

Contributions of Community-Based Resource
Management Project as Strategy for Upland
Community Development and Forest
Restoration in Usmad, Argao, Cebu,
Philippines



## Introduction

- (LOI 1260) "Integrated Social Forestry Program" - 1982
- "CBFM Law"-1995
   (E.O. No. 263)
- "Community Empowerment"



Fig. 1. Panoramic view of study site.

## What are the Impacts of CBRM Project

- household income
- level of awareness on the importance of FR
- level of participation in various PA
- condition of the forest and other NR
- problems encountered



Fig. 2. PO representatives.

## **Study Site**

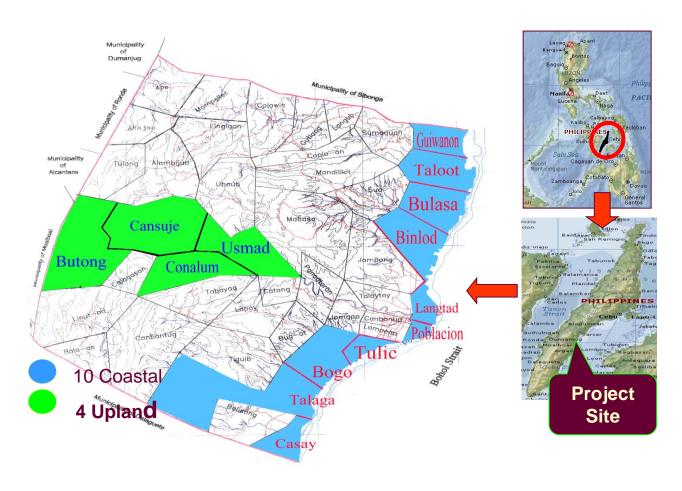


Figure 3. Distribution of the CBRM project sites in Argao.

## **Data Collection Methods/Analysis**

## Primary Data Collection

- KI interview
- household
- in situ/actual observation

### Secondary Data Collection

- sourced out from GO & NGO
- published articles

### **Data Analysis**

- mean, FD, %tages, ttest & CT
- SPSS: V-12

Respondents: Project beneficiaries & Implementers

## Data Gathered

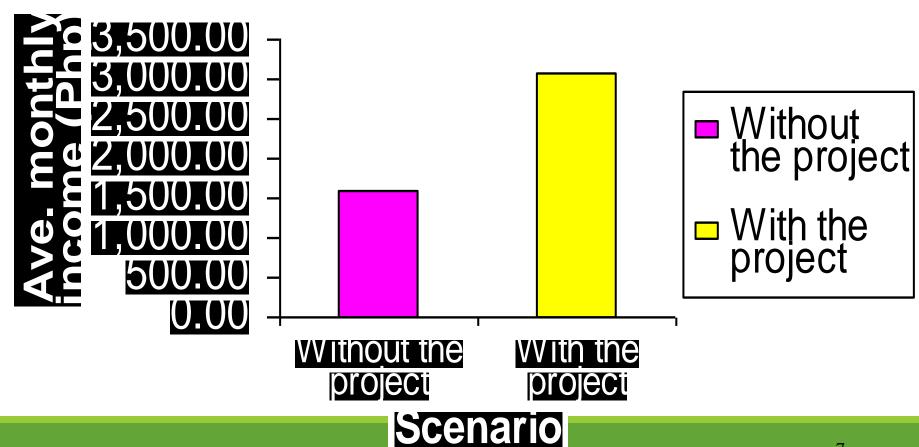
Forest/	Community Empowerment			Levels of
other resources	Economic	Political	Social Intel.	Community Participation
<ul> <li>type of SP</li> </ul>	• HI	KP in DMP	POI received by PO	RP in PI
<ul><li>SR (%)</li><li>TA (reforested)</li></ul>	<ul><li>types of BR</li><li>mode of dist.</li></ul>	TN. of BR in the process	<ul> <li>methods of giving information</li> </ul>	<ul> <li>Frequency of their participation</li> </ul>
<ul><li>dia./ht. of planted fruit &amp; TR</li></ul>	<ul> <li>LOT they enjoy the benefits</li> </ul>	<ul><li>final DM</li><li>selection of players in DMP</li></ul>	<ul> <li>how they performed these roles</li> </ul>	<ul> <li>how they performed their roles in mgt. &amp; restoration FR</li> </ul>
• EF	<ul> <li>effects on their TI</li> </ul>			<ul> <li>CE &amp; SR of planted fruit &amp; F-TS</li> </ul>

