Fitting Regression Models for Sustainable Management of Non-Timber Forest Products in Government Forests and Private Lands: A Case Study from Mid-Western Region of Nepal

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Map of Study Districts

Distribution Map of Selected NTFPs
Objective of the study and Study area characteristics

Main objective
To investigate the influencing factors for the management of Non-Timber Forest Products in government and private forest lands

Basic characteristics
- Hills and mountains
- Sub-tropical to sub-temperate cold climate
- Poverty stricken area, where Maoist insurgency movement started
- Almost half of the forests are managed by communities as community forests
Methods or tools used for data collection

1. Focus Group Discussion

2. Household & KI interview

3. CFUG office visit

4. Office record & GIS mapping
- More than 700 MAPs are found in Nepal, but many of them are threatened due to over harvest.

- Upper zone: above 1500 m

*Nardostachys grandiflora*  *Taxus baccata* (Lauth Salla)  *Swertia chirayita*
Lower elevation below (1500 M)

*Emblica officinalis*

*Zanthoxylum armatum*

*Asparagus recemosus*
### Distribution Pattern of Selected NTFPs by Source of Production

<table>
<thead>
<tr>
<th>Priority NTFPs</th>
<th>NTFP distribution</th>
<th></th>
<th></th>
<th>Private land</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Government forest</td>
<td>Community forest</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1. Pine</td>
<td>46</td>
<td>54</td>
<td></td>
<td>-</td>
</tr>
<tr>
<td>2. Soap nut</td>
<td>-</td>
<td>-</td>
<td>100</td>
<td></td>
</tr>
<tr>
<td>3. Prickly ash</td>
<td>10</td>
<td>40</td>
<td></td>
<td>50</td>
</tr>
<tr>
<td>4. Bay Leaf</td>
<td>-</td>
<td>40</td>
<td></td>
<td>60</td>
</tr>
<tr>
<td>5. Kaulo bark</td>
<td>40</td>
<td>60</td>
<td></td>
<td>-</td>
</tr>
<tr>
<td>6. Sugandha Kokila</td>
<td>40</td>
<td>60</td>
<td></td>
<td>-</td>
</tr>
<tr>
<td>Average</td>
<td>23</td>
<td>42</td>
<td></td>
<td>35</td>
</tr>
</tbody>
</table>
Influencing Factors

Private land NTFP management
- Complicated NTFP registration
- Labor force involved in marginal land NTFP cultivation
- Training on forest management
- Market uncertainty

Government Forest management
- Open access
- Training on forest management
- Affiliation to CBOs/CFUGs
- Distance from forests
- Ban on collection and export of some NTFPs in raw form
Recommendations

- Mass awareness and training on policy and legal issues (Private NTFPs, royalty etc)

- Provide incentives for private land forest or NTFP growing.

- Increase hand over of government forest to land-less people for management and use as leasehold forest within Community forest

- Promote pro-poor focus group marketing (a pro-poor focus model is presented below)
Forest resources

Private sector

Market

Forest based enterprise

Employment

Poor collectors

Bonus

Share dividend

Poor get Benefits in Four ways

Forest User Group Fund

Membership
Thank You
2010 has passed by:
Now we are facing 2011
There may be risks involved
We may need to face roadblocks
So stay alert
Share time with friends
Jump over obstacles
with care
and caution
no dawdling
Face challenges
Remember to laugh
Cooperate
Make new friends
Above all ... be ready for adventure
Stick together
And you will be able to go far
Very far…
Well, not quite that far ...
Always take time to smell the flowers
Dont; forget to enjoy and relax
And never forget to love those dearest to you
A VERY HAPPY & PROSPEROUS NEW YEAR-2011
TO YOU AND YOUR FAMILY

With Love and Prayers