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Extent of native woodland on former open hill areas

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Ecological condition of peatland and non-woodland habitats

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Diversity and structure of Corroun forest

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Health of freshwater environment

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Health of keystone and indicator species

# Corroun Ecosystem Health Indicators Dashboard





## Extent of native woodland on former open hill areas

### Overview

#### Tree seedling quadrats



#### Natural regeneration at Forestry Grant Scheme areas



#### Open hill regeneration transects

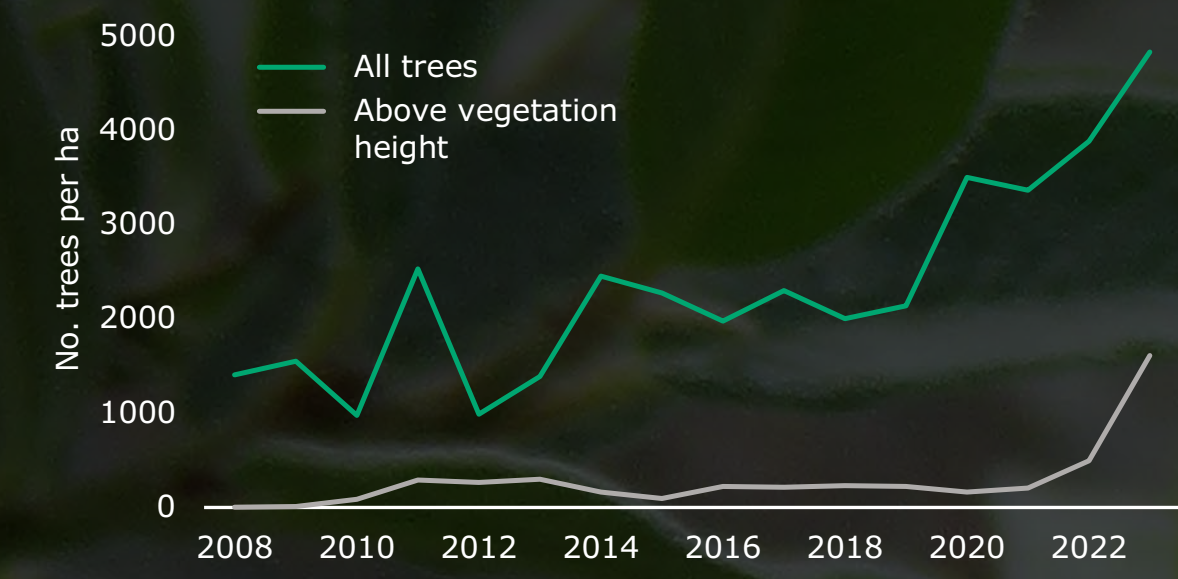


#### Open hill survey at Old Corrour survey area

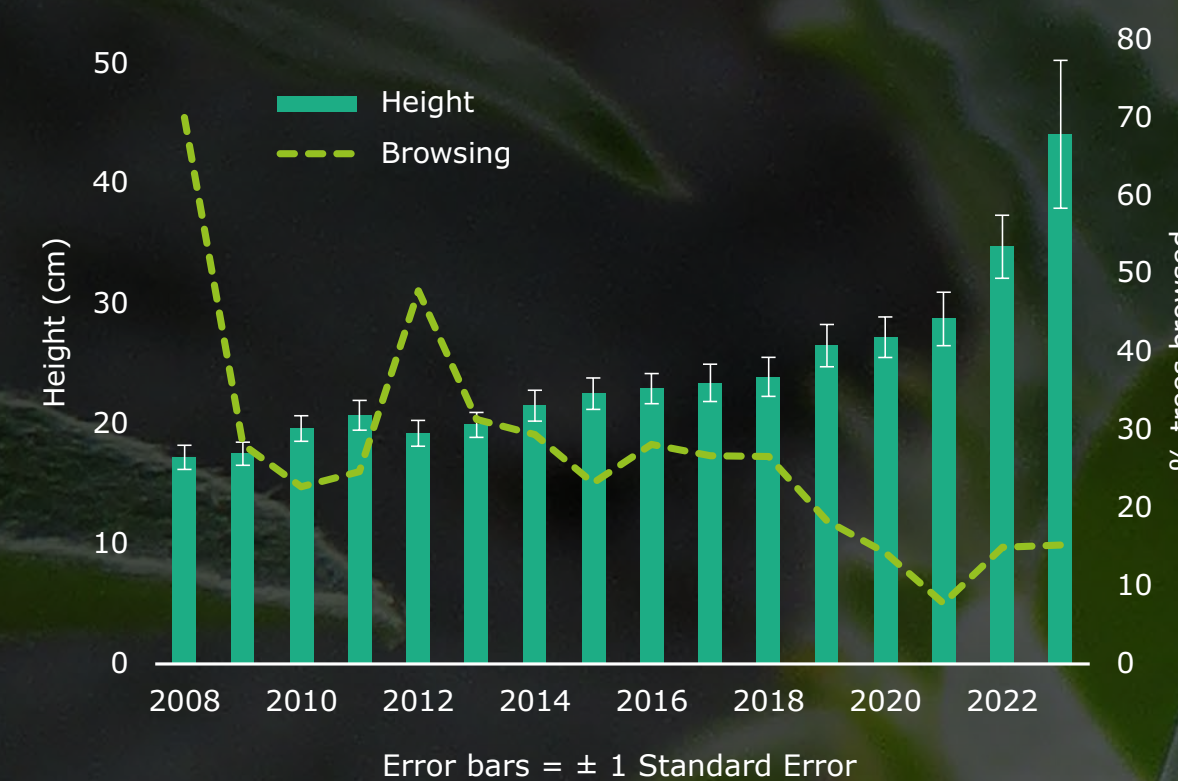


### Tree seedling quadrats

#### Seedling density per ha



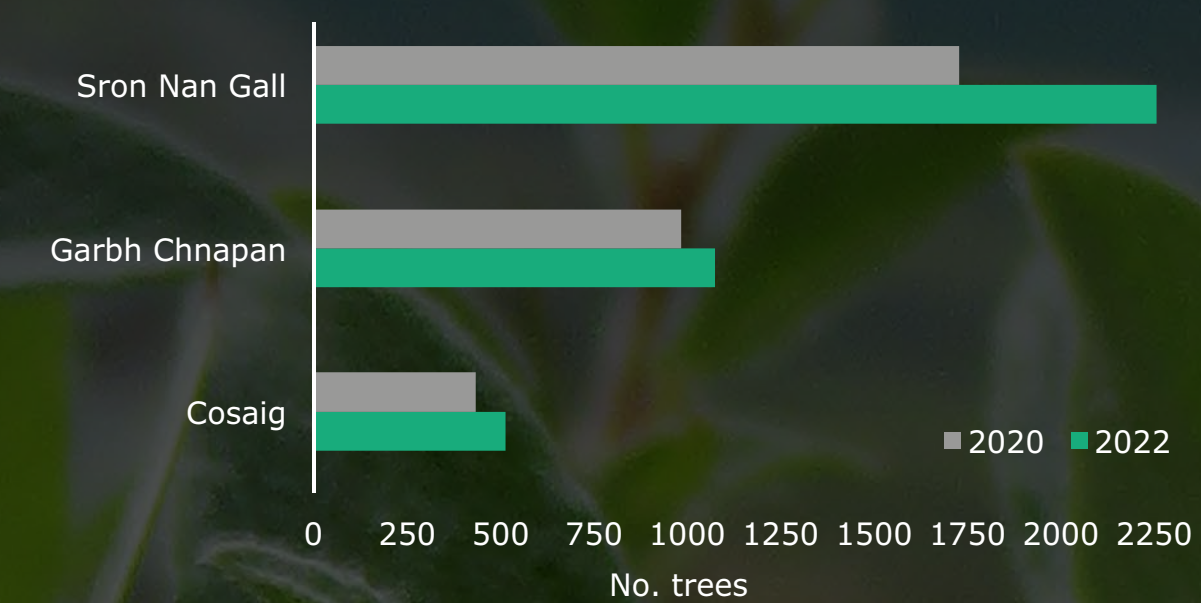
#### Mean marked tree heights in relation to browsing



