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CONSERVATION INTERNATIONAL

**USAID "Biodiversity in Regional
Development" (BiRD) Cooperative
Agreement**

LAG-A-00-98-00059-00

October 1, 2000 FY01 Implementation Plan*

* Revised 1-18-01

A

Conservation International
1919 M. Street, NW, Suite 600
Washington, DC 20036

Biodiversity in Regional Development (BiRD)

Cooperative Agreement No. LAG-A-00-98-00059-00

January 18, 2001

Ms. Cynthia Gill
Biodiversity Specialist
Global Bureau, Environment Center
USAID
Ronald Reagan Bldg 3.08-151
1300 Pennsylvania Ave., NW
Washington, DC 20523-3800

Re: FY01 Annual Workplan

Dear Cynthia,

Please find attached two copies of the Revised October 1, 2000 Annual Workplan for Conservation International's *Biodiversity in Regional Development (BiRD)*. In this FY01 Annual Workplan, you will find included workplans for the countries of Bolivia, Papua New Guinea and Brazil - as the FY01 Annual Workplan for the Brazil component has recently been incorporated. This Annual Workplan covers the FY01 period of October 1, 2000 through September 30, 2001 for planned activities to be implemented in year three under our cooperative agreement with USAID/Global Bureau, Cooperative Agreement No. LAG-A-00-98-00059-00. This document, along with its attachments, has also been sent to you electronically.

I look forward to answering any of your questions or providing more detailed information as requested. I can be reached at (202)912-1407, or via email at t.drake@conservation.org.

Best regards,



Theresa M. Vermeulen Drake
Manager, USAID Program Management

**Conservation International
Biodiversity in Regional Development (BiRD)**

**October 1, 2000 Annual Workplan
FY01: October 1, 2000 – September 30, 2001**

**Biodiversity in Regional Development (BiRD)
Cooperative Agreement No. LAG-A-00-98-00059-00**

Introduction

This document provides a detailed description of planned activities to be implemented in Year Three of the BiRD cooperative agreement for the FY01 period of October 1, 2000 – September 30, 2001. This cooperative agreement will support activities of Conservation International's (CI's) programs in Bolivia, Brazil, Indonesia, and Papua New Guinea, as well as the training program to be implemented by CSF which will focus on Latin America. For FY01, obligated funding for the BiRD cooperative agreement will support activities in Bolivia, Brazil, Indonesia, and Papua New Guinea, as the detailed workplans that follow demonstrate.

1) CI-CSF and the Conservation Analysis and Training (CAT) Project

Annual Workplan – N/A for FY01

2) CI-Bolivia

CI-Bolivia's strategy for biodiversity conservation in the Madidi region

CI-Bolivia's strategy for biodiversity conservation in the Madidi Region lies in the context of identifying and responding to the threats to Madidi National Park and its surrounding areas. The impacts associated with the cumulative threats of oil and natural gas exploration and production, roads construction, timber concessions, hydroelectric development and unplanned tourism demand a rapid compilation of existing information and development of geographic datasets on vegetation, natural resources, wildlife, demographics, and infrastructure for planning purposes in order to protect Madidi National Park. Information on socio-economic characteristics of the towns and villages within and around Madidi National Park is incomplete and needs to be collected and assessed in reference to landscape and biodiversity. Spatial analyses that portray known ecological and economic trends, consider development impacts, evaluate hypothetical development scenarios, and project future conditions are imperative for educating national and local actors in the process of zoning protected areas. Policy research, economic and science-based information, outreach to the departmental and ministerial offices and private sector are critical to the Park's long-term protection and management. Finally, this critical information needs to be conveyed to the Bolivian public, the private sector, and national, departmental and local governments in Bolivia.

CI-Bolivia seeks to bring together donors, government, national academic institutions, local and international NGOs, and local communities in order to work in a concerted effort on biodiversity conservation issues and also have a stronger impact in responding to existing threats. A group of stakeholders by WCS, CARE, WWF, Ecobolivia, Institute of Ecology, Missouri Botanical Garden, Noel Kempff Natural History Museum and other interested parties will participate in specific activities to share experiences in the area.

It is imperative that dialogue be ongoing in order to share information, avoid overlap in donor-funded activities, and involve all stakeholders in the critical issues related to the Park, such as the creation of the

Park's zoning and management plan¹, an effective park protection program, and a long-term regional planning strategy that includes cross-border cooperation with Peru in the Tambopata-Candamo Reserved Zone and Bahuaja-Sonene National Park areas. This long-term regional planning strategy has been expanded during year one, broadening the area considered, in order to create a biodiversity conservation corridor. This corridor stretches from the Apurimac Reserve in Peru, to the Isiboro-Secure National Park and Indigenous Territory in Bolivia.

Annual Workplan for FY01

Objective 1:

Increase scientific understanding of Madidi National Park's biodiversity in order to raise awareness of the Park's importance and counteract existing threats.

Activities:

A) *In conjunction with the Institute of Ecology (Instituto de Ecología), CI-Washington, CI-Peru, General Directorate for Biodiversity (Dirección General de Biodiversidad), Madidi National Park, Bolivian scholarship students and local communities, CI-Bolivia will complete the GIS-database for Madidi National Park, including its Multiple Use Zone and Buffer Zone. This database will be used for planning purposes and for monitoring and evaluation - highlighting the threats to the Park. More specifically, this activity will include: FY00-01.*

A1) Completion of a GIS database initiated in year one, and further compilation of geographic information, including historical data (including satellite imagery already in existence).

During FY00, all the proposed and promised thematic information on those topics that have secondary information has been compiled, i.e., natural resource (mining, hydrocarbons, new human settlements, tourism sites) usage rights, land occupancy and ownership rights, soil classification, physiographic units, vegetation, soil use plan, basic cartography, threats analysis and satellite imagery processing (90-95). This information is also in a format compatible for use by other development and research institutions working in the Madidi area of influence. There must be continuity in this activity in order to continuously computerize the changes recorded.

Along with updating and completing the database in a permanent form for those thematic areas already studied during FY00, in collaboration with the Superintendence of Mines, Superintendence of Hydrocarbons, National Institute for Agrarian Reform, Land and Basin Classification Administration, tourism companies, Bolivian Teledetection Association and Institute of Ecology, the following thematic information will be included in the GIS database, and in greater detail during FY01:

- Erosion in the southern region of the ANMI NP (Municipality of Apolo)*
- New biodiversity studies in the project's area of influence
- Classification of vegetation, differentiating between native and introduced species (using new satellite imagery)
- Chacofied (chaqueadas) sites and areas
- Mineral resource exploitation sites
- Prospecting and hydrocarbon exploitation sites
- Forest use sites
- Tourism sites and scenic routes
- Flora and fauna use (Keara, Azariamas, 5 de Junio and El Tigre peasant communities) and (Maravilla and Santa Fe indigenous communities)
- Updating of ownership rights and land occupancy in Abel Iturralde and Franz Tamayo Provinces
- Assistance in computerizing the Madidi ANMI NP Management Plan

¹ Funding for a management plan is being sought from the EU by CARE, WCS and the Instituto de Ecología. CI intends to play an active role in this process by supplying biological data and by providing expertise on tourism.

* In accordance with the assessment of existing information on this topic during FY00 and the time needed to carry it out, this proposed topic will begin in FY01.

FY 2001 Obj 1 A1	O	N	D	J	F	M	A	M	J	J	A	S
Purchase of satellite imagery	X	X										
Analysis of satellite imagery to identify areas undergoing erosion		X	X	X						X	X	
Map the human settlements areas												
Compilation and organization of studies on the project area	X	X										
Analysis of satellite imagery to classify vegetation by species			X	X	X							
Analysis of NOAA satellite imagery to identify chacoified areas		X	X	X								
Field mapping of mining sites				X								
Field mapping of hydrocarbon prospecting and exploitation sites					X							
Field mapping of forest use sites						X						
Field mapping of tourism sites and scenic routes							X					
Organization and computerization of Keara, Azariamas, 5 de junio, El Tigre, Maravilla and Santa Fé peasant communities monitoring program								X	X		X	X
Updating of ownership rights and land occupancy for the project's area of influence				X			X			X		
Support to institutions for computerization of the Management Plan			X	X	X	X	X	X	X	X	X	X
Organization and computerization of other project results				X				X				X

Key Staff Involved

1. CI-Bolivia BiRD Coordinator Boris Fernández
2. CI-Bolivia GIS Manager Analyst Freddy Miranda
3. CI-Bolivia Natural Resources Analyst Marcos Espinoza
4. CI-Bolivia Economist
5. CI-Bolivia Communications
6. CI-Bolivia Biologist
7. Institute of Ecology - ABTEMA - BOLFOR
8. Madidi National Park (Technicians, Natl. Park guards and field guides)
9. Local guides

Resource Requirements

1. Digital satellite imagery
2. Digital satellite imagery processing software
3. GPS (Global Positioning System) equipment (GPS and Plotter)
4. Staff-time
5. Madidi Park Guards logistical support
6. Domestic Air Travel
7. Local Travel
8. Perdiem

FY01 Outputs/Benchmarks for Objective 1, Activity A-A1

1. GIS Database for the Madidi ANMI NP with better information, used as a planning tool and distributed to other institutions that work in the Madidi area of influence
2. The database and GIS are being used for decision making by SERNAP, the Madidi ANMI NP Administration, municipalities, CI-Bolivia and other institutions that work in the Madidi area of influence.

B) Complete targeted biological research and ecological impact assessments. This activity will be carried out by both Bolivian scientists and Bolivian scholarship students, with direction provided by the Institute of Ecology and CI-Bolivia. In addition to original scientific research in Madidi National Park. Results of the targeted research and assessments will be peer-reviewed and published in professional scientific journals. FY00-01.

B1) Targeted biological research will include:

- a) Fish inventory of the Tuichi River FY00.
- b) Small rodent and epiphytes inventory/study FY00.
- c) Ethnic-botanical study of Madidi using the vegetation map FY01.
- d) Coordinate with other NGOs and institutions working in the area, such as WCI who is running a program entitled "Ecosystem Species" focused on large mammals, to gather complimentary biological and ecological data and research. FY00-01.

During FY00, studies have been carried out of fish in the lagoons of Chalalán and Santa Rosa (on the Tuichi River), small mammals, reptiles and amphibians in the Tigre mountains, two epiphyte studies in the Eslabón mountains and along the Tumupasa-San José road in Uchupiamonas. This last study reports six new sightings for Bolivia and one new species. An ethnographic study has also been carried out on the Lecos indigenous group which has a claim for Original Communal Land (TCO) partially superimposed on the Madidi ANMI NP (in the southeastern zone).

During FY01, biological studies will continue in the following areas:

- Fish Inventory in the Tendeque - Suapi - Undumo - Madidi basins *
- Small mammal, amphibian and reptile inventory in Keara - Puina - San Fermín - Candelaria *
- Epiphyte or ethnobotanical inventory in Pata - Puina - Eslabón Mountains and Tigre *
- Quantification of the population of non-timber-bearing forest species in two peasant communities (three palms)
- Coordination with other NGOs and institutions that work in the area to carry out specific studies (Apolo erosion, ethnobotany, impact on indigenous and peasant communities and others)

* In collaboration with the IE, WCS and other institutions, two of the proposed areas will be selected for each study.

FY 2001 Obj 1 B1	O	N	D	J	F	M	A	M	J	J	A	S
Lagoons, Rivers												
Selection of graduate students	X											
Formation of teams		X										
Creation of a research plan		X										
Performance of Research			X				X					
Production of interim reports				X				X				
Publication of results											X	X
Small mammals, epiphytes												
Selection of graduate students	X											
Formation of teams		X										
Creation of a research plan		X										

Performance of research			X				X					
Writing of interim reports				X				X				
Publication of results										X	X	
Non-timber yielding - palms												
Identification of peasant communities and species	X	X	X									
Selection of local guides from the community			X									
Performance of quantification studies			X	X	X	X	X	X				
Development of a model for exploitation									X	X	X	
Publication of results												X

Key Staff Involved

1. CI – BOLIVIA Director; Juan Pablo Arce (selection of topics and students)
2. CI – BOLIVIA BiRD Coordinator; Boris Fernández
3. CI – BOLIVIA Natural Resources; Marcos Espinoza
4. CI-Bolivia Biologist
4. Institute of Ecology
5. Bolivian Fauna Collection
6. Bolivian National Herbarium
7. Guides and experts from local communities
8. Graduate students from the Universidad Mayor de San Andrés, among others
9. Technicians/park guards from Madidi ANMI NP

Resource Requirements

1. Staff-time
2. Field equipment
3. Materials for fieldwork
4. Books and documents
5. Photocopying services
6. Guides and experts from local communities
7. Logistical support and supplies for the park guards of the Madidi ANMI NP
8. National travel
9. Local travel
10. Per Diem

B2) Ecological and/or environmental impact assessments and monitoring of the following:

- a) Monitoring of gold-mining along the Tuichi River and assessment of its contamination impacts. FY00.
- b) Monitoring of future prospective oil exploration and production using the environmental impact assessment done by TOTAL INC. during their exploration phase. FY01.

