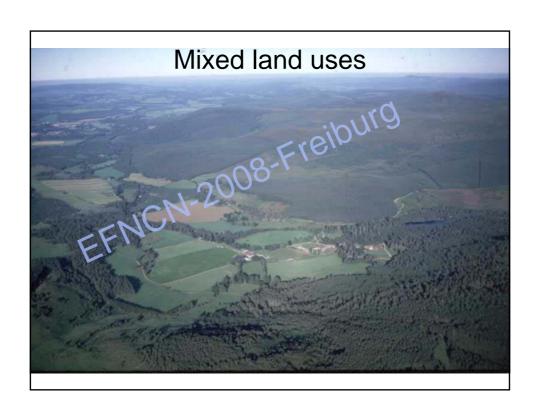
Symposium on Fire Management in Cultural and Natural Landscapes, Nature Conservation and Forestry in Temperate-Boreal Eurasia Freiburg, Germany, 25-27 January 2008

#### Developments in Prescribed and Wildfire Management in UK

Michael Bruce 25 January 2008

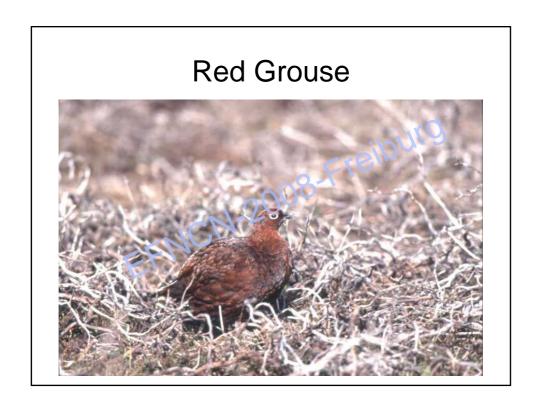
#### Introduction

- Land use issues:
- JCN-2008-Freiburg • Prescribed burning:
- Research:
- Training:
- Multi-stakeholder Wildfire Groups:









### Red Deer



# Normally no fire in the forest



- Fear of damage to trees.
  - Lack of knowledge of fire behaviour and fire effects

# A gap between the hill and the forest



# Burning – different objectives



- Left for forest regeneration (conservation)
- Right for hunting land use
- Real difference?

# Burning to make better Capercaillie habitat

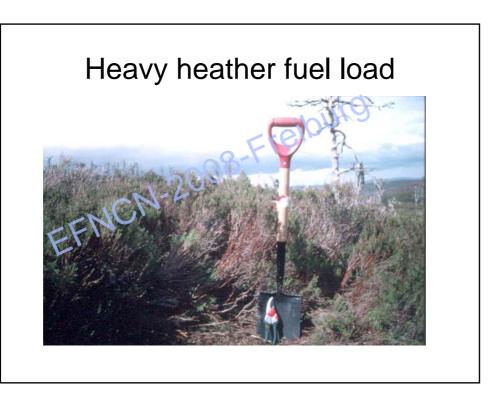




# Good & bad burning

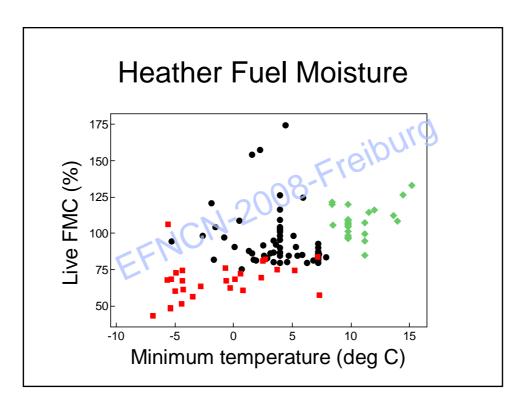


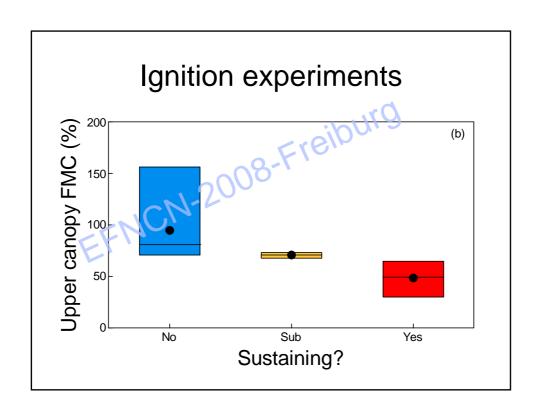
- Muirburn Code (Best Practise Guide)
- New regulations
- Conservation designations

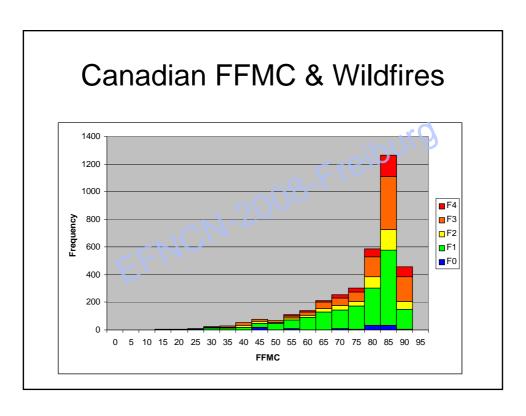












### Carbon budgets & water quality



- Debate about impact of prescribed burning on carbon budgets
- Debate on water quality
- Fire frequency & location

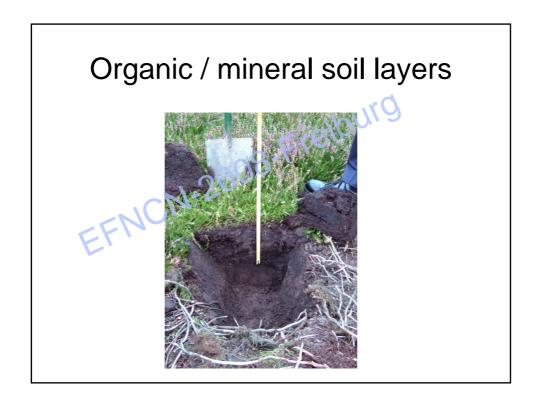
#### Carbon Sink Comparison

Forests

150, Million tonnes

• Peat Soils

8 Billion tonnes





#### No roots - all fall down!



### Ignition of peat/organic soils

- Controlled by:
  - Fuel moisture
- .2008-Freiburg - Inorganic content
- Research Edinburgh University Fire **Engineering Department**

### **Training**

- Competency based training standards
- Experience "on-the-job"
- Links with Fire Paradox & Eurofire Projects

### 2003 - Wildfire Response



#### Wildfire Groups



- Initially local groups land managers & fire service
- Now national groups Scottish & English Wildfire Forums
- Multi-stakeholder public / private sector partnerships

#### FIRE GROUPS

- Land Owner
  - Fire Map
  - Fire Plan
  - Insurance
  - Labour/equipment (specialist)
    - Helicopter
    - ATV Fire fogging units
  - Access
  - Mutual Assistance

- Fire & Rescue Service
  - Liaison mechanism
  - Link to control room
  - Labour & Equipment
  - Command & Control Structure
  - Mutual Assistance

### Summary

- Debate on habitats, carbon budgets & water quality
- Technical and regulatory changes to Prescribed Burning
- Research: heather fire modelling & peat fires
- Habitat and fire management competency based training
- Multi-stakeholder Wildfire Groups: public / private partnerships

