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Tropical Forestry Annual Report

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FY 1992

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Forest Service

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Preface

People around the world are expressing growing concern over the need for conservation and better management of tropical forests. Recognizing that tropical forest conservation is a *global* concern, forest resource managers in the United States are seeking ways to work with their colleagues in tropical countries to contribute valuable management and technical skills to the conservation effort. To promote this cooperation, the USDA Forest Service initiated the Tropical Forestry Program (TFP) in 1990. This program provides a way for the Forest Service to engage in training, exchanges of technical specialists, and other forms of cooperation. Through this process, the TFP provides information to natural resource managers to foster reasoned decisions about managing tropical forests. The TFP also allows the Forest Service to support international, governmental, and environmental organizations through cooperative projects. The TFP activities complement those of the United States Agency for International Development (USAID), and some TFP training courses and other actions have been developed jointly with them.

During its first 3 years of operation, the TFP has developed a program that specifically addresses deforestation in the tropics and the associated losses in biological diversity and potential effects on the global climate. In executing this program, the TFP has participated in 287 collaborative activities worldwide—123 of them in 1992.

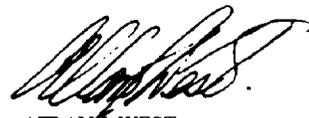
These projects and activities employ the skills of Forest Service employees and personnel from State agencies, environmental organizations, and universities. They have involved more than 21 developing countries and cooperation with over 64 international organizations, government agencies, non-governmental organizations, institutes, and universities in tropical countries and the United States.

While we have engaged many partners in this collaborative effort, the TFP's focus always remains the same: to advance the understanding and models of sustainable management of tropical forests using training, technical cooperation, and support for international organizations.

The Forest Service takes pride in working with resource managers in tropical countries to improve forest conservation through increasing their knowledge of tropical forestry. The accomplishments of our new Tropical Forestry Program, as presented in this fiscal year 1992 report, show how the Forest Service contributes to conservation and management of tropical forests.



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Executive Summary A Global Environment

In response to public concern about deforestation in the tropics, global climate change, and declines in biological diversity, the United States Congress enacted the Global Climate Change Prevention Act of 1990 and the International Forestry Cooperation Act of 1990. In these acts, Congress directed the USDA Forest Service to develop programs to marshal U.S. technical expertise to assist developing tropical countries in slowing deforestation, studying effects of climate change, and sustaining biological diversity. In 1990, Congress began supporting this legislation with appropriations to the Forest Service.

The legislation recognizes the Forest Service as a source of expertise in forest stewardship and challenges the agency to mobilize these skills to evaluate potential causes of climatic change, enhance and maintain biological diversity, and reduce deforestation in the world's tropical forests. This was accomplished through funding for a variety of projects responding directly to these major global issues. In addition to the emphasis on the environmental value of tropical forests, a number of projects were approved and implemented that focused specifically on their economic and social value.

The purpose of the TFP is to build and support partnerships that enable the exchange of forest management tools and information. Frequently, the TFP combines specialists—from the Forest Service, U.S. universities, and international organizations—with their tropical colleagues to form a team which technically assists and trains natural resource managers of tropical countries. This program also provides a channel for lending Forest Service personnel to assist national, international, and environmental organizations working in the tropics. Foresters and other natural resource management professionals in the U.S. can make a difference in the stewardship of tropical forest ecosystems, but, to do this, professional land managers in the U.S. must engage their counterparts abroad in training, technical exchange, and cooperation.

During fiscal year 1992, Congress appropriated nearly \$4.9 million for the Forest Service to continue the work started in fiscal years 1990–91. This amount, a \$2.4 million increase from the previous year, was allocated to the TFP to finance projects addressing deforestation, climate change, and

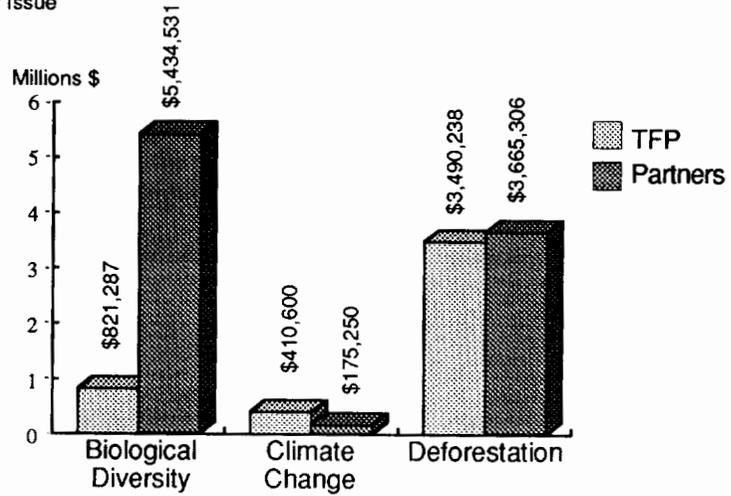


One of the TFP's specific objectives is to support projects that promote the sustainable management of tropical forests. Photo by Jerry Bauer

declines in biological diversity. A breakdown by issue is shown by the graph on the following page. In addition, the composition of fiscal year 1992 projects for the regions of Africa, Asia and the Pacific, and Latin America and the Caribbean continues the program's trend of the previous 2 years. The next graph illustrates this trend.

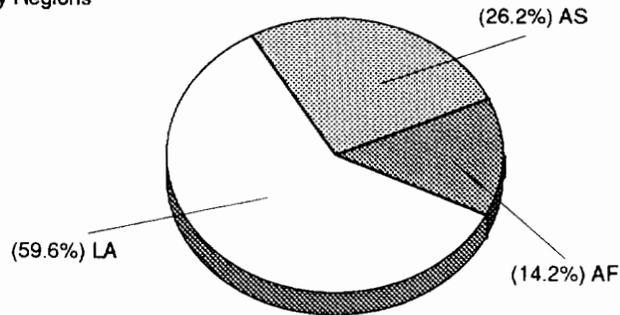
FY 1992 Tropical Forestry Program

Funding by Issue



FY 1992 Tropical Forestry Program

Funding by Regions



TFP-funded projects respond directly to the major issue of preserving biological diversity.
Photo by Jerry Bauer

Loss of tropical forests and forest habitat contributes to declines in biological diversity. Overall, the TFP invested about \$800,000 in 26 projects in response to this major issue. Adding the cooperators' share of funding, the total for biological diversity was approximately \$6.3 million.

Of the amount that the TFP contributed, \$95,970 was approved for monitoring, training, and information exchange to promote understanding of the needs of wildlife for food and cover and the role of natural ecosystems in meeting human needs.

Reducing the greenhouse gas emissions associated with deforestation and forest burning is a major goal of the TFP. Forest fires may add sufficient gases into the atmosphere to adversely affect climate—both on a local and global scale. The TFP has worked with four cooperators in five countries on training, environmental education, and technical assistance in fire planning, suppression, and prevention techniques.

In this area, 17 projects were funded. The TFP's share of fiscal year 1992 funding was approximately \$400,000, with our partners contributing an additional \$200,000 to the implementation of these projects.



Biological Diversity

Climate Change

Wildfires contribute to global warming by adding CO₂ to the atmosphere.
Photo by Tom Frey

Deforestation

Deforestation in tropical regions continues. A 1991 study by the United Nations Food and Agricultural Organization (FAO) reported that the rate of tropical deforestation had increased by 50 percent since the early 1980's. The TFP implements the International Forestry Cooperation Act of 1990 through projects aimed at assisting tropical countries in stemming the tide of deforestation.

Sound forest management policies must be developed on a factual basis. Countries need to know how much forest they have, its composition, and the rate of change in forest cover. Responding to this need, the TFP is helping to train specialists from tropical countries in the application of technologies using remote sensing and geographic information systems (GIS's) to collect accurate inventory information. This training is necessary to support tropical countries in their attempt to assess and monitor their forest resources. The TFP, through the appropriation of over \$135,000, has been instrumental in working with FAO on various remote sensing programs.

In addition to training activities related to forest inventory, the TFP promotes both agroforestry and environmental education as a means to combat deforestation. The TFP has developed various programs with the Peace Corps that address these two vital technical areas, and over a \$1 million has been allocated by the TFP towards collaborative programs with the Peace Corps.

In fiscal year 1992, the TFP funded 65 projects throughout the world to combat deforestation at a cost of approximately \$3.5 million. The TFP's contributions generated an additional \$3.7 million from its partners addressing this issue.



Slash and burn agriculture in Peru.
Photo by Jerry Bauer

In fiscal year 1992, the TFP approved 13 projects for the Africa Region totalling approximately \$450,000. This compares to \$830,000 for the Asia and the Pacific Region's 18 projects and approximately \$1.88 million for the Latin America and the Caribbean Region's 64 projects. The regional percentages compare favorably with the desired funding mix established for the TFP back in fiscal year 1990. In addition, there were 28 global projects approved, totalling approximately \$1.56 million, covering more than one region.

The TFP uses three main methods to approach biological diversity, climate change, and deforestation: technical assistance, training, and support to international organizations. Each of these methods contributes to a well-rounded program.

Technical assistance activities form the largest part of the TFP's fiscal year 1992 program, about 43 percent of all funding. The 34,000 people available throughout Forest Service—with technical expertise on the range of forest management subjects—makes this the TFP's strongest method of response.

Training and support to international organizations make up the remainder of the TFP's activities. The TFP has significant training components providing financial support for short-term training to developing countries, sponsoring workshops and seminars on forestry and natural resource issues, and developing training materials and courses. Over \$1.6 million was spent on funding training programs in fiscal year 1992.

The TFP has worked with over 64 international organizations, governmental agencies, non-governmental organizations, institutes, and universities. By matching funds with various international organizations, the TFP can increase the amount of programs funded throughout the world.

Regional Emphasis

Methods of Approach

Future Vision

Founded in 1990, the TFP focuses on building and supporting partnerships with others to promote sustainable forest management. Partners are encouraged to be creative and innovative in advancing sustainable forest management, but this can only happen when professionals have the freedom to try. All program elements are dedicated to education, cooperation, and better understanding. Our desired approach to training and technical cooperation is to pair experienced Forest Service personnel with natural resource management professionals in developing tropical countries. Our objective is to have that pairing occur in the forest, both in their country and in ours.

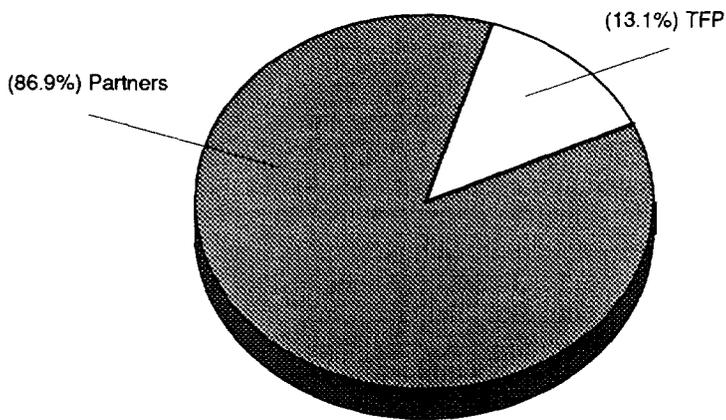
Increasingly, the TFP will target projects with partners in sustainable forest management. There are many active participants focusing on forest preservation; the comparative advantage of the Forest Service is in sharing experience in forest management to meet the needs of people. Ecosystem management is our focus at home and the one we advocate with our colleagues abroad. The challenge is to emphasize stewardship and best management practices to advance the case for sustainability.

Increased emphasis will be given to field activities in Amazonia, the Mayan region of Central America, and the Dipterocarp forests of Southeast Asia. By focusing on several key forest ecosystems, the TFP will try to maximize the on-the-ground effects of its limited resources.

World population growth over the last 90 years has tripled and will double again in the next 60. With 40 percent of the destruction of terrestrial and aquatic plants attributed to people, these next 60 years will only see increased pressure on natural resources. Loss of tropical forest and forest habitat will result in further declines in biological diversity. The TFP addressed this major issue through funding \$821,287 in 26 projects.

Biological diversity can be addressed through monitoring, protecting, and managing ecosystems, as well as by advancing the state of knowledge of the world's species and ecosystems. The TFP has contributed on various fronts to projects addressing biological diversity.

