Costa Rica Study Tour
Private Forest Conservation Incentives
August 6-17, 2002

Special thanks to:

Private Forest Conservation
Mechanisms:
- Bio-Prospecting
- Conservation Easements
- Ecotourism
- Certification (coffee and timber)
- Carbon Credits
- Watershed protection (contracts with dams)
- Ecosystem Service Payments

Institutions:
- Government
  FONAFIFO (& MINAE)
- Non-profit
  FUNDECOR
  CODEFOSA
  CCT
  InBio
  CATIE
  OTS (La Selva, Palo Verde)
  Monteverde Institute
  Z-13 Association
- Universities: UNA
- Private: Maderas Preciosas
  Hacienda La Pacifica
Undergraduates
Kirsten Collings
Elizabeth Lee
Mary Beth Plummer
Sally Thorpe
Amanda White
Andrew Whittier

Graduate/PhD Students
Kevin Dawson
Duncan Quinn
Brian Rosenfeld
Jaime Schuler
Anthony Snider
William Shroyer

Faculty/Support
Erin Sills
Subhrendu Pattanayak
Jacek Siry
Fred and Rita Cubbage
Marianela Ramirez

INBioparque

INBioparque

Blue jean Dart Frog
Bio-prospecting at INBio

Lonchocarpus felipei

Director of Centro Internacional de Politica Economica, UNA

“Competitiveness, Systems of Innovation and Learning Economy: Forest Sector in Costa Rica”

Professor Olman Segura-Bonilla

FONAFIFO

Edgar Ortiz

CATIE: Organic coffee farm

Guillermo Obando shows our group around at his family’s farm.
CATIE: REFORCAT

- "Reforest CATIE"
- Six native tree species
- Eucalyptus seed orchard

OET/OTS La Selva

Aug 9

FUNDECOR

- Juan Carlos from FUNDECOR showing us one of their detailed management plans.

CACSA

- Victor Arayla points out some different seedlings in the germination room.
Carbon Sinks

- Dr. David Clark, a prominent researcher based at La Selva, talks to our group about carbon sequestration, land use change, and global climate.

Bird Watching

Aug 10

Volcán Arenal

View from La Catarata Lodge

Aug 11
Arenal–La Fortuna:

- Z-13: La Catarata Ecotourism Lodge and Community Association (ASPROADES)
  - Est. 1991 to help local farmers transition to organic production of medicinal herbs
  - Decrease in membership since inception due to differing opinions
  - Competition and lack of funds for advertising are challenges for the lodge
  - Ecotourism has been good for the local economy, but negative impacts to environment observed

CODEFORSAL

Harness private funding to complement government programs.

81% of properties receiving environmental service payments through CODEFORSAL have <30 ha.

Palo Verde: Tropical Dry Forest

Cleared for ranching, the deciduous forests of Central America are now endangered.

Eugenio Gonzalez,
Director of OTS Station at Palo Verde

Aug 13
Rio Tempisque

Tidal and brackish the Tempisque river winds through Palo Verde National Park

Acacia Plant

Ants live in the hollow thorns of the Acacia. Dual glands at the leaf stem provide sugar.

Laguna Palo Verde

Cattails threaten habitat for migrating birds. Wetland restoration projects are underway with the cooperation of local ranchers

Maderas Preciosas (Precious Wood) Plantation Tour
Bombacopsis quinatum
Pochote, Spiny Cedar

Teak Plantation

Playa Samara
The view at the beach
Aug 15

Eco-Tourism in Monteverde
Anxiously Awaiting Skytrek
Aug 16
Program of Payments for Environmental Services From Forest Ecosystems in Costa Rica.