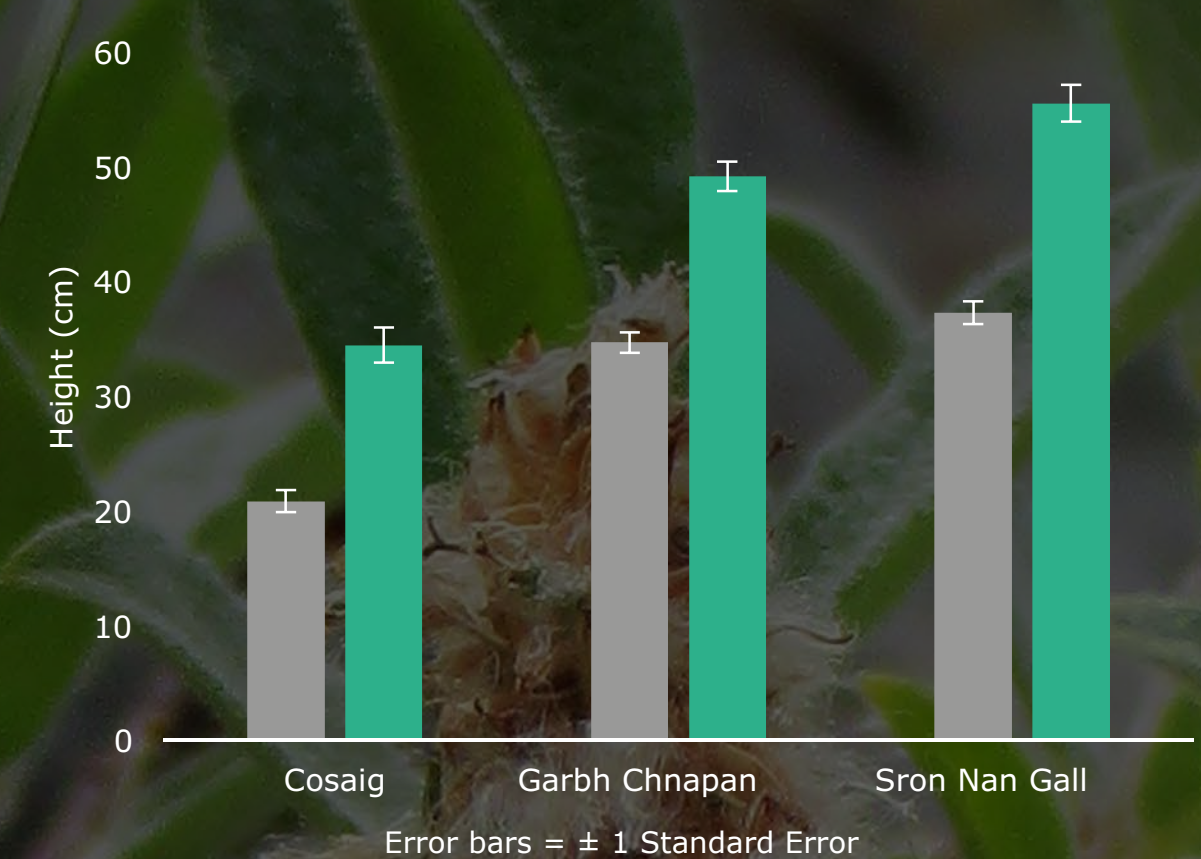
Target = Increasing

### Natural regeneration at Forestry Grant Scheme areas

#### Trees per ha



#### Mean tree height



Target = Increasing

### Open hill regeneration transects

#### Trees per ha



#### Trees per ha (by habitat)



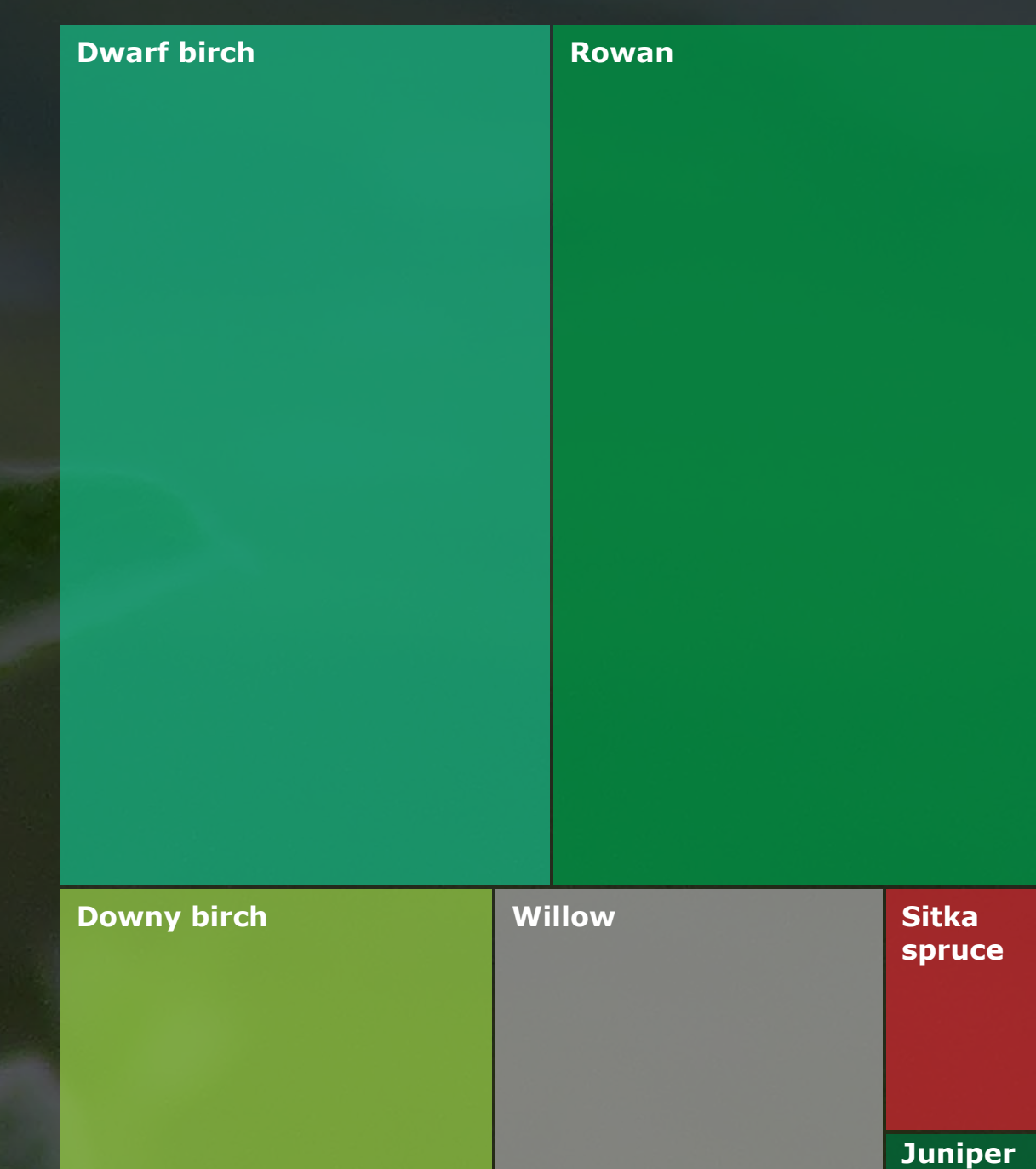
#### Mean tree height by species



Target = Increasing

### Open hill survey at Old Corrour

#### 2019: 171 trees



Target = Increasing (except Sitka)





# 2

## Ecological condition of peatland and non-woodland habitats

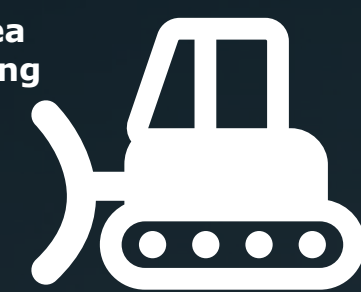
### Overview

#### Peatland restoration

### Restoration management

(reprofiling and rewetting using a digger) has been actioned at four sites on the open hill

an area totalling 459.1 ha



#### Herbivore Impact Assessment across all open hill habitat types



NVC survey was carried out in 2018

# 330



HIA plots, spread evenly across the open hill, and within seven habitats

#### Condition of habitat monitoring plots

Number of plots: **34** blanket bog  
**48** dwarf shrub



Set up using the protocol in the **Best Practice Guides** on Habitat Impact Assessment



