, Virginia; or download at: http://www.sfp.foreprod.vt.edu/pubs/pubs.htm

**An Introduction to Agroforestry**  
Author: P.K.R. Nair, 1993  
Publisher: Kluwer Academic Publishers, Dordrecht, The Netherlands  
ISBN: 0-7923-2134-0  
A widely used comprehensive textbook on agroforestry which is both practical and theoretical, covering many agroforestry practices and species. Highly recommended.

**Non-Wood Forest Products: FAO Technical Papers**  
Author: Various Authors, 1995-1997  
Publisher: FAO, Rome  
ISBN: Various  
An excellent ten volume series on non-wood forest products and their role in integrated forestry, agroforestry, and conservation. Provides useful information on the various products, and also the basics of non-wood forest products enterprises for those products for practitioners, policy makers, and scientists. Order from FAO in Rome (see Book Sources).

**Pacific Agroforestry: An Information Kit**  
Editors: S. Rogers and P. Thorpe, 1999
Agroforestry Guides for Pacific Islands www.agroforestry.net

Publisher: PRAP/SPC, Suva, Fiji
Covers many specific practices, techniques, and species of Pacific Island Agro‐forestry. Order from: Secretariat of the Pacific Community, Private Mail Bag, Suva, Fiji; Tel: +679 370-733; Fax: +679 370-021; E-mail: tomo@spc.org.fj

**Permaculture: A Practical Guide for a Sustainable Future**
Author: B. Mollison, 1997
Publisher: Ten Speed Press, Berkeley, California
The premiere guide to designing resource systems in harmony with natural processes. Highly recommended.

**Plantation Forestry in the Tropics**
Author: J. Evans, 1992 (2nd edition)
Publisher: Oxford University Press, New York, NY
ISBN: 0-19-854257-7
This comprehensive text covers plantation, community, and social forestry, tree planting to control erosion, and agroforestry.

**Practical Guide to Dryland Farming**
I Introduction To Soil And Water Conservation Practices
II Contour Farming With Living Barriers Order
III Integrated Farm Management
IV Planting Tree Crops Order
V Soil Fertility Management Order
Publisher: World Neighbors, Oklahoma City, OK
This series of five booklets (30 to 40 pages each) is useful for agroforestry and soil improvement in dryland areas. Each booklet contains simple drawings and is easy to read. Available from ECHO (see Book Sources).

**Proceedings from the Five North American Agroforestry Conferences**
1 Agroforestry in North America; P. Williams, Ed.; February 1989, Guelph, Ontario.
Order the above proceedings at: http://web.missouri.edu/~afta/

**A Review of Uses and Status of Trees and Forests in Land-Use Systems in Samoa, Tonga, Kiribati and Tuvalu with Recommendations for Future Action.**
Authors: R.R. Thaman and W.A. Whistler, 1996
Publisher: South Pacific Forestry Development Programme, Suva, Fiji.
Information on the status of existing agroforestry systems and related programs with extensive species tables. Order through Pacific Islands Forests & Trees Support Programme (see Organizations).

**Temperate Agroforestry Systems**
Publisher: CAB International, Oxon, UK

A landmark reference for agroforestry for temperate regions, including agroforestry practices in North America, New Zealand, Australia, China, and Europe.

**Tree Crops: A Permanent Agriculture**
Author: R.J. Smith, 1950
Publisher: Island Press, Washington, DC
ISBN: 0-9332-8044-0

A classic reference on the use of trees in agricultural systems.

**A Tree for All Reasons: the introduction and evaluation of multipurpose trees for agroforestry**
Authors: P.J. Wood and J. Burley, 1991
Publisher: ICRAF, Nairobi, Kenya
ISBN: 92-9059-075-0

Available in English, French or Spanish, this book provides guidance on researching and evaluating agroforestry trees for their suitability to a specific need, site, and purpose.