Additional ecological and/or environmental impact assessments may be needed after the threats analysis is completed. The threats analysis will be shared with the stakeholders group in order develop a joint threats assessment and an adequate monitoring system (see Objective 2, Activity A).

During FY00, a study was begun to identify levels of mercury contamination in the Tuichi River basin as a result of gold-mining activity. This study, considered comparable to a graduate thesis, will produce information for later monitoring of water samples, sediments, fish and human hair. The contamination study will end during FY01.

After having demonstrated with the threats analysis during FY00 that only one hydrocarbons concession exists and that exploration is being carried out outside of the Madidi ANMI NP, no specific studies were performed. The government also decided that any new international Peru - Bolivia gas pipeline

During FY00, the monitoring program has been designed and information obtained from the activities carried out in San José de Uchupiamonas. Other activities such as tourism in Madidi ANMI NP, road construction, and the hydroelectric project will be monitored during FY01, taking as a starting point the baseline developed for these activities in the threats analysis.

The analysis for flora and fauna use and land-use by peasant and indigenous communities that was performed during FY00 is insufficient and does not identify which of the two actors puts greater pressure on biodiversity. During FY01, specific information will be obtained for the monitoring program about natural resource exploitation and land use in four communities (two peasant communities, Keara or Asariamas and 5 de Junio or El Tigre, and 2 indigenous communities, Maravilla and Santa Fé) in order to establish the levels of human intervention, which will be useful for zoning Madidi ANMI NP in the Management Plan.

During the achievement of this goal in FY01, obtaining more information, measuring the degree of impact and determining monitoring indicators in detail will be one of the highest priorities that will make it possible to more precisely design the scenarios for achieving financial management for the long-term continuity of the monitoring program.

FY 2001 Obj. C	O	N	D	J	F	M	A	M	J	J	A	S
Analysis and coordination of assessment parameters with the communities - Commencement of monitoring	X	X										
Training of community experts	X	X										
Collection of information in communities					X	X			X	X		
Organization of information and augmentation of database							X				X	
Preparation of fundraising proposal					X	X	X	X	X	X	X	X
Monitoring of tourism, hydroelectric, roads, settlements, etc.												
Compilation of secondary data	X						X					
Analysis and organization of data		X	X					X	X			
Publication of results											X	X
Financial management and strengthening of monitoring program	X	X	X	X	X	X	X	X	X	X	X	X

Key Staff Involved

1. CI – BOLIVIA Director; Juan Pablo Arce (financial management)
2. CI – BOLIVIA BiRD Coordinator; Boris Fernández
3. CI – BOLIVIA GIS; Freddy Miranda
4. CI – Bolivia Natural Resources; Marcos Espinoza
5. CI-Bolivia Biologist
6. Local experts and guides
7. Technicians, Madidi ANMI NP guards
8. Institute of Ecology, WCS

Resource Requirements

1. Staff-time
2. Field equipment
3. Books and documents
4. Photocopying services
5. Office materials
6. National travel
7. Local travel
8. Logistical support and supplies for Madidi ANMI NP park guards

FY01 Outputs/Benchmarks for Objective 1, Activity C

1. Monitoring and assessment program is carried out.
2. Database has two collections of information per community for first year of the monitoring program available.
3. Determine and assess indicators of change in activities such as tourism, hydroelectric, road building, land use, natural resources, settlements, etc.
4. Financial management strategy created.
5. Financial resources secured for monitoring program with bilateral and/or multilateral donors.

Objective 2:

Influence economic and policy decisions in Bolivia to counter threats to Madidi National Park.

Activities:

A) CI-Bolivia proposes to carry out economic and policy analyses, utilizing accumulated data, in order to understand the forces that influence regional and local land use decisions. Analyses will be used to demonstrate the economic benefits associated with protected areas and the impacts of proposed development projects which threaten the biodiversity of the Park. Topics for analysis will be defined by threats determined to be most critical. FY00-01.

A1) Complete thorough social, economical and political study. FY00-01.

CI-Bolivia will complete a thorough social, economical and political study of the new human settlements near Ixiamas and collaborate with institutions who have been working in the Human Settlements Program in order to mitigate the environmental impact. These human settlers have come from Northern part of the Department of Potosi, the Department of Chapare and Argentina (returning Bolivians).

CI-Bolivia, during FY00, completed a social, economic and political study of the existing human settlements in the Madidi ANMI NP area of influence. The most important results show that the environmental impact on deforestation is not significant (744 sq. km. were deforested in the municipalities of San Buenaventura and Ixiamas from 1980 to 1995), due to legal uncertainty about ownership rights (a large percentage of the population has no title of ownership). Consequently, there has not been large-scale deforestation nor has commercial agriculture been established (the agriculture is extensive and subsistence). However, considering that the INRA is in the final phase of the drainage process of the agrarian property and will formalize property rights by the end of 2001, greater deforestation is foreseen and implementation of intensive agricultural systems will be carried out. Along with land title issuance, construction of new roads will favor migration and productive activities.

Another important factor that should be pointed out relates to the new human settlements, both planned and spontaneous, that are developing in the region (with Bolivian citizens and foreigners), which makes it necessary to conduct specific complementary studies during FY01 in the municipality of Ixiamas to identify the existing tendencies.

At the same time, there will be collaboration with the institutions that work with Human Settlement Programs (INRA, Municipalities and involved NGOs) so that they will incorporate within their projects areas of ecological development, agroecological practices, agroforestry practices and biodiversity conservation practices for the purpose of reducing and mitigating environment impact. The awareness campaigns (Objective 3.A) and identification of sustainable economic alternatives, such as non-timber forest products, will be carried out in these new human settlements.

Economic studies on traditional agricultural activities as well as productive alternatives (non-timber forest products) will be carried out in order to establish costs of production, the existence of a market for them and how to obtain access to this market.

FY 2001 - Obj2, A1	O	N	D	J	F	M	A	M	J	J	A	S
Studies to complement the baseline analysis for the (Bolivian and foreign) human settlements in Ixiamas		X	X	X	X	X						
Evaluation of sustainable economic alternatives for the AAHH within the Plan for Reduction and Mitigation of Environmental Impact			X	X	X	X	X	X	X	X	X	X
Analysis of national and international markets						X	X	X	X	X	X	X

Key Staff Involved

1. CI- BOLIVIA BiRD Coordinator; Boris Fernández
2. CI-BOLIVIA Economist; Edwin Patiño
3. CI-BOLIVIA Natural Resources; Marcos Espinoza
4. CI-BOLIVIA Graduate, mercury contamination; Lucia Alanoca
5. Peasant communities
6. Entities carrying out AAHH (PAHS, etc.) Programs
7. Governmental Entities (INRA, Prefecture, Municipalities, etc.)

Resource Requirements

1. Staff-time
2. Books and documents
3. Photocopying services
4. National travel
5. Local travel
6. Field equipment

A2) In conjunction with other partners working in the area, such as CARE and WCS, CI-Bolivia will carry out a baseline threats analysis of Madidi National Park. FY00-01.

Although during FY00, CI Bolivia carried out the threats analysis for road construction and deforestation, petroleum concessions, mining concessions and contamination, selective logging, planned human settlements, Bala Hydroelectric project and a first phase of unplanned tourism, all with their respective threat reduction strategies, it is necessary in the first stage of FY01 to disseminate the results and establish a great strategic alliance to prioritize the threats identified, above all at the decision-making level of national, departmental and municipal governments (initial results indicate that more attention is paid to development policy than to biodiversity conservation policy).

During FY01, the threats analysis will continue at the site-level where CI is presently working and in collaboration with other partners, such as CARE, WCS, WWF. CI-Bolivia will also start a complementary threats analysis in the areas of hunting and natural resource use. In addition, this information will continue to augment the GIS database and, consequently, the Monitoring and Evaluation Program.

To complement this, an economic assessment of the most important threats to the Madidi National Park and its areas of influence (highway infrastructure and Human Settlements) will be performed. This work will be carried out jointly with Conservation Strategy Fund (CSF) within the framework of an existing agreement.

FY 2001: Obj2: A2	O	N	D	J	F	M	A	M	J	J	A	S
Dissemination of threats analysis results	X											
Organize and hold an inter-institutional threats analysis workshop to establish a global strategy		X	X									
Compilation of complementary information for FY00 threats	X	X	X	X	X							
Produce report with the threats analysis					X	X						
Compilation of information on new threats		X	X	X	X	X	X	X				
Economic Assessment of threats				X	X	X	X	X	X	X	X	X
Produce report on the global threats analysis									X	X	X	
Meetings of CI-Bolivia with donors to discuss the results						X					X	
Dissemination of new results						X					X	X

Key Staff Involved

1. CI-Bolivia BIRD Coordinator; Boris Fernández
2. CI-Bolivia Economist; Edwin Patiño
3. CI-Bolivia Natural Resources; Marcos Espinoza
4. SERNAP -Madidi ANMI NP Director – Technicians and park guards
5. Donors group
6. Local experts and guides

Resource Requirements

1. Staff-time
2. Official books and documents
3. Photocopying services
4. National travel
5. Local travel
6. Field equipment
7. Logistical support and supplies for the Madidi ANMI NP park guards

A3) *Gather information of development plans held by municipalities and regional government in order to determine potential effects on land-use in the Madidi area.*

During FY00, analysis of development policies was completed for the three municipalities that have jurisdiction over Madidi NP, as well as at the departmental level. In FY01, analysis will be done to establish development plan project performance levels for the measures for 2000 and the first half of 2001.

To complement the development policy analysis, an evaluation of the financial resources allocated to the projects will be performed for the purpose of establishing the percentages allotted to concrete conservation activities and the percentages within the projects corresponding to conservation activities, natural resources and the environment.

FY 2001: Obj2: A3	O	N	D	J	F	M	A	M	J	J	A	S
Compilation of information	X	X							X	X		
Financial-economic analysis of the projects				X	X	X	X	X	X			
Incorporation of the results into the GIS database			X								X	
Dissemination of results											X	X

Key Staff Involved

1. CI – BOLIVIA BiRD Coordinator; Boris Fernández
2. CI – BOLIVIA Economist; Edwin Patiño
3. CI – BOLIVIA Natural Resources; Marcos Espinoza
4. Municipal Governments and Departmental Governments
5. Donors group

Resource Requirements

1. Staff-time
2. Official books and documents
3. Photocopying services
4. National travel
5. Local travel

FY01 Outputs/Benchmarks for Objective 2, Activities A1-A3

1. Socioeconomic study of the human settlements finished
2. A minimum of two sustainable economic alternatives assessed
3. Baseline threats analysis completed
4. Development plans and policies information organized
5. Financial-economic analysis of the projects

B) CI-Bolivia will facilitate and carry out a FODA (Fortalezas, Oportunidades, Debilidades y Amenazas) Workshop. FY00-01.

Analysis of the FODA situation was performed by the Madidi ANMI NP administration. CI, during FY00, complemented and enriched the FODA work while producing the communications strategy during the 4-P Workshop. In FY01, during the inter institutional threats analysis workshop (Objective 2. A2), the FODA produced for the 4-P Workshop will be presented and a more complete and participatory version will be created as a tool for implementing the threats reduction strategies.