#### Area of rare habitats of conservation interest

Tall herbs, Calcareous grassland and Snowbeds cover approximately

# 135

 ha

across the open ground of the Corrour Estate

#### Tall herb habitat condition

New monitoring

set up in Strath Ossian in 2021



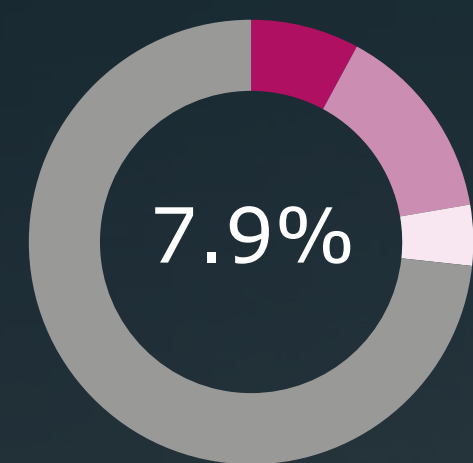
**Transects** running downhill from the cliffs spaced 30m apart



### Peatland restoration

Total area for peatland restoration = 5814.7ha

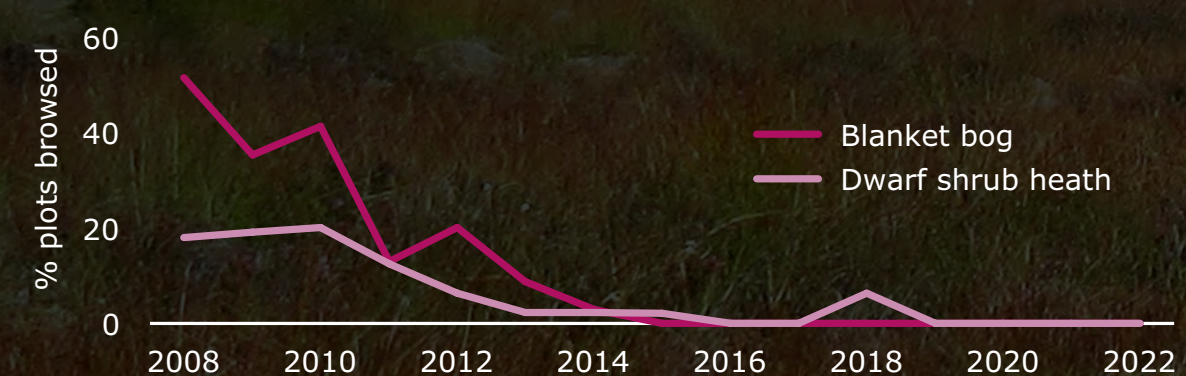
- Restoration management actioned
- Feasibility study completed, restoration pending
- Feasibility study completed, restoration not currently planned
- Not in restoration management