FY 1992 Tropical Forestry Program Funding for Biological Diversity



Passion flower.
Photo by Jerry Bauer



Protecting unique ecosystems promotes the maintenance of biological diversity in places such as Guatemala.
Photo by Jerry Bauer

Biological Diversity

Wildlife Management

The designation and study of indicator species is an important tool in monitoring changes in the environment. By studying key species, a baseline can be developed to indicate when overall diversity of the ecosystem changes. Monitoring bird populations is one of the most efficient ways to monitor ecosystem health and, indirectly, biological diversity. The TFP is supporting the survey of the avifauna of the El Triunfo Biosphere Reserve in Mexico. In addition, this project has developed and implemented a monitoring program for birds. This reserve contains the last significant remnant of the cloud forests of southern Mexico and a wealth of diversity, including over 640 species of birds, 1,200 of butterflies, and 8,000 of vascular plants.

Besides utilizing indicator species to monitor biological diversity, the TFP supported several programs that address habitat management for various bird populations. The TFP provided funding for a project in Mexico that will train technical personnel in population and habitat management for tropical bird species, including endangered species.

Many bird species that breed in national forests and other public and private lands of the United States and Canada migrate to Central American countries for the winter. Recent population declines of these neotropical migratory birds cannot be readily explained without a better understanding of bird responses to changes in winter habitats. An accurate understanding of population trends and habitat relationships of wintering birds can be obtained by establishing fixed stations to monitor habitat changes and bird populations in Central America. The TFP is funding projects that will provide Central American technical personnel with the skills needed to establish count stations, conduct bird surveys, capture and band birds, measure habitats, prepare field forms, use computers, and analyze data. Through TFP funding, the Rocky Mountain Forest and Range Experiment Station, in cooperation with the Wildlife Society of Mexico and the National Audubon Society, is providing training to Mexican students and natural resource professionals in standardized bird count methods, habitat survey techniques, and the associated equipment.



Crowned Plover in Masa: Masa
National Reserve, Kenya.
Photo by Bob Szaro

Forest protection projects are another approach to maintaining biological diversity. Major insect and disease infestations, especially from an introduced species, can eliminate entire species if left unchecked. Natural resource managers are aware of the loss potential of species, or a large component of species, within an ecosystem resulting from such outbreaks. The Forest Service has been fighting these problems for decades, including the gypsy moth and chestnut blight. The TFP has funded a project in Kenya to control the cypress aphid populations through biological control agents. This project will identify, collect, and introduce potential parasites of the aphid. This method of control is highly compatible with the environment and, if successful, will help maintain diversity within this Kenyan ecosystem.



Forest Protection

Biological control of forest pests is supported by the TFP to help maintain biological diversity.
Photo by USDA, FAS

Information Exchange and Environmental Education

According to the Global Biodiversity Strategy of the World Resources Institute, the World Conservation Union, and the United Nations Environment Programme, one of the root causes of biodiversity loss is lack of knowledge of the species and ecosystems. The TFP committed resources to various workshops that address the issues affecting biological diversity.

In order to maintain biological diversity, natural genetic diversity must be maintained. Poor (or no) management of ecosystems over decades may deplete this genetic diversity. The TFP supported a workshop that looked at available strategies for conservation and management of genetic resources of woody species in arid and semi-arid areas.

If biodiversity is to be maintained under sustainable management, knowledge of the latest technologies in managing ecosystems is needed—a need addressed by one of the many TFP-sponsored workshops this fiscal year. This workshop focused on the rehabilitation of degraded lands, restoration of damaged forests, and management of secondary forests in the Brazilian Amazon.

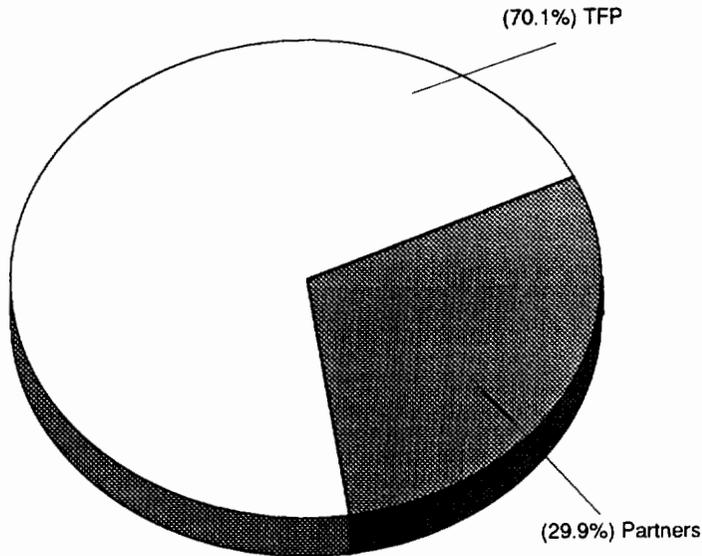
Introduced forest pests can wreck havoc to an indigenous ecosystem. The TFP sponsored a workshop on this topic in Brazil, assembling international experts in forest pest management, including representatives from South American nations presently or possibly soon affected by the European wood wasp.



TFP supports the design and implementation of workshops, such as this one in Guam, that exchange information about biodiversity subjects.
Photo by Len Newell

The Global Climate Change Prevention Act of 1990 directed the Secretary of Agriculture to designate a program for addressing global climate change. The Secretary was charged to address and “study the effects of global climate change on agriculture and forestry.” The TFP has developed a pragmatic approach to this major issue under which 17 projects funded at \$410,600 have been approved.

FY 1992 Tropical Forestry Program Funding for Climate Change



Climate Change



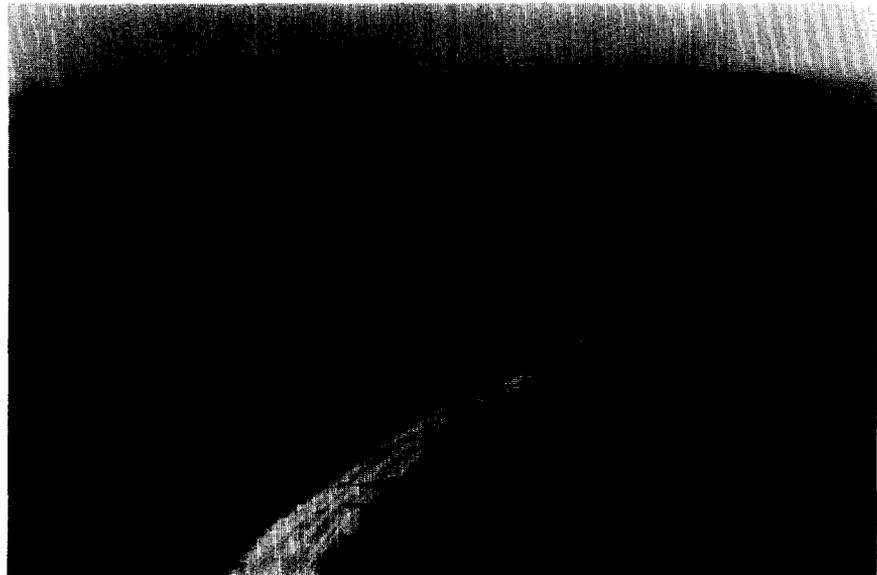
The uncontrolled clearing of forests for agricultural purposes contributes to the cumulative adverse effects on global climate.
Photo by Jerry Bauer

Fire Management

Forest fires may add sufficient gases to the atmosphere to adversely affect climate, both on a local and global scale. Reduction in the greenhouse gas emissions associated with forest burning is a goal of the TFP. We have worked with four cooperators in five countries on training, environmental education, and technical assistance in fire planning, suppression, and prevention techniques.

With emphasis on the Amazonia Ecosystem by the TFP, various projects were initiated with Brazil to combat fires and their negative impact on global climate change. A land base of over 26 million hectares, coupled with the lack of firefighting resources, makes Brazil a critical priority. The TFP is cooperating with the Institute for the Environment and Renewable Natural Resources of Brazil (IBAMA) in several fire prevention and suppression projects. A nationally recognized expert in the fire danger rating system and fuel models assisted a Brazilian fire specialist in developing these analytical tools for their protectorate. In addition, a public education program was funded by the TFP in Brazil, the purpose of which is to instill in the Brazilian public an awareness of fire and its adverse effects on the environment.

The TFP also funded projects addressing fire issues in Jamaica, Chile, Belize, and Mexico. The program in Belize not only increased their fire suppression capabilities, but improved firefighter safety.



Fire prevention and suppression projects funded by TFP help reduce the greenhouse gas emissions associated with indiscriminate burning.

Photo by Pat Durst

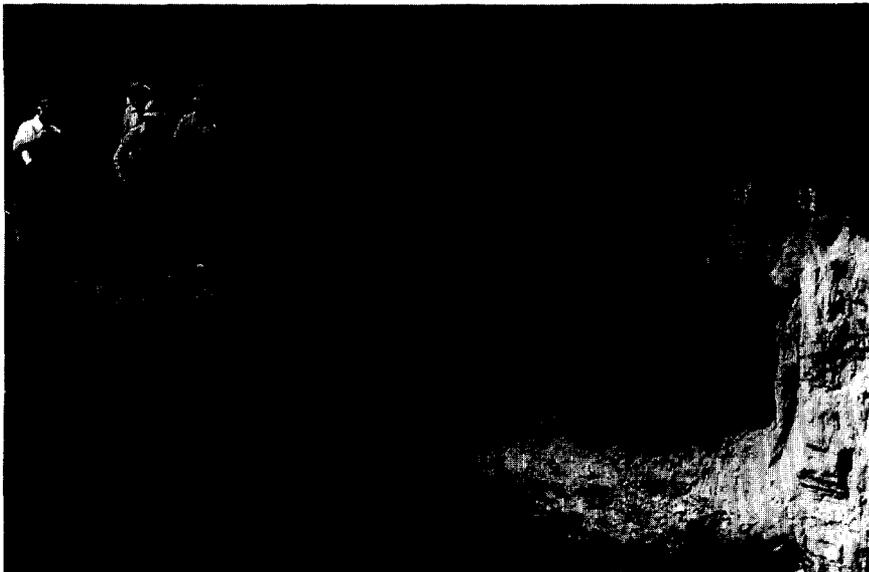
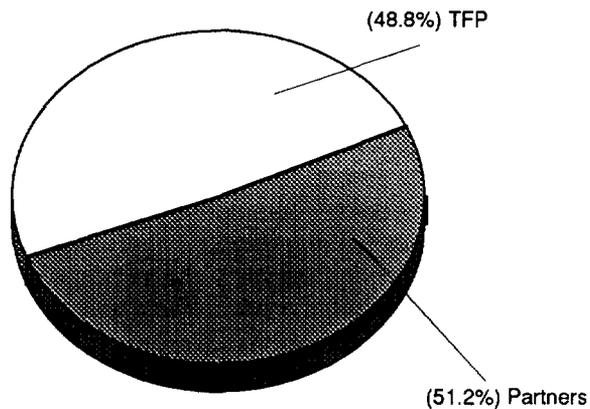
Deforestation

The International Forestry Cooperation Act of 1990 requires the Secretary of Agriculture to address the issue of tropical deforestation and degradation. Deforestation trends have been on the rise, approaching near crisis stage, over the last decade. According to a 1991 FAO study, the rate of tropical deforestation increased by 50 percent in that period. Although stable in some regions of the world, deforestation has increased substantially in others—including Africa, Latin America and the Caribbean, and Asia. The TFP has participated extensively during fiscal year 1992 in supporting projects that address deforestation of tropical forests within these regions.

Of the major issues that the TFP addresses, efforts to combat deforestation have received the greatest attention. Funding that mainly addressed this issue was almost \$3.5 million, with our partners contributing over \$3.6 million, spread over 80 separate projects.

How to slow or stop deforestation of tropical forests is a complicated issue, and there is no one clear method to attain this goal, so the TFP has addressed this issue on various fronts.

FY 1992 Tropical Forestry Program Funding for Deforestation



Deforestation leads to extreme soil erosion if left unchecked. The major issue of deforestation is being addressed by the TFP.
Photo by Dave Harcharik

Forest Monitoring and Assessment

The first step in initiating sound policy for addressing deforestation is to have an informed scientific basis from which to work. The TFP supported the application of remote sensing and GIS technology to assess and monitor tropical forest resources.