FY 2001 Obj2 B	O	N	D	J	F	M	A	M	J	J	A	S
Organization of the workshop		X										
Hold the workshop			X									
Production of the workshop report			X	X								
Distribution of the report				X								

Key Staff Involved

1. CI – BOLIVIA BiRD Coordinator; Boris Fernández
2. CI – BOLIVIA Economist; Edwin Patiño
3. Donors group
4. Public Sector
5. Private Sector
6. NGOs
7. Academic Sector
8. Various actors
9. Civil Society

Resource Requirements

1. Staff-time
2. Material and supplies for the meeting
3. Meeting room rental
4. Documents and publications
5. Photocopying services
6. National travel

7. Local travel
8. Per Diem

FY01 Outputs/Benchmarks for Objective 2, Activity B

1. Report on the Threats Analysis and FODA Workshop
2. Commitments from the municipalities to incorporate Madidi ANMI NP support activities in their POAs
5. Distribution of the workshop reports

C) *CI-Bolivia will facilitate and carry out a second workshop as follow-up to the Fall 1999 action-coordination workshop. The purpose will be to discuss coordinated action to-date, reach consensus on possible solutions, and provide recommendations to counteract the imminent threats. As a consequence of this workshop, efforts to influence development planning and biodiversity conservation in the Madidi region will be furthered. Attendees could include: the General Directorate for Biodiversity, the Ministries of Energy and Economic Development, the Department of La Paz, the private sector, local NGOs and other interested stakeholders. This activity will be complemented by additional meetings, public presentations and a Web Page with links to CI, CARE, WCS, the Institute of Ecology, and other interested stakeholders. FY00-01.*

In FY00, during CI-Bolivia's participation in the internal CI Vilcabamba-Amboró Corridor meeting in the city of Cuzco in July 2000, contacts were made with the Peruvian institutions in order to plan the second workshop. Likewise, in Bolivia, coordination meetings were held with the Ministry of Sustainable Development and Planning, SERNAP and other institutions, such as the Institute of Ecology and LIDEMA. A possible agenda for this meeting has begun to be designed with CI-Peru, ending the need to hold independent technical workshops in Peru and Bolivia. The second bi-national workshop will be held in FY01 at the technical level and political decision-making level to optimize the agenda. The project will support SERNAP in drawing up the technical proposals, and will share financing of the bi-national workshop, the logistics, necessary materials and publication of the report with the CI-Andes Program.

Other activities for this workshop, including the web page should be coordinated with the CI-Andes Program in the context of the Vilcabamba-Amboró Corridor.

FY 2001 Obj 2 C	O	N	D	J	F	M	A	M	J	J	A	S
Preparation of Peru-Bolivia agenda				X	X							
Production of the technical proposal				X	X							
Regional workshops				X	X	X						
Second workshop							X					
Dissemination of results/workshop report								X				

Key Staff Involved

1. CI – BOLIVIA Director; Juan Pablo Arce (CI Andes Coordination)
2. CI – BOLIVIA BiRD Coordinator; Boris Fernández
3. SERNAP
4. Madidi ANMI NP Administration
5. Ministry of Sustainable Development and Planning
6. General Directorate for Biodiversity

Resource Requirements

1. Staff-time
2. Materials and supplies for the meeting
3. Documents and publications
4. Photocopying services
5. National travel

FY01 Outputs/Benchmarks for Objective 2, Activity C

1. Regional technical workshop held / technical proposal
2. Second bi-national workshop held
3. Workshop report / recommendations for corridor implementation
4. Integrated Corridor Web-page created

D) Work directly with private sector operating in the Madidi region on best practices. CI-Bolivia and its partners will do outreach to those private sector actors associated with the targeted development projects operating in the Madidi region, and help them to develop and promote best practices. FY01.

After the analysis of threats from the private (forestry, petroleum and mining) production activities inside the Madidi ANMI NP and area of influence performed during FY00, the conclusion reached is that the "mining" activity is the one that presents the most inappropriate exploitation practices (they produce significant levels of contamination). The other activities are regulated, include sustainable management practices, or are outside the project study area. During FY01, the mining activity will be analyzed in greater detail: classification of the degree of production technology and mineralogical resource exploited. It is therefore not yet possible to produce recommendations for production practices with less environmental impact.

During FY01, a technical and economic proposal will be prepared in collaboration with SERNAP, IRD, MDSP, SETMIN, MEDMIN, CELB, WCS, AECL and other institutions in order to implement production practices with less environmental impact, which will then be implemented in the following years.

FY 2001: Obj 2, D	O	N	D	J	F	M	A	M	J	J	A	S
Study of the degree of technification and minerals exploited						X	X					
Inter institutional coordination to produce a technical proposal								X	X			
Production of the Economic-Technical Proposal document										X	X	

Key Staff Involved

1. CI – BOLIVIA BiRD Coordinator; Boris Fernández
2. CI – BOLIVIA GIS; Freddy Miranda
3. CI – BOLIVIA Natural Resources; Marcos Espinoza
4. CI-Bolivia Biologist
5. CI – BOLIVIA Graduate, mercury contamination; Lucia Alanoca
6. SERNAP
7. Madidi ANMI NP Administration
8. Ministry of Sustainable Development and Planning (MDSP)
9. Technical Service for Mines(SETMIN)
10. MEDMIN
11. WCS
12. IRD

Resource Requirements

1. Staff-time
2. Materials for document production
3. Photocopying services
4. Space for coordination meetings

FY01 Outputs/Benchmarks for Objective 2, Activity D

1. Better information about private mining activities
2. Technical proposal drawn up and financial management initiated
3. Private mining companies in the Madidi ANMI NP area of influence implementing better production practices

Probable local partners for these activities under Objective 2 would be:

- Director and park guards of Madidi ANMI NP
- Director and park guards of Apolobamba ANMI; RB - TCO Pilón Lajas
- General Directorate for Biodiversity
- Vice-Ministry of Natural Resources, Environmental Quality and Forest Development
- Vice-Ministry of Indigenous Affairs and Native Peoples
- National Service for Protected Areas (SERNAP)
- Vice-Ministry of Mining and Metallurgy
- Ministry of Economic Development
- Departmental Prefecture of La Paz
- Municipalities of Apolo, San Buenaventura, Ixiamas, Apolo, Pelechuco
- Financing agencies
- Production organizations

Objective 3:

Improve regional, national and international awareness of the importance of Madidi National Park and surrounding region to biodiversity conservation in the tropical Andes.

Activities:

Very little national awareness exists on both the importance of Madidi National Park as a biodiversity reservoir, as well as the impacts which are threatening its ecological richness and health. In association with staff already working in the region, there is a need to involve the participation of others - both key people and institutions - in order to create a communications strategy and awareness raising tools for this protected area.

A) CI-Bolivia will gather baseline information at the local level with social surveys in order to raise awareness among the population surrounding Madidi NP. FY00-01

CI-Bolivia will gather baseline information at the local level with social surveys to be used to measure present public opinion as well as monitor attitudinal changes over time which may occur in the future about Madidi National Park. Communities to be surveyed from both within the Park and surrounding it, may include Ixiamas, Tumupasa, Apolo, Rurrenabaque, San Jose de Uchupiamonas and San Buenaventura. In addition, the analysis and results obtained from these social surveys will be useful in monitoring local opinion.

The purpose of the surveys will be to 1) measure the level of knowledge and public opinion about the park among communities both in the park and surrounding it, and 2) once measured, this information will help us to establish a strategy for improving both the public opinion about the park as well as public understanding of the park's importance.

The implementation of the recommendations of the strategy (4p workshop product) will be done in year three (FY01).

During FY00 of the project, CI-Bolivia established the baseline for the social and economic aspects of the human settlements; a baseline for the long-term and immediate threats and the baseline for awareness and public opinion about Madidi NP among the communities in its area of influence. CI-Bolivia also produced a park strategy for communication and dissemination that was partially implemented during Madidi Week (9/21/00).

During FY01, implementation of the Madidi ANMI NP communication and dissemination strategy will continue, with workshops and informal meetings in the communities and schools within the Madidi area of influence. During the workshops and informal meetings, the conservation objectives, limits, management categories, importance, economic alternatives, results of the BiRD project, advantages and disadvantages of Madidi ANMI NP, etc. will be disseminated. The information will be disseminated in simple language, with a large number of images, and in an interactive manner.

FY 2001 Obj 3, A	O	N	D	J	F	M	A	M	J	J	A	S
Preparation of materials and results	X		X		X		X		X		X	
Seminars and informal talks in schools and communities		X		X		X		X		X		X

Key Staff Involved

1. CI – BOLIVIA Communications Coordinator; Raul Bustillos (Liaison with INTERCOM)
2. CI – BOLIVIA BiRD Coordinator; Boris Fernández
3. CI – BOLIVIA in Communications; Ilse Prado
4. Technicians and park guards from Madidi ANMI NP
5. Educational and Community Authorities

Resource Requirements

1. Staff-time
2. Materials for dissemination
3. Office materials and supplies
4. Photocopying services
5. National travel
6. Local travel
7. Field equipment
8. Per Diem
9. Incentives

FY01 Outputs/Benchmarks for Objective 3, Activity A

1. Communications strategy implemented in communities and schools

B) CI-Bolivia in cooperation with CI's International Communications department will produce communications and awareness tools and implement the conservation awareness campaign for key national and international audiences FY01.

During FY01, while the Madidi ANMI NP communication and dissemination strategy is being implemented at the local level in communities and schools via workshops and informal get-togethers, CI-Bolivia will collaborate with International Communications (InterCom) from CI-Washington. The following sub-activities could take place dependent upon the amount of match funds raised by CI Andes Program and CI-Bolivia in addition to the funding CI InterCom is able to provide.

All of these sub-activities (tools) are considered invaluable parts to the communication strategy at a regional and international level. These tools will be used in the campaign to raise awareness about preservation of the Madidi Park.

RADIO SPOTS AND MINI-PROGRAMS:

These two sets of radio productions are very effective at reaching remote and rural communities, as well as having the flexibility to reach a national audience. The Spots will be a set of four 30-second Public

Service Announcements that will run on radio stations in the vicinity of Madidi National Park, as well as the urban areas, promoting the protection and importance of Madidi. The mini-programs will be longer and more in-depth on a variety of topics pertaining to Madidi. These could be in the form of short interviews, news pieces, or public interest stories.

VIDEO DOCUMENTARY and RELATED MATERIAL PRODUCTION:

A documentary video on Madidi will serve to raise awareness to audiences throughout Bolivia, and perhaps neighboring countries. This tool can be utilized in a variety of ways- at launching events with important decision-makers and partners in urban areas, in school systems, in local communities during special video screening sessions, and of course, broadcast on television.

The production of the documentary begins with documenting on camera the flora and fauna of Madidi, as well as the local communities, conservation activities, and the threats to biodiversity. The production phase (script writing, footage logging, and editing) will take 2-3 months.

Accompanying materials include a video cover, poster, video informational booklet, and other small products like stickers and fliers.

ENVIRONMENTAL EDUCATION KITS WITH TEACHER'S MANUAL:

Teacher's manuals are an extremely cost effective way to multiply the conservation message to children. The manual will utilize an interdisciplinary approach to environmental issues, focusing on the conservation of Madidi's biodiversity. The various units will be composed of lessons that involve readings, games, experiments, role-plays, and active conservation projects. The manual will serve as the "instructions" for a larger "kit" of materials needed to realize the activities outlined within. The kits will probably take the form of boxes filled with one large envelope for each activity. In each envelope will be the tools necessary to carry out that lesson, such as string and magnifying glasses for example. The kits will consist of inexpensive items that most schools in the area do not have access to, packaged in a convenient and fun way. Both the kits and manuals will be distributed to teachers with a training session on how to integrate these new tools into their classes.

PROMOTIONAL KIT ON CI-BOLIVIA:

This promotional kit would be a set of materials prepared to showcase CI-Bolivia, its accomplishments and activities. It entails a high-quality folder with a set of Fact Sheets and biographies, as well as a color brochure.

BIODIVERSITY REPORTING AWARD:

This activity seeks to inspire more and better articles about the environment, primarily focusing on biodiversity. This activity recognizes journalists in Bolivia for their quality reporting on biodiversity issues, thereby encouraging more coverage and persuading editors (the gatekeepers of the media) to view biodiversity and environmental issues as priorities for their journalists and their publication.

JOURNALIST TRAINING SEMINAR:

This seminar invites all journalists who participated in the Biodiversity Reporting Award to join the organizers of the contest (CI, IFEJ, and ICFJ) for a two-day seminar, encompassing a workshop and a field trip or case study topic. The evening between the two days will focus on a reception with media and decision-makers to announce the winners of the Award.

The seminar is oriented primarily around topics, issues, and scientific findings of Madidi itself. These training sessions will begin with an overview of environmental problems in the region followed by sessions focusing on covering common environmental topics, developing new story ideas, planning and implementing systematic coverage of environmental topics, developing follow-up stories, selling an environmental story to a reluctant editor, working with government officials, clarifying the journalist's role, and setting professional standards. Participants will also hear from local speakers exposing views on Madidi.