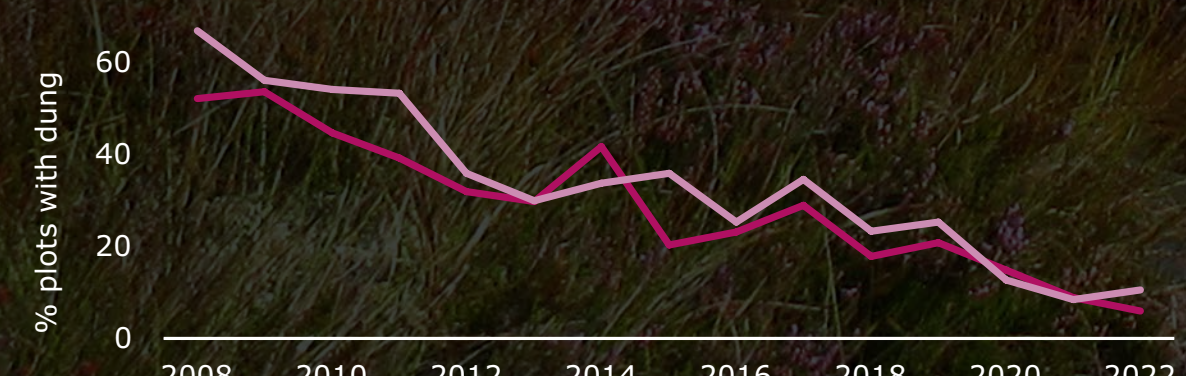
Target = 100% restored

### Condition of habitat monitoring plots

#### Heather browsing



#### Deer dung

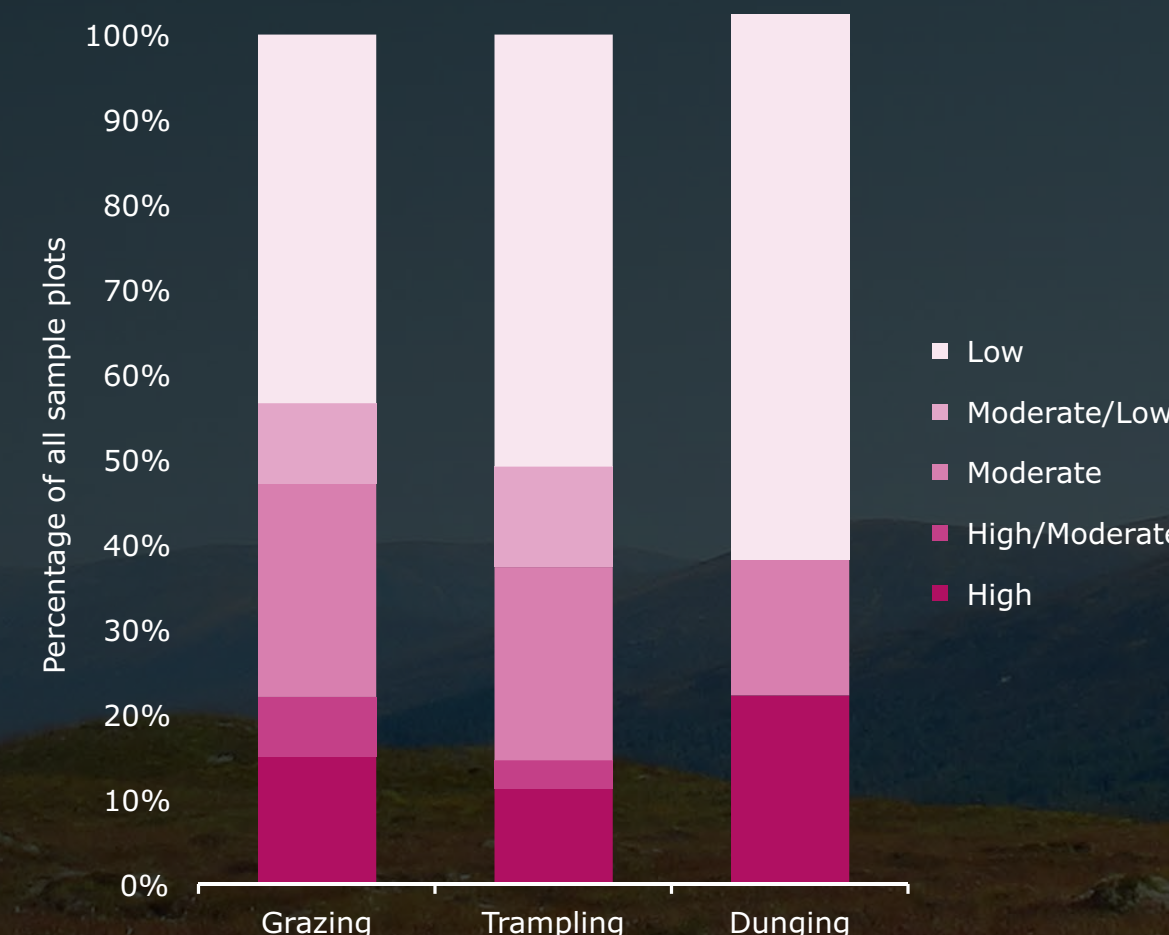


Target = Stable or improving

### Herbivore Impact Assessment across all open hill habitat types

#### Herbivore Impact Assessment across all open hill habitat types (2018)

Monitoring frequency: 6 years

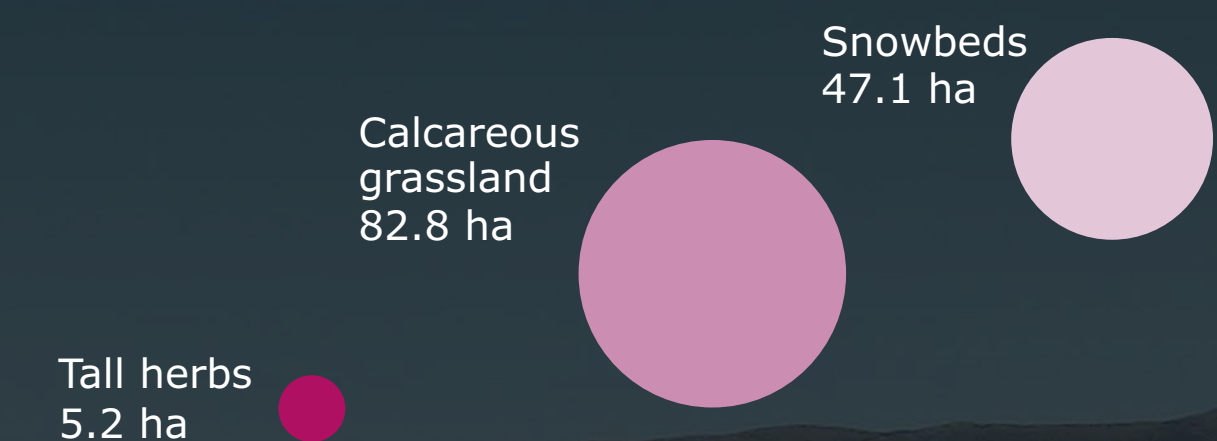


Target = 90% low impact

### Area of rare habitats of conservation interest (2018 NVC survey)

#### 2018 NVC survey

Monitoring frequency: 10+ years



Target = Stable or increasing

### Tall herb habitat condition

#### Strath Ossian tall herb habitat condition



Target = transition to tall herb habitat





### Overview

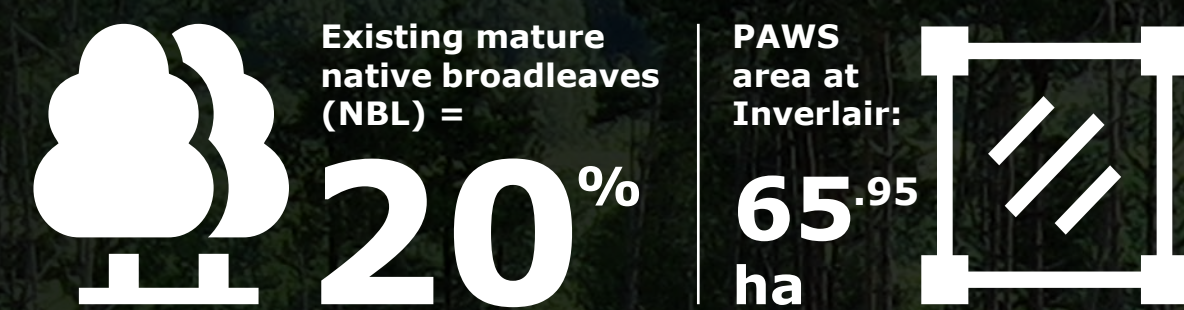
#### Peat restoration area



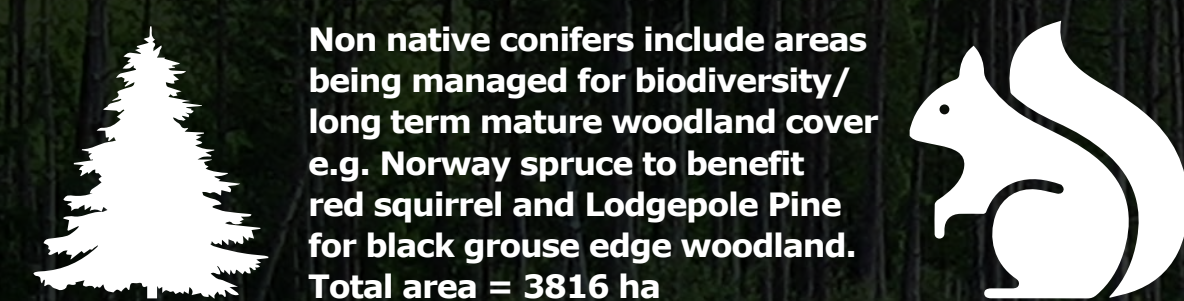
#### Peat restoration vegetation monitoring



#### Inverlair Planted Woods on Ancient Woodland sites (PAWS)



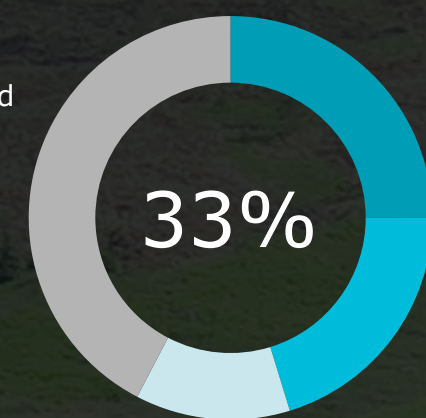
#### Long Term Forest Plan



### Peat restoration area

#### Peatland restoration area = 621ha

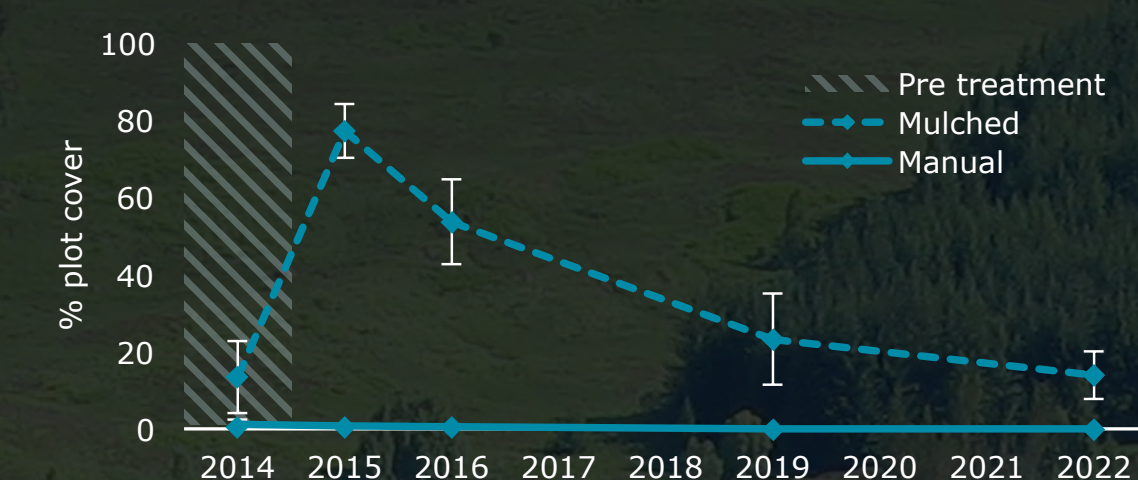
- Tree clearance and rewetting works completed
- Tree clearance completed
- Tree clearance planned for 2023
- Feasibility study complete



**Target = 100% restored**

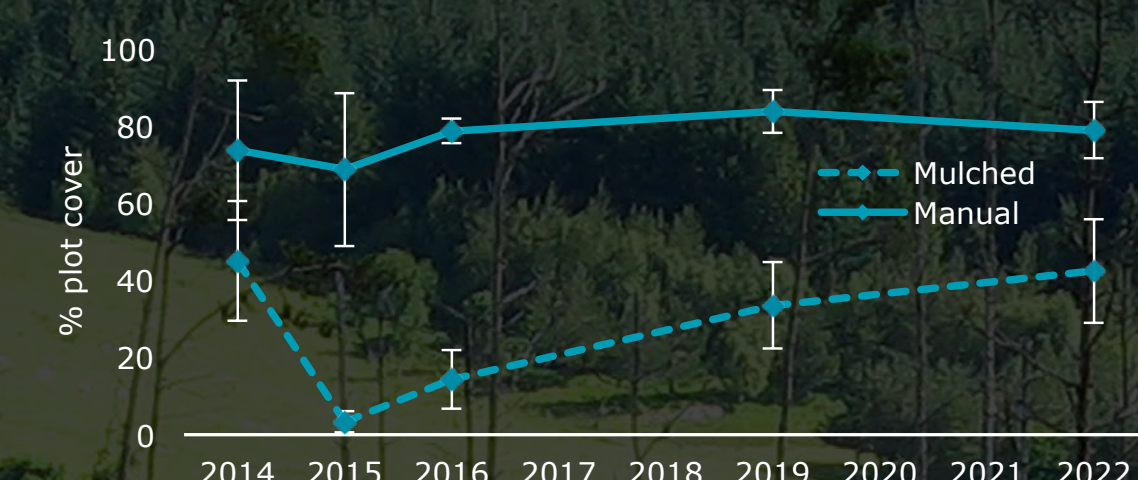
### Peat restoration vegetation monitoring

