



# The Forest Service and Bogs

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Forest Service

# Origin

- Natural Forests
- Old Estates
- Remnants of older forests
- Small private plantings - Tenant Planting
- Hedgerow trees
- Natural old woodland



# Regulation

- 1700s Series of Acts  
Tenant tree planting
- 1946 Act  
Government support  
Division of Estates
- Forestry Div “Dept of Lands”
- 1988 Act - Establishment of Coillte



# Tree types

- Late 1700s – Early 1800s BL:Con 7:3
- Shift around 1820
- 1840 Con:BL 6:4
- 1850 Con:BL 4:1

Larch, Scots Pine, Norway Spruce

Specialisation/Demands



# Area

- 1791 143,000 acres
- 1841 500,000 acres
- 1900 2%
- 1960 3%
- 1990 6%
- 2008 10%



# Emphasis since mid 60s

- Increase area planted
- Social forestry
- Cost effective methods
- Nutritional requirements
- Tree provenence
- Volume production



# Methods of establishment

- Drainage - Deep ploughing
- Ripping - Hydraulic mounding –excavator
- Fertiliser application
- No Buffering or silt control measures
- Plant to the stream



# Potential pressures

## Suspended solids

1. Ground surface disturbance
2. Ground preparation
3. Drainage
4. Roads
5. Harvesting





# Potential pressures

## Nutrients

1. Fertiliser
2. Weathering of parent material
3. Decay of plant material
4. Scrubbing of the air
5. Deposition



# Mitigation

- Buffer zones
- Silt control traps
- Cut off drains
- Contour drainage – reduced drainage
- Cultivation type
- Unessecary ground disturbances



# Mitigation

- Brash mats
- Low ground pressure machines
- Weather conditions
- Fert application- none – split
- Species selection
- Guidelines

# Demands

- Timber for industry & for energy
- Carbon Sequestration & Climate change
- Social needs & Biodiversity
- Profit ??????
- “Sustained yield”
- Change in demands in future.

# Helsinki Process 1990

1. Forest resource - Global Carbon Cycle
2. Forest ecosystem
3. Productive functions - wood – energy
4. Biological diversity
5. Protective functions - soil – water
6. Socio-economic functions & conditions

# Sustainable Forest Management [SFM]

- Code of Best Forest Management
- Guidelines
- Schemes Manual
- National Standard
- International Agreements
- European Dirs
- National Legislation



# Forest management of the future

- Suite of measures - Select most suitable
- Agreement - Implementation
- No simple fix
- Must protect objectives of each pillar
- Must meet demands of future generations



## Potential future problems

- Lack of ground veg regrowth
- Change in species – seed source/enrichment
- Invasive species
- Water table issues on site
- Water flow issues with adjoining land owners





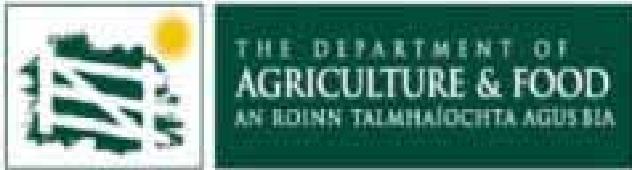
# Future

- Monitor developments
- Assess rates of change
- Adapt management procedures to meet objectives if necessary
- Reevaluate the situation



# Raised Bog Life Project

- Demonstrates interdependance of stakeholders and environ concerns
- Complements SFM
- Comliance with Dirs
- Forest Service supports the Project



Thank You

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