The TFP has stressed this direction in preparing to combat deforestation. By funding projects that set up a good inventory data base of the forest resources, the TFP is preparing for future projects that will more directly attack the problem of deforestation. Most developing nations have no idea of the resources within their own borders, a problem precipitated by the exploitative nature of the destruction of tropical forests. With the TFP's help in project funding, experimentation with new technologies in tropical environments is being carried out to monitor and assess the various ecosystems throughout the tropics.

The TFP supported the application of FAO's remote sensing to global forest resource monitoring through the Forest Resource Assessment 1990 project. This is a cooperative project, funded by the Forest Service and donor countries, implemented by national forest management authorities and remote sensing centers in Latin America.

The TFP is supporting two projects with the goal of developing a set of guidelines on the establishment and use of permanent monitoring sites and remote sensing techniques for forest monitoring. It is anticipated that eventually these guidelines will be used in the tropics in support of FAO's proposed *Global Continuous Forest Resource Monitoring Strategy*.

With up-to-date information on the status of tropical ecological systems, more informed policies can be developed by governments, environmental and other non-governmental organizations, and international development agencies. The Forest Service has years of experience in inventory and data analysis of forest resources that can be utilized to assist tropical countries in delineating their inventory needs.

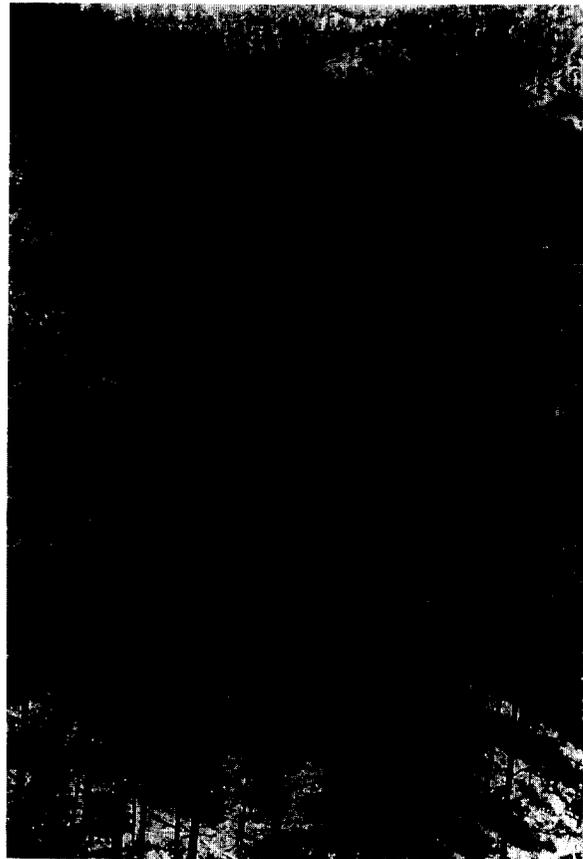


TFP funding promotes the use of mapping techniques to assist in forest planning.
Photo by S. Gale

According to the World Resources Institute, tropical forest experts agree that there is now a unique opportunity to look at the issues influencing sustainability and take action. The premise of sustainable management is to base the use of the world's limited natural resources on nature's "income," not on depletion of its "capital." Wise use of natural resources that can be sustained over millennium needs to be advocated.

The TFP started addressing the issue of sustainable management with its various cooperative agreements. The TFP is presently involved with developing "sister forest" or "twinning" relationships between various U.S. national forests and governmental organizations abroad. This year the TFP funded a \$47,750 project between Mali, West Africa, and the Cibola National Forest in New Mexico. Programs such as these can be used as "show places" of sustainable management of natural resources at work and provide for beneficial personnel exchanges at the working level.

Future projects funded by the TFP will need to address the issue of developing tropical forest resources on a sustainable basis. All values need to be examined, not just the traditional tangible economic values of timber. The value of non-timber goods—such as the fruits, oils, fuelwoods, soil and watershed protection, and subsistence food that tropical forests provide—need to be stressed. Only when those who live and work in tropical ecosystems see an economic benefit will these fragile environments have a chance to survive.



Sustainable Management

Sustainable timber management, shown here in Honduras, is one way to address the major issue of deforestation.

Photo by Dave Lombardo

Environmental Education and Training

One of the TFP's major undertakings is to fund projects that disseminate the latest technological advances in management of tropical ecosystems. Our hope is that various national policy makers and governmental and non-governmental organizations armed with this knowledge will be able to adequately protect and manage the world's tropical resources. Knowledge is an indispensable tool that the TFP has used and will continue to use to fight the rapid deforestation of tropical forests.

Over \$1 million has been allocated by the TFP in cooperation with the Peace Corps in the environmental education sector. Of 80 TFP-funded projects to combat deforestation, 28 went toward training, environmental education, or information exchange. These programs stress bringing knowledge and information to the working-level people in countries struggling with the issue. The TFP will continue to be committed to such programs, especially those that bring the latest technological tools to adequately manage, on a sustainable basis, the world's tropical forest resources.



The TFP funds training programs that disseminate the latest information in addressing the deforestation issue.

Photo by Jerry Bauer

Technical assistance, training, and support to international organizations are the three methods the TFP developed to accomplish legislative directives addressing global deforestation, climate change, and biological diversity. These three approaches, when combined, form a well-rounded tropical forestry program.

Technical assistance accounts for about 43 percent of the TFP's funding. The 100 years of natural resource management and 34,000 diversely skilled employees of the Forest Service are the greatest resource of the TFP. For this reason, we have devoted a majority of our funds to technical assistance. During this fiscal year, the TFP has funded 41 technical assistance projects, many utilizing the expertise of Forest Service personnel, to address the issues of deforestation, climate change, and biological diversity.

The TFP funded 47 training projects, expending over \$1.6 million. Target audiences, in most cases, were working-level nationals. This brings needed knowledge and skills to those that will be implementing working programs in the field.

Support to international organizations accounted for about 22 percent of TFP funding, under which 35 separate projects were funded. This approach has major significance for TFP programs, because addressing global natural resource concerns is a worldwide effort, not just a national one. With many international organizations already working to address global deforestation, climate change, and biological diversity, tying into existing programs is the most logical approach. This allows more efficient funding by the TFP, minimizing duplication and administrative cost of projects.

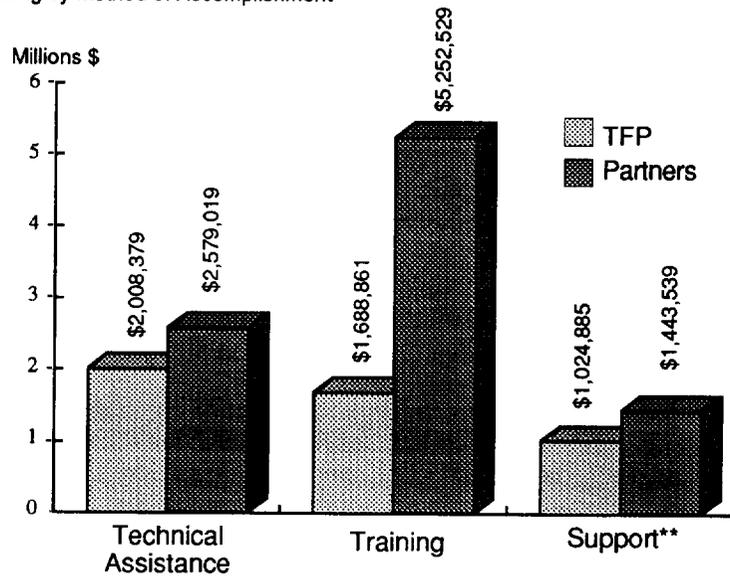


Methods of Approach

Technical assistance and training are two methods used to address the major issues of biodiversity, climate change, and deforestation.

Photo by Ron Billings

FY 1992 Tropical Forestry Program Funding by Method of Accomplishment



** Support to Organizations



Watershed management training is one approach supported by TFP for addressing major tropical forestry issues.
Photo by Jerry Bauer

The TFP, only in existence since 1990, is a relatively young organization within International Forestry (IF). IF itself has been under the auspices of a deputy area for less than a full year. With such a young organizational structure, there are many directions that both IF and the TFP can take. The Forest Service responds to fluid global environmental concerns and challenges. In the past, the challenge of environmental issues in the former communist bloc countries was not a consideration. Now, limited resources for solving the problems of deforestation, climate change, and biological diversity have to extend to this region of the world, not just the traditional areas of concern.

The TFP must meet the challenges of limited budgets and personnel while programs expand. New ways of doing business need to be developed to more efficiently use the varied resources already available within the Forest Service. A shift—in developing, monitoring, and administering project activities—from the Washington Office to the Forest Service regional offices will allow TFP funds to be used to expand our programs with a wider variety of United Nations and non-governmental organizations.

Due to limited resources and vast global environmental concerns, there is a move to focus the TFP's limited resources on a few "target countries." This concept will not forsake other world concerns but concentrate on alleviating environmental problems in key world ecosystems.

Because the TFP is a young organization, project activity funding has concentrated on monitoring and environmental education. Although these activities are important and will continue to be funded, a shift will slowly begin to fund more "hands-on" projects in sustainable forest management. This will more directly combat deforestation and enhance and maintain biodiversity, as well as indirectly address climate change concerns.



Future Vision

Supporting nursery establishment and management responds to the major issue of deforestation.
Photo by Jerry Bauer

Whatever the changes in organization, funding, or world concerns, the TFP will remain flexible in meeting the new visions and challenges of implementing sound global forest stewardship as outlined in the Global Climate Change Prevention Act of 1990 and the International Forestry Cooperation Act of 1990.



Training to promote better utilization of existing tropical forest resources reduces pressure on forests being protected.

Photo by Jerry Bauer



TFP funding to support fire prevention and suppression will protect existing tropical forest resources from further loss.

Photo by Pat Durst

Appendices

Appendix A

Fiscal Year 1992 Project Abstracts by Region

Africa Region

AF-COMOROS-IS-P.CORPS-ED-92

Region: Africa
Country: Comoros
Function: Technical assistance
Technical Code: Environmental education
TFP Contribution: \$73,933
Total Cost: \$300,000
Main Cooperators: Peace Corps, FS
Abstract: Assisted eight Peace Corps volunteers in designing, developing, and implementing an environmental education program in the Comoros. The program targets primary and secondary teachers, students in all primary and secondary grades, and the general public in 40 communities.

AF-COMOROS-CARE/DOS-IUFRO-92

Region: Africa
Country: Comoros
Function: Support to international organizations
Technical Code: Forest seeds
TFP Contribution: \$4,500
Total Cost: \$4,500
Main Cooperators: FS
Abstract: Mr. Omady Sidy, Head of Forestry Service, Anjouan, Comoros, attended the IUFRO Symposium and Workshop on Forest Seeds in Ouagadougou, Burkina Faso, from November 23 to December 8, 1992.

AF-GAB-PC-ED-92

Region: Africa
Country: Gabon
Function: Training
Technical Code: Environmental education
TFP Contribution: \$72,354
Total Cost: \$1,641,220
Main Cooperators: Peace Corps, FS
Abstract: Environmental education program incorporated into English, math, and science teaching in all regions of Gabon. Supported programming and training activities and developed an environmental education resource center for use by all teachers in Gabon. Specific activities were program assessment, training of trainers workshop, national and regional in-service training workshops, pre-service training, material support, and end-of-project evaluation. TFP funding supported project assessment, training activities, and material support.

AF-GEN-FS/FSP-DEV-92

Region: Africa
Country: Regional, tropical areas
Function: Technical assistance
Technical Code: International affairs
TFP Contribution: \$27,930
Total Cost: \$100,150
Main Cooperators: NGO's
Abstract: Supported the exchange of technical information and collaboration between international, national, and non-governmental organizations. The emphasis is on helping to increase the relevancy of non-governmental organization proposed and implemented forestry and forestry-related projects.

AF-GEN-INECN-AFROMONTANE WORKSHOP- 92

Region: Africa
Country: Burundi, Rwanda, Zaire, Uganda
Function: Technical assistance
Technical Code: Forest management
TFP Contribution: \$23,929
Total Cost: \$49,321
Main Cooperators: National Institute for the Environment and Nature Conservation, FSP, PC
Burundi Biological Diversity Project
Abstract: Workshop for the Conservation and Management for Afromontane forests to develop regional cooperation in exchanging information to reduce the pressure on natural resources.