#### Unvegetated plot cover

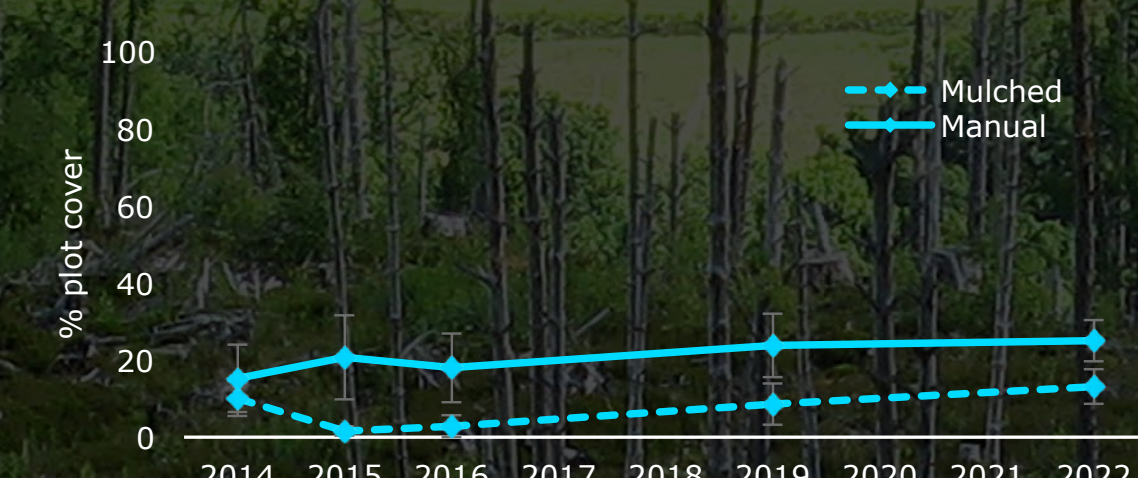


**Target = Decreasing or stable**

#### Sphagnum moss cover



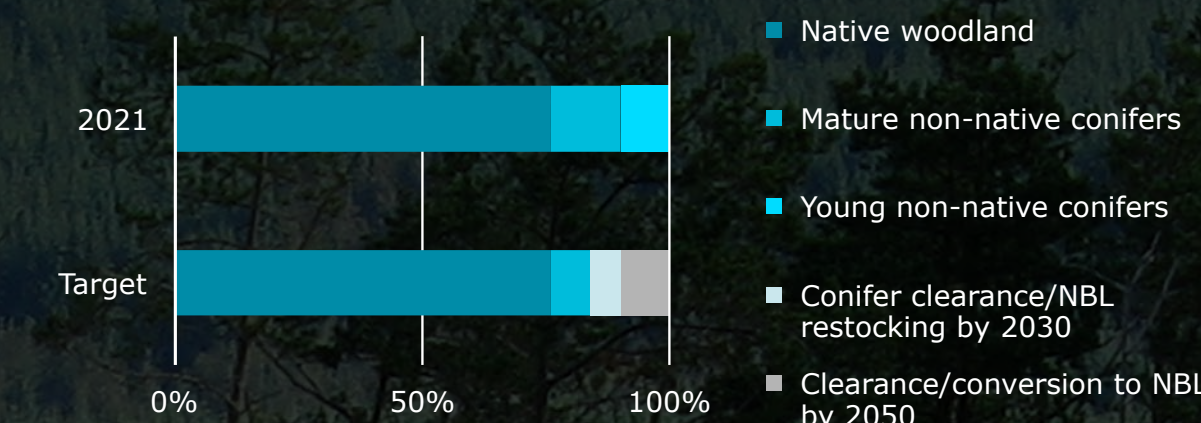
#### Cottongrass cover



**Target = Increasing or stable**

### Inverlair Planted Woods on Ancient Woodland sites (PAWS)

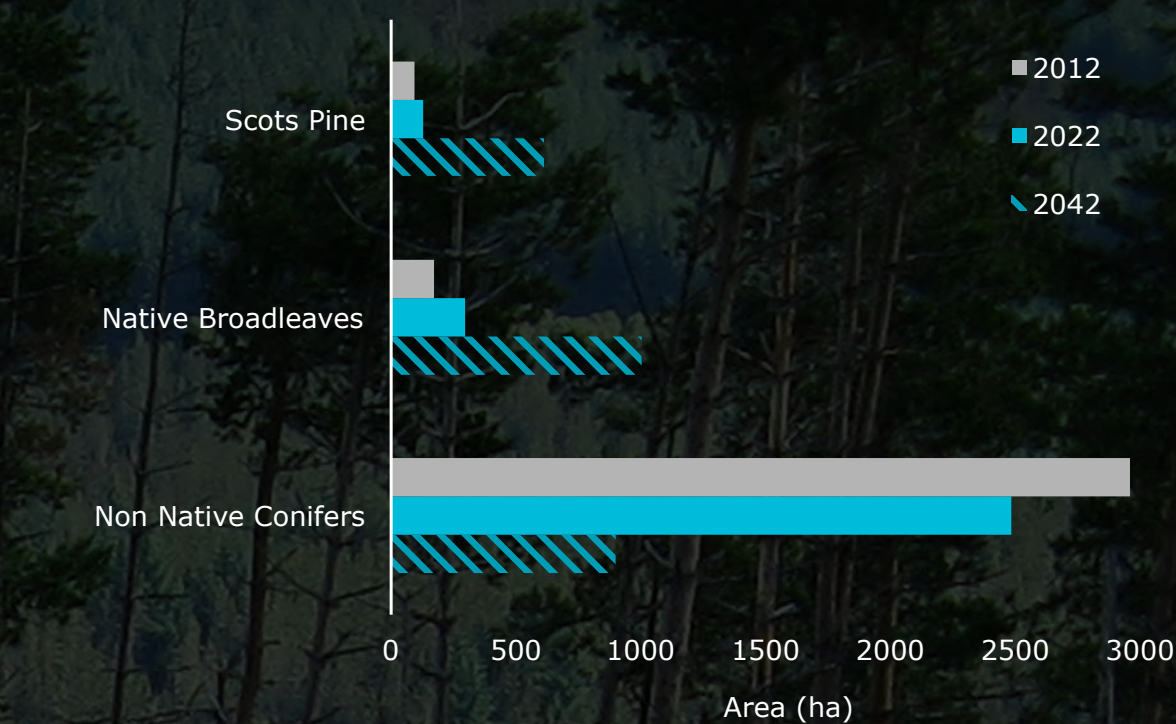
#### Inverlair PAWS



**Target = 76% native woodland**

### Long Term Forest Plan data

#### Forest Components: Woodland



#### Forest Components: Other



**Target = 1616 ha Native tree species**





### Overview

#### Corrou forest water quality

A total of **20,420** individual aquatic macroinvertebrates were recorded from 229 samples in the period 2015-2022

#### Open hill water quality

Both rivers classified as **Excellent** in the SEPA river classification



The most common group was **mayflies** (Ephemeroptera), with a total of **747** individuals