LAUNCH OF DOCUMENTARY AND RELATED MATERIALS FOR MADIDI NATIONAL PARK CAMPAIGN PHASE 2:

This phase of the campaign, with the documentary as its centerpiece, kick off a second major wave of communications in Bolivia. Communications theory suggests that in order for people to progress from ignorance to awareness to behavior change, messages must be reinforced over time from new angles and directions. This second phase will do just that. After the first 1.5 years of strong communications activity, CI's target publics in Bolivia will be gaining more and more awareness of Madidi and biodiversity issues. This campaign will utilize a variety of high profile products to seek mass recognition of Madidi and its importance, in order to solidify this understanding. The launching events and accompanying media campaign will bring the message and materials to the public (televised documentary, poster, informational booklet, etc).

FY 2000 Obj3 B-C	O	N	D	J	F	M	A	M	J	J	A	S
Produce and distribute radio spots			X	X	X	X	X	X	X	X		
Film trip to capture footage for video documentary on Madidi.								X	X			
Production of Documentary.									X	X		
Production of additional materials for Madidi National Park Phase 2									X	X	X	X
Produce Environmental Education Kits with Teacher's Manual				X	X	X	X	X				
Produce Promotional Kit on CI-Bolivia				X	X							
Carry out Biodiversity Report Award		X	X	X	X	X	X	X	X	X	X	X
Carry out Journalist Training Seminar						X	X	X				
Launch of documentary and related materials for Phase 2											X	X

Key Staff Involved

1. CI International Communications; INTERCOM STAFF
2. CI – Bolivia Communications Coordinator; Raul Bustillos (Liaison to INTERCOM)
3. CI – BOLIVIA BiRD Coordinator; Boris Fernández
4. CI – BOLIVIA in Communications; Ilse Prado
5. Technicians and Madidi ANMI NP guards
6. Departmental and local reporters

Resource Requirements

1. Staff-time
2. International and domestic air travel
3. Radio spots and mini-programs (materials, supplies)
4. Video production (tape stock, film trip, narration, producer, editor, music)
5. Environmental Education kits and teachers manual (materials, supplies)
6. Promotional kit (materials and supplies)
7. Journalist Training seminar (materials, supplies, venue, invites, per diem, travel)
8. Launch of documentary (tape stock, film trip, narration, producer, editor, music)
4. Production and printing of materials
5. Per Diem

FY01 Outputs/Benchmarks for Objective 3, Activities B

1. Radio spots produced and in use
2. Video documentary produced and distributed
3. Produce Environmental Education Kits with Teacher's Manual
4. Produce Promotional Kit on CI-Bolivia
5. Carry out Biodiversity Report Award
6. Carry out Journalist Training Seminar
7. Launch of documentary and related materials for Phase 2

Probable local partners for these activities would be:

- Madidi ANMI NP director and park guards
- ANMI Apolobamba; RB – TCO Pílon Lajas
- General Directorate for Biodiversity
- Vice-Ministry of Natural Resources, Environmental Quality and Forest Development
- Vice-Ministry of Indigenous Affairs and Native Peoples
- National Service for Protected Areas (SERNAP)
- Prefecture of the Department of La Paz
- Municipalities of Apolo, San Buenaventura and Ixiamas
- Financing agencies
- Reporters with departmental and local coverage

3) CI-Brazil

Annual Workplan for FY01

Objective 1:

Reduce deforestation, soil degradation, and landscape degradation in forest fragments critical to biodiversity conservation.

Activities:

- A) *Obtain conservation commitments from private landowners and communities in strategic forest fragments through agricultural extension activities offering income-generating alternatives. FY 99-00-01.*
- A1) *Institutionalization of a municipal environmental council and a municipal "income and jobs" council for Una. IESB will do the paperwork for agricultural loan applications for the communities with projects approved by the councils, and orient them in sustainable agricultural practices, show them how to diminish hunting, control burning and how to implant nurseries of economic and natural trees for reforestation of river margins and buffers around forest fragments. FY 99-00-01.*

In FY01, IESB will help in the consolidation of rural producers' associations and in the elaboration of proposals for agricultural loans together with credit institutions, and will guide them in the use sustainable agricultural practices, mainly in the certified production of organic products. Ford Foundation resources (matching funds) have been budgeted for equipment and other inputs to with the aim of improving the organization and operation of the cooperative.

Throughout FY01, Joaquim Blanes will continue assisting and training the rural producers' associations from the Una region in sustainable agricultural production techniques, including organic production.

Joaquim Blanes will help Heloisa Orlando to organize training courses on environmental legislation for Rural Producers Associations' leaders in the Una Biological Reserve buffer zone. These training courses will clarify current environmental legislation for local farmers and how to establish demarcated Legal Reserves and create Private Reserve on their properties. The courses are scheduled to take place in November and December 2000.

Alessandro Coelho and Walter Lima will help Joaquim to elaborate an appropriate land-use plan for organic certificate farms. Maps and aerial photos of the properties will be juxtaposed and the final results will be used to guide the landowners in where to demarcate legal reserves and plant agroforestry systems. The maps and photos will also help to find disturbed areas where recovery will be necessary.

IESB hopes to work in partnership with the SOS Atlantic Forest Foundation and the National Council for Biosphere Reserve on research about potential management and certification for piaçava in Southern Bahia. The diagnosis and studies about the certification of piaçava shall be done in partnership with the National Council for Biosphere Reserve and the SOS Atlantic Forest Foundation, with \$6,000 of support from FUNBIO (matching funds). Flávio Leopoldino, together with Imaflora, will evaluate the potential use of piaçava management techniques in the region, including rural producers training in techniques to harvest the piaçava fiber without kill the piaçava tree. Piaçava fiber samples will be collected and used for a marketing study of the product.

IESB has conducted studies of the commercial potential of forest and non-timber products. Flávio Leopoldino, with help from Evandro and Joaquim, will coordinate the work to identify non-timber products with potential markets. Their work will include techniques for sustainable exploitation of piaçava.

Flavio Leopoldino will be responsible for designing models for the recovery of disturbed areas. Experimental reforestation plots will be planted using different methods – trees will be planted at different

distances, the underground will be recovered with pioneers species, etc. The experiment will show which technique is the best to be used in the region.

Throughout FY01, Evandro Santana, along with a new technician that will be contracted with matching funds from the Ford Foundation, will continue helping the Una's Producers Cooperative in the commercialization of the agricultural products and in searching for new markets for Una's producers.

FY 2001: Obj1, A1	O	N	D	J	F	M	A	M	J	J	A	S	US\$
Joaquim Blanes – talks	x	x	X	x	x	x	x	x	x	x	x	x	1,230
Alessandro, Joaquim, Walter – Farm Plans				x	x	x	x						1,050
Joaquim and Flávio –Reforestation and Agroforestry Demo.							x	x	x	x	x	x	1,050
Evandro – cooperative organization	x	x	X	x	x	x	x	x	x	x	x	x	1,054
Total													4,384

A2) Also at the Una municipal level, IESB has collaborated with the Secretary of Education in the development of teacher education workshops and the recuperation of rural schools. IESB will work with municipal educational authorities on improved curricula, teacher training, and proposals to obtain governmental funding for improved educational services. FY 99-00-01.

Gabriel Santos and Joaquim Blanes will continue to support efforts to improve rural school infrastructure and curricula in rural schools in Una and will collaborate in teacher training courses. These activities will be continued with matching funds from the Durrel Wildlife Conservation Trust.

FY 2001: Obj1, A2	O	N	D	J	F	M	A	M	J	J	A	S	US\$
Gabriel Santos – Teacher training	x	x	x	x	x	x	x	x	x	x	X	X	
Joaquim Blanes – Infrastructure	x	x	x	x	x	x	x	x	x	x	X	x	
Total Obj1,A2													

A3) IESB plans to continue to support the cooperative we helped Una farmers to establish for agroforestry product commercialization. (The elaboration of a municipal coastal tourism development plan including Una is under Objective 2, Activity A2) FY 99-00-01.

IESB has, in FY00, collaborated in the consolidation of the certification, commercialization and exportation processes of organic products, in partnership with OCP, WIDAR and producers' associations. In FY01, IESB will continue to address this activity by supporting the creation of the Organic Producers' Cooperative which will be responsible for organizing the organic cocoa production and storage and will arrange the authorizations from the Agriculture Ministry necessary to export the production to United States and Europe. Joaquim Blanes and Marc Nucheller will give technical support to the cooperative members.

Joaquim Blanes and Walter Lima will continue working to organize the organic producers' register and to arrange the IBD (Instituto Biodinamico) inspection for the rural properties interested in obtaining organic production certification. The organic production does not receive any chemical treatment. Moreover, to receive an organic certification the producer must enforce the environmental (ex. Legal Reserves demarcated) and labor legislation in a time limit of three years after the certification. IESB has the responsibility to initiate the process for the producers interested in receiving the certification and for monitoring the organic farms that have already received the certification.

FY 2001: Obj1.A3	O	N	D	J	F	M	A	M	J	J	A	S	US\$
Joaquim Blanes and Walter Lima - certification	x	x	x	x	x	x	x	x	x	x	X	x	1,503
Joaquim and Marc – exportation					x	x			x	x	X		1,300
Total													2,803

A4) Continuing the partnerships developed with landowners of key forest fragments committed to conservation, IESB extension officers have helped them plant acai seedlings to multi-crop rubber and cocoa plantations, establish greenhouses for commercial and natural tree species for reforestation, and learn organic mulching techniques to increase production at low cost. These initiatives increasingly involve partnerships with the Brazilian Institute of the Environment and Renewable Natural Resources (IBAMA) and CEPLAC to disseminate these alternatives. These agroforestry extension activities will continue under the cooperative agreement. FY 99-00-01.

In FY01, Joaquim Blanes will continue the distribution of forestry species seedlings. The objective of his work is to stimulate the implantation of agroforestry systems, including the implementation of demonstration areas. The Brazilian official institutions do not give financial support for crops of native plant species (p. ex. piaçava, açai). IESB grows and distributes seedlings of forestry species to the cooperating farmers stimulating the use of these species in the agroforestry systems. Demonstration areas have been implanted to show that these crops are viable and stable.

Throughout FY01, Flávio Leopoldino, in partnership with UESC, will coordinate the collection of native tree plantules and seeds for propagation in greenhouses, which will later be used in the agroforestry systems and in the recovery of disturbed areas.

FY 2001: Obj1.A4	O	N	D	J	F	M	A	M	J	J	A	S	US\$
Joaquim Blanes and Flávio - Greenhouses	x	x	x	x	x	x	x	x	x	x	x	x	724
Flávio Leopoldino - Native plant collect	x	x	x	x	x	x	x	x	x	x	x	x	776
Total													1,500

A5) In partnership with M&M Mars' local research farm, IESB extensionists will cooperate in the field testing and distribution of a biocontrol agent for the witches broom disease of cacao, on the farms of cooperators who are implementing forest-conserving management in the buffer zones of protected areas. FY 00-01.

In FY01, Joaquim Blanes and the TBD technician will analyze the results of the experimental cocoa plots which received different forms of treatment – trichoderma and clonal gardens. Due to USAID funding cuts they are seeking other funding to produce and distribute a white paper.

FY 2001: Obj1.A5	O	N	D	J	F	M	A	M	J	J	A	S	US\$
Joaquim Blanes and Technician TBD: analyze the results	x	x	x	x	x	x	x	x	x	x	x	X	
Subtotal Obj1,A5													

Objective 1 (A) Benchmarks	Measure	By
Rural producers' associations consolidated	80 rural producers trained in environmental legislation.	March 2001
Organic production disseminated	150 producers trained .	Oct 2001
	50 tons of organic cocoa sold.	Oct 2001
	The Organic Producers' Cooperative created.	Oct 2001
	40 producers in the process of convert the conventional cocoa production system into organic certificate production.	Oct 2001
Product sold though improved marketing	10 tons of guaraná, rubber sold.	Oct 2001
	5 tons of piaçava sold.	Oct 2001
	2 tons of rubber sold.	Oct 2001
Forest effectively protected as a result of raised incomes	20 Legal Reserves demarcated.	Oct 2001
Agricultural alternatives developed and implemented	100,000 açaí seedlings planted.	Oct 2001
	5,000 piaçava seedlings planted.	Oct 2001
	6 demonstration areas with "witch broom" natural resistant cocoa trees planted.	Oct 2001
	5 demonstration areas with "green fertilizer" implanted.	Oct 2001

B) Phase-out commercial logging that supplies non-local demand with implementation of command and control procedures and policies mitigating social impact of industry decline. FY 99-00-01.