## **FINDINGS**

### **A. Community Empowerment**

### A.1 Economic empowerment

 Respondents were moderately empowered economically by the project w/ a rating of 42%





## **A.2 Political Empowerment**

 Respondents were involved in almost all phases of the project

Attended meetings

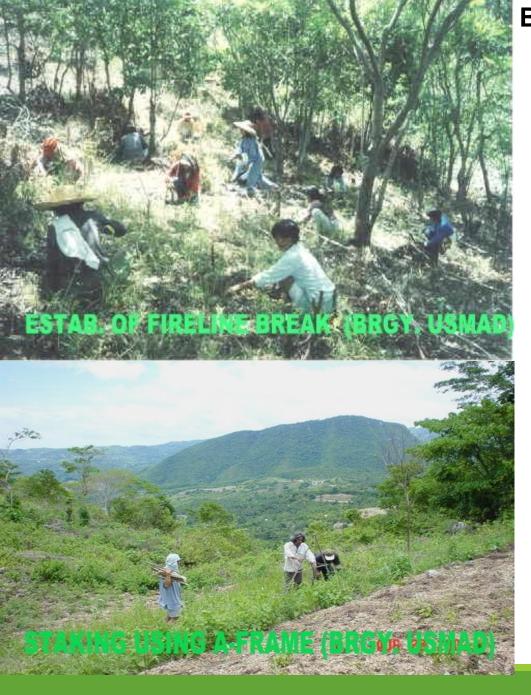
 Highly empowered politically w/ a of 78% rating



## A.3 Social & Intellectual Empowerment



- Respondents showed a moderate rating (57%)
- Their intellect & sociability are moderately empowered by the project



## B.COMMUNITY PARTICIPATION IN PROJECT ACTIVITIES

### **Tree plantation:**

firebreak establishment

## **Agroforestry:**

contour line establishment

## Corr. test b/ween level of participation & CE:

	Level of Participation	
	R2-value	<i>p</i> -value
Economic	0.207	0.272
Political	0.576	0.001**
Social and Intellectual	0.367	0.046*
Community Empowerment	0.544	0.002**