#### Electrofishing

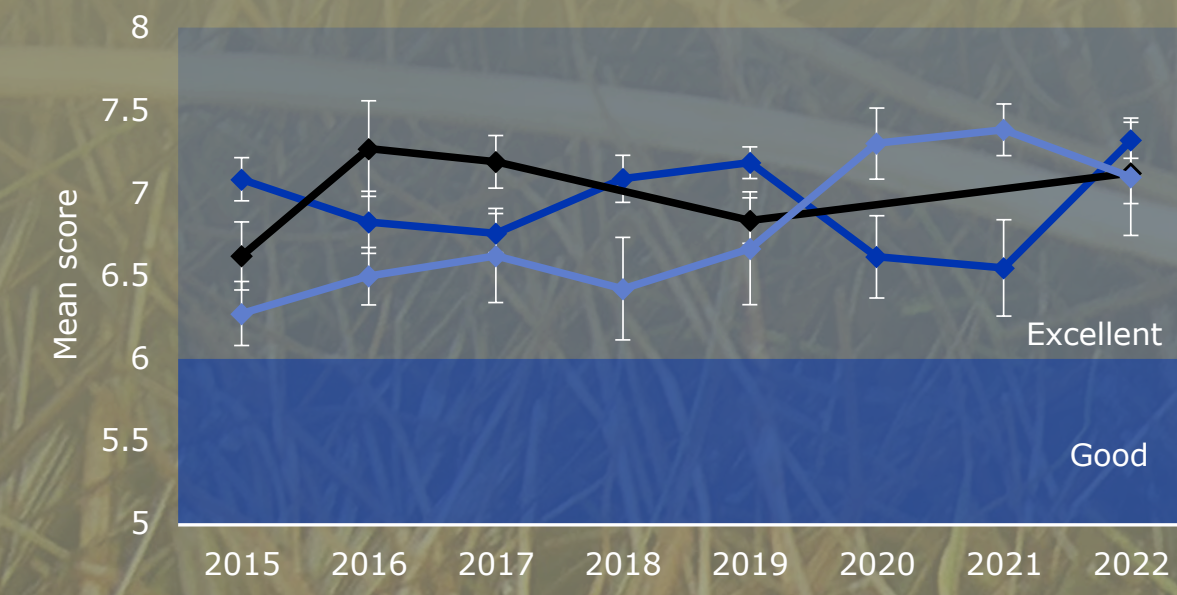
**8** individual sampling sites in Corrou forest  
**6** individual sampling sites on the open hill

Densities of brown trout were compared to National Fisheries Classification Scheme Grades