<table>
<thead>
<tr>
<th>Environmental Service</th>
<th>Biodiversity Protection</th>
<th>Scenic Beauty</th>
<th>Mitigation of GHG</th>
<th>Water quality and flow regularity</th>
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<tbody>
<tr>
<td>Who is receiving the payments?</td>
<td>Private Land Owners</td>
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<tr>
<td>Land Uses</td>
<td>Forest Protection (including natural regeneration)</td>
<td>Reforestation</td>
<td>Natural Forest Management</td>
<td></td>
</tr>
<tr>
<td>Type</td>
<td>Landowners-Government Contracts. Private and Public Funds</td>
<td></td>
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<td></td>
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</table>
**TOTAL AREA AND NUMBER OF CONTRACTS BY MODALITY AND YEAR**

<table>
<thead>
<tr>
<th>Year</th>
<th>Forest Conservation Easements</th>
<th>Sustainable Forest Management</th>
<th>Reforestation</th>
<th>Total</th>
<th>Number of contracts</th>
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</thead>
<tbody>
<tr>
<td>1997</td>
<td>88,829.8</td>
<td>9,324.5</td>
<td>4,629.4</td>
<td>102,783.7</td>
<td>1,531</td>
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<tr>
<td>1998</td>
<td>47,303.8</td>
<td>7,620.4</td>
<td>4,172.5</td>
<td>59,915.7</td>
<td>1,021</td>
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<tr>
<td>1999</td>
<td>55,776.0</td>
<td>5,124.8</td>
<td>3,156.0</td>
<td>64,782.0</td>
<td>925</td>
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<tr>
<td>2000</td>
<td>26,583.2</td>
<td>0</td>
<td>2,456.8</td>
<td>29,040.0</td>
<td>501</td>
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<tr>
<td>2001</td>
<td>20,629.0</td>
<td>3,997.0</td>
<td>3,281.0</td>
<td>27,997.0</td>
<td>483</td>
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<tr>
<td></td>
<td><strong>Total</strong> 239,621.8</td>
<td><strong>26,066.7</strong></td>
<td><strong>17,695.7</strong></td>
<td><strong>283,384.2</strong></td>
<td><strong>4,461</strong></td>
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<tr>
<td></td>
<td>% 84.6%</td>
<td>9.2%</td>
<td>6.2%</td>
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</tbody>
</table>

Total forest area 2 million Ha

**FINANCING FROM NATIONAL BUDGET** (in Millions of colones)

<table>
<thead>
<tr>
<th>Year</th>
<th>Assigned Budget</th>
<th>TOTAL</th>
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<tbody>
<tr>
<td></td>
<td>CAF</td>
<td>PESP</td>
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<tr>
<td>1997</td>
<td>1,789.0</td>
<td>0.0</td>
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<tr>
<td>1998</td>
<td>2,381.0</td>
<td>1,269.0</td>
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<tr>
<td>1999</td>
<td>1,590.0</td>
<td>2,406.0</td>
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<tr>
<td>2000</td>
<td>1,373.3</td>
<td>2,098.3</td>
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<tr>
<td>2001</td>
<td>1,251.0</td>
<td>2,345.2</td>
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<td>2002</td>
<td>1,243.0</td>
<td>3,066.9</td>
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<tr>
<td>TOTAL</td>
<td>9,627.3</td>
<td>11,185.4</td>
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$1 US = 360 colones

**SOURCES OF FUNDING VOLUNTARY AGREEMENTS**

<table>
<thead>
<tr>
<th>Firm</th>
<th>Watershed</th>
<th>Watered Area</th>
<th>Contract Area</th>
<th>Amount (US$)</th>
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<tbody>
<tr>
<td>Energía Global</td>
<td>Río Volcán</td>
<td>5,870</td>
<td>4,311</td>
<td>53,340</td>
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<tr>
<td>Hidroeléctrica Platanar*</td>
<td>Río Platanar</td>
<td>3,129</td>
<td>-</td>
<td>-</td>
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<tr>
<td>Compañía Nacional de Fuerza y Luz</td>
<td>Río Aranjuez</td>
<td>9,355</td>
<td>3,000</td>
<td>5,188,400</td>
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<tr>
<td>Florida Ice &amp; Farm</td>
<td>Río Segundo</td>
<td>3,870</td>
<td>1,000</td>
<td>272,727</td>
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<tr>
<td>TOTAL</td>
<td></td>
<td>12,549</td>
<td>16,311</td>
<td>5,514,467</td>
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<tr>
<td>GEF</td>
<td>MBC</td>
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<td>5,000,000</td>
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<tr>
<td>KFW*</td>
<td>ZONA HUETAR NORTE</td>
<td></td>
<td></td>
<td>10,000,000</td>
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