**Trees on the Treeless Plains: Revegetation Manual for the Volcanic Landscapes of Central Victoria.**
Author: D. Holmgren, 1994
Publisher: Holmgren Design Services, Victoria, Australia
ISBN: 0-646-17-568-8

Covers design of revegetation systems in detail including windbreaks and farm forestry. The presentation is based on practical experience and is well illustrated. Order through Permaculture International LTD (see Book Sources).

**Tropical Environments**
Author: M. Kellam and R. Tackaberry, 1997
Publisher: Routledge, New York, New York
ISBN: 0-4151-1609-0

Introduces the complex systems of a broad, cross-regional range of humid to semi-arid tropical climate zones and offers an integration of biophysical and human management issues.

**Tropical Home Gardens**
Editors: K. Landauer and M. Brazil, 1990
Publisher: United Nations University Press, Tokyo

Extensive treatment of home gardens in a research context, covering the development and management of home garden programs.
Species Information

Agroforestry database: a tree species reference and selection guide
Publisher: International Centre for Research in Agroforestry (ICRAF), Nairobi, Kenya
A selection guide for agroforestry trees covering more than 300 species. Valuable for field workers and researchers who are engaged in activities involving trees suitable for agroforestry systems and technologies. Available as CD-ROM from ICRAF and online at:
http://198.93.235.8/cfdocs/examples/treessd/AFT/AFT.htm

Choosing the Right Trees—Setting Priorities for Multipurpose Tree Improvement, Research Report No. 8
Authors: S. Franzel, H. Jaenicke, and W. Janssen, 1996
Publisher: ISNAR, The Hague, The Netherlands
ISBN: 9-29118-025-4
Provides a procedure for selecting species based on maximizing potential benefits. Download from http://www.cgiar.org/isnar/publications/enviro.htm or order from ISNAR Publication Services, P.O. Box 93375, 2509 AJ The Hague, The Netherlands; Fax: +31-70-381-9677; E-mail: isnar@cgiar.org

Cornucopia II: A Source Book of Edible Plants
Author: S. Facciola, 1998
Publisher: Kampong Publications, Vista, California
An encyclopedic reference on over 3,000 edible plants, their cultivars, and sources of plant materials. Direct inquiries to the author Stephen Facciola at Kzyl-ruk@worldnet.att.net (or see Book Sources).

Domestication of Agroforestry Trees in Southeast Asia
Editors: J.M. Roshetko and D.O. Evans, 1999
Publisher: Winrock International, Morrilton, Arkansas
Presents detailed reports concerning tree domestication and specific tree species in smallholder agroforestry systems.

FACT Sheets (formerly NFT Highlights)
Authors: various
Publisher: FACT Net, Winrock International, Morrilton, Arkansas
For a concise summary of information about a multipurpose tree or shrub species, see the appropriate FACT Sheet at http://www.winrock.org/forestry/factpub/factsh.htm or order hard copies from FACT Net (see Organizations). Many available in Spanish, French, Indonesian, Chinese, Vietnamese, and Khmer.

Farm, Community, and Tree Network (FACT Net) research journals, conference proceedings, field manuals, and training manuals
Authors: various
Publisher: FACT Net, Winrock International, Morrilton, Arkansas
Particularly valuable for the practical agroforester, these are some of the best species resources available at a reasonable cost. For a list of the many publications available contact FACT Net (see Organizations) or see
http://www.winrock.org/forestry/factnet.htm
A Field Guide to the Families and Genera of Woody Plants of Northwest South America (Colombia, Peru, and Ecuador)
Author: A.H. Gentry, 1993
Publisher: Conservation International and The University of Chicago Press, Chicago, Illinois
Covers the extraordinarily diverse flora of Colombia, Ecuador, and Peru. Order from: The University of Chicago Press, 11030 S. Langley Avenue, Chicago, IL 60628, USA; Tel: 800-621-2736; Fax: 800-621-8471; Web site: http://www.press.uchicago.edu

