

GOVERNMENT OF THE UNION OF MYANMAR MINISTRY OF FORESTRY

FOREST DEPARTMENT FOREST RESEARCH INSTITUTE YEZIN. NAY PYI TAW. MYANMAR



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A Brief Account of Forest Research Institute, Myanma

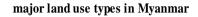
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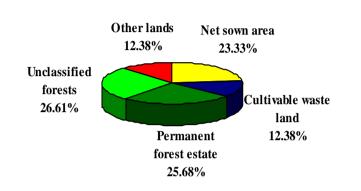
Introduction

Area	- 676577 km2
Boundaries	- China, Laos, Thailand,
	Bangladesh and India
Climate	- 3 seasons (summer, rainy and
	winter)
Temperature	- 0° C to over 40° C
Rainfall	- < 1,000 mm to >5,000mm
Population	- 53 million (2006)
Population growth	1
rate	- 1.3 %
Rural population	- 69.4%
Religion	- Buddhism (80%), Hindu,
	Christian, Muslim and others

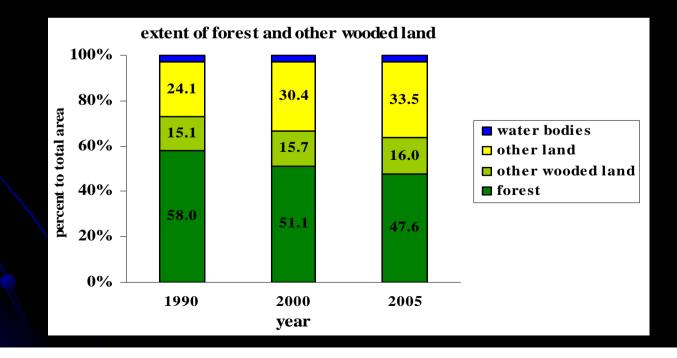


Land Use

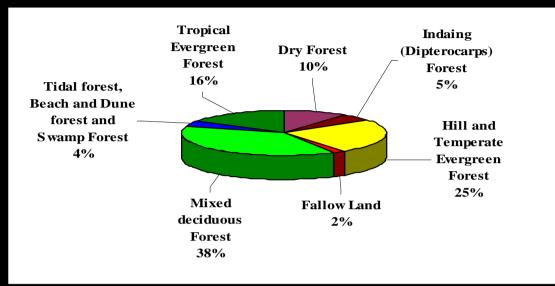




The comparison of forest cover during 1990 and 2005



Status of Major Forest Types



The plant genetic resources of Myanmar

Categories	No. of species
Plants	11800
Bamboo	96
Rattan	50
Shrubs	1696
Orchids	841

Myanmar Forest Policy (1995)

Six imperatives :

(1) **Protection** of soil, water, wildlife, biodiversity and the entire environment;

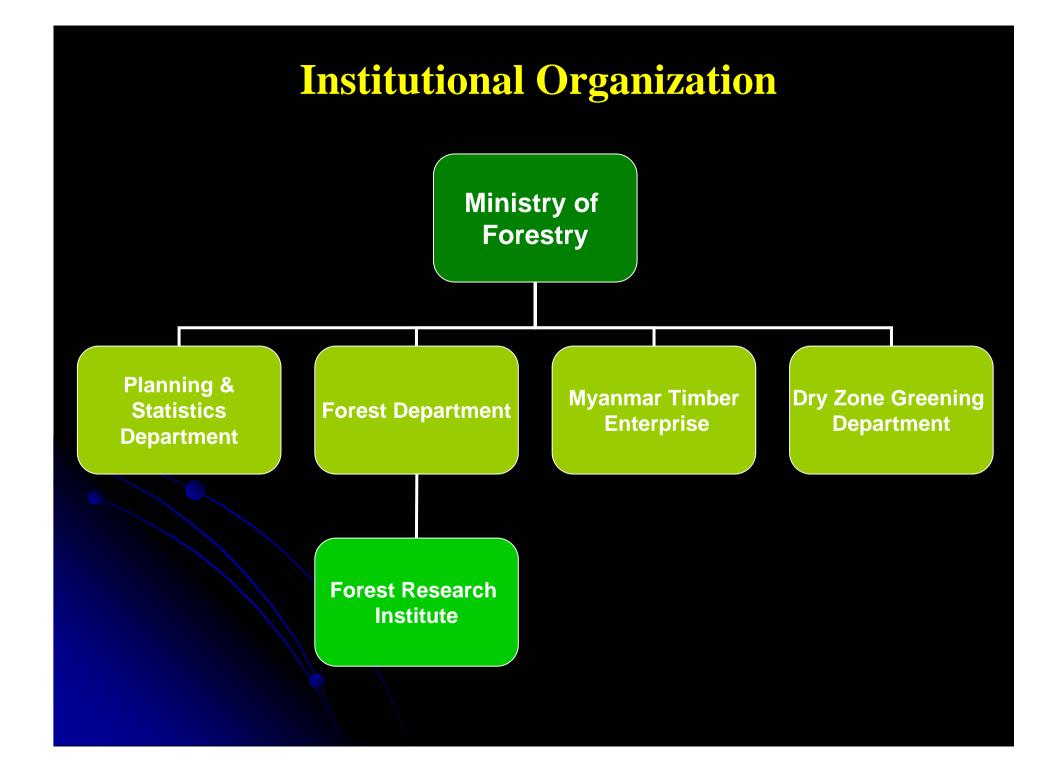
(2) **Sustainability** of forest resources to ensure perpetual supply of both tangible and intangible benefits accrued from the forests for the present and future generations;