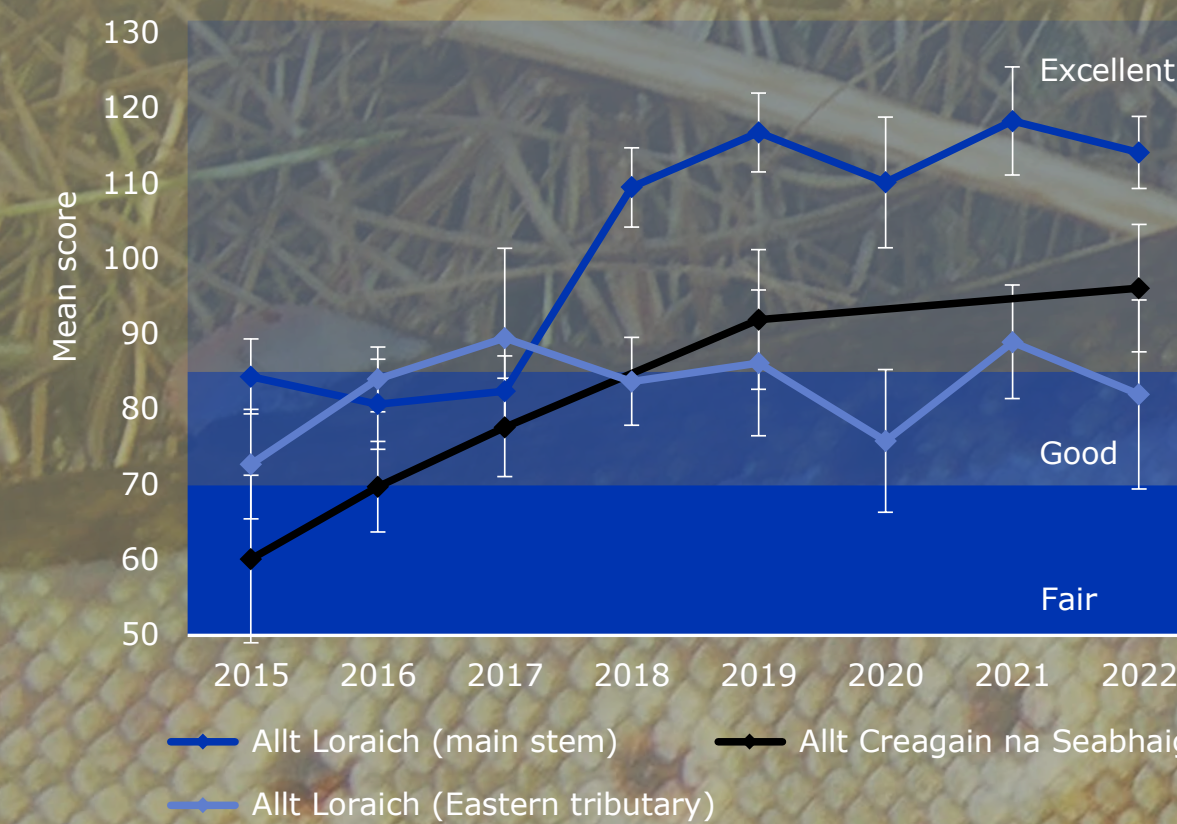


### Corrou forest water quality (evaluated by macroinvertebrates)

#### Average Score per Taxon (ASPT) water quality index



#### Biological Monitoring Working Party (BMWP) water quality index

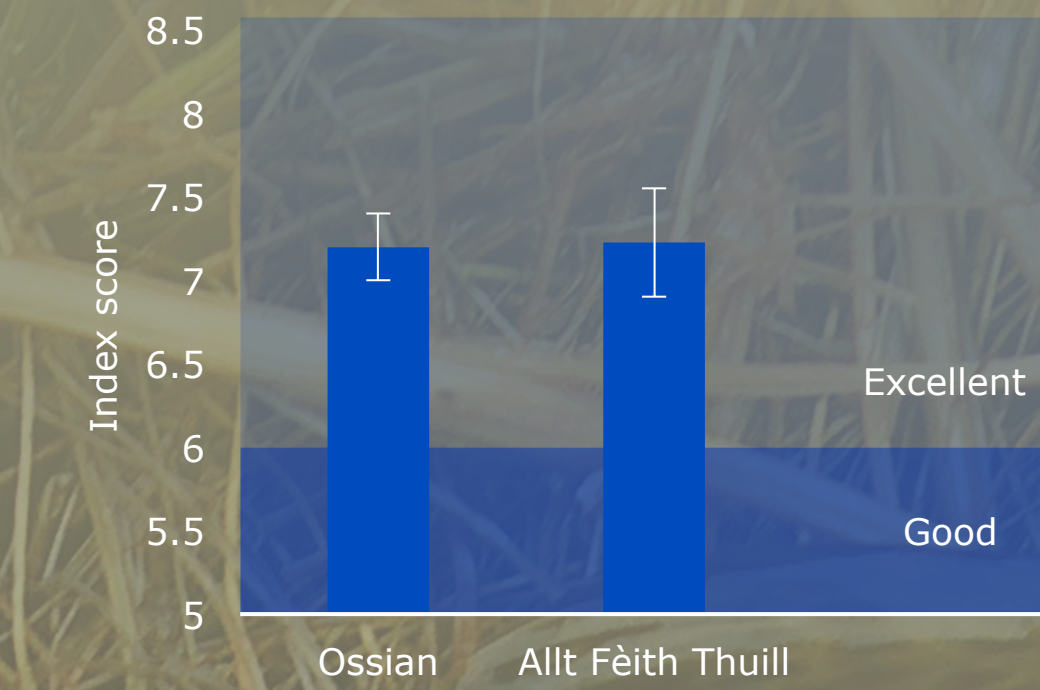


Error bars = ± 1 Standard Error

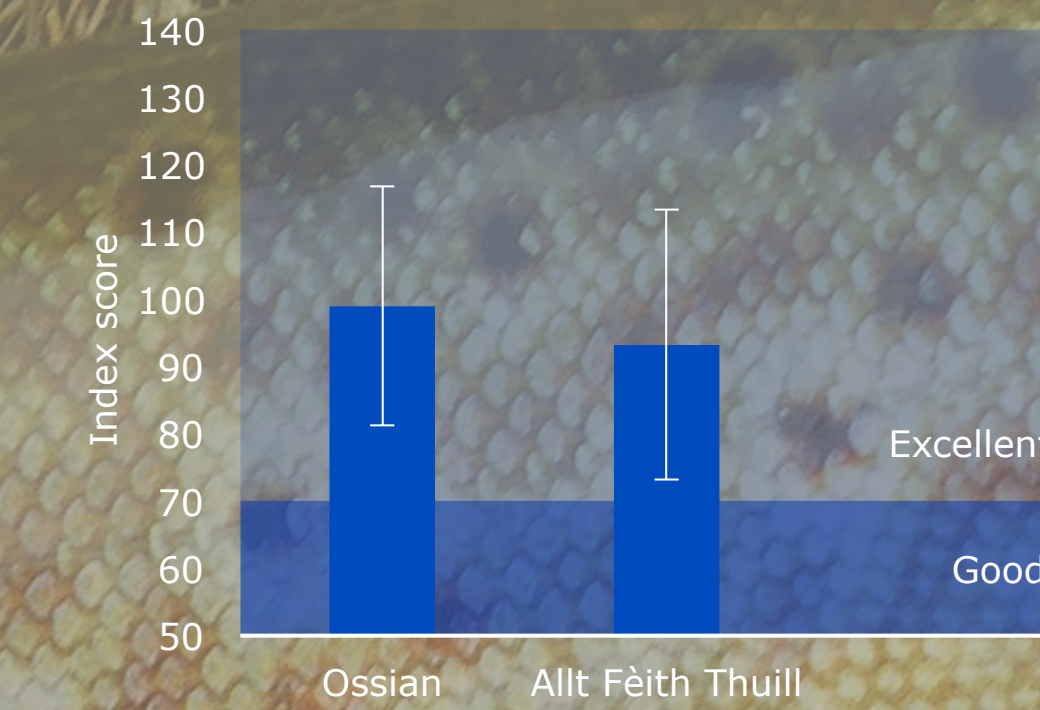
**Target = Stable**

### Open hill water quality 2020 baseline (evaluated by macroinvertebrates)

#### Average Score per Taxon (ASPT) water quality score



#### Biological Monitoring Working Party (BMWP) water quality index

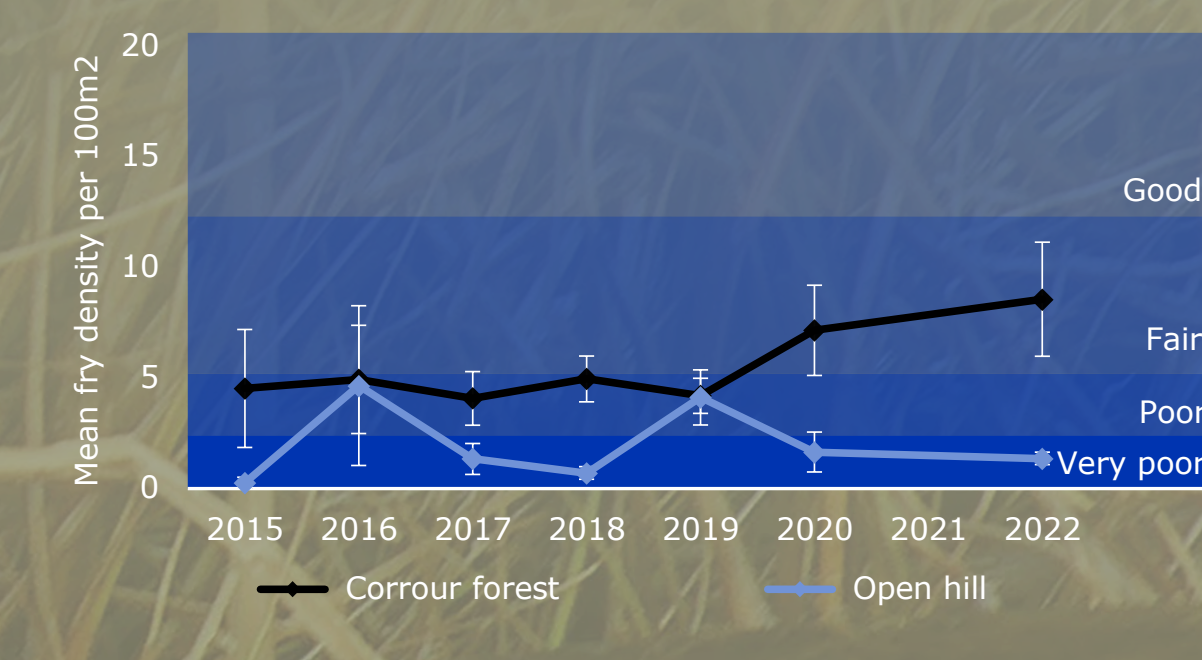


Error bars = ± 1 Standard Error

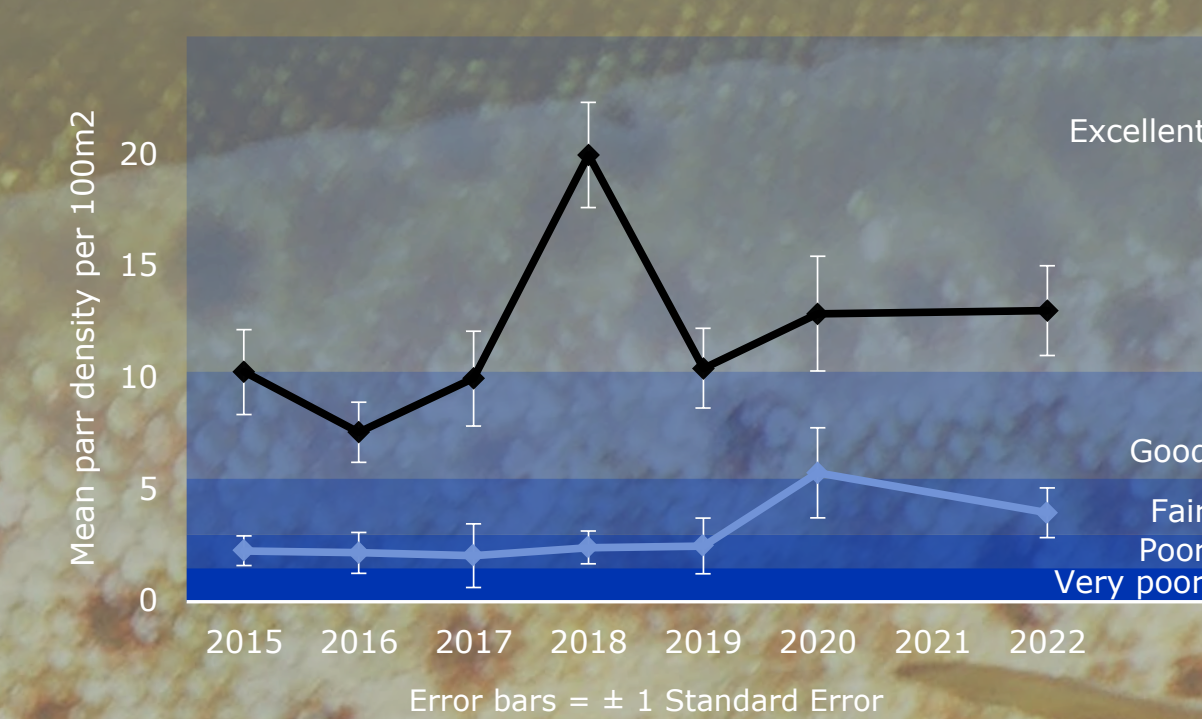