In FY01, IESB will accompany the activities of the logging industry which exports products for the extra-local demand, with the implementation of logging activities inspection.

IESB will: (with matching funds from PPG7)

- (1) conduct research about patrolling and logging activities inspection, together with the government of Bahia and IBAMA
- (2) help with the organization of a state workshop about patrolling
- (3) help with the implementation of 1 and 2.

Marcelo Araújo will organize, together with the State Committee for Biosphere Reserve, a state workshop about inspection, with the participation of IBAMA, DDF, environmental inspectors and NGOs.

Heloisa Orlando will conduct research, supported by PROBIO (matching funds), on logging activities inspection systems in the state of Bahia.

Flávio Leopoldino, with Gabriel and Marcelo's assistance, will do field research to identify the main current logging sites in the cocoa region, in Bahia.

FY 2001: Obj1,B	O	N	D	J	F	M	A	M	J	J	A	S	US\$
Heloisa Orlando – research on logging activities inspection	x	x	x	x	x	x	x						
Flávio Leopoldino – research on main current logging sites	x	x	x	x	x	x	x						
Marcelo Araújo – workshop organization					x	x	x	x					
Total Obj1,B													

Obj 1 (B) Benchmarks	Measure	By
Logging activities inspection system improved	The results of the survey on logging activities in South Bahia published. A workshop together with IBAMA and DDF on inspection realized.	April 2001 May 2001
Enforcement plan adopted by multi-agency task force	Implementation of controlled logging on cocoa lands pursuant to regulation	Oct 2001
Main current logging sites identified	White paper distributed	Oct 2001

C) *Eliminate incentives encouraging the location of agrarian reform settlements on forested lands with fragile soils. Work with government to achieve the implementation of policies integrating forest conservation with land reform on sites appropriate to small-farmer agriculture. FY 99-00-01.*

The collaboration between IESB and INCRA has been successful. As of late INCRA has avoided agrarian reform settlements in forested lands in Southern Bahia.

Together with IESB, INCRA intends to transform five agrarian reform settlements (two in the Una Reserve buffer zone and three in the APA Itacaré-Serra Grande) into "settlement models". In FY01, Rui Rocha, Salvador Trevisan and Joaquim Blanes will assist the producers in organic production and will support environmental conservationist activities. These activities will be developed with matching funds from FUNBIO.

FY 2001 - Obj 1 C	O	N	D	J	F	M	A	M	J	J	A	S	US\$
Rui Rocha, Salvador Trevisan and Joaquim Blanes – organic production	x	x	x	x	x	x	x	x	x	x	x	x	
Total Obj 1, C	x	x	x	x	x	x	x	x	x	x	x	x	
Total Obj 1													8,687

Obj 1, (C) Benchmarks	Measure	By
Organic production implementation in agrarian reform settlements	Organic production in 2 settlement	Oct 2001

Objective 2:

Public policy alternatives reversing existing incentives favoring forest degradation implemented, with subsequent adoption of environmentally and socio-economically sustainable land-use practices beyond demonstration sites.

Activities:

A) *Implementation of new fiscal incentives for private reserves (federal private nature reserve legislation - RPPN - reinforced, creation of state-level private reserve law), for municipalities with conservation areas (ICMS ecológico), and for tourism practices that contribute to conservation and community development. FY 99-00-01.*

A1) *CI and IESB have produced model legislation for a Bahian ICMS ecológico, and additionally will work to provide legislators with background on how this serves local interests. FY 99-00-01*

In FY01, IESB will continue its efforts, through seminars, meetings, and various contacts with mayors, and state government officials to promote the ICMS ecológico in the state of Bahia. Rui Rocha and Marcelo Araújo will coordinate meetings involving the State Committee for Biosphere Reserve and Bahian mayors about ICMS Ecológico. Ideas for fiscal incentives for landowners with forest reserves

will continue to be developed and disseminated by Keith Alger, Gustavo Fonseca, and Ken Chomitz through the PROBIO research project.

IESB will continue its efforts to strengthen the Committees and Councils legally established for public policy implementation monitoring, through associations with other organized sectors of civil society. In FY01, IESB will:

- (1) Coordinate the State Committee for Biosphere Reserve, in which 12 governmental and non-governmental institutions participate, following the implementation of the Ecological Corridors Program (with matching funds from PPG-7 and CRA and UESC).
- (2) Maintain its participation in the Municipal Council for the Defense of the Environment in Ilhéus (CODEMA), an entity responsible for the municipal policies of the environment and the licensing of undertakings with a potential environmental risk.
- (3) Provide support for and participate in the management council of the APA of Itacaré-Serra Grande.
- (4) Implement the State Committee for the Certification/Regulation of organic products.

Marcelo Araújo and Rui Rocha will coordinate the State Committee for Biosphere Reserve monthly meetings. One of the responsibilities of the Committee is to administrate the PPG-7 financial resources for the Atlantic Forest Central Corridor.

Marcelo Araújo and Gabriel Santos will develop, with the support from the Committee for Biosphere Reserve and BirdLife International, a proposal to create a conservation unit in the Serra das Lontras and Javi region.

Marcelo Araújo and Rui Rocha will also participate in the Ilhéus Municipal Environmental Council monthly meetings. This council is responsible for the establishment of the municipal environmental policy.

Rui Rocha will continue supporting the APA Itacaré-Serra Grande Administrative Council meetings. IESB participates as Executive Secretary.

Joaquim Blanes will support the organization and implementation of the State Council for Organic Products Certification, together with the Agricultural Ministry Regional Office.

Gustavo Fonseca and Keith Alger will organize and publish the results of the PROBIO Project.

Keith Alger and Heloisa Orlando will finalize and publish a book on IESB's results obtained in the last five years.

FY 2001- Obj2, A1	O	N	D	J	F	M	A	M	J	J	A	S	US\$
Rui Rocha and Marcelo Araújo– Meetings							x	X	x	x	x	X	
Gustavo Fonseca, Keith Alger – Probio Research and Publications	x	x	x	x	x	x	x	X	x	x	x	X	
Marcelo e Rui - Committee for Biosphere Reserve	X	x	x	x	x	x	x	x	x	x	x	x	789
Marcelo e Rui – Condema Ilhéus		x	x	x	x	x	x	x	x	x	x	X	
Joaquim Blanes – Regulation of Organic Products	x	x	x	x	x	x	x	x	x	x	x	X	500
Publications/IESB					x	x							6,000
Total Obj 2, A1													7,289

A2) Support sustainable tourism development. In FY00 and FY01, the Una Ecopark will consolidate communications and continue to seek funding for a bona fide visitor center. FY 99-00-01

In FY01, CI and IESB will continue their efforts to promote ecotourism in the "Costa do Cacau" region. This region includes Itacaré, Uruçuca, Ilhéus, Una and Canavieiras municipalities. In FY01 IESB will: (1) Contribute in the installation of an Ecotourism Company Incubator, in partnership with SUDETUR (Government of Bahia), which will serve as a training center for businesspeople and workers of the sector, and will include an Ecotourism Center. (2) Proceed with the tourism maintenance and operation of the Una Ecopark which contributes to sustainable tourism in the region.

IESB will continue supporting the development of tourism products both directly, by disseminating the Una Ecopark demonstration model, and indirectly, by promoting related product opportunities such as handicraft, food service providers, and/or local tour operations. In FY01, Beto Mesquita and Stephen Edwards will continue their efforts to raise funds for ecotourism workshops and ecotourism promotion in the region, as well as the strengthening of Una Ecopark as a ecotourism attraction.

Beto Mesquita and Rui Rocha will continue their efforts to implement, with PRODETUR support, (matching funds) the Incubator Program for Ecotourism in the region.

RPPN (Natural Patrimony Private Reserve) is a conservation unit created by Federal Decree 98.914/90. The objective is to preserve natural resources (water, fauna, flora, caves, etc) in private properties. The landowner decides and delineates the area to be transformed into an RPPN. An RPPN is a perpetual conservation unit and only activities such as research, environmental education and ecotourism are permitted inside the protected area. To be transformed into an RPPN the areas have to be inspected and approved by IBAMA. IESB supported the creation of an RPPN Owners of Bahia Association to assist the landowners and to monitor the RPPNs. In FY01, Flávio Leopoldino will continue his work on RPPNs, assisting the farmers in the creation of RPPNs. He will also seek funds to revise the guide about RPPNs.

Through these initiatives, our intention is to increase the efficiency of the distribution of economic benefits from tourism investments and product management, while ensuring clear links to conservation.

FY 2001 - Obj 2, A2	O	N	D	J	F	M	A	M	J	J	A	S	US\$
Beto Mesquita and Steve: Regional Tourism Planning products.	x	X	X	x	x	X	x	x	X	x	x		1,086
Beto Mesquita: Ecoparque operator, promoting and marketing	x	X	X	x	x	X	x	x	X	x	x		3,337
Flávio - RPPN's		X	X	x	x	X	x	x	X	x	x	x	831
Total Obj 2, A2													5,254

B) Define strategies to eliminate incentives that promote monocrop plantations to the detriment of biodiversity friendly agriculture. FY 99-00-01

In FY01 IESB in collaboration with UESC and UFBA will:

- (1) organize a State Committee for the regulation/certification of organic production;
- (2) produce material for and organize meetings with farmers explaining the concepts and fundamentals of sustainable agriculture.

Joaquim Blanes and Mariella Uzêda (UESC) will work together with the Organic Certification State Committee seeking more governmental incentives and support for organic production.

Marcelo Araújo will help Mariella Uzêda (UESC) to prepare a book about sustainable agricultural production (history, techniques and ways of adoption).

FY 2001: Obj2, B	O	N	D	J	F	M	A	M	J	J	A	S	US\$
Joaquim e Mariella Uzeda – articulation and coordination of the committee		X	x	x	x	x	x	x	x	x	x	x	
Marcelo e Mariella - publication				x	x	x							
Joaquim, Mariella e Marc – meetings with farmers		X	x	x				x	x	x			
Total Obj2, Supplies, Equip.													12,543

Objective 2 Benchmarks	Measure	By
Improved policies	Inspection of 5 areas to create new RPPNs. 5,000 folders about RPPN distributed. 8 seminars on RPPN, to producers, realized. A inter-institutional group to monitor the BA 001 road (Itacaré-Camamú) constituted. A proposal to transform Serra das Lontras e Javi in a conservation unit prepared and presented to the government of state of Bahia. The Administrative Committee for the Corridor Program constituted. The book “The Conservation of Atlantic Forest in South Bahia” reporting the IESB’s work since 1994, published.	Oct 2001 Sept 2001 Sept 2001 Sept 2001 May 2001 May 2001 June 2001
Sustainable tourism disseminated	10 South Bahia ecotourism enterprises trained, capacitated and monitored in the Ecotourism Incubator Program.	Sept 2001
Fiscal incentives for municipalities and landowners analyzed, produced	White paper (PROBIO) disseminated	May 2001

Objective 3:

Increase knowledge about the significance of region’s biodiversity while assisting in the design and implementation of management plans for biodiversity conservation units, zones, and corridors.

Activities:

A) *Prepare conservation planning maps for use in planning, monitoring, biodiversity research, and park management. FY 99-00-01.*

In FY01 IESB will prepare conservation and planning maps for the conservation units, useful in park management, monitoring, and biodiversity research. In particular, IESB will:

- (1) Plan the acquisition of air photos to continue land-use monitoring.
- (2) Conclude the interpretation of the air photo-maps of the Una Reserve and buffer zone, Conduru, APAs and RPPNs.
- (3) Organize the database integrating remote sensing with information about flora and fauna providing interactivity.

These three activities will be funded with matching funds--around US\$ 6,000 through the FUNBIO/Ford project and US\$ 4,000 through support from CRA.

Marcelo Araújo will continue efforts to organize and update the geographic data from the Southern Bahia region, including information about mangroves and forests remaining in Una and Itacaré. Marcelo will organize, with Flávio Leopoldino's assistance, the database on RPPNs in South Bahia.

Marcelo and Alessandro will continue the partnership with UESC to train students from Agronomy and Biology courses in Geographic Information Systems. 10 students will be trained in 2001.

Marcelo and Alessandro will organize, together with Charlotte Landau (PROBIO/IESB/UFMG), the temporal analyses of the satellite images for Una and Itacaré regions.

Alessandro Marques, Joaquim Blanes and Walter will continue organizing the database on organic producers and legal reserves demarcation.