Forage Tree Legumes in Tropical Agriculture
Publisher: The Tropical Grassland Society of Australia, St Lucia, Queensland, Australia (previously published by CAB International, Wallingford, UK)
ISBN: 0-9585677-1-9
Covers a number of multipurpose tree legumes that can serve as ruminant forage in silvopastoral agroforestry systems. Download the text or order from: http://193.43.36.7/waicent/faoinfo/agricult/agp/agpc/doc/publicat/Gutt-shel/x5556e00.htm

Forest Production for Tropical America
Agriculture Handbook 710
Author: F.H. Wadsworth, 1997
Publisher: USDA Forest Service, Washington, DC, USA.
A very useful text on tropical forestry. Includes extensive species data for about 150 forestry species, including wood uses. Order from: International Institute for Tropical Forestry, Publications, USDA Forest Service, P.O. Box 5000, Rio Piedras, Puerto Rico 00928-5000; Web site: http://www.fs.fed.us/global/iitf/welcome.html

The Leguminosae: A Source Book of Characteristics, Uses, and Nodulation
Authors: O.N. Allen and E.K. Allen, 1981
Publisher: Wisconsin Press
ISBN: 0-29908-400-0
A global survey of leguminous root nodulation and essential reference for research in tree legumes.

Pacific Islands Farm Manual
Authors: Various, 1994
Publisher: ADAP Project, Tropical Energy House, University of Hawaii, Honolulu
A collection of informational leaflets which serve as guides for taro, perennial vegetables, cover crops, and farm trees. Available for purchase from http://www.adap.hawaii.edu/adap/pubs/adap_pubs.htm or online viewing at: http://agrss.sherman.hawaii.edu/onfarm/main0001.html

Plant Resources of South-East Asia (PROSEA) Handbooks
1 Pulses
2 Edible fruits and nuts
3 Dye and tannin-producing plants
4 Forages
5 Timber trees
6 Rattans
7 Bamboos
8 Vegetables
9 Plants yielding non-seed carbohydrates
10 Cereals
11 Auxiliary plants
12 Medicinal and poisonous plants
13 Spices
14 Essential-oil plants

Authors: various

Publisher: PROSEA Foundation, Bogor, Indonesia

A valuable series on plant resources for Southeast Asia which is useful to all tropical regions. Order from: PROSEA Network Office, c/o Research and Development Centre for Biology (RDCB-LIPI), Jalan Ir. H. Juanda 22, P.O.Box 234, Bogor 16122, Indonesia; Tel: +62-251-322859, 370934; Fax: +62-251-370934; E-mail: prosea@indo.net.id; Web site: http://www.bib.wau.nl/prosea/home.html

The Plant–Book: A Portable Dictionary of the Vascular Plants

Author: D.J. Mabberley, 1997
Publisher: Cambridge University Press, Cambridge, UK
ISBN: 0-52141-421-0

A comprehensive botanical reference combining taxonomic details with information on English names and uses.

Plants for Use in Permaculture in the Tropics

Publisher: Yankee Permaculture, Dahlonega, Georgia

Presents extensive tables of plants and their characteristics for use in agroforestry systems.

Selection and Management of Nitrogen-Fixing Trees

Author: K.G. MacDicken, 1994
Publisher: Winrock International, Morrilton, Arkansas
ISBN: 0-933595-86-7

A very useful reference for agroforestry uses of nitrogen fixing trees, including species selection, plant inoculation, growth characteristics, and potential uses.

Tropical Trees: Propagation and Planting Manuals

1 Vol 1. Rooting Cuttings of Tropical Trees, (in English, Spanish and a number of other languages) with five associated video tapes in English and Spanish. (ISBN 0-85092-394-8)
2 Vol 2. Raising seedlings of tropical trees (In press)

Author: K.A. Longman, 1993–present
Publisher: Commonwealth Science Council, London, UK

These books promote the growing and planting of trees and cover all stages from genetic selection and nursery development to successful planting in the field. These titles use nontechnical language and are extensively illustrated with line drawings. Order from: Information and Publications Division, Commonwealth Secretariat, Marlborough House, Pall Mall, London, SW1y 5HX, UK; Fax: +44 20 7 839 9081; E-mail: r.jones-parry@commonwealth.int; Web site: http://www.thecommonwealth.org/htm/info/journals/order.htm
Book Sources