**Target = Stable or improving**

### Electrofishing

#### Trout fry FRS Fisheries Classification



#### Trout parr FRS Fisheries Classification



Error bars = ± 1 Standard Error

**Target = Stable or improving**





### Overview

#### Annual grouse counts

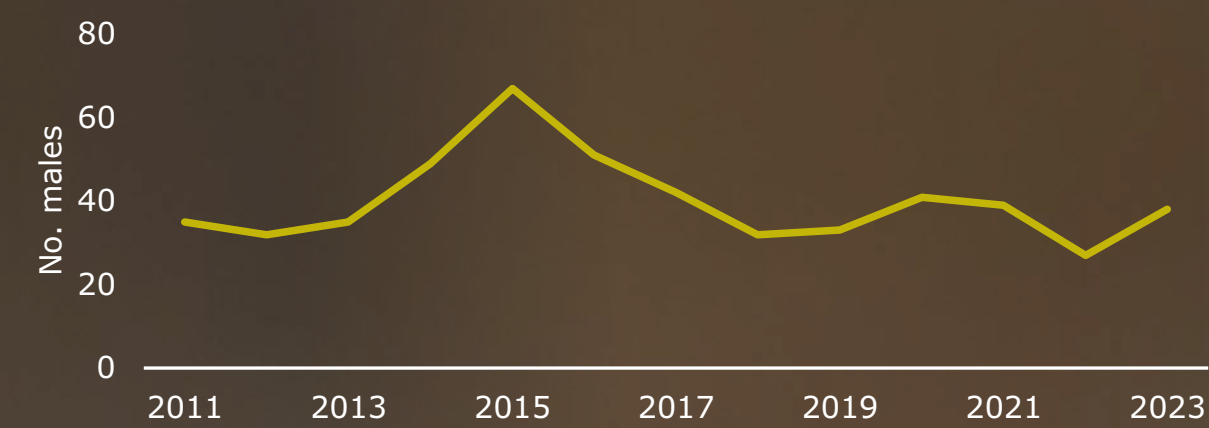


#### Red deer population dynamics

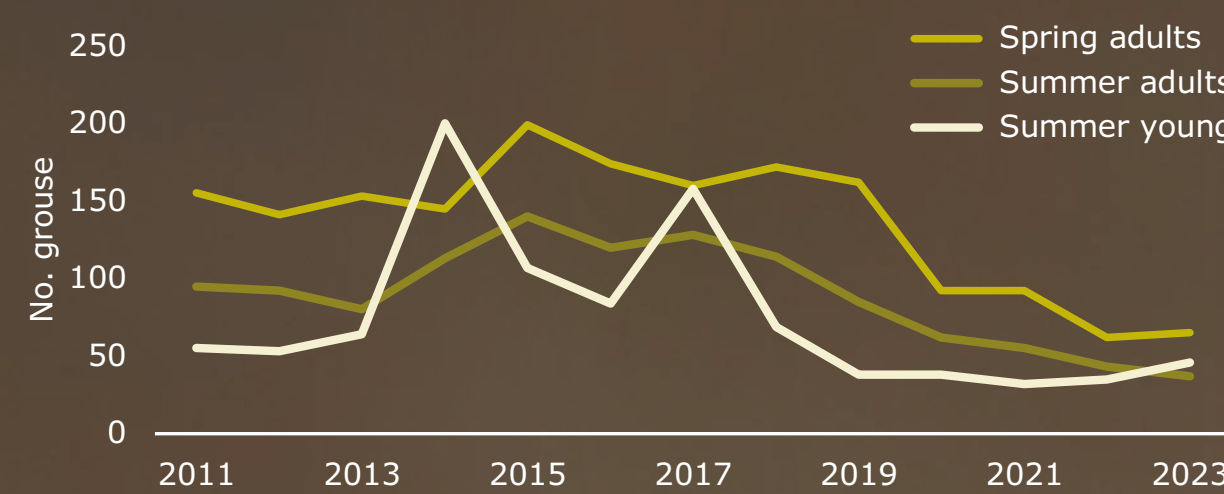


### Annual grouse counts

#### Lekking male black grouse



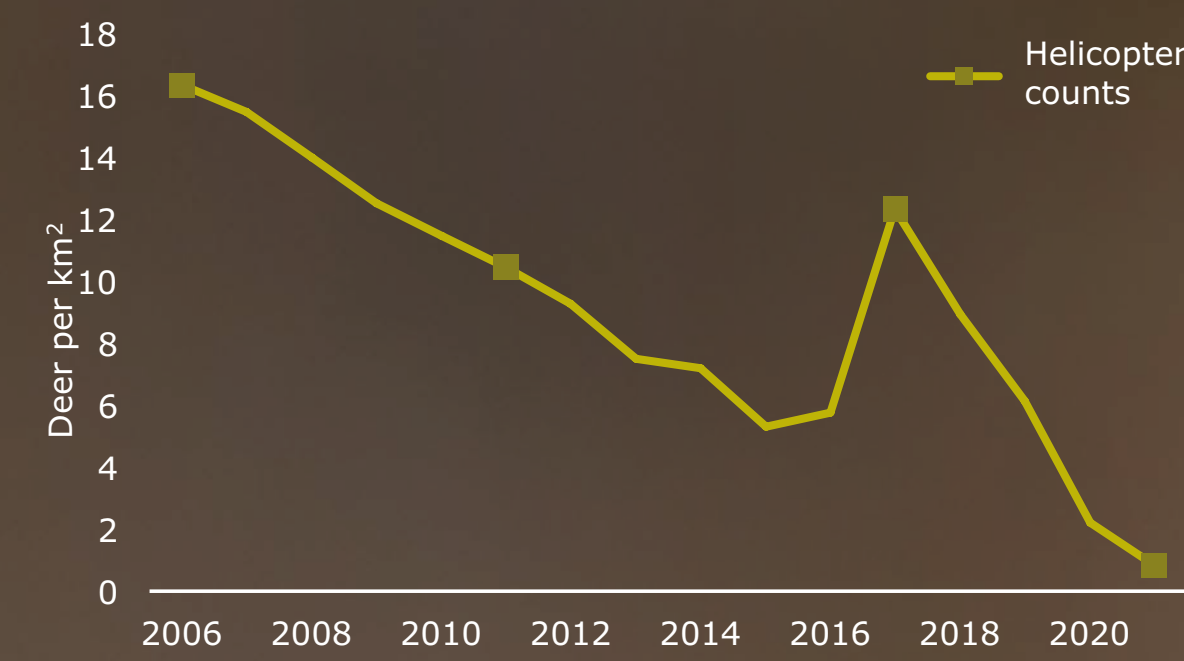
#### Total red grouse counted



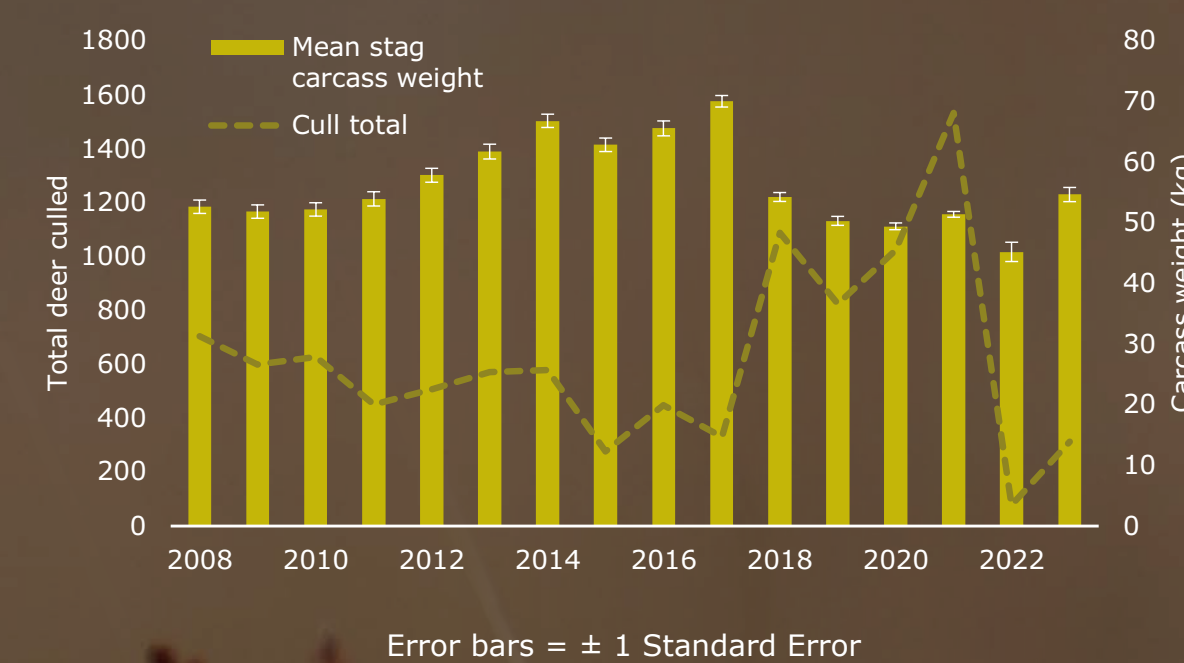
**Target = Stable or improving**

### Red deer population dynamics

#### Open hill deer density



#### Overall cull totals and stag carcass weights



**Target = Fluctuating at low densities**