(3) **Basic Needs** of the people for fuel, shelter, food and recreation;

(4) Efficiency to harness, in the socio-environmentally friendly manner, the full economic potential of the forest resources;

(5) **Participation** of the people in the conservation and utilization of forests; and

(6) **Public awareness** about the vital role of forests in the wellbeing and socio-economic development of the nation.

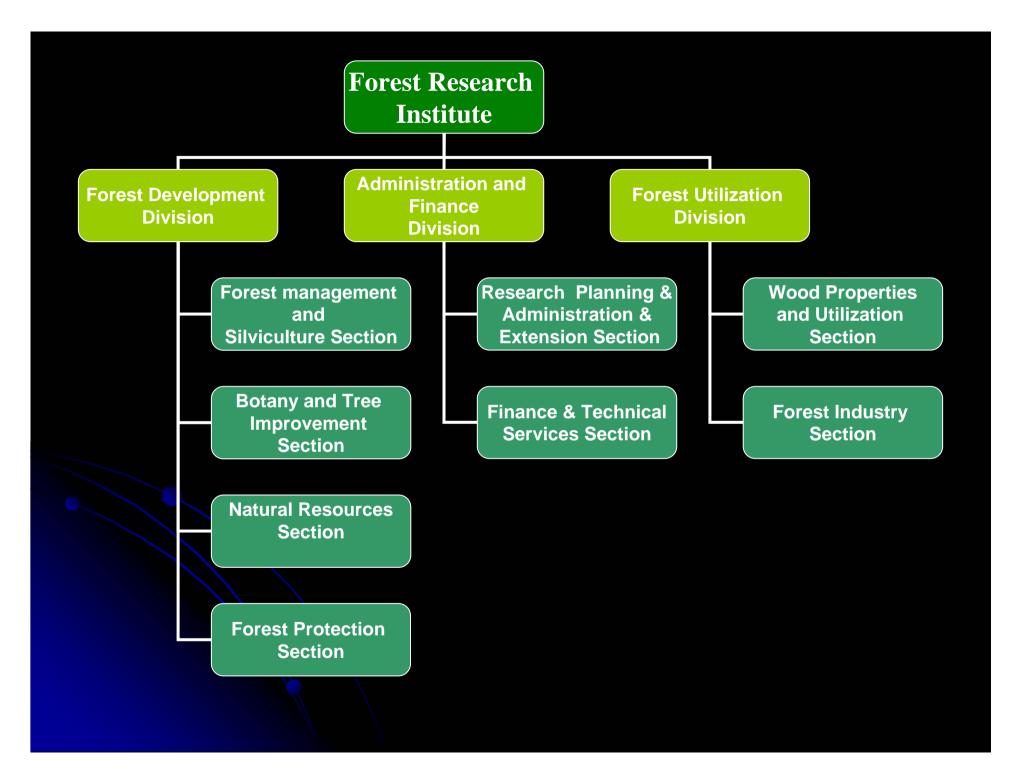


A Brief History of Forest Research Institute

- **1914:** Appointment of a Research Officer.
- **1922:** A Research Division was established under the Utilization Circle, Forest Department.
- **1952:** Forest Research and Training Circle was formed.
- **1963:** A sub committee for the development of Forest Research Institute was formed which resulted in the initial planning for

the establishment of the Forest Research Institute at Yezin.