Large retailers of books carry a wide selection of the titles listed above. We also encourage you to use the following bookstores, each of which supports the activities of an educational organization:

**ECHO’s Global Bookstore** offers more than 430 titles in tropical agriculture, agroforestry, and agricultural development, some of which are very hard to find elsewhere. Address: ECHO’s Global Bookstore, 17391 Durrance Rd., N. Ft. Myers, FL 33917, USA; Tel: 941-543-3246; Fax: 941-543-5317; E-mail: books@echonet.org; Web site: http://echonet.org/shopsite_sc/store/html/index.html

**International Centre for Research in Agroforestry (ICRAF)** sells many of its own excellent publications. Address: International Centre for Research in Agroforestry, P.O. Box 30677, Nairobi, Kenya; Tel: +254-2-521450 or +1-650-833-6645; Fax: +254-2-521001 or +1-650-833-6646; E-mail: e.mwamunga@cgiar.org; Web site: http://www.cgiar.org/icraf/inform/public/publicat.htm

**International Institute of Rural Reconstruction (IIRR)** publishes many top-notch practitioner resources. Address: IIRR Bookstore, Publications Unit, International Institute of Rural Reconstruction, Y.C. James Yen Center, Silang, Cavite 4118, Philippines; Tel: +63-46-414-2417; Fax: +63-46-414-2420; E-mail: pub-iirr@cav.pworld.net.ph; Web site: http://www.cav.pworld.net.ph/~iirr/publications.html

**Farm, Community, and Tree Network (FACT Net)** sells its own publications at a very reasonable cost. Address: FACT Net, Winrock International, 38 Winrock Drive, Morrilton, Arkansas 72110-9370, USA; Tel: 501-727-5435; Fax: 501-727-5417; E-mail: forestry@winrock.org; Web site: http://www.winrock.org/forestry/factnet.htm

**Granny Smith’s Bookshop** has a wide range of hard to find titles in tropical agroforestry. Address: P.O. Box 27, Subiaco, WA 6008, Australia; Tel: +61 8-9388-1965; Fax: +61-8-9388-1852; E-mail: granny@AOI.com.au; Web site: http://www.AOI.com.au/granny/index.htm

**Good Earth Book Store** sells a wide range of practical texts for organic farming primarily in temperate environments. Address: P.O. Box 898, Shelburne, Vermont 05482, USA. Tel/Fax: 802-425-3201; E-mail: info@goodearthpub.com; Web site: http://www.goodearthpub.com/gefpubs.html

**Food and Agriculture Organization of the United Nations (FAO)** has a comprehensive list of its publications, and many are available to read from the web site as well. Address: Sales and Marketing Group, Information Division FAO, Viale delle Terme di Caracalla, 00100 Rome, Italy. Fax: +39-06-5705-3360; E-mail: publications-sales@fao.org; Web site: http://www.fao.org/catalog/giphome.htm

**The Permaculture Activist** sells many permaculture related texts. Address: P.O. Box 1209W, Black Mountain, NC 28711, USA; Tel: 828-298-2812; Fax: 828-298-6441; E-mail: pcactiv@metalab.unc.edu; Web site: http://metalab.unc.edu/pc-activist/

**Permaculture International Ltd. (PIL)** carries a wide range of publications related to permaculture and community design. Address: PIL, P.O. Box 6039, South Lismore, NSW 2480, Australia; Tel: +61-2-66220020; Fax: +61-2-66220579; E-mail: pij@nor.com.au
**Periodicals**

**Agroforestry News** features practical and timely information for farm foresters growing timber with many examples from Australia. Address: Agroforestry News, NRE Port Phillip Region, Locked Bag 3000, Box Hill, 3128 Victoria, Australia; Fax: +61-3-9296-4722; Web site: http://www.linchpin.com.au/Agroforestry_News/

