

Commissioned Papers

Technologies to Increase Production From Primary Tropical Forests and Woodlands

Peter S. Ashton
Harvard Arnold Arboretum

Mark J. Plotkin
Harvard Botanical Museum

Methods for Evaluating Tropical Forest and Woodland Plants to Indicate Their Potential as Resources

Michael J. Balick
New York Botanical Garden

Tree Crops: Key Elements in Sustaining Tropical Forest Resources

Earle Barnhart
The New Alchemy Institute

Professional Education and Technical Training to Support Development and Implementation of Technologies to Sustain Tropical Resources

James S. Bethel and David B. Thorud
College of Forestry
University of Washington

William Burch
School of Forestry
Yale University

Applied Research in the United States Relevant to Tropical Forests and Woodlands

David H. Dawson
Forestry Sciences Laboratory

Causes of Deforestation and Forest and Woodland Degradation in Tropical Latin America

William M. Denevan
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Technologies for Reforestation of Degraded Lands in the Tropics

Carl M. Gallegos
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Charles B. Davey, Robert L. Kellison,
Pedro A. Sanchez, and Bruce J. Zobel
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Afforestation and Management of Tropical Wastelands in India

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Causes of Deforestation in Tropical Asia

Christopher Gibbs
British Columbia Ministry of Environment

The Use of Traditional Knowledge in Development and Implementation of Resource-Use Systems That Sustain Tropical Forest and Woodland Resources

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University of California-Santa Cruz

Valuing Goods and Services From Tropical Forests and Woodlands

Hans M. Gregersen
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Deforestation and Environmental Change in the West African Sahel

Jeffrey Allman Gritzner
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International Development
National Academy of Sciences

Land-Use Planning Technologies to Sustain Tropical Forest and Woodlands

Lawrence S. Hamilton
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Technologies to Improve the Use of Tropical Forest and Woodland Products

Joseph Frederick Hughes,
Robert Aubrey Plumpton, and Jeffery Burley
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The Relationship of Basic Research to the Development of the Technologies That Will Sustain Tropical Forest Resources

Daniel H. Janzen
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Identification and Development of New Tropical Forest Resources in Puerto Rico and the U.S. Virgin Islands

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The Use of Agroforestry to Improve the Productivity to Converted Tropical Land

Bjorn Lundgren
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in Agroforestry

Professional Education and Technical Training to Support Development and Implementation of Technologies to Sustain Tropical Resources

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Methods for the Establishment and Management of Protected Areas for Tropical Primary Forest and Woodland Resources

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The Importance of Tropical Forests and Woodland Resources

Norman Myers
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Soil and Water Management Technologies for Tropical Forests

Charles Pereira
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and Land-Use Hydrology
England

Social Forestry in India: An Analytical Framework for Evaluation of Its Problems and Prospects

Christopher Prins
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Basic Research—A Necessary Prerequisite for Adequate Development of Technologies to Sustain Tropical Forest Resources

Peter H. Raven
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Institutions That Deal With Technologies to Sustain Tropical Forest Resources

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Private Foundations That Support Projects Relating to Technologies to Sustain Tropical Forest Resources

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Causes of Deforestation and Forest and Woodland Degradation in Tropical Africa

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Dynamics of Tropical Forest Conversion: A Preliminary System Dynamics Model

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Forestry: Puerto Rico and the Virgin Islands

Ralph Schmidt
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Fuelwood Technologies to Sustain Tropical Forest Resources

Asif M. Shaikh and Samuel Hale, Jr.
Energy Development International

Tahir Qadri
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Opportunities and Constraints for Improving the Use of Tropical Mangrove Forests

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Common-Property Resources and Individual Ownership

Denise M. Toombs
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Sustaining Tropical Forest and Woodland Animal Resources

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Secondary Forest Management and Plantation Forestry Technologies to Improve the Use of Converted Tropical Lands

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Environmental Education Technologies as Applied to Tropical Forest Management

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Development

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Combatting Desertification With Trees

Fred R. Weber
International Resources Development and
Conservation Services

Halting Tropical Deforestation: The Role of Technology

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Congressional Action to Improve the Sustainability of U.S. Tropical Forest Resources in the Pacific

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Technologies and Technology Systems for Reforestation of Degraded Tropical Lands

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