Alessandro Marques and Marcelo Araújo, with support from Flávio Leopoldino, will continue preparing maps to help IBAMA in the processes of creating RPPNs.

Marcelo and Alessandro will help Paulo Inácio (PROBIO/IESB/UNICAMP) to publish and distribute the CD-ROM on the Atlantic Forest of Southern Bahia database. On this CD an informational database on fauna and flora will be integrated into the existing remote sensing database to provide a research instrument for basic biological research.

FY 2001 Obj3 A	C	N	D	J	F	M	A	M	J	J	A	S	US\$
Marcelo, Alessandro - Catalog of Maps from Air Photos, Private Reserve Maps, Maps for Park Managers	x	x	x	x									1,730
Marcelo, Alessandro – student training	x	x	x	x	x	x	x	x	x	x	x	x	414
Marcelo, Charlotte – Time-Series Analysis Planned						x	x	x	x	x	x	x	494
Marcelo, Paulo Inacio - Data Base: Organization and Maintenance	x	x	x	x	x	x	x	x	x	x	x		985
Total Obj3A													3,623

B) Obtain baseline data on biodiversity associated with land uses to prioritize conservation policy. FY 99-00-01.

In FY01 IESB will:

- (1) Research distribution patterns of the fauna in the region of the Ecological Corridor in Southern Bahia
- (2) Research forest regeneration in areas subject to forest fires.

Both of these research initiatives will receive financial support from PROBIO/MMA and CABS/CI (matching funds).

Raquel Moura will coordinate the PROBIO/IESB/CI Project Researchers Workshop to present the results of the Southern Bahia biodiversity research projects, including mammals, birds, reptiles and amphibians. As part of the PROBIO Project (funded with matching funds), key species associated with different conservation units will be identified and included in a database accessible to other researchers and publicized to create local pride in the uniqueness of different areas.

The research on small mammals in primary forest and cabruca has been expanded to other habitats and agricultural land uses (rubber, oil palm) as part of the PROBIO Project (funded with matching funds). This research will permit estimates of fragment sizes and types of agricultural activity consistent with biodiversity protection in conservation "corridors". In FY01, Raquel Moura will conclude her research on small mammal distribution in the Southern Bahia Atlantic Forest.

Adriana Martini will conclude her field research on arboreal species regeneration in areas affected by fire in Una Biological Reserve.

A specialist in birds will be consulted to produce bird lists useful in the Ecopark.

Cecília Kierulff will begin the first population survey of the largest and most threatened primate endemic to the region, the golden-breasted capuchin monkey (*Cebus xantosternos*).

FY 2001 - Obj3, B	O	N	D	J	F	M	A	M	J	J	A	S	US\$
Raquel Moura - Research on mammals regionwide	X	x	X	x	x	X							
Adriana Martini - Research on forest regeneration	X	x	X	x	x	X	x	x					683
Adriana Martini - seminar						X	x						
Cecília Kierulff - Survey of primates					x	X	x	x	x	x	x	x	
Total Obj3, B													683
Total Obj3 Supplies, Equip.													4,306

Objective 3 Benchmarks	Measure	By
Maps produced	A detailed map of the remaining forest fragments distribution in the Una Reserve and Conduru Park buffer zone produced and published.	Sept 2001
	A map of remaining mangrove distribution in the Southeast of Bahia produced and published.	Sept 2001
	A map of the remaining forest fragments in South Bahia produced and published.	May 2001
Database produced	A CD-ROM including the database of remote sensing coverage (maps) and fauna and flora information produced and distributed.	March 2001
Park management improved	Explicit policies and procedures implemented on pasture, fire and hunting threats.	Sept 2001
Fauna information produced	A bird list for the Ecopark	Sept 2001
	1 scientific report and 1 popular publication.	Sept 2001

4) CI-Indonesia

Annual Workplan for FY01

As funding for the Indonesia component of the BiRD Cooperative Agreement was for two years only (FY99-00), it has been determined that there will be no funds remaining for carry-over into FY01. Therefore, a workplan for the Indonesia component will not be included in the FY01 BiRD Annual Workplan.

5) CI-Papua New Guinea

Annual Workplan for FY01

Objective 1:

Increase the link between community-based resource management and biodiversity conservation on Kamea-owned lands in the Lakekamu Basin through expanded use of the Ivimka Research Station (IRS).

Activities:

A) *Work in partnership with the Kamea landowners to maintain and promote the IRS in the Lakekamu Basin as a world-class, lowland rainforest research facility. FY99-01.*

A1) *CI-PNG will help facilitate increased consultation with the IRS Kamea landowners and nearby Kamea community of Tekadu to enhance the information flow between IRS field staff and the Research Station's local stakeholders. FY99-01.*

In FY00 important progress was made towards the production of a proper boundary description for the Ivimka Research Area as well as the creation of a land-use/ resource map with the Tekadu and Nukeva villages. (To be elaborated in the upcoming Semi-Annual Report.) The Kamea people's ideas have been recorded and thus the process can be continued among the different language and ethnic groups to identify "conflict areas" and "no-conflict areas". With the knowledge of the conflict areas and no conflict areas as well as the different land-uses by different groups and/or villages, CI and partners will be able to plan projects along local peoples' ideas and aspirations. This will be a healthier approach, as in the past the project partners have waited for conflicts to be resolved before moving on with project activities, and a lot of time was lost just waiting for the resolution of conflicts. The advantage CI and partners will have after this exercise is to start or continue to work with landowners in the areas where there are no conflicts and start to produce results, and at the same time work with or wait on conflicting parties to resolve their land conflicts. This meeting will also discuss the boundaries for proposed Wildlife Management Area(s) [WMA] as some awareness has already been conducted by FPCD. This approach to community consultation may help provide answers to the many questions about local participation in project planning and management, local perceptions, land/resource use rights, stakeholder identification, and Community Based Resource Management (CBRM).

Meetings will be held frequently when CI project officers (Eka and Banak) are in the Basin. Given the nature of the project in the Basin, meeting times and objectives will be decided by Basin staff and community leaders. The FY01 field schedule for Eka and Banak is as given in the planning box below.

This activity will continue in FY01 with a wider approach this time to include consultations with project partners and alliances, e.g. Provincial and Local Level Governments. Consultations will also involve awareness raising on WMAs, since the Kameas have already started talking about it. Consultations with the local communities will be in the form of village meetings/workshops and small group discussions. The Project Manager will consult with Gulf and Morobe Provincial Governments in the form of "face to face" discussions and project presentations, telephone conversations and printed information.

Given the nature of the project, community consultation still remains a vital part of all field-based project activities. As such, the activity will continue beyond the BiRD Agreement.

FY 2001 Obj 1-A A1	CI Staff	O	N	D	J	F	M	A	M	J	J	A	S
Regular meetings and Community Consultation	Banak		x			x			x			x	
	Eka	x			x			x			x		
Consultations with Gulf and Morobe Provincial Governments						x					x		

Key Staff Involved

1. CI-PNG Lakekamu Program Manager
2. CI-PNG Site Manager
3. Local Field Assistants
4. Tekadu community
5. CI-PNG Assistant Program Director

Resource Requirements

1. Staff time

A2) CI-PNG, in consultation with Kamea landowners, also proposes to update the current monitoring and evaluation program. FY99-01.

Very little progress was made on this activity in FY00 because the project didn't have the capacity to draw up the Monitoring and Evaluation program. Conservation International, in its attempt to build capacity of its field project Managers has conducted two training programs so far, with the latest between September 24 and October 01, 2000. This training focused on designing Monitoring Plans for Project Implementation and Evaluation. The Lakekamu project Manager (Banak) attended the training so he will be in a better position to design and implement a Monitoring and Evaluation program for the project. The new Monitoring and Evaluation Program will be developed in this third and final year of the BiRD Agreement. Although this is the final year of USAID support, the M&E Plan is needed for use beyond the BiRD Agreement.

FY 2001 Obj 1-A A2	O	N	D	J	F	M	A	M	J	J	A	S
Consultation with Experts	x	x	x	x	x	x	x	x	x	x	x	x
M & E draft prepared								x				
Final draft of M&E plan prepared												x

Key Staff Involved

1. Lakekamu Program Manager
2. Lakekamu Site Manager
3. Local Field Assistants
4. Tekadu Community
5. CI-WA Melanesia Program Manager
6. CI-WA M&E Personnel

Resource Requirements

1. Staff time

A3) CI-PNG, in consultation with Kamea landowners, will oversee expansion and maintenance of the current trail network, construct observation blinds and make improvements as needed to the IRS. FY99-01.

Maintenance and Improvements to the IRS facility have been partly implemented because of the previously slow buy-in from the local community. The situation is different now with much greater participation from the local communities. In FY00, the trail-network plan was agreed upon by the local Tekadu landowners and implemented with new additions made to the trails-network. Maintenance to the trails and the general IRS area is a continuing activity and will extend beyond the BiRD Agreement. Building of observation blinds and marking of trails will be carried out this fiscal year.

It has become increasingly important to construct a new lodge to accommodate local field/research assistants on site. The IRS building, which is also a lodge for researchers and visitors, has become too crowded and noisy with locals using the same building. The project staff has also received complaints from researchers and visitors regarding lack of privacy at the research station. This will be a new activity for FY01 to improve the IRS facility.

FY 2001-02 Obj 1 A A3	O	N	D	J	F	M	A	M	J	J	A	S
Maintenance of current trail network		x			x			x			x	
As needed improvements to IRS infrastructure												x
Construct Lodge for IRS Research Assistants												x
Sites for observations selected and blinds constructed								x				
Additional trails construction						x						
Map IRS Area (incl. trails, and research boundaries)											x	

Key Staff Involved

1. Kamea landowners
2. Local Field Assistants
3. Lakekamu Program Manager
4. Lakekamu Site Manager

Resource Requirements

1. Staff time
2. Community participation
3. Bush materials (non-cost item)
4. Building material costs

A4) CI will also promote the 1998 RAP Working Paper Number 9 on the 1996 Lakekamu Basis RAP as a promotional tool to expand use of the IRS by visiting researchers and will explore potential partnerships with research institutions in PNG, Australia and elsewhere in the Pacific. FY99-01.

The promotion and distribution of the 1998 RAP Working Paper Number 9 was accomplished in FY99 and part of FY00. As the promotion of the RAP working paper is complete, CI-PNG will focus on the second part of the activity, which is the exploration of potential partnerships with research institutions and the promotion of the Lakekamu Project both locally and abroad. This year (FY01), we will concentrate our efforts on building a partnership with the Sylvard Institute of Natural History in their work at the IRS to promote research as well as increase the local economy of the Kamea community. The Sylvard Institute of Natural History, in partnership with staff researchers from the University of California at Davis, has begun long-term entomological research and collecting in the Lakekamu Basin, using the IRS as their base of operations. This institutional partnership will benefit all stakeholders of the Lakekamu Basin

project through an increase in biological knowledge, training of local research assistants, maintenance of research equipment and increase income opportunities for Basin residents linked to forest resources. CI intends to encourage continued growth of this relationship as a means of building and maintaining a long-term research presence at the IRS. The research of Sylvard Institute personnel ultimately will attract researchers from other institutions to the Lakekamu Basin who rely on the pioneer work of others before making commitments to field work. Identification of a local research institution within Papua New Guinea to provide management support to the IRS still remains unsolved. Attempts will be made this year to find a local partner from a list of potential candidates to assume this role in future.

In order to put the Lakekamu Basin project in an historical perspective for use as a learning tool and case study. This will include the compilation of a project brief from all project field and technical reports since the beginning of the Lakekamu Project. This document will include project background, justification, threats, major activities, achievements, difficulties, lessons learnt, etc., and copies will be bound for circulation.

This activity (A4) will continue beyond the BiRD Agreement.

FY 2001 Objective A4	O	N	D	J	F	M	A	M	J	J	A	S
Partnerships search	x	x	x	x	x	x	x	x	x	x	x	x
Put together promotional information for Science and Adventure Tourism in the Lakekamu Basin						x	x					
Compile Lakekamu Project Reports									x			
Print and Bind copies of Reports											x	
Update PNG Program pages and link CI website to PNG Embassy's website						x						x

Key Staff Involved

1. CI-WA Melanesia Program Manager
2. CI-PNG Country Director
3. Lakekamu Project Manager
4. Lakekamu Site Manager

Resource Requirements

Staff time

A5) CI-PNG will empower the local community to participate fully and meaningfully in the Science and Research Tourism Enterprise. In doing so, CI-PNG will facilitate community training and the establishment of an IRS Management Committee comprising members of the local Tekadu Community.(FY00-01)

This activity is actually an addition to the original BiRD workplan because part of it was already being implemented without much funding support. In FY01, the Lakekamu project staff will liaise with the community and other organizations and/or individuals in organizing and coordinating training activities. These training activities may be conducted in the form of workshops or as on-the-job training in some cases where locals are selected to work as assistants with visiting researchers. CI-PNG Project staff will facilitate this process with local stakeholders. These training activities will be conducted at Tekadu and at the Ivimka Research Station, depending on the necessary context of the training.

