

NFI experiences in Philippines


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Promoting and Strengthening
Multi-purpose National Forest Inventory System
In the Asia Pacific region in connection with climate change

A Status of NFI policy
to mitigate climate change

NFI experiences in Philippines

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1. Current Situation of Deforestation and Degradation

- **Change of Forest Area (1,000ha)**
– 1990: 6,570 2000: 7,117 2008: 7,555
- ※ **Main causes of Change**
 1. Forest expansion through the implementation of the Industrial Forest Plantation Management Program (IFMP) of the government
 2. increasing participation of private land owners in plantation development.


<Change of Designated functions of Forest (1,000ha)>

year	1990	2000	2008
– Production	4,538	5,627	5,767
– Protection	526	569	604
– Conservation	1,108	1,153	1,184
– Social services	0	0	0




1. Current Situation of Deforestation and Degradation

- **Change of Growing Stock (m³/ha)**
– 1990: 188.0 2000: 177.4 2008: 168.9
- ※ **Main cause of Change**
Increase in forest area but decreasing quality of growing stock from plantation species
- **Change of Carbon Stock (million tons)**
– 1990: 744.2 2000: 760.3 2008: 768.3
- ※ **Main cause of Change**
Increase in forest area



2. Strategy to reduce Deforestation and Degradation

- **Strengthening Forest Policies**
 - **Establishment of long-term Planning**
 - ex: 25-Year Master Plan for Forestry Development (1990)
 - ex: Revised Master Plan for Forestry Development (2003)
 - **Enactment of Forest Laws**
 - ex: Presidential Decree No. 705 - The Revised Forestry Code of the Philippines as amended (1975)
 - ex: Executive Order No. 318 – Promoting Sustainable Forest Management in the Philippines (2004)



2. Strategy to reduce Deforestation and Degradation

- **Enforcement of Forest Administration Organization**
 - **Central government**
 - ex: Department of Environment and Natural Resources (DENR) thru the Forest Management Bureau (FMB)
 - ex: Department of Interior and Local Government
 - **Local government**
 - ex: RENRO/PENRO/CENRO
 - ex: Municipal/City ENRO



2. Strategy to reduce Deforestation and Degradation

- **Increasing of Forest Budget (million\$)**
 - **Central government (FMB, PAWB, ERDB)**

1990:	2000:	2008:
8.52	14.47	19.75
 - **Local government (DENR Field Offices)**

1990:	2000:	2008:
45.58	51.42	75.97



3. Brief on National Forest Inventory

- Brief history of Forest Inventory
 - 1st Inventory
 - Institution: Bureau of Forestry
 - Inventory Year: 1965-1969
 - Budget (national: \$, international: \$)
 - 2nd Inventory
 - Institution: Bureau of Forest Development
 - Inventory Year: 1979-1988
 - Budget (national: \$1.12M \$, international: US\$0.53 \$)
 - 3rd Inventory
 - Institution: DENR-Forest Management Bureau
 - Inventory Year: 2002-2004
 - Budget (national: \$10,000 \$, international: 194,000 \$)



3. Brief on National Forest Inventory

- 4th Inventory
 - Institution:
 - Inventory Year:
 - Budget (national: \$, international: \$)
- 5th Inventory
 - Institution:
 - Inventory Year:
 - Budget (national: \$, international: \$)
- 6th Inventory
 - Institution:
 - Inventory Year:
 - Budget (national: \$, international: \$)
- 7th Inventory
- 8th Inventory



3. Brief on National Forest Inventory

- Latest National Forest Inventory Design
 - Remote Sensing
 - Introduced year: 2002
 - Type of satellite data: Landsat ETM
 - Field Inventory
 - Sample intensity: approx. 27 km x 27 km
 - Interval of inventory: 15 years
 - Sample size: square (1000 m x 1000 m) or circle (radius_m)
 - Number of sample: visited 353 tracts (out of 395 tracts)



3. Brief on National Forest Inventory

- Implementation System of NFI in government
 - Administration
 - Organization: Forest Management Bureau (FMB)
National Mapping and Resource Information Authority (NAMRIA)
 - Staffs: number Budget (2009): \$
 - FMB: 244 US\$ 2.18M
 - NAMRIA: 820 US\$ 22.03M
 - Research
 - Organization: Ecosystems Research and Development Bureau (ERDB)
 - Staffs: number Budget (2009): \$
 - ERDB: 311 US\$ 0.61M
 - Collaboration with policy-making system
 - Inside Forestry agency:
 - etc.
 - Relating to national development plan:
 - etc. One of the general objectives of the Revised MPFD is "to enhance and improve decision-making processes through adoption of improved MIS, a fully relevant MSE, continuing FRA, forest resource accounting, CSI and forest certification, etc."



4. Suggestions for promoting and strengthening NFI System

- <Consideration Points>
 - Forest Policies
 - Administration Organization
 - Human Resources
 - administration
 - research
 - Financial Resources etc.
 - national
 - international



Thank you!