- **1978-1983:** Forest Research Institute Project Phase I
- **1983-1987:** Forest Research Institute Project Phase II
- **1988- to date:** A branch of Forest Department



Activities of Research Sections Forest Development Division

1. Forest Management & Silviculture Section

- Silvicultural analysis of natural forests
- Restoration of degraded forests
- Effective planting techniques for teak and multipurpose species
- Seed technology, germination and nursery practice



Data collection in natural forest



Spacing Trial for Teak

Activities of Research Sections

Forest Development Division

2. Forest Botany & Tree Improvement Section

- Tree improvement & genetic conservation of teak and other commercially important tree species
- Propagation of bamboos
- Collection, identification, determination, deposition and retrieval of herbarium materials covering indigenous & exotic species



Vegetative Propagation



Herbarium

Activities of Research Sections **Forest Development Division** 3. Natural Resources Section

- Watershed management & soil conservation
- Ecological studies on exotic and indigenous species
- Physical and chemical composition of soil
- Effect of various fertilizers on tree growth
- Analysis of physical and chemical properties of forest soils from various parts of Myanmar



Activities of Research Sections **Forest Development Division** 4. Forest Protection Section

- Forest Entomology, Forest Pathology and Forest Fire
- Protection of forests & plantations against pests, insects and other diseases
- Impact of forest fire





Collection of Samples For Disease Diagnosis

Activities of Research Sections Forest Utilization Division

5. Wood Properties and Utilization Section

- Physical & mechanical properties of wood
- Anatomical properties of wood
- Properties and sustainable utilization prospects of non-timber forest products with special emphasis on bamboo, rattan and medicinal plants



Computerized Universal Timber Testing Machine

Activities of Research Sections Forest Utilization Division

6. Forest Industry Section

- Wood Drying and preservation
- Wood Chemistry and wood-based panels
- Improved utilization of bio-gas and by-products of different raw materials
- Development of efficient stoves



Air Drying Test



Kiln Schedule Development

Activities of Research Sections

Administration & Finance Division

7. Research Planning & Extension Section

- Research Planning
- Library
- Dissemination of research findings
- Research on community forestry & Agro-forestry



Library

Activities of Research Sections

Administration & Finance Division

8. Finance & Technical Services Section

Financial and Technical Support to the institute
Logistics Support to researchers and research

projects

Highlights

of International Cooperation in the past

Sr.	Project	Cooperation with
1.	Introducing Myanmar Lesser Used Timber Species to World Market	ITTO
2.	Neem Network Research	FAO
3.	Revision of the Checklist on "Trees, Shrubs, Herbs and Climbers of Myanmar"	Smithsonian Institution
4.	Bamboo Research	IPGRI
5.	Assessment of plant biodiversity on species concepts of the Alungdaw Kathapa National Park - Myanmar	ASEAN-Korea Environmental Cooperation Unit

Highlights

of International Cooperation in the past

Sr.	Activity	Cooperation with
6.	Research on Restoration of Degraded forest eco-systems with emphasis on enrichment planting technique, soil conservation and pest management	ASEAN-Korea Environmental Cooperation Unit
7.	Promoting sustainability of Bamboo through Community Participation in Sustainable Forest Management PD 146/02 Rev. 1(I)	ITTO
8.	Strengthening Capacity & Upgrading the Forest Research Institute TCP/MYA/3003 (A)	FAO

On-going Cooperation Projects

- Ex-situ and In-situ Conservation of Teak (Tectona grandis L. F.) to Support Sustainable Forest Management
- ITTO Project PD 270/04 Rev. 2 (F)
- Project Area: Shwebo, Yamethin, Pyay, Yangon (north), Hinthada and Gangaw Districts.
- Funding : US\$ 474,941.00 from ITTO
 - MMK 9,270,800.00 from Myanmar Govt.
- Period : 2006 to 2008

On-going Cooperation Projects

- Market Development of Bamboo and Rattan
 Products with Potential
- Project Area : Forest Research Institute, Yezin
- Funding
- : US\$ 45, 000.00 from International Network for Bamboo and Rattan (INBAR) & Common Fund for Commodities (CFC)
 - : MMK 60,000.00 from Myanmar Govt.

Period

: May 2005 to May 2008

Membership in International Organizations

- Asia-Pacific Association of Forestry Research
 Institutions (APAFRI) (2004)
- International Union of Forest Research
 Organization (IUFRO) (2007)

Current Efforts towards Improvement of Research Activities

- Re-direction of Research Priorities
- Human Resource Development
- Strengthening Lab Facilities
- Enhancing Efficiency of Supporting Field Staff

Important Sectors to be strengthened

- Scientific Capabilities of Researchers
- Access to Information and Upgrading Research Library
- Upgrading and Proper Handling of Research
 Facilities and Equipments
 - Further Collaboration with International Research Societies and Networks