An IRS Management Committee has been formed, which will act as CI's counterpart in the local community and will be the primary partner in consultation over management issues (placement of trail networks, blinds, fee schedules, etc.).

Activities not fully completed in FY01 will continue beyond the BiRD Agreement, but the locals should be more involved in decision-making and the management of IRS.

FY 2001 Obj 1 A A5	O	N	D	J	F	M	A	M	J	J	A	S
Research Assistant Training	Achieved but will continue as and when researchers visit											
Tour/Field Guides Training									x			
Establish IRS Management Committee	Achieved, need to spell out specific duties and roles											
Butterfly Farming Training					x							

Key staff involved

1. CI-WA Melanesia Program Manager
2. Lakekamu Program Manager
3. Lakekamu Site Manager
4. CI-PNG Country Director

Resource Requirements

1. Staff time
2. Trainers and Resource Personnel from partner organizations and individuals
3. Training Materials/Supplies

FY01 Outputs/Benchmarks for Objective 1, Activities A1-A5

1. Hold continued informational meetings with the Kamea landowners of the IRS. – Continuing
2. Reevaluation and Revision draft of M & E plan. Continuing
3. Expansion and maintenance of current trail network; As-needed infrastructure improvements; New trail network planned; Sites for observation blinds selected- continuing
4. Continued distribution of 1998 RAP Working Paper Number 9 on the 1996 Lakekamu Basin RAP to promote IRS; Partnership search.- RAP Book Distribution Complete; Partnership search continue
5. Training completed for Local Research Assistants and Tour Guides. IRS Management Committee Established and some Committee members trained in Basic Book-keeping, Butterfly Farming. Please note: Local Research Assistants Trained, PRA is omitted because it can be used as a tool by project staff to encourage local community participation. Instead, CI-PNG staff will be trained on the job. This requires the involvement of a PRA expert, PRA Land-use mapping is also a tool for community consultation. IRS Management Committee is established; training will be informal with CI-PNG Project Staff.

B) CI-PNG will continue its efforts to inform the Kamea on the importance the Lakekamu Basin's biodiversity, the importance of sustainable resource use and the various conservation options open to them. This would be accomplished through:

- a series of community meetings and workshops. CI-PNG Lakekamu Basin staff will conduct this activity. FY99-01.
- delivery of the results of the 1996 Lakekamu Basin RAP to Basin communities in a comic-book format that is widely used for education purposes in PNG, and that will be most useful and accessible to them. FY00 -01.

Meetings on biodiversity conservation will occur throughout the life of the cooperative agreement. The Kameas have already begun discussing establishment of Wildlife Management Areas (WMAs) on their lands. CI-PNG Lakekamu Staff will conduct awareness meetings and workshops on WMAs and organize the local stakeholders to participate through these processes in establishing the WMAs.

Work on the comic book is continuing with the artist laying out the artwork. A draft is expected by March of FY01. The draft will then be edited and submitted for publication in September.

This activity will be concluded by conducting at least two awareness workshops for the Kamea community and submission of the comic book for publication in FY01.

FY 2001 - Obj 1 B	O	N	D	J	F	M	A	M	J	J	A	S
Meetings/workshops on biodiversity		x			x			x			x	
Comic book consultations				x								
Draft of comic book						x						
Final editions to comic book draft and submit for publication												x

Key Staff Involved

1. Lakekamu Program Manager
2. Lakekamu Site Manager
3. Local Field Assistants
4. Tekadu Community
5. CI-WA Melanesia Program Manager

Resource Requirements

1. Staff time
2. Meeting costs
3. Domestic air travel

FY01 Outputs/Benchmarks for Objective 1, Activity B

1. Series of meetings on biodiversity with the Kamea.
2. Complete consultations on comic book content.
3. Complete draft of comic book.

(C) CI-PNG in consultation with the Kamea Landowners, the Morobe and Gulf Provincial Governments, the Department of Environment and Conservation and other relevant authorities will declare the Ivimka Research Station (IRS) and surrounding Kamea/Watut held lands as a Wildlife Management Area (WMA).

This is a new activity included as a result of all previous activities. There are already discussions and suggestions among the Kamea people about the establishment of WMAs. From past experiences, the Lakekamu project staff has recommended that this activity be added in order to maintain the momentum that has been built up over the past few years. This activity will lead to the declaration of WMAs, which will give legal status for the conservation of biodiversity on Kamea owned lands surrounding the Ivimka Research Station.

The Kamea people, during the August meeting on land uses, began discussing the establishment of Wildlife Management Areas on their lands. The land use consensus map created by Nukeva and Tekadu villages designated five core areas as potential "Protected Sites". These sites will be within a bigger area that extends into the mountains, and the Kamea are interested in getting the area declared a WMA. Following their expression of interest, the Project Manager (Banak) selected three locals as "Local Field Assistants" to monitor, record and report any events, statements by individuals and/or observations they make in the field in relation to WMAs or the Lakekamu Project in general. They were shown how to write simple narrative reports and keep diaries. They will be reporting to Banak monthly on anything at all as mentioned above. They will be given a small stipend upon submission of their monthly reports.

Activities for FY01 will include several WMA awareness meetings in each Kamea village and initial visits to some of the selected sites. While doing that, efforts will be invested in the creation of a Wildlife Management Committee, drawing up the WMA Rules, getting a proper boundary description and submission of a WMA proposal to the National Government for gazettal.

FY 2001 - Obj 1B	O	N	D	J	F	M	A	M	J	J	A	S
WMA Awareness		x			x			x			x	
Site Visits		x						x				
Formation of WMA Committees		x			x							
Develop Rules								x				
Boundary Descriptions									x			
Submission of WMA plan and proposal to the National government for gazettal												x

Key Staff Involved

1. Lakekamu Program Manager
2. Lakekamu Site Manager
3. CI-PNG Country Director
4. Local Field Assistants
5. Kamea Community
6. CI-WA Melanesia Program Manager

Resource Requirements

1. Staff time
2. Meeting costs
3. Domestic Air travel costs

FY01 Outputs/Benchmarks for Objective 1, Activity B

1. WMA Awareness in all Kamea villages.
2. Several site visits to proposed areas.
3. Formation of WMA Committees
4. Develop Rules
5. Boundary Descriptions
6. Submission of WMA plan and proposal to government for gazettal

Objective 2:

Foster biodiversity conservation in targeted communities in Wide Bay, East New Britain Province through exploration of conservation-based enterprise development and support of community-based resource management.

Activities:

CI and our local NGO partner, the East New Britain Sosek Eksen Komiti (ENBSEK), work with local communities in Wide Bay to increase their knowledge and understanding of conservation-related issues.

A) CI-PNG, in partnership with ENBSEK and local communities, and with technical support provided by CI-Washington, will conduct a targeted RAP survey and continue participatory rural appraisals in order to formulate community-based resource management plans.

A1) At the request of the communities of Taintop and Klampun, CI will conduct a small-scale RAP survey on their lands. Information obtained from the survey will be used in developing community-based resource management plans. Results of the RAP survey will be published and disseminated within Wide Bay communities. FY00-01.

CBRM has been viewed as an objective of all activities carried out in the three years of the USAID BiRD Agreement, including the targeted small-scale RAP, targeted enterprise development study and Participatory Rural Appraisal (PRA). In fact the CBRM Strategy is a product of these combined activities, where the emphasis is on building the capacity of local communities for sustainability of the project. The CBRM activities described below arise out of the small-scale RAP results. Recommendations from the

different disciplinary components of the small-scale RAP survey, conducted near Tiemtop and Klampun villages between 13 March and 27 July 2000, will be incorporated into CBRM plans during FY01. RAP team leader, Dr. Andy Mack, and Wide Bay Project Manager, Maureen Ewai will compile the final report on the RAP consisting of different components, for dissemination in FY01.

The following activities have been identified as necessary elements of a successful CBRM strategy derived from the RAP results and recommendations. As such, these are new activities, since they could not have been identified prior to the RAP's findings. The current communities' emphasis on establishing Wildlife Management Areas is a particularly welcome outcome of the past three years' work, especially since CI and ENBSEK did not feel that it was realistic to achieve this result at Wide Bay during the duration of the BiRD Cooperative Agreement.

CBRM strategy includes the following four elements:

- a) **Community capacity building**—Institutionalizing the Wide Bay project at the community level is an important objective for the long-term sustainability of the project. As a first step, CI's Wide Bay Project Officer, Peter Bosip, is working with the community to form Association(s) by land groups, which will be registered with the Investment Promotion Authority (IPA). These Association(s) will form the basis for training that will strengthen community capacity to carry out conservation related activities for the long-term life span of the project beyond the BiRD agreement. The Constitution of the Association(s) will be completed and circulated for comments before submission to the IPA for incorporation. In addition, training workshops and related activities will be conducted for the local communities, including Extension Volunteers, Conservation Management Committee and the East Pomio Local Level Government (EP LLG).
- b) **Networking and building alliances:** In Pomio District, major stakeholders include the East Pomio Local Level Government (EPLLG), local NGOs, and the East New Britain Tourism Office. We already have negotiated with the Pomio District and the EP LLG authorities on the possibility of working in alliance with them, and their response has been very positive. With the current push for reform in the provincial government, CI and ENBSEK are in an excellent position to influence policy at the local level (district level).

The EP LLG has a working committee that was formed for developing plans for the three demarcated zones in the Local Level Government (LLG). The Working Committee is made up of individuals from different sectors involved in the development of LLG. The Administrator of the LLG, Mr. Louis, has invited CI to be involved in the working committee, and Peter Bosip, our new field officer will represent the project on this committee. CI will use this opportunity to ensure our input into the development of the LLG, as well as recognition and support of our activities in the LLG by the District authorities.

- c) **Awareness raising:** CI and ENBSEK plan continuous conservation awareness-raising activities in the Wide Bay area to reach a wider audience, including schools and the communities. These activities help create a wider constituency for CBRM. Activities for FY01 include: forums at the LLG and District levels; distribution of written materials produced from activities conducted in the area over the years of the project, including simplified RAP data for the local communities and written in local languages; and exploring the production of a Wide Bay Project bi-annual newsletter, tentatively titled "Tokaut Nius bilong Wide Bay Project" and produced in Tok Pisin. This was one of the many recommendations by members of the community, who especially wanted a forum for the extension volunteers and the project committees to contribute their views/opinions about the project.

- d) **Establishment of Wildlife Management Areas:** The biological survey recommended that the Wide Bay project take prompt action to conserve the area before species of plants and animals become endangered as a result of habitat destruction from excessive logging. Consequently in FY01, establishment of two Wildlife Management Areas (WMAs) in Klampun and Tientop areas will be attempted as the best option available for successful conservation. The PNG Office of Environment and Conservation (OEC) has requirements for gazettal of WMAs, which include:
- (a) Formation of a WMA committee and a list of members (completed)
 - (b) WMA rules (completed)
 - (c) Land boundary description (this is currently being undertaken with the use of Global Positioning System (GPS).

Once we have completed the land boundary description and interpreted the data, we will submit to OEC, components (a), (b), and (c) in FY01 for gazettal of the WMAs. The gazettal of WMAs depends on government approval.

FY 2001: Obj 2 A A1	O	N	D	J	F	M	A	M	J	J	A	S
Compilation and dissemination of Final RAP Report	X	X	X	X	X	X	X	X				
Community capacity building training workshops	X	X	X	X	X	X	X	X	X	X	X	X
Formation of Community Association & Registration with IPA	X	X	X	X	X	X	X	X	X			
Interpretation of GPS data	X	X	X	X	X							
Submission of Requirements (a), (b),(c) to OEC for gazettal of WMA	X	X	X	X	X	X	X	X	X			
Promotional & Awareness activities	X	X	X	X	X	X	X	X	X	X	X	X
Compilation & documentation of lessons learnt in Wide Bay	X	X	X	X	X	X	X	X	X	X	X	X

Key Staff Involved

1. RAP team leader, Dr. Andy Mack
2. ENBSEK staff
3. Communities of Taintop and Klampun
4. CI-PNG Country Director
5. CI-PNG Project Manager
6. CI-PNG Field Officer, Wide bay

Resource Requirements

1. Staff time
2. Domestic air travel
3. Excess baggage - field supplies
4. Extension Volunteers
5. Field supplies
6. External grant to ENBSEK

A2) CI-PNG with local partner, ENBSEK, will carry out additional participatory rural appraisals (PRAs) in targeted communities in Wide Bay. FY00-01.