AF-KEN-FS-APHID-92

Region: Africa
Country: Kenya
Function: Support for international organizations
Technical Code: Entomology
TFP Contribution: \$20,000
Total Cost: \$67,000
Main Cooperators: International Institute for Biological Control (IIBC), FAO, Kenya Forest Research Institute (KEFRI)
Abstract: Identified, collected, and introduced potential parasites of the devastating pest, cypress aphid, in Kenya that are highly compatible with the environment.

AF-KEN-FS-REMSEN-92

Region: Africa
Country: Kenya
Function: Technical assistance
Technical Code: Remote sensing
TFP Contribution: \$44,000
Total Cost: \$76,000
Main Cooperators: FS, FAO, EOSAT

Abstract: The cypress aphid, detected in Kenya in 1990, is causing extensive damage to plantations of Mexican Cypress vital to the country's timber supply and economy. The Kenyan government is concerned about the enormous amount of dead timber—how to locate it, how to salvage it—and protection and regeneration of devastated plantations. They have expressed a need for advanced technology, such as satellite imagery and GIS, for monitoring and assessing the damage. EOSAT granted the use of LANDSAT satellite imagery and programmed the satellites for use over the project area. LANDSAT imagery and GIS technology was used to assess and monitor the damage.

AID-MALI-92-21

Region: Africa
Country: Mali
Function: Technical assistance
Technical Code: Forest management
TFP Contribution: \$47,750
Total Cost: \$47,750
Main Cooperators: Cibola National Forest

Abstract: A continuation of the Sister Forest Program initiated in the spring of 1991 between the Cibola National Forest in the Southwest Region and the Monts Mandingues Forest, Mali, West Africa. Four Malian foresters visited the Cibola and four Cibola employees visited Mali. Issues under discussion include range management, recreation opportunities, cultural resources, environmental education, soils and hydrology, and development of partnerships.

AID-MALI-92-22-M

Region: Africa
Country: Mali
Function: Support to international organizations
Technical Code: Forest management
TFP Contribution: \$878.75
Total Cost: \$878.75
Main Cooperators: FSP

Abstract: Translation from English into French of a report entitled, *Activities and Recommendations on the Monts Mandinaues Forest*. Report was forwarded to Mali as part of a sister forest program.

FAO-ARID-92-21

Region: Africa
Country: Burkina Faso
Function: Support to international organizations
Technical Code: Biodiversity
TFP Contribution: \$48,000
Total Cost: \$105,000
Main Cooperators: FAO

Abstract: Workshop dealt with the present state of management and conservation of genetic resources of woody species in arid and semi-arid areas and available strategies for conservation of genetic resources of dry-zone species compatible with their present-day utilization.

GAMBIA-CRP-92-21

Region: Africa
Country: Gambia
Function: Training
Technical Code: Environmental education
TFP Contribution: \$13,370
Total Cost: \$35,500
Main Cooperators: Chimpanzee Rehabilitation Project (CRP)

Abstract: Provided recommendations for wildlife club development, produced illustrative guidelines for curriculum development, designed a monitoring and evaluation system for the conservation education activities, and funded production of additional education materials (comic books and slide program).

LTC-SAHEL-92

Region: Africa
Country: Mali, Niger, Chad, Senegal, Burkina Faso
Function: Support to international organizations
Technical Code: Forest policy
TFP Contribution: \$15,000
Total Cost: \$128,207
Main Cooperators: Land Tenure Center, USAID, Club du Sahel, CILSS

Abstract: The Land Tenure Center organized a workshop on Sahelian forest codes and forest policy to be held in Burkina Faso. The workshop brought together policy makers and researchers from Mali, Niger, Chad, Senegal, and Burkina Faso to discuss the findings of recent forest code research and to develop operational guidelines for reforms in the forest sectors of these five countries. The workshop supported a process of forest policy reform currently underway in these countries. These reforms seek to encourage sustainable forest management by providing individuals and communities greater incentives to plant and protect trees.

PVO-NGO-92-21

Region: Africa
Country: Kenya, Ethiopia, Mali, and semi-arid tropical forested lands
Function: Support to international organizations
Technical Code: Natural resources management
TFP Contribution: \$65,000
Total Cost: \$65,000
Main Cooperators: PVO-NGO/NRMS, CARE, WWF, Experiment in Int'l Living
Abstract: Workshop on innovative approaches to natural resources management in the pastoral sector of east and west Africa.

SAHEL-92-21

Region: Africa
Country: Mali, Senegal, Chad, Burkina Faso, and Niger
Function: Support to international organizations
Technical Code: Forest policy
TFP Contribution: \$38,377
Total Cost: \$38,377
Main Cooperators: Land Tenure Center, University of Wisconsin-Madison
Abstract: A conference, organized by the Land Tenure Center, on Sahelian forest codes and forest policy to bring together policy makers and researchers from five Sahelian countries (Mali, Niger, Chad, Senegal, and Burkina Faso) to discuss the findings of recent forest policy research and to develop operational guidelines for reforms in the forestry sectors of participating countries. These reforms seek to encourage sustainable forest management by providing individuals and communities greater incentives to plant and protect tress.

AS-IDO-UWI-TRADE-92

Region: Asia
Country: Indonesia
Function: Training
Technical Code: Forest products
TFP Contribution: \$626
Total Cost: \$850
Main Cooperators: University of Wisconsin-Madison
Abstract: Funded participation in the Forest Sector Trade and Environmental Impact Models Theory and Applications Symposium in Seattle.

Asia-Pacific Region

AS-IDO-WORLD BANK-92-21

Region: Asia
Country: Indonesia
Function: Support to international organizations
Technical Code: Forest management
TFP Contribution: \$7,635
Total Cost: \$7,635
Main Cooperators: World Bank
Abstract: Funded participation by Pacific Northwest Region employee on team that conducted forestry sector mission review.

AS-MAL-TFF-ECOLOGY-92

Region: Asia
Country: General
Function: Training
Technical Code: Forest management
TFP Contribution: \$22,475
Total Cost: \$50,000
Main Cooperators: Tropical Forest Foundation
Abstract: The Tropical Forest Foundation and the Sarawak Timber Association co-sponsored the Workshop on Ecology, Conservation, and Management of Southeast Asian Rainforests the week of October 12, 1992, in Kuching, Sarawak. The objective of the workshop was to inform Asian forestry professionals and industry and conservation representatives from around the world on the current and future status of Asian tropical forests. This dialogue provided information vital to professional foresters, scientists, and industry and government officials in developing plans for proper forest management. The workshop consisted of lectures by leading scientists (of whom over 50 are Asian) and included field trips to visit national parks and forest operations in Sarawak. TFP funding was used to partially cover registration and travel expenses of attendees, miscellaneous conference costs, and publication and distribution of proceedings.

AS-NEP-ISTF/YALE-92

Region: Asia
Country: Nepal
Function: Training
Technical Code: Community forestry
TFP Contribution: \$9,050
Total Cost: \$17,240
Main Cooperators: International Society of Tropical Foresters (ISTF), Yale University

Abstract: Funded two speakers and two students as part of exchange program between the Yale School of Forestry and Environmental Studies and Nepal's Institute of Forestry. Program focused on the October 1992 conference, Conservation and Development: Bottom-Up Strategies from the Roof of the World, organized by the Yale Student Chapter of the ISTF and the Yale Tropical Resources Institute. The exchange students also produced a record of the proceedings.

FAO-APAN-92-21

Region: Asia-Pacific
Country: Nepal, Pakistan, Philippines, Sri Lanka, Thailand, Vietnam
Function: Training
Technical Code: Agroforestry
TFP Contribution: \$66,370
Total Cost: \$125,000
Main Cooperators: FAO

Abstract: Regional agroforestry training workshop organized by the Asia-Pacific Agroforestry Network (APAN). The workshop focused on training of trainers, and emphasizes appropriate tools and approaches for agroforestry R&D. Among the outputs are agroforestry training modules, and possibly country-level agroforestry training.

AS-GEN-UMIN-TRADE-92-21

Region: Asia
Country: China, Nepal
Function: Training
Technical Code: Environmental assessment
TFP Contribution: \$800
Total Cost: \$800
Main Cooperators: FAO, University of Minnesota

Abstract: Funded travel for two U.S. graduate students to attend the FAO-sponsored symposium, Forest Sector Trade and Environmental Impact Models Theory and Applications, in Seattle.

AS-GEN-UWA-ECON-92

Region: Asia-Pacific
Country: General
Function: Training
Technical Code: Agroforestry
TFP Contribution: \$42,000
Total Cost: \$88,940
Main Cooperators: Washington State University,
ICRAF, OICD

Abstract: Short course entitled, "Training Workshops on Economic and Financial Analysis: Agroforestry and Natural Resource Workshops," designed to enable non-economist foresters, sociologists, agronomists, and decision-makers to carry out economic and financial analyses of proposed agroforestry and natural resource projects with a view to improving resource allocation decisions. Funding used for tuition and travel for the participants.

AS-SPI-R05-92-(1-5)

Region: Asia
Country: Pacific Islands
Function: Training
Technical Code: Natural Resources Management
TFP Contribution: \$183,100
Total Cost: \$349,700
Main Cooperators: FS/S&PF/PSW Region, Pacific-Asia
Quality Foundation

Abstract: Brought together all major forestry partners in the tropical Pacific islands to plan a coordinated and integrated multiyear program of work for forestry in the islands. Supported Micronesian forestry agencies in highly visible forestry projects designed to enhance public awareness of forest values and forestry work. Sent a team of nursery management trainers to visit 5 islands to work intensively with nursery managers from 10 island groups, with priority topics of record keeping and planning; identification, prevention, and control of insects, diseases, and cultural problems; seed collection, processing, and storage; pesticide safety; and asexual propagation methods. Supported influential and informed local people in leading their communities in committing to, developing, and implementing watershed regulations. Sent a team of hydrologist/watershed managers to visit up to six countries to give instruction and advice on handling specific watershed problems.

FAO-GENDER-92-21

Region: Asia-Pacific
Country: Bangladesh, Bhutan, India, Philippines, Thailand
Function: Support for international organizations
Technical Code: Women in natural resources
TFP Contribution: \$51,500
Total Cost: \$380,812
Main Cooperators: FAO

Abstract: Developed visual communications materials for FAO's Program on Gender Analysis and Forestry in Asia. The emphasis of the program is on the development of training methodology, supporting materials, and in-country expertise with respect to gender and forestry issues.

FIRE-INDO-(AS)-92-21

Region: Asia
Country: Indonesia
Function: Technical assistance
Technical Code: Fire management
TFP Contribution: \$100,000
Total Cost: \$100,000
Main Cooperators: FS

Abstract: Funding covered pre-fire planning and prevention in Indonesia and adapted an existing fire prediction system to Indonesia, identified effective basic firefighting tools and assisted in their development, and provided technical assistance in the area of aerial delivery.

FS-R5P-92-21

Region: Asia-Pacific
Country: Fed. States of Micronesia, Palau
Function: Training
Technical Code: Natural resource management
TFP Contribution: \$21,300
Total Cost: \$51,000
Main Cooperators: FS

Abstract: Developed a pilot training course integrating training in basic management skills and in use of environmental analysis to improve the quality and efficacy of projects that affect forests.

FS-R5P-92-23

Region: Asia-Pacific
Country: Fed. States of Micronesia, Western Samoa, Palau, Philippines
Function: Training
Technical Code: Natural resources management
TFP Contribution: \$33,150
Total Cost: \$66,650
Main Cooperators: FS

Abstract: Demonstrated the value of forests to leaders by taking them on a tour of destroyed forests to talk with local people and experience the difference for themselves. Established some measure of value of their current forest that will help all foresters in the islands who are attempting to rationalize forest values in presentations to decision-makers.

FS-R5P-92-24

Region: Asia-Pacific
Country: Palau, Fed. States of Micronesia, Marshall Islands
Function: Training
Technical Code: Environmental education
TFP Contribution: \$32,800
Total Cost: \$64,400
Main Cooperators: FS, Peace Corps

Abstract: Sponsored teacher and teacher-trainer workshops to deliver environmental education to children and to educate a significant portion of the island's adults (teachers and other professionals).

FS-R5P-92-25

Region: Asia-Pacific
Country: Micronesia, Marshall Islands, Kiribati, Palau
Function: Training
Technical Code: Agroforestry
TFP Contribution: \$28,700
Total Cost: \$58,800
Main Cooperators: FS

Abstract: Funded agroforestry sessions, directed toward the particular problems and opportunities for the atoll countries, promoting knowledge and activities that improve the protection of tropical natural resources, natural forest cover, and biodiversity on atolls.

