Joint FLUP Implementation – Enforcement and Strengthening Property Rights

DENR ARRM/CENRO-1 C established in Wao and Wao created of MENRO and MENRC on July 2003
With Illegal logging and kaingin in 1998-2002, Wao lost 2,000 ha of forest at a rate of 500 ha/year.

Loss of forest resulted in long dry spells causing water shortages during summer, and flash floods during rainy season.

Joint Implementation focused on the threats to the remaining natural forests.
Implementation Addressed Other Issues and Threats

- Fragmented approach in forest management
- Lack of participation of stakeholders
- Weak Property Rights in uplands
- No on-site protection and management of the forests
- Transactions on the land and resource use in forest use lacked transparency and accountability with non-involvement of the Wao municipality
Consultations and Information Dissemination with upland communities on FLUP Implementation

- Info dissemination
- Community mapping
- Community consultations
- Site validation
Intensified Joint Forest Law Enforcement
Stopped illegal cutting and reduced *kaingin* to almost zero rate per annum

<table>
<thead>
<tr>
<th>Date of apprehensions</th>
<th>2008</th>
<th>2009</th>
<th>2010</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. May 19</td>
<td>2.22 cu.m</td>
<td>1. January 6</td>
<td>2.52 cu.m</td>
</tr>
<tr>
<td>2. June 24</td>
<td>1.26 cu.m</td>
<td>2. January 15</td>
<td>0.22 cu.m</td>
</tr>
<tr>
<td>3. October</td>
<td>0.38 cu.m</td>
<td>3. March 7</td>
<td>0.28 cu.m</td>
</tr>
<tr>
<td>4. November 1</td>
<td>0.94 cu.m</td>
<td>4. April 24</td>
<td>2.89 cu.m</td>
</tr>
<tr>
<td>5. November 2</td>
<td>0.11 cu.m</td>
<td>5. February 5</td>
<td>1.48 cu.m</td>
</tr>
<tr>
<td>6. November 19</td>
<td>0.36 cu.m</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7. December 2</td>
<td>2.22 cu.m</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note:
- Data are apprehension made in Wao but sources of lumber are from other municipalities/ outside the municipality of Wao.
- Source of data: documentation report of the MENR Office
DENR/ARRM and Wao Signed a Co-management agreement to strengthen property rights

- Total area: 2,184 ha
- With 329 HH settlers
- Source of Wao Water District
- Water source of Wao Development Corporation
- Headwaters

The FLUP implementation with the DENR-Wao co-management agreement, Wao took the lead role in forest management
Issuance of 153 sub-agreements to upland settlers in the co-managed area covering 280 hectares – still continuing
Wao launched efforts to restore its degraded forestlands with upland dwellers
Set Up a Municipal Nursery
Before…  Agroforestry  Now
Diversified Short and Long-Term HH Household Incomes of Farmers

<table>
<thead>
<tr>
<th>Crops</th>
<th>Corn</th>
<th>Rubber</th>
<th>Coffee</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yearly Income (per hectare)</td>
<td>Php4,200</td>
<td>Php135,000 (@ Php 45/kl)</td>
<td>Php96,000 (@Php 80/kl)</td>
</tr>
</tbody>
</table>
Soil & Water Conservation and Agroforestry with Farmers
Carbon Management Benefits

- Not emitting more than 8,500 tons of carbon by not losing an average of 40 ha/yr tons
- Sequestering 45 tons carbon every year from 100 hectares of matured plantations