Information gathering through Participatory Rural Appraisals is now successfully completed. Use of PRAs has led to community consensus on land boundaries. This in turn has led to the development of landuse plans and maps as components of the CBRM planning. The landuse maps indicate the locations of

proposed WMA(s), cash crop plantations, gardening, sacred sites, scenic features and hunting sites. CI and ENBSEK will focus during FY01 on building the capacity of the communities to manage these resources by using the landuse plans they have developed for themselves.

Through PRA, related social issues have been identified and prioritized by the communities. Responsible agencies that would be best able to work with the communities to address issues of concern have been identified and their services will be sought in FY01. For example, the communities of Tientop identified "access to clean drinking water" as a major problem in the village. This will be addressed through the establishment of community Associations (Refer to section A1,a). As an established Association, the community will be able to send grant proposals to local and bilateral donors to fund water tanks or water supply systems. ENBSEK, which will conduct all follow-up activities to the PRAs FY01, will pursue community training in the following: proposal writing; legal rights; Conflict Resolution; monitoring and evaluation; and other issues of concern to the community.

FY 2001: Obj2.A.A2	O	N	D	J	F	M	A	M	J	J	A	S
Community capacity building training Workshops, a follow-up to PRA	X	X	X	X	X	X	X	X	X	X	X	X
Conflict Resolution Training	X	X	X	X	X	X						
Legal Rights Workshop	X	X	X	X	X	X						
Training on Monitoring & Evaluation	X	X	X	X	X	X	X	X	X			

Key Staff Involved

1. ENBSEK staff
2. Communities of Wide Bay
3. CI-PNG Country Director
4. CI-PNG Wide Bay Program Manager
5. CI-PNG Field Officer

Resource Requirements

1. Staff time
2. External grant to ENSBEK

FY01 Outputs/Benchmarks for Objective 2. Activities A1-A2

1. Final write-up of RAP Results
2. Community capacity building training workshops
3. CBRM working document
4. Awareness materials
5. Documented report on lessons learned

B) *CI-PNG proposes to continue its work with ENBSEK to help the communities of Wide Bay explore conservation-based enterprise development options that will promote the sustainable use of their forest and coastal ecosystems. This will be accomplished through:*

- *initial community consultations followed by targeted feasibility studies by CI's Asia Pacific Enterprise Manager, Darwin Flores, who is a specialist in small-scale enterprise development at the community level; and*
- *presentation of studies' findings and evaluation of various feasible conservation-based development alternatives by communities, who choose which ones, if any, they would like to pursue further. (FY00-01)*

The consultation and targeted feasibility study were conducted in FY00, and we are currently working on the follow-up activities from the study, especially facilitating training of the community on the following identified potential enterprise development projects: Training in the skills of growing and processing rice will be carried out by OISCA in Rabaul from the 18-22nd September 2000; and training in butterfly farming will occur in October 2000, also conducted by OISCA. There are several other projects planned for training and/or development. These include: training in vanilla farming by a local farmer's organization; promotion of guesthouses and a training center by the Provincial Tourism Office; T-shirt printing; development of a trail networks for eco-tourism by Peter Bosip; and facilitating the improvement of cocoa and copra production in the area by OISCA. As a component of the capacity building initiative, the community will also receive training in different aspects of small business management from OISCA/DPI, so they have varying expertise in the community to sustainably manage the project in the long term.

However, our major issue with regards to achieving successful enterprise development in the community remains the irregular visitation of cargo ships to the Wide Bay area. This lack of dependable access to markets is an issue, which will have a tremendous impact on enterprise development in Wide Bay. Therefore, CI and ENBSEK will address this issue with the maritime industry and government in order to find ways of increasing shipping frequency and dependability in the area.

FY 2001 Obj2 B	O	N	D	J	F	M	A	M	J	J	A	S
Targeted skills training of community on the identified projects	X	X	X	X	X	X	X	X	X	X	X	X
Promotion of guesthouse, training center & Eco-tourism sites	X	X	X	X	X	X	X	X	X	X	X	X
Networking with alliances	X	X	X	X	X	X	X	X	X	X	X	X
Development of eco-tourism sites in the proposed conservation area	X	X	X	X	X	X	X	X	X	X	X	X
Develop trail network in the proposed Conservation area (s)	X	X	X	X	X	X	X	X	X	X	X	X
Negotiations with maritime authorities to facilitate improved shipping in Wide Bay	X	X	X	X	X	X	X	X	X			

Key Staff Involved

1. ENBSEK staff
2. Communities of Wide Bay
3. CI-PNG Wide Bay Program Officer
4. CI-PNG Wide Bay Field Officer
5. ENB Tourism Office
6. OISCA
7. DPI

Resource Requirements

1. Staff time
2. External grant to ENSBEK
3. Consultancy

FY01 Outputs/Benchmarks for Objective 2, Activity B

1. Reports on Community Capacity Building training
2. Regular transport (shipping) system
3. Trail network developed

Objective 3:

Increase the number of viable legal options for biodiversity conservation in Papua New Guinea through policy analyses of Conservation Area legislation and identification of suitable locations for its application.

Activities:

A) *CI will conduct policy and economic analyses leading to the formulation of conditions precedent for likely successful sites for CA implementation. FY01.*

Due to the substantial reduction in funding for the PNG portion of the BiRD Cooperative Agreement, no further USAID funding will be earmarked for this objective. Instead, a reduced amount of match funding from other sources will be used to support Activities A and B. The primary source of funding for the activities under this objective will be CI's Tropical Wilderness Protection Fund. Activity A, comprising policy and economic analyses of conservation in PNG and the combined trip reports of the Resource Economics Program's Senior Director, will be completed this year. The former product, as described in the July 31, 2000 Semi-annual Report, will analyze economic and legal incentives for conservation, potential beneficial changes to PNG's conservation legislation, leverage needed to produce beneficial legislative and policy changes, and an assessment of PNG conservation mechanisms other than the Conservation Areas Act. The combined trip report will describe contacts made during Jim Cannon's travels to PNG and his efforts at data collection for the above analysis.

FY 2001 Obj 3 A	O	N	D	J	F	M	A	M	J	J	A	S
Policy and Economic Analyses completed						X						
Combined Trip Report						X						

Key Staff Involved

1. CI-WA Resource Economics Senior Director (CI-WA RED)
2. CI-WA Senior Director Asia/Pac (CI-WA SDAP)
3. CI-PNG Country Director
4. CI-PNG Program Manager
5. PNG government and NGO representatives

Resource Requirements

1. Staff time (covered by match funding)
2. 1 international flight (covered by match funding)

FY01 Outputs/Benchmarks for Objective 3, Activity A

1. Complete policy and economic analyses.
2. Complete combined trip report.

B) *Research potential sites using existing biological and sociological data, as well as submitted landowner conservation requests to the Office of Environment and Conservation.*

This activity has been severely scaled back due to the reduced funding mentioned under Activity A above. CI-PNG staff are conducting ongoing socio-economic, cultural and biodiversity assessments of two regions of the country: the Owen Stanley Ranges of Central, Oro and Milne Bay Provinces and the marine sector of Milne Bay Province. These reviews may identify sites of particular suitability for implementation of the CA legislation, but it is unlikely that this will be accomplished during FY01 because of funding and staff constraints. In addition, a comprehensive review of landowner requests to the Office of Environment and Conservation has been postponed at this time.

FY 2001 - Obj 3, B	O	N	D	J	F	M	A	M	J	J	A	S
Research continued on potential CA sites	X	X	X	X	X	X	X	X	X	X	X	X

Key Staff Involved

1. CI-WA Resource Economics Senior Director (CI-WA RED)
2. CI-WA Senior Director Asia/Pac (CI-WA SDAP)
3. CI-PNG Country Director
4. CI-PNG Program Manager
5. PNG government and NGO representatives

Resource Requirements

1. Staff time

FY01 Outputs/Benchmarks for Objective 3, Activity B

1. Continue analysis of potential sites.

C) *CI-PNG will consult with DEC, NGOs and local communities about policy analyses and site research results in order to choose the most viable sites for future CA implementation, and increase public awareness about viable legal options for biodiversity conservation in Papua New Guinea. CI-Washington's Conservation Policy and Biology departments will provide technical support to CI-PNG. FY01.*

Given the funding cuts mentioned above, this activity will not be included in this year's workplan.

FY01 Outputs/Benchmarks for Objective 3, Activity C

Objective 4:

Increase CI-PNG's ability to influence conservation policy-making and community-based development planning through building CI-PNG's institutional capacity.

Activities:

The goal of CI-PNG's long-term institutional capacity building is to empower the office to be more strategic, effective, efficient, and responsive in implementing its mission to conserve PNG's biodiversity by promoting community-based resource management. CI-PNG's strategy to address its capacity-building needs, with USAID support, is to augment existing staff expertise and capacity, as well as to recruit additional staff.

A) *Priority new positions include the following: a Program Manager, Finance Manager, and two additional field staff for the Lakekamu Basin. FY99.*

The Program Manager (now called Assistant Program Director), Finance Officer, and one additional field staffer each for the Lakekamu Basin and Wide Bay Projects have all been recruited and hired. Orientation for all but the Assistant Program Director has been completed. The Assistant Program Director plans to travel to both the Lakekamu Basin and Wide Bay this year. Banak Gamui and Maureen Ewai both plan to attend workshops in October 2000. Banak will attend a CI-sponsored Monitoring and Evaluation Workshop in Montana, while Maureen will attend a CI-sponsored Resource Economics Workshop in California.

FY 2001 - Obj 4 A	O	N	D	J	F	M	A	M	J	J	A	S
Orientation/Training/site visits for CI-PNG Program Manager					X				X			
Project and office management training	X											

Key Staff Involved

1. CI-PNG Country Director
2. CI-WA Melanesia Program Manager

Resource Requirements

1. Domestic air travel to CI field sites (Wide Bay, Lakekamu Basin): CI-PNG Assistant Program Director

FY01 Outputs/Benchmarks for Objective 4, Activity A

1. Complete orientation, training, and site visits by Assistant Program Director.

B) CI-PNG will augment existing staff expertise and capacity with technical support from CI-Washington's Conservation Policy, Biology and Enterprise Development departments. FY99-01.

Technical support will be augmented throughout the life of the cooperative agreement by key CI-WA staff as illustrated throughout the activities described in this workplan. Examples of key CI staff include: CI-WA Resource Economics Senior Director, CI-WA Senior Director of Asia/Pacific, CI-WA Melanesia Program Manager, and CI-WA Manager, USAID Global Cooperative Agreement. Examples of activities in PNG to benefit from this technical transfer of expertise include: continued CA analyses in PNG, and financial and program management.

Key Staff Involved

1. CI-PNG staff
2. CI-WA Resource Economics Senior Director
3. CI-WA Senior Director of Asia/Pacific
4. CI-WA Melanesia Program Manager
5. CI-WA Manager, USAID Global Cooperative Agreement

Resource Requirements

1. Salaries and travel.

FY01 Outputs/Benchmarks for Objective 4, Activity B

1. Activities under Objectives 1 through 4 will use technical assistance provided by CI-Washington in order to increase CI-PNG staff expertise and capacity.

C) CI-PNG's field site activities in Wide Bay, will be strongly supported by its local NGO partner ENBSEK. FY99-01.

As noted in previous technical reports and workplans, ENBSEK remains a key partner in CI's efforts to bring meaningful and sustainable conservation to the communities of Wide Bay, East New Britain Province. CI-PNG staff will continue to work closely with ENBSEK staff and their network of extension volunteers on the activities outlined under Objective 2.

Key Staff Involved

1. ENBSEK
2. CI-PNG Country Director
3. CI-WA Melanesia Program Manager
4. CI-PNG Wide Bay Project Manager
5. CI-PNG Wide Bay Project Officer

Resource Requirements

As noted throughout activities listed above.

FY01 Outputs/Benchmarks for Objective 4, Activity C

1. Activities in Wide Bay will be carried out in partnership with ENBSEK, CI-PNG's local NGO partner.