# C. STATUS OF FOREST RESOURCES

- 99% or 11.88 ha -TP
- 65.96% survival rate



- 69.88% or 23.8 ha AF
- 68.3% Jackfruit SR
- 28.% Mango SR



# Mahogany Tree Plantation

October 13, 2016

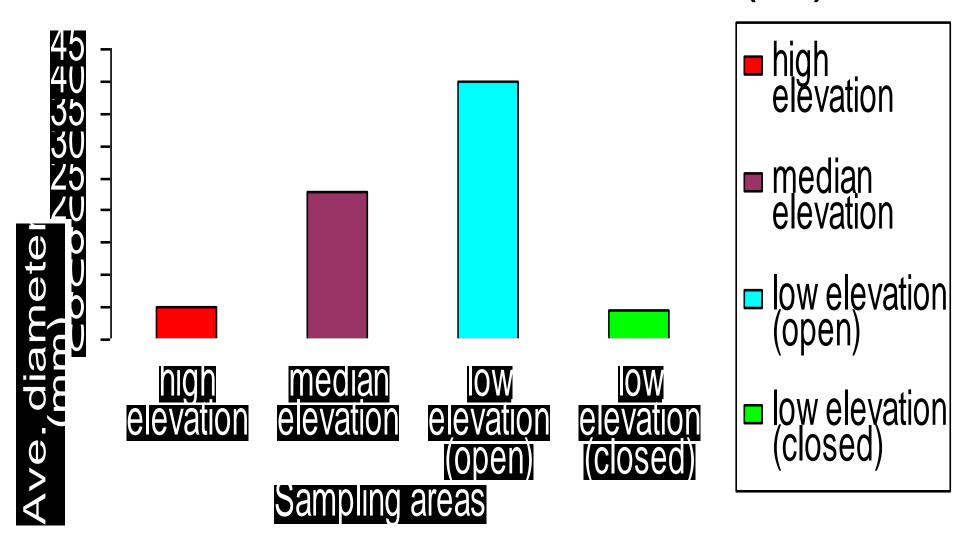


Agroforestry Farm – 10 years after



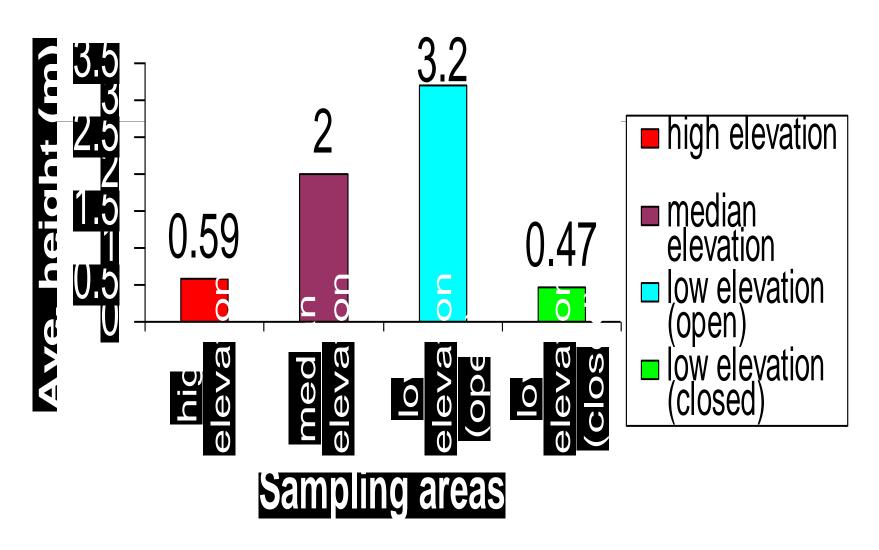
## CBRMP-Cow Dispersal 10 yrs. After (2016)

### **Growth Performance in terms of diameter (mm)**



Average diameter of seedlings in sampling areas

## **Growth Performance in terms of height (m)**



Average height of seedlings in sampling areas



### D. PROBLEMS/POTENTIAL SOLUTIONS

### **D.1 Community Organizing**

✓ very poor participation – very serious

#### **Solution:**

✓ continuous follow up & motivation - effective

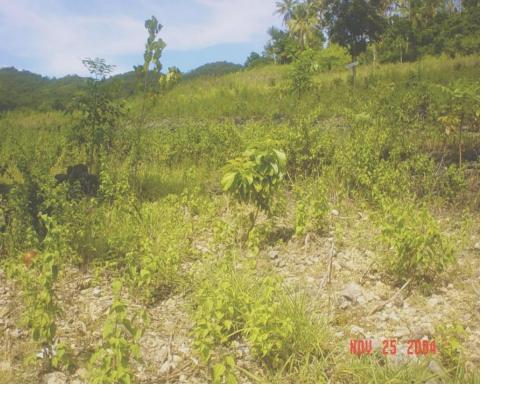


- √ lack of water supply very serious
- ✓ lack of capital serious

#### **Solution:**

- √ timing of planting & the use of droughtresistant species
- ✓ establish cooperative and linkages





### **D.3 Tree Plantation Establishment**

- √ water scarcity and poor soil fertility
- ✓ some farmers do not agree tree plantation

#### **Solution:**

- √ use of drought-resistant species
- ✓ proper IEC

#### **D.4 Land Tenure**

- √boundary conflict
- ✓ landlord hesitation to convert their land into CBRM site

#### Solution:

✓intensify IEC



## **D.5 Resource Protection and Conservation**

### **Problem:**

- ✓ view on forest resources as open access
- ✓ mortgaging of CSC
- ✓ unregulated cutting of trees

### **Solution:**

- ✓intensify forest protection campaign
- ✓ deputize community members as forest protection officer



## **Conclusions**

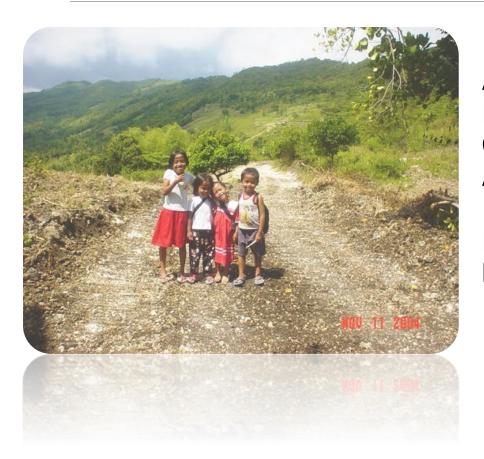
- respondents moderately empowered economically, socially & intellectually but highly empowered politically
- monthly income of respondents increased
- respondents were involved in decision-making and planning
- political & socio-intellectual empowerment are two crucial factors that encourage CP in the study site

## **Conclusions**

- growth performance is dependent on environmental factors;
- respondents believed that tree plantation & agroforestry farm can reduce soil erosion;
- limited supply of water & poor soil quality very serious problems in TP and AF.

## Recommendations

- establish financial facility & linkages
- intensify technical & CB trainings
- intensify IEC on the benefits of CBRM
- similar studies be conducted
- evaluation of other PI



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