FS-R5P-92-28

Region: Asia-Pacific
Country: All 15 Pacific island countries and American-affiliated islands
Function: Technical assistance
Technical Code: Natural resources management
TFP Contribution: \$39,300
Total Cost: \$80,600
Main Cooperators: FS

Abstract: Partially funded the assistant Pacific island forester position to share the overall program planning and management with the Pacific island forester, provide joint leadership in the Pacific islands, promote leadership in environmental education in the schools and churches in Micronesia and American Samoa, plan environmental education and follow-up for traditional leaders, and provide support to the Pacific basin agroforester to maximize the effectiveness of that office.

FS-R5P-92-31

Region: Asia-Pacific
Country: All 15 South Pacific countries of the SPFDP
Function: Technical assistance
Technical Code: Natural resources management
TFP Contribution: \$74,000
Total Cost: \$1,500,000
Main Cooperators: FS, UNDP, SPREP

Abstract: Funded professional forester, who assists in overall development of the forestry sector to identify and implement activities beneficial to countries on a regional basis. Supported provenance selection and improvement for timber and non-timber products and provided technical support to forestry agencies.

FS-R5P-92-30

Region: Asia-Pacific
Country: Island countries of the tropical Pacific Ocean and domestic islands
Function: Technical assistance
Technical Code: Natural resources management
TFP Contribution: \$65,000
Total Cost: \$130,000
Main Cooperators: S&PF, UNDP

Abstract: Provided 50-percent funding of a Pacific islands forester position to support the international responsibilities of the State & Private Forestry work in Hawaii and the American-affiliated islands.

**Latin America and
Caribbean Region**

FS-R5P-92-29

Region: Asia-Pacific
Country: FMS, Marshalls, Palau, S. Pacific,
U.S. Territories
Function: Technical assistance
Technical Code: Natural resources management
TFP Contribution: \$32,600
Total Cost: \$65,200
Main Cooperators: SCS
Abstract: Provided 50-percent funding for the Pacific basin agroforester position. The position provides leadership in agroforestry for erosion control, watershed management, improving local nutrition using trees as an agricultural component, and training extensionists.

RECOFTC-92-21

Region: Asia
Country: Thailand
Function: Training
Technical Code: Rural development
TFP Contribution: \$19,906
Total Cost: \$30,000
Main Cooperators: Regional Community Forestry
Training
Abstract: Funded participation of two students (one each from India and Indonesia) in 1992 RECOFTC 6-month certificate course.

BIRDS-CA-92-21

Region: LAC
Country: Mexico
Function: Technical assistance
Technical Code: Natural resources management
TFP Contribution: \$11,320
Total Cost: \$16,720
Main Cooperators: FS
Abstract: Supported a relationship between Klamath National Forest and El Triunfo Reserve in Mexico under the Sister Forest Project. This included two trips to establish a memorandum of understanding and start implementing projects aimed at meeting the goals. The trips included field visits to observe various wildlife monitoring techniques, reforestation activities, and a visit with fire personnel to discuss fire training needs and assist in development of training.

BIRDS-MEX-92-21

Region: LAC
Country: Mexico
Function: Technical assistance
Technical Code: Wildlife management
TFP Contribution: \$5,000
Total Cost: \$14,000
Main Cooperators: FS, Colorado Bird Observatory
Abstract: Compiled and published information pertaining to western migratory birds and needs for habitat management in Mexico. This effort will identify needs and opportunities for funding of projects that manage and protect western birds and their wintering habitat.

BIRDS-MEX-92-22

Region: LAC
Country: Mexico
Function: Technical assistance
Technical Code: Wildlife management
TFP Contribution: \$16,600
Total Cost: \$47,500
Main Cooperators: FS
Abstract: Funded inventory and monitoring of neotropical migratory birds and other resources in the Calakmul Biosphere Reserve in Yucatan, Mexico, and provided recommendations and a management plan for bird species and habitats in the reserve.

BIRDS-NC-92-21

Region: LAC
Country: Jamaica
Function: Technical assistance
Technical Code: Wildlife management
TFP Contribution: \$19,000
Total Cost: \$41,650
Main Cooperators: FS
Abstract: Supported a partnership between the Blue Mountain/ John Crow Forest Reserve, Jamaica, and National Forests in North Carolina, Cherokee National Forests, and Southeastern Forest Experiment Station to conserve neotropical migratory birds and develop a conservation action plan to address other natural resource issues.

BIRDS-RARE-92-21

Region: LAC
Country: Jamaica
Function: Training
Technical Code: Environmental education
TFP Contribution: \$25,000
Total Cost: \$25,000
Main Cooperators: RA Center for Tropical Conservation
Abstract: Funded conservation education program to build public support for a key pilot park, the newly established Blue Mountain/John Crow Mountain National Park above Kingston.

BIRDS-TX-92-21

Region: LAC
Country: Panama
Function: Technical assistance
Technical Code: Natural resources management
TFP Contribution: \$15,500
Total Cost: \$35,350
Main Cooperators: FS
Abstract: Funded the establishment of a partnership between the Darien National Park, Panama, and the Sam Houston National Forest to conserve neotropical migratory birds and develop a conservation action plan to address other natural resource issues.

BIRDS-VOL-92-21

Region: LAC
Country: Mexico
Function: Training
Technical Code: Wildlife management
TFP Contribution: \$34,470
Total Cost: \$61,070
Main Cooperators: FS
Abstract: Provided training to Mexican volunteers in habitat and bird inventory techniques.

BIRDS-VOL-92-22

Region: LAC
Country: Mexico
Function: Training
Technical Code: Wildlife management
TFP Contribution: \$1,900
Total Cost: \$4,000
Main Cooperators: Klamath National Forest

Abstract: Mexican intern assisted in the monitoring of a population of Swainson's hawks in northern California. The intern received training in behavioral monitoring, trapping and colormarking, and habitat inventory techniques. After completion of northern California field season, the intern participated in migration studies conducted by Hawk Mountain and Hawkwatch International in southern Mexico. The intern will use skills gained in the U.S. study to locate communal roost sites used by migrating Swainson's hawks in Mexico and develop habitat conservation plans for critical roost areas.

BRAZIL-PARK-92-21

Region: LAC
Country: Brazil
Function: Training
Technical Code: Environmental education
TFP Contribution: \$10,400
Total Cost: \$55,840
Main Cooperators: IBAMA, WWF, NPS, Instituto Florestal de Sao Paulo

Abstract: Partially funded attendees of a 10-day course to train college students, park/reserve technicians, and rangers in environmental techniques. Technicians will then train 12 college students to establish a qualified cadre of interpreters.

BRAZIL-PLAN-(SAC)-92-21

Region: LAC
Country: Brazil
Function: Training
Technical Code: Fire management
TFP Contribution: \$46,000
Total Cost: \$55,000
Main Cooperators: IBAMA

Abstract: Developed public education programs in Brazil that instill an awareness of fire effects and knowledge of fire prevention techniques. Funded Brazilian visit to the U.S. to gain firsthand experience in district- and forest-level education and prevention programs. Also funded FS employees travel to Brazil to cooperatively adapt similar programs to Brazil's needs and culture. Provided technical assistance to IBAMA in the development of a fire management plan for Brasilia National Park. Provided Brazilian fire technicians field experience and training in prescribed fire and presuppression. The presuppression training emphasized the type of planning efforts and program management needed to ensure adequate field-level preparedness for suppression efforts.

BRAZIL-SENIOR-(LAC)-92-21

Region: LAC
Country: Brazil
Function: Training
Technical Code: Fire management
TFP Contribution: \$20,000
Total Cost: \$20,000
Main Cooperators: FS/FAM

Abstract: Funded policy and strategy training in the U.S. for senior level officials at the CBMDF Fire Academy. Emphasis was on planning, coordination, and training.

CATIE-SILVA-(LAC)-92-21

Region: LAC
Country: Costa Rica
Function: Training
Technical Code: Forest management
TFP Contribution: \$21,600
Total Cost: \$45,600
Main Cooperators: Centro Agronomico Tropical de
Investigation y Ensenanza

Abstract: Sponsored participants and lecturers to the 5th International Course on Silviculture and Management of Natural Tropical Forests held in CATIE, Costa Rica.

CATIE-PDBS-92-21

Region: LAC
Country: Costa Rica
Function: Support to international organizations
Technical Code: Pest management
TFP Contribution: \$28,500
Total Cost: \$30,000
Main Cooperators: CATIE, ROGAP
Abstract: Printed two documents for identification and management of pests and diseases of multipurpose tree species in Central America.

FAO-ANDES-92-21

Region: LAC
Country: Andes region, particularly Colombia, Ecuador, Bolivia, & Peru
Function: Support to international organizations
Technical Code: Natural resources management
TFP Contribution: \$25,000
Total Cost: 55,500
Main Cooperators: FAO
Abstract: Printed a book providing information on the characteristics, methods of propagation, use, and potential of native woody species found in the Andean highlands.

FAO-APO-BRAZIL

Region: LAC
Country: Brazil
Function: Technical assistance
Technical Code: Remote sensing
TFP Contribution: \$117,000
Total Cost: \$297,000
Main Cooperators: FAO, IBAMA
Abstract: Provided 2nd-year funding to support continuation of a FS remote sensing specialist working with the FAO Forest Resources Assessment Project in Brazil. See also FAO-FOR-91-03.

FAO-BRAZIL-(LAC)-92-21

Region: LAC
Country: Brazil
Function: Support to international organization
Technical Code: Remote sensing
TFP Contribution: \$117,840
Total Cost: \$136,840
Main Cooperators: FAO
Abstract: Application of remote sensing to global forest resources monitoring in Brazil.

FAO-ED-92-21

Region: LAC
Country: General
Function: Support to international organizations
Technical Code: Environmental education
TFP Contribution: \$90,000
Total Cost: \$2,500,000
Main Cooperators: FAO, the Netherlands, Italy
Abstract: Initiated information gathering, development of training materials, and pilot training activities that will support the further development of the Trees for Education component of the FAO Trees for Life Programme.

FAO-PDB-92-21

Region: LAC
Country: General
Function: Technical assistance
Technical Code: Natural forest management
TFP Contribution: \$35,000
Total Cost: \$95,000
Main Cooperators: FAO
Abstract: Publication and distribution of the document entitled, *Management of Moist Tropical Forests in Latin America*, in English and Spanish.

FAO-WASP-92-21

Region: LAC
Country: General
Function: Support to international organizations
Technical Code: Entomology
TFP Contribution: \$25,580
Total Cost: \$75,400
Main Cooperators: FAO, IBAMA
Abstract: Workshop that brought together international experts in forest pest management with representatives of South American nations presently or possibly soon affected by the European wood wasp.

FIRE-BRAZIL-92-21

Region: LAC
Country: Brazil
Function: Technical assistance
Technical Code: Fire management
TFP Contribution: \$10,000
Total Cost: \$10,000
Main Cooperators: FS
Abstract: Prepared a wildland firefighting exhibit for the First International Congress of Civil Defense in Sao Paulo and conducted a smokejumper feasibility assessment working cooperatively with the bombeiros (firefighters) in the Federal District and personnel from PREVFOGO, IBAMA.

FIRE-COMP-(LAC)-92-21

Region: LAC
Country: Mexico
Function: Technical assistance
Technical Code: Fire management
TFP Contribution: \$3,500
Total Cost: \$3,500
Main Cooperators: FS

Abstract: Funded technical assessment by FS computer specialists expert in fire management systems and operating procedures. The team looks at current technology in use in the FS and the potential of adaptation in Mexico, at both the national and state levels. Also conducted a review of the status of hardware and software in use in SARH and assisted in the development of a long range plan for acquisition, installation, and training.

FIRE-COOP -(LAC)- 92-21

Region: LAC
Country: Brazil
Function: Technical assistance
Technical Code: Fire management
TFP Contribution: \$8,000
Total Cost: \$8,000
Main Cooperators: FS FAM

Abstract: Provided technical support to Brazil in the development of a Mutual Aid Exchange Agreement with private industry. Assisted in addressing the specific issues involved when incorporating private resources in fire management activities, including contracting, training, and logistical coordination. In addition, provided assistance in developing the incident command system to make the two compatible.