**Agroforestry Today** carries practitioner-oriented reports from around the world on trees and crops on farms, and on the people who plant them. Published by International Centre for Research in Agroforestry (ICRAF). Address: Agroforestry Today, P.O. Box 30677, Nairobi, Kenya; Fax: +254-2-521001; E-mail: aftoday@cgiar.org

**Agroforestry Systems** is very helpful with the hard science of agroforestry, and of practical use. Although very expensive to subscribe, Agroforestry Systems can be found at many university libraries. Address: Kluwer Academic Publishers, Journals Department, P.O. Box 322, 3300 AH Dordrecht, The Netherlands; Tel: +31-78-639 23 92; Fax: +31-78-654 64 74; E-mail: services@wkap.nl; Web site: http://www.wkap.nl/journals/afs

**APANews**, the newsletter of the Asia-Pacific Agroforestry Network (APAN), is dedicated to the exchange of information on agroforestry research, development, and training in the Asia-Pacific region. Address: APANews, FAO Regional Office for Asia and the Pacific, 39 Phra Atit Road, Bangkok 10200, Thailand; Fax: +66-2-280-0445; E-mail: fao-rap@fao.org

**Forest Ecology and Management** focuses on the application of biological, ecological, and social knowledge to the management of man-made and natural forests. Address: Elsevier Science, Regional Sales Office, Customer Support Department, P.O. Box 211, 1000 AE Amsterdam, The Netherlands; Tel: +31-20-485 3757; Fax: +31-20-485 3432; E-mail: nlinfo-f@elsevier.nl; Web site: http://www.elsevier.nl/locate/foreco

**Forests, Trees and People Newsletter**, produced by the Forest, Trees and People Programme (FTPP), supports rural populations participating in developing their forest resources. Address: FTPP Network, SLU Kontakt, Swedish University of Agricultural Sciences (SLU), Box 7034, 750 07 Uppsala, Sweden; Tel: +46-18-672001; Fax: +46-18-671980; E-mail: FTPP.Network@kontakt.slu.se; Web site: http://www-trees.slu.se/

**Forestry for a Small Planet** focuses on agroforestry issues for Africa. Address: Forestry for a Small Planet, P.O. Box 2035, Gallo Manor 2052, Gauteng, South Africa; Tel: +27-11-803 9750; Fax: +27-11-803 9604; E-mail: trees@cis.co.za; Web site: http://www.junex.co.za/ftfa/

**ILEIA Newsletter** covers technical and social options for ecological and sustainable agriculture and has frequent articles on tree-based systems. Address: LEISA, P.O. Box 64, 3830 AB Leusden, The Netherlands; Tel: +31-33-494 30 86; Fax: +31-33-495 17 79; E-mail: iliea@iliea.nl

**The Indigenous Knowledge & Development Monitor** focuses on the role that indigenous knowledge can play in participatory approaches to sustainable development. Web site: http://www.nuffic.nl/ciran/ikdm/

**ISTF News** by the International Society of Tropical Foresters (ISTF) is dedicated to providing a communications network for tropical forestry disciplines. Address: International Society of Tropical Foresters, 5400 Grosvenor
Lane, Bethesda, Maryland 20814, USA; Tel: 301-897-8720 Ext. 126; Fax: 301-897-3690; E-mail: istf@igc.apc.org; Web site:
http://www.cof.orst.edu/org/istf/

The International Tree Crops Journal focuses on the development and promotion of the diversity of tree-based systems within the field of rural development forestry, particularly in the tropics. Address: International Tree Crops Journal, Editors, M.A. Pinard and M.G. Barker, Department of Forestry, University of Aberdeen, Aberdeen AB24 5UA, UK; Fax: +44-01224-272685; E-mail: tree.crops@abdn.ac.uk; Web site:
http://www.abdn.ac.uk/forestry/tropical/treecrop/itcjde.htm