FIRE-DANGER -(LAC)- 92-21

Region: LAC
Country: Brazil
Function: Technical assistance
Technical Code: Fire management
TFP Contribution: \$14,000
Total Cost: \$14,000
Main Cooperators: FS TAM

Abstract: Developed a fire danger rating system and fuel model system for Brazil. This included determining how and where to use existing weather stations and set up new ones, how to measure fuel loading, and how to identify high risk areas. Assisted in development of a communications network that ties the detection system to the firefighter.

FIRE-MEET-92-21

Region: LAC
Country: Brazil
Function: Training
Technical Code: Fire management
TFP Contribution: \$25,000
Total Cost: \$82,000
Main Cooperators: USAID, FS

Abstract: Partially funded the first national meeting and symposium for fire managers and bombeiros (firefighters), covering all aspects of fire management, fire effects, and fire research results for Brazilian ecosystems.

FIRE-MEX-CAN (SAC) 92-21

Region: LAC
Country: Mexico
Function: Training
Technical Code: Fire management
TFP Contribution: \$3,000
Total Cost: \$43,000
Main Cooperators: FS, Canada Training Program

Abstract: Provided language assistance between British Columbia forestry officials and Mexican officials to set up a training exchange for firefighters in Mexico.

FIRE-PRESC-(LAC)-92-21

Region: LAC
Country: Mexico
Function: Training
Technical Code: Fire management
TFP Contribution: \$5,800
Total Cost: \$7,300
Main Cooperators: FS

Abstract: Funded travel for SARH fire specialists to the U.S. to work on prescribed fire projects on a national forest ranger district. The experience and training was transferred to SARH by the returning SARH officials, who were accompanied by an FS specialist to assist in implementation.

FIRE-SUP-(LAC)-92-21

Region: LAC
Country: Brazil
Function: Training
Technical Code: Fire management
TFP Contribution: \$55,000
Total Cost: \$55,000
Main Cooperators: FS FAM

Abstract: Funded Brazilian firefighters' travel to the U.S. to work with various types of FS fire suppression crews: Hotshot (IHG), helitack, and engine. They gained technical expertise in suppression methods and techniques and knowledge of crew management and training needs.

FIRE-TECH-92-21

Region: LAC
Country: Brazil
Function: Technical assistance
Technical Code: Fire management
TFP Contribution: \$40,000
Total Cost: \$40,000
Main Cooperators: FS FAM

Abstract: Assisted in the development of a basic fire training program at the Brasilia Fire Academy. Developed training priorities and course content and materials. Also assisted with the initial instruction of the course at the academy, providing a train-the-trainer program.

FS-BELIZE-(LAC)-92-21

Region: LAC
Country: Belize
Function: Technical assistance
Technical Code: Natural resources management
TFP Contribution: \$5,000
Total Cost: \$19,200
Main Cooperators: Lewis and Clark National Forest

Abstract: Formalized the linkage between the Lewis and Clark National Forest and land managers and educators in Belize as part of the Conservation Ambassador's Initiative.

FS-BELIZE-92-22

Region: LAC
Country: Belize
Function: Technical assistance
Technical Code: Fire management
TFP Contribution: \$17,400
Total Cost: \$67,500
Main Cooperators: Lewis and Clark National Forest

Abstract: Partially funded the development and delivery of the Forestry Department of Belize's (FDB) first firefighter training course.

FS-BIOTROPICA-(LAC)-92-21

Region: LAC
Country: Various Latin American countries
Function: Support to international organizations
Technical Code: Environmental education
TFP Contribution: \$12,500
Total Cost: \$25,000
Main Cooperators: USAID, Association for Tropical
Biology

Abstract: Purchased 100 complete sets of the biological journal *Biotropica*, which were given to various libraries located in Latin America.

FS-DOM-DEMO-(LAC)-92-211-22

Region: LAC
Country: Dominica
Function: Technical assistance
Technical Code: Agroforestry
TFP Contribution: \$164,450
Total Cost: \$318,000
Main Cooperators: FS, Peace Corps

Abstract: Demonstrated and provided training and technology transfer, primarily in sustainable agroforestry and secondary forest management, applicable to wet and moist forest ecosystems in Latin American and the Caribbean.

FS-GUAT-92-21

Region: LAC
Country: Guatemala
Function: Support to international organizations
Technical Code: Environmental education
TFP Contribution: \$1,200
Total Cost: \$200,000
Main Cooperators: Peace Corps, FS

Abstract: Printed a manual for school teachers to be used as a guide in establishing and caring for small tree nurseries, the importance of trees and forests, why communities need forests and other natural resources, and the consequences of not caring for the land.

FS-GUAT-92-21

Region: LAC
Country: Guatemala
Function: Training
Technical Code: Women in natural resources
TFP Contribution: \$8,400
Total Cost: \$26,850
Main Cooperators: USAID, FS

Abstract: The Rural Roads Program of the Guatemalan General Directorate of Roads employs social workers to organize rural community committees and to work on a variety of projects that involve natural resource management and environmental education. To date, there has been very little participation of women in these committees. A seminar/workshop was organized to increase the social workers' understanding of barriers to women's participation and to improve rural women's involvement in project design and implementation. Numerous organizations, both public and private, participated.

FS-GUAT-ED-92-21

Region: LAC
Country: Guatemala
Function: Training
Technical Code: Environmental education
TFP Contribution: \$7,500
Total Cost: \$10,500
Main Cooperators: Peace Corps, FS, AID

Abstract: Funded the printing of an environmental education manual for use by rural school teachers and Peace Corps volunteers. The Spanish title of the manual is *Hazlo y Muestralo: Juego Internacional de Proyectos Conservacionistas*.

FS-R8P-92-21

Region: LAC
Country: General
Function: Support to international organizations
Technical Code: Natural resources management
TFP Contribution: \$36,800
Total Cost: \$36,800
Main Cooperators: FS

Abstract: Supported the Sixth Biannual Caribbean Forester's Meeting and publication of the proceedings. A major portion of the meeting was devoted to reports on the state of natural resource management, projects, and current issues faced by each of the participating countries.

FS-R8P-92-22

Region: LAC
Country: St. Vincent and the Grenadines
Function: Training
Technical Code: Natural resources management
TFP Contribution: \$3,300
Total Cost: \$3,300
Main Cooperators: FS
Abstract: Funded a 2-week tropical dendrology short course for forestry technicians of St. Vincent and the Grenadines.

FS-R8P-(LAC)-92-23

Region: LAC
Country: Grenada, St. Lucia, St. Vincent and

FS-R8P-(LAC)-92-26

Region: LAC
Country: Mexico
Function: Technical assistance
Technical Code: Natural resources management
TFP Contribution: \$1,500
Total Cost: \$1,500
Main Cooperators: FS

Abstract: Observed and evaluated the possibility of future FS assistance (FS instructors) to the RESERVA Protected Area Managers program.

FS-R8P-92-27

Region: LAC
Country: Caribbean
Function: Technical assistance
Technical Code: Natural resources management
TFP Contribution: \$50,000
Total Cost: \$50,000
Main Cooperators: FS

Abstract: Funded the cooperative tropical forestry coordinator position for TFP support and coordination.

HON-WATER-92-21

Region: LAC
Country: Honduras
Function: Technical assistance
Technical Code: Watershed management
TFP Contribution: \$5,000
Total Cost: \$5,000
Main Cooperators: SANAA/Honduras

Abstract: Approved an initial exchange of personnel to develop a project concerned with forest management practices in municipal watersheds between the Honduras Dept. of Waterworks and the FS.

ITF-REHAB-(LAC)-92-21

Region: LAC
Country: Brazil
Function: Training
Technical Code: Forest management
TFP Contribution: \$30,000
Total Cost: \$71,000
Main Cooperators: ITF, IBAMA, EMBRAPA

Abstract: Partially funded a 4-day workshop focusing on the rehabilitation of degraded lands, restoration of damaged forests, and management potential for secondary forests in the Brazilian Amazon that provided a forum for the exchange of technical information among American and Brazilian scientists and forest managers working in these fields.

ITF-SILVICS -(LAC)- 92-21

Region: LAC
Country: Brazil
Function: Training
Technical Code: Silviculture
TFP Contribution: \$21,000
Total Cost: \$114,000
Main Cooperators: ITF, FS

Abstract: Published a silvics manual for economically important or promising forest trees of the Brazilian Amazon containing individual species descriptions. These were based upon a synthesis of existing knowledge and completed research, written collaboratively, and involving both Institute of Tropical Forestry (ITF) personnel and research scientists at several Brazilian institutions. Publication was in both English and Portuguese.

ITF-TAPAJOS-92-21

Region: LAC
Country: Brazil
Function: Technical assistance
Technical Code: Forest management
TFP Contribution: \$28,750
Total Cost: \$71,380
Main Cooperators: ITF, FS

Abstract: Collected photographs of trees of the Tapajos National Forest, Para, Brazil, and produced a photo identification guide for about 200 species. Text of the guide is in both Portuguese and English.

LAC-BRA-FS-ASSESS-92

Region: LAC
Country: Brazil
Function: Technical assistance
Technical Code: Natural resources management
TFP Contribution: \$2,300
Total Cost: \$2,300
Main Cooperators: FS

Abstract: Funded travel to Brazil to meet with government officials to determine/assess opportunities for FS participation/technical assistance to Brazilian forest/natural resource management agencies (IBAMA & EMBRAPA).

LAC-CHI-FS-FSRE-92

Region: LAC
Country: Chile
Function: Training
Technical Code: Fire management
TFP Contribution: \$20,000
Total Cost: \$20,000
Main Cooperators: USFA FAM
Abstract: Funding continued an existing exchange program by bringing Chilean firefighters to the United States for training.

LAC-DCA-CNRS-DEM-92

Region: LAC
Country: Dominica
Function: Technical assistance
Technical Code: Forest management
TFP Contribution: \$50,000
Total Cost: \$120,100
Main Cooperators: Caribbean Natural Resources Institute
Abstract: Partially funded a pilot demonstration of tropical forests that are ecologically, economically, and socially sustainable. Activities included training of sawyers in conservation measures, stand improvement, safety practices, reforestation techniques, monitoring the impact of harvesting and timber stand improvement on the plot, and enhancement of public awareness of the importance of sustainable forest harvest.

LAC-GEN-CATIE-SILVICS-92

Region: LAC
Country: General
Function: Training
Technical Code: Silviculture
TFP Contribution: \$28,920
Total Cost: \$41,500
Main Cooperators: CATIE
Abstract: Partially funded the Regional Short Course on Technology Transfer of the Silviculture of Multipurpose Tree Species held at CATIE in October 1992.

LAC-GUAT-AID/FS-COMP-92

Region: LAC
Country: Guatemala
Function: Support to international organizations
Technical Code: Computers
TFP Contribution: \$12,200
Total Cost: \$12,200
Main Cooperators: AID, FS
Abstract: Purchased computer equipment for use in environmental management of USAID's Farm-to-Market Rural Roads Project and FS activities in Guatemala.

LAC-GUAT-PC-TREE GUIDE-92

Region: LAC
Country: Guatemala
Function: Support to international organizations
Technical Code: Forest management
TFP Contribution: \$1,400
Total Cost: \$1,400
Main Cooperators: Peace Corps

Abstract: Printed a tree identification guide for use by Peace Corps volunteers and their local counterparts that also contains a section on agroforestry and reforestation methods that can be used in Guatemala.

LAC-JAM-TREC-FIRE-92

Region: LAC
Country: Jamaica
Function: Training
Technical Code: Fire management
TFP Contribution: \$24,300
Total Cost: \$40,450
Main Cooperators: Jacks Hill Community Council
Tourism Recreation & Environment
Committee

Abstract: Partially funded an environmental education and reforestation program that focuses on developing community-based fire response strategies and organizing, training, and supplying volunteer groups to monitor and preserve public and private lands in the Jacks Hill area. Local volunteers were trained in feasible fire control and restoration practices, public forums, workshops on fire management, and the summer agricultural and reforestation program on land restoration. Documentation of the project was completed in a video, *The Hills are Burning*, an example of one community's reaction and response to excessive bush fires.

LAC-MEX-NMSU-NURSERY-CODRSE-92

Region: LAC
Country: Mexico
Function: Training
Technical Code: Nursery management
TFP Contribution: \$9,000
Total Cost: \$9,000
Main Cooperators: New Mexico State University

Abstract: Supported participants attending a workshop on Forest Nursery Production and Seedling Establishment.

LAC-MEX-NWTF-TRAINING-92

Region: LAC
Country: Mexico
Function: Training
Technical Code: Wildlife management
TFP Contribution: \$19,000
Total Cost: \$19,000
Main Cooperators: National Wild Turkey Federation, FS
Abstract: Provided training (inventory, monitoring, and capture techniques) to SEDUE (Wildlife Agency for Mexico) biologists.

LAC-MEX-SFES-REM SEN-92

Region: LAC
Country: Mexico
Function: Technical assistance
Technical Code: Remote sensing
TFP Contribution: \$46,000
Total Cost: \$57,000
Main Cooperators: SO-FIA, SARH, INEGI
Abstract: This project provided the National Forest Inventory (SARH) and the National Mapping Agency (INEGI) a methodology for the use of AVHRR imagery for forest cover mapping projects. Forest cover density within AVHRR picture elements will be modelled from coregistered LANDSAT TM or MSS imagery. A secondary procedure will be to identify changes in forest cover with multi-date sets of AVHRR/ LANDSAT imageries.

LAC-NIC-FS-FIRE-92

Region: LAC
Country: Nicaragua
Function: Training
Technical Code: Fire management
TFP Contribution: \$12,800
Total Cost: \$12,800
Main Cooperators:
Abstract: Provided basic fire experience in suppression tactics, through short assignments with regional interagency installations, and experience in fire effects evaluation in a variety of habitats and plant associations, including threatened and endangered species, for Nicaraguan firefighters.

LAC-USFWS-RESERVA-92

Region: LAC
Country: Mexico
Function: Training
Technical Code: Reserve/Protected area management
TFP Contribution: \$103,550
Total Cost: \$243,100
Main Cooperators: FS, USFWS, DDMAC

Abstract: Continued the financial support initiated in fiscal year 1991 to provide the RESERVA training for reserve managers, who benefit by improving their skills, enabling them to better protect and manage established protected areas.

OAS-SLIDES-92-21

Region: LAC
Country: Guatemala
Function: Training
Technical Code: Road management
TFP Contribution: \$11,000
Total Cost: \$23,000
Main Cooperators: Organization of American States, USAID

Abstract: Partially funded a 1-week training workshop for staff members of the Guatemalan Direccion General de Caminos (DGC) in rehabilitation of rural roads following storm damage. The focus was on remedial measures for dealing with roadcut failures and landslips, roadbed erosion, and drainage failures. A second 3-week workshop was also held, for geologists and DGC staff, in the preparation of landslide susceptibility maps and practical landslide investigation techniques.

UNIV-HAM-92-21

Region: LAC
Country: Ecuador
Function: Support to international organizations
Technical Code: Communication in natural resources
TFP Contribution: \$25,000
Total Cost: \$107,175
Main Cooperators: University of Idaho

Abstract: Partially funded development of a Spanish-language book on communicating in natural resources. The book is aimed at foresters, extension specialists, educators, scientists, and technicians working in Latin American tropics.

UNIV-PEACE-92-21

Region: LAC
Country: Costa Rica
Function: Training
Technical Code: Agroforestry
TFP Contribution: \$13,250
Total Cost: \$42,750
Main Cooperators: University of Peace
Abstract: Partially funded an international course in agroforestry with emphasis on the interrelationships between human development and sustainable land use.

UNIV-PEACE-92-22

Region: LAC
Country: Costa Rica
Function: Training
Technical Code: Natural resources management
TFP Contribution: \$15,800
Total Cost: \$70,150
Main Cooperators: University of Peace
Abstract: Partially supported Central American participants attending the III Mobile Workshop on Buffer Zone Management. The focus of the workshop was on the principles and practice of management of lands around protected areas to maintain their biological values, improve the standard of living of their inhabitants, and stabilize and improve land use with minimal impact on adjacent reserves.

WWF-COS-92-21

Region: LAC
Country: Costa Rica
Function: Training
Technical Code: Natural resources management
TFP Contribution: \$5,800
Total Cost: \$5,800
Main Cooperators: WWF, FS
Abstract: Funded travel for Forest Service specialist to a training seminar for forest managers from Costa Rica's Departamento General Forestal.

Global Projects

WWF-PILOT-92-21

Region: LAC
Country: General
Function: Support to international organizations
Technical Code: Natural resources management
TFP Contribution: \$145,354
Total Cost: \$324,497
Main Cooperators: World Wildlife Fund
Abstract: Partially funded the WWF Natural Forest Management Cooperative Project providing short- and long-term technical assistance for ongoing projects in Latin America, offering a natural forest management training course in Costa Rica for 15 project technicians, and promoting twinning of U.S. national forests with forest management projects in Latin America.

FAO-APO-92

Region: Global
Country: General
Function: Technical assistance
Technical Code: Remote sensing
TFP Contribution: \$296,000
Total Cost: \$325,000
Main Cooperators: FAO
Abstract: Funded FS remote sensing specialist in Rome to assist FAO in their global forest resources assessment project measuring deforestation and land conversion.

FAO-FRA-BIO-92-11

Region: Global
Country: General
Function: Support to international organizations
Technical Code: Biodiversity
TFP Contribution: \$5,300
Total Cost: \$11,150
Main Cooperators: FAO
Abstract: Reviewed information at FAO headquarters on tropical forests for the Forest Resource Assessment with particular reference to biodiversity loss and recommended a plan of work to incorporate biodiversity studies into future tropical forest inventories.

FAO-JANI-(GL)-92-21

Region: Global
Country: General
Function: Technical assistance
Technical Code: Remote sensing
TFP Contribution: \$22,600
Total Cost: \$22,600
Main Cooperators: FAO
Abstract: Funded a consultancy from FS to work on compilation of works generated by FRA 1990 Project.

FAO-MANGROVE-92-21

Region: Global
Country: General
Function: Support to international organizations
Technical Code: Environmental education
TFP Contribution: \$50,000
Total Cost: \$155,676
Main Cooperators: FAO

Abstract: Partially funded translation from French into Spanish and English and publication of the FAO Forestry Paper entitled, "Moist Tropical Forest Management in Latin America," which will raise awareness at the decision-making and technical levels of the value of moist tropical forests.

FAO-WATER-92-21

Region: Global
Country: General
Function: Support to international organizations
Technical Code: Watershed management
TFP Contribution: \$25,000
Total Cost: \$75,000
Main Cooperators: FAO

Abstract: Partially funded an international workshop on Extension and Community Involvement in Watershed Management held in Caracas, Venezuela.

FS-IFAP-92-21

Region: Global
Country: General
Function: Training
Technical Code: Natural resources management
TFP Contribution: \$19,400
Total Cost: \$19,400
Main Cooperators: FSP, AID

Abstract: Sent skilled but inexperienced FS employees on short-term international assignments through the International Forestry Apprentice Program (IFAP). This included one person from the Pacific Southwest Region sent with team conducting an environmental assessment of the proposed expansion of the Community Forestry Program of the Foundation for the Peoples of the South Pacific. Another person from the Pacific Northwest Region went to the Philippines to assist in the training of Peace Corps volunteers under the Small Islands Integrated Development Program. A third person from the Washington Office went to Pakistan to assist the USAID/Pakistan Mission in organizing a workshop for women in forestry. A fourth person from the Southern Region went to Honduras for agroforestry extension work.

FPL-INTERNS-92-21

Region: Global
Country: General
Function: Training
Technical Code: Wood utilization
TFP Contribution: \$95,000
Total Cost: \$216,000
Main Cooperators: Forest Products Laboratory
Abstract: Funded interns for the FS Training Program on Tropical Woods.

FS-FELLOWS-92-21

Region: Global
Country: General
Function: Training
Technical Code: Forest management
TFP Contribution: \$12,800
Total Cost: \$12,800
Main Cooperators: University of Michigan and University of Puerto Rico
Abstract: Funded fellowships for the fall international forestry seminar and the new International Seminar on Multiple Use Land Management.

FS-SO-92-21

Region: Global
Country: General
Function: Support to international organizations
Technical Code: Wood utilization
TFP Contribution: \$6,000
Total Cost: \$12,000
Main Cooperators: FS, FPRS, JWRS
Abstract: Sponsored participants from Brazil, Malaysia, Indonesia, and the Philippines to attend and present manuscripts at the workshop and symposium in Taiwan on Adhesive Technology for Tropical Woods.

GL-GEN-STRI-TRAIN-92

Region: Global
Country: Panama, Mexico, Indonesia, Malaysia
Function: Training
Technical Code: Natural resources management
TFP Contribution: \$41,620
Total Cost: \$41,620
Main Cooperators: Smithsonian Tropical Research Institute

Abstract: Funded the following: (1) Support for students and development of a Forest Service Internship Program in Panama; (2) Training and technical assistance program in Mexico in conjunction with a collaborative CTFS-Universidad Nacional Autonoma de Mexico project in the Montes Azules Biosphere Reserve, Lacandon Forest, Chiapas, Mexico; (3) Training and technical assistance program in Indonesia, in conjunction with a collaborative CTFS-Indonesian Agency for Forest Research and Development project at the Wanariset station of the Samarinda Research Institute, Kalimantan, Indonesia; and (4) Silviculture workshop in Malaysia on the management of lowland dipterocarp forests in tropical Asia.

GL-NFAU-REM SENS-92

Region: Global
Country: General
Function: Training
Technical Code: Remote sensing
TFP Contribution: \$20,500
Total Cost: \$300,000
Main Cooperators: Native Forestry Applications Program
Abstract: Supported the integration of remote sensing technology with land management planning and the maintenance of training levels of FS employees working in remote sensing.

GL-PNW-TRADE ANALYSIS-92

Region: Global
Country: General
Function: Technical assistance
Technical Code: Marketing & trade
TFP Contribution: \$12,500
Total Cost: \$22,500
Main Cooperators: FS
Abstract: Partially funded a study of U.S. forest products trade with tropical countries conducted by the Pacific Northwest Research Station.

GL-PNW-WORKSHOP-92

Region: Global
Country: General
Function: Support to international organizations
Technical Code: Forest management
TFP Contribution: \$15,000
Total Cost: \$25,000
Main Cooperators: Pacific Northwest Research Station

Abstract: In cooperation with the World Bank, the research station worked in forest sector analysis in tropical developing countries. Initial products will include at least three publications providing background and guidelines for forest sector analysis applicable in tropical developing countries. Subsequent products may include regional workshops.

GL-PEACE CORPS-WORKSHOP-92

Region: Global
Country: General
Function: Training
Technical Code: International affairs
TFP Contribution: \$46,000
Total Cost: \$46,000
Main Cooperators: Peace Corps, FS

Abstract: Funded a joint workshop to help cement a partnership between the Peace Corps and FS designed to provide training to support Peace Corps activities.

GL-PC-TECH ASSISTANCE-92

Region: Global
Country: General
Function: Technical assistance
Technical Code: Natural resources management
TFP Contribution: \$557,237
Total Cost: \$557,237
Main Cooperators: Peace Corps, FS

Abstract: The Tropical Forest Conservation and Environmental Education Program formed a partnership between the Peace Corps and FS to provide support to Peace Corps' programs for the environment in 31 tropical countries. FS contributed personnel (approximately 51 individual trips) as short-term advisors and consultants for assessment, evaluation, design, and training activities. The TFP contributed travel costs and related expenses. Peace Corps contributed approximately 651 person-years of volunteers' time as field personnel to implement project activities.

GL-UMICH-DIVERSITY-92

Region: Global
Country: General
Function: Training
Technical Code: Forest management
TFP Contribution: \$33,000
Total Cost: \$33,000
Main Cooperators: University of Michigan, USDA
Abstract: Funded fellowships for women and other people from under-represented ethnic groups attending the International Seminar on Forest Administration and Management.

GL-UNESCO-BOTANY-92

Region: Global
Country: General
Function: Support to international organizations
Technical Code: Non-timber forest products
TFP Contribution: \$120,000
Total Cost: \$120,000
Main Cooperators: World Wildlife Fund, UNESCO
Abstract: Funded development of methods manuals on sustainable utilization of botanical resources, ethnobotanical inventories, and plant conservation. The primary objective of this program is to support the sustainable use of non-timber forest products (NTFP) as a means of conserving tropical biodiversity and promoting development among rural populations.