Non-wood News is an information-rich newsletter produced by FAO’s Wood and Non-wood Products Utilization Branch, providing readers with current information on nontimber forest products and their contribution to the sustainable development of the world’s forest resources. Address: Non-Wood News, Forest Products Division, Forestry Department, FAO, Viale delle Terme di Caracalla, 00100 Rome, Italy; Tel: +39-06-570-52746; Fax: +39-06-570-55618; Web site: http://www.fao.org/forestry/FOP/FOPW/NWFP/newsle-e.stm

The Overstory, produced by Permanent Agriculture Resources (PAR), is a free e-mail journal covering concepts central to agroforestry practices in the tropics including up-to-date references and web links. Address: The Overstory, P.O. Box 428, Holualoa, HI 96725, USA; Tel: 808-324-4427; Fax: 808-324-4129; E-mail: overstory@agroforester.com; Web site: http://www.overstory.com

Permaculture International Journal, published by Permaculture International Ltd., covers a wide range of agroforestry examples from the point of view of systems design for perennial agricultural. Order through Permaculture International Ltd. (see Book Sources).

People & the Planet focuses on sustainable energy, coral reefs, and forests and does an admirable job of linking population and demographic change with natural resources. Address: People & the Planet, Suite 112, Spitfire Studios, 63-71 Collier Street, London N1 9BE, UK; Tel: +44-207-713-8108; Fax: +44-207-713-8109; E-mail: planet21@netcomuk.co.uk; Web site:
http://www.peopleandplanet.net

Woods Newsletter, a quarterly newsletter for the membership of Hawai‘i Forest Industry Association, disseminates information on forest issues including nontimber forest products and farm forestry. Address: HFIA, P.O. Box 10216; Hilo, Hawai‘i 96721, USA; Tel: 808-933-9411; Fax: 808-933-9140; E-mail: trailboss@hawaii-forest.org; Web site: http://www.hawaii-forest.org/

Web Links

Appropriate Technology Transfer for Rural Areas’ recommended books and proceedings on agroforestry:
http://www.attra.org/attra-pub/perma.html#bookshelf

Centre for International Research and Advisory Networks (CIRAN) maintains a gateway page for indigenous knowledge:
http://www.nuffic.nl/ik-pages/index.html

Educational Concerns for Hunger Organization’s extensive list of practical sustainable agriculture links: http://echonet.org/links.htm

Fact Net’s extensive links page on multipurpose trees and agroforestry:
http://www.winrock.org/forestry/factpub/links.htm
International Center for Research in Agroforestry's agroforestry resources and links: http://www.cgiar.org/icraf/inform/AFLinks/AFLinks.cfm

International Society of Tropical Foresters' links to organizations: http://www.cof.orst.edu/org/istf/links.htm

National Agroforestry Center's links page: http://www.unl.edu/nac/links.html

People and Plants Online Program's links page includes many excellent agroforestry resources: http://www.rbgkew.org.uk/peopleplants/handbook/handbook5/index.html

Portable Extension Office for Program Literature Exchange (PEOPLE) catalogs a huge range of agricultural extension literature for the Pacific Island for ready downloading. Web site: http://www.uog.edu/cals/PEOPLE/

University of Adelaide's agroforestry links page: http://www-vti.waite.adelaide.edu.au/agroforestry/AFsites.htm

University of Colorado's Communications for a Sustainable Future agroforestry links: http://csf.colorado.edu/sustainability/plants/trees.html

Local Resources

Landowners are encouraged to contact the local offices of the Natural Resources Conservation Service and/or Cooperative Extension Service for personal assistance.

The Natural Resources Conservation Service (NRCS, formerly the Soil Conservation Service) provides assistance with conservation practices such as windbreaks and contour plantings. They also have a Forest Incentive Program, to increase the supply of timber products from nonindustrial private forest lands. They have offices throughout the American-affiliated Pacific. To find the office nearest you, contact:

NRCS State Office
P.O. Box 50004, Honolulu, HI 96850-0050
Tel: 808-541-2600, Fax: 808-541-1335 or 541-2652

The Cooperative Extension Service (CES) of the University of Hawaii can assist landowners with further information. There are CES offices throughout the State of Hawaii; to local one near you contact:

Cooperative Extension Service Main Office
3050 Maile Way, Gilmore Hall 203, Honolulu, HI 96822
Tel: 808-956-8397, Fax: 808-956-9105
E-mail: extension@ctahr.hawaii.edu
Web site: http://www2.ctahr.hawaii.edu

The State of Hawaii Department of Land and Natural Resources

Division of Forestry and Wildlife provides information, education, and support for forestry. Some cost-sharing and other partnerships with private landowners are available. Contact:

Division of Forestry and Wildlife
1151 Punchbowl St. Room 325, Honolulu, HI 96813-3089
Tel: 808-587-0166, Fax: 808-587-0160
Web site: http://www.hawaii.gov/dlnr/dofaw/
Acknowledgments

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References


Web page: http://www.agroforester.com/overstory/overstory52.html


Web page: http://www.agroforester.com/overstory/overstory54.html


Web page: http://www.agroforester.com/overstory/overstory57.html
Agroforestry Guides for Pacific Islands

Information Resources for Pacific Island Agroforestry is the first in a series of eight Agroforestry Guides for Pacific Islands, published by Permanent Agriculture Resources with support from the U.S. Department of Agriculture’s Western Region Sustainable Agriculture Research and Education (WSARE) Program. The guides can be downloaded for free from http://www.agroforestry.net. Master copies are also available to photocopy for free from Pacific Island offices of the Natural Resources Conservation Service (NRCS) or the Cooperative Extension Service (CES) of the University of Hawaii.

Each guide includes a resource section with books, periodicals, and web links for further information on the subject.

1. Information Resources for Pacific Island Agroforestry
Provides an introduction to agroforestry, followed by descriptions and contact information for books, guides, periodicals, organizations, and web sites useful to practitioners of agroforestry in Pacific Islands.

2. Multipurpose Trees for Agroforestry in the Pacific Islands
Introduces traditional Pacific Island agroforestry systems and species. Provides a species table with over 130 multipurpose trees used in Pacific Island agroforestry, detailing information on uses (food, fodder, timber, etc.) and tree characteristics such as height, growth rates, and habitat requirements.

3. Nontimber Forest Products for Pacific Islands: An Introductory Guide for Producers
Discusses the environmental, economic, and cultural role of nontimber forest products. Provides planning suggestions for those starting a nontimber product enterprise. Includes a species table of over 70 traditional Pacific Island nontimber forest products.

4. Integrating Understory Crops with Tree Crops: An Introductory Guide for Pacific Islands
Introduces planning considerations for planting crops with forestry, orchard, or other tree-based systems. Examples of understory intercropping systems in the tropics are included, as well as a species list of over 75 trees, shrubs, and vines used as understory crops in the region.

5. Introduction to Integrating Trees into Pacific Island Farm Systems
Presents eight Pacific Island agroforestry practices that integrate trees into farm systems. Includes silvopasture (trees and livestock), windbreaks, contour hedgerows, live fences, improved fallow, woodlots, sequential cropping systems, and understory cropping.

6. Choosing Timber Species for Pacific Island Agroforestry
Discusses seven steps for choosing timber species that meet the project goals, product requirements, and environmental conditions for a farm forestry or agroforestry project. Includes a species table of over 50 Pacific Island agroforestry species that provide quality wood products, detailing environmental tolerances and multiple uses.

7. Economics of Farm Forestry: Financial Evaluation for Landowners
Introduces strategies for determining the financial returns of small-scale forestry and farm forestry projects. Includes a discussion of the advantages and disadvantages of investing in farm forestry, and the steps in determining the costs involved, estimating returns, and comparing farm forestry with other land uses. Also explores the potential of improving economic picture through value-added strategies or agroforestry practices.

8. Multipurpose Windbreaks: Design and Species for Pacific Islands
Covers information on windbreak design, followed by a discussion of planning considerations for multiple-use windbreaks for timber, fruit/nut production, mulch/fodder, or wildlife habitat. Includes species table of over 90 windbreak species for Pacific Islands, detailing environmental requirements and uses/products.