GL-FS-AGROFORESTRY-92

Region: Global
Country: General
Function: Support to international organizations
Technical Code: Agroforestry
TFP Contribution: \$10,650
Total Cost: \$22,150
Main Cooperators: The Center for Semiarid Agroforestry
Abstract: Funded development of an inventory of agroforestry systems, as well as sources of this expertise, so that these strengths can be more available for international assistance efforts by FS, USAID, and other assistance agencies.

ISTF-PUBS-92-21

Region: Global
Country: General
Function: Support to international organizations
Technical Code: Natural resources management
TFP Contribution: \$10,000
Total Cost: \$15,200
Main Cooperators: ISTF

Abstract: Select publications were procured and distributed to ISTF members globally with emphasis on Latin America and Caribbean. These publications will provide information useful in the sustained management of natural forests, the establishment and management of plantations, and agroforestry in support of the needs of rural people in the tropics.

IUFRO-CONF-92-21

Region: Global
Country: General
Function: Support to international organizations
Technical Code: Forest inventory
TFP Contribution: \$20,000
Total Cost: \$20,000
Main Cooperators: IUFRO, SAF, FS

Abstract: Sponsored speakers and participants from tropical countries for a meeting on stand inventory technologies, sponsored by IUFRO, SAF, FS, and others.

IUFRO-TRAI-92-11/22

Region: Global
Country: Global
Function: Support to international organizations
Technical Code: Remote sensing
TFP Contribution: \$5,000
Total Cost: \$74,000
Main Cooperators: IUFRO

Abstract: Supported development of a set of guidelines on the establishment and use of permanent monitoring sites and remote sensing techniques for forest monitoring for use in the tropics in support of FAO's proposed Global Continuous Forest Resource Monitoring Strategy. Two workshops were held—one in Finland, the other in Thailand.

LAC-BRA-FS-TRAIN EXTEND-92-21

Region: Global
Country: General
Function: Training
Technical Code: Forest products
TFP Contribution: \$16,400
Total Cost: \$16,400
Main Cooperators: FPL

Abstract: Funded extensions of training at the Forest Products Laboratory for a Brazilian studying wood identification, a Nigerian learning to produce adhesives from tannin bark, a Malaysian learning the lumber grading system, and a Mexican learning to use small scale harvesting equipment and a portable sawmill.

NFTA-BOOK 92-21

Region: Global
Country: General
Function: Support to international organizations
Technical Code: Silviculture
TFP Contribution: \$27,500
Total Cost: \$103,676
Main Cooperators: Nitrogen Fixing Tree Association

Abstract: Partially funded an international meeting to provide scientists and development workers throughout the world an opportunity to share experiences with *Erythrina*, a pantropical genus. The proceedings were published and a silvicultural manual produced to serve researchers, extensionists, and farmers throughout the world.

United States Forest Washington 14th & Independence SW
Department of Service Office P.O. Box 96090
Agriculture
Washington, DC 20090-6090

The Tropical Forestry Program (TFP) is a program of the USDA Forest Service.

The TFP cooperates with other natural resource conservation organizations to develop, fund, and implement projects which will:

1. Reduce deforestation in the tropics;
2. Increase the knowledge of tropical forest ecosystems and economically sustainable ways to manage or restore them; and
3. Increase the contribution of all forest resources to the economic, social, and cultural well being of people in tropical developing countries.

Proposals will be considered which fall into one or more of these general categories:

1. Technical Assistance
2. Training
3. Support to International Organizations

NOTE: Research projects are not funded by TFP. Projects which apply research results or transfer technology to the field are eligible for TFP funding.

Appendix B

Tropical Forestry Program Guidelines for Development of Cooperative Project Proposals

Who are we?

What are our objectives?

How to Submit a Proposal for Cooperation and/or Funding

This package provides information on TFP proposal guidelines, selection criteria, project approval process, and funding process. If your proposal meets the objectives of the TFP, please follow these guidelines to develop and submit your proposal for funding.

We at the TFP welcome your telephone call or FAX early in the development of your proposal. If you have any questions, we can be reached in Rosslyn, VA, at (703) 235-1676 or FAX (703) 235-3732.

The TFP Project Proposal Process

A proposal is developed and submitted for review. A completed grant application will be necessary for organizations not part of the U.S. Government.

An initial review is made by the International Forestry Operations staff to ensure that the proposal meets general TFP objectives. The proposal may be further refined and developed in cooperation with our staff in order to strengthen Forest Service involvement or TFP objectives.

The proposal is reviewed by the TFP technical review panel. This panel consists of International Forestry program managers, and invited technical experts, who meet quarterly to review proposals for technical strength, practical applicability, and other selection criteria. This panel makes the final decision whether the proposal merits TFP cooperative funding.

Proponents are notified of the panel decision, and approved proposals begin the funding process. The formal approval process is not completed until the grant application or other funding mechanisms have been approved and the necessary forms are signed by both parties.

Project is implemented in cooperation with the Forest Service.

Reporting, monitoring, and final reporting complete our cooperative relationship for the project.

In summary, in order to secure funding, these steps must be completed: the complete proposal is submitted; the TFP panel approves the proposal; the appropriate funding mechanism is approved; the project work is begun.

Proposals should include the following information:

1. Cover sheet for proposals (see attached)
2. Background and justification statements. Include details on the need for the project, how it complements other work in the region, special constraints or considerations, etc.
3. Project scope. Please include the following information:
 - a. Project objectives
 - b. Actions that will meet the objectives, including who will accomplish the project, where the project will occur, and expected outcomes, products, and beneficiaries
 - c. Forest Service involvement
 - d. Project accomplishment timeline
 - e. Monitoring and evaluation methods
 - f. Completed budget information.
4. Qualifications of key personnel. Attach a brief resume of key personnel who will be involved in project design and implementation.

In most cases, the information requested here can be provided in four to five pages; however, longer proposals will be accepted.

5. For non U.S. Government organizations only:
Forms. Application for Federal Assistance, SF 424 (including parts A&B), and associated other forms which are available from TFP.

Proposal Format

Selection Criteria

The TFP technical review panel uses the following criteria to judge proposals based upon their practical applicability, technical soundness, cost effectiveness, and consistency with TFP objectives.

1. The project is environmentally sound, oriented toward conservation and sustainability, and not exploitative.
2. The project is a socially relevant effort that will help people meet their basic human needs.
3. The project will build international cooperation among the Forest Service, non-governmental organizations, foreign governments, and other conservation organizations and agencies.
4. The project will build Forest Service strength, incorporate Forest Service expertise, and involve Forest Service personnel in project planning, implementation, and/or monitoring.
5. The qualifications of proponents are appropriate.
6. The project is economically efficient with a good "cost/return ratio" and substantial funding contributions from other organizations.
7. The project is logistically and technically feasible and sound.

Common reasons that proposals are rejected include:

1. The project is research oriented, not oriented to the application of knowledge or the transfer of technology at the grass roots level.
2. The Forest Service has no substantial involvement in design, implementation, or monitoring of the project.
3. The budget and/or proposal items are unclear—not enough information about who does what, when it will be accomplished, who pays for what, what the timeline is for project accomplishment, how success will be measured and reported, etc.
4. There is no substantial cooperator funding or in-kind contribution to the project.
5. The project requests funding for equipment, construction, or excessive organizational overhead expenses which are normally not paid by the TFP.

In the event of project approval, certain forms will be required for processing of funding.

For non U.S. Government organizations only:

To facilitate and expedite this process, we ask that you submit grant application forms, SF 424 (including parts A&B), and associated other forms available from the TFP. Please complete these forms in accordance with the attached instructions.

NOTE: In the event of proposal approval, project work will not begin until the grant has been approved, and the grant award letter has been executed by both parties. A time span of 2 to 3 months may be needed between submission of a proposal and your authorization to begin work. Please plan accordingly.

For Forest Service or other U.S. Government organizations:

Other methods of processing funding apply. Please consult the International Forestry Operations staff for instructions applying to your specific situation.

Funding Process

**USDA Forest Service -
Tropical Forestry
Program**

**Cover Sheet for
Proposals:**

PROPOSING ORGANIZATION AND INDIVIDUAL:

Organization _____	Date _____
Name _____	Telephone _____
Title _____	FAX _____
Address _____	Telex _____

TITLE/TYPE OF ACTIVITY _____
REGION (Global, Africa, South America, etc.) _____
COUNTRY OR COUNTRIES _____

PROJECT ABSTRACT:

FUNDING INFORMATION

Type of Expense	TFP	Cooperator \$ Name	Cooperator \$ Name	Cooperator \$ Name
Supplies	_____	_____	_____	_____
Travel/Per Diem	_____	_____	_____	_____
Salary	_____	_____	_____	_____
Other	_____	_____	_____	_____
Total	_____	_____	_____	_____

TOTAL PROJECT COSTS \$ _____

ANTICIPATED EXPENDITURE TIMELINE:

Year	Quarter			
	1/1 - 3/31	4/1 - 6/30	7/1 - 9/30	10/1 - 12/31
19__	\$ _____	\$ _____	\$ _____	\$ _____
19__	\$ _____	\$ _____	\$ _____	\$ _____
19__	\$ _____	\$ _____	\$ _____	\$ _____
19__	\$ _____	\$ _____	\$ _____	\$ _____

THIS SPACE FOR TFP USE ONLY

Project # _____ Date approved _____ Panel Month _____

Amount Approved _____ Payment Type _____ Payment Date _____

Support Code _____ Country Code _____ FS Unit _____

Date Final Report Received _____

Appendix C

List of Cooperating Organizations — Fiscal Year 1992

International Council for Research in Agroforestry (ICRAF)
International Society of Tropical Foresters (ISTF)
International Union of Forestry Research Organizations (IUFRO)
Organizations of American States, Department of Regional Development and Environment (OAS/DRDE)
UNESCO United Nations Food and Agriculture Organization (FAD) United Nation Man and the Biosphere Programme (MAB)
United Nation's Development Program (UNDP)
World Resources Institute (WRI)

Blue Mountain/John Crow Forest Reserve, Jamaica
CAMINOS—Gov't of Guatemala Rural Roads Dept.
Chilean Forest Service
Darien National Park, Panama
Department General Forestal, Costa Rica
EMBRAPA, Brazil
Fire Department of Belize
Guatemala GOG's Forest Service (DIGEBOS)
Indonesian Agency for Forest Research and Development
Institute for the Environment and Renewable Natural Resources (IBAMA), Brazil
Institute of Natural Resources and the Environment (Nicaragua)
Jamaican Forestry Department
National Environmental Commission (CONAMA)
National Institute for the Environment and Nature Conservation (INECN)
Secretary of Agriculture and Watershed Resources (SARH), Mexico
Regional Office for Central America and Panama (ROCAP)

Canadian Forest Service
National Forestry Applications Program (NFAU)
Peace Corps
Servicio Autonomo Nacional de Acueductos y Alcantarillados (SANAA)
Smithsonian Tropical Research Institute (STRI)
USDA-OICD
United States Agency for International Development (AID)
USDI/NPS
USDI/F&WS

International Organizations

Government Agencies in Tropical Countries

Government Agencies in the United States and Canada

Non-Governmental Organizations

Association for Tropical Biology
Archbold Tropical Research Center
CARE
Caribbean Conservation Association
Forest Products Laboratory
FUNATURA
Foundation in Defense of the Environment for Baja Verapaz (FDNDEMABV)
Jack's Hill Community Council Tourism Recreation & Environment Committee (TREC)
National Wild Turkey Federation
Nitrogen Fixing Tree Association (NTFA)
RARE Center for Tropical Conservation
Society of American Foresters (SAF)
The Center for Semiarid Agroforestry
Wildlife Conservation International
Winrock International
World Wildlife Fund

Universities and Educational Institutes

Caribbean Natural Resources Institute (CANARI), St. Croix, US Virgin Islands
CBMDF (Fire Academy in Brazil)
Centro Agronomico Tropical de Investigacion y Ensenza (CATIE), Costa Rica
College of Forestry, Wildlife and Range Sciences University of Idaho
Instituto Florestal de Sao Paulo
International Tree Crops Institute (ITCI)
Kasetsart University, Bangkok

Land Tenure Center, University of Wisconsin–Madison
New Mexico State University
University of Michigan
University of Minnesota
University for Peace
Universidad Nacional Autonoma de Mexico
Washington State University, International Development Cooperation Office