# Forest Management Plan

# Benbulben Forest

Forest Code: SO01

Period Covered: 2011 to 2015

Version 2.1

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## What is this document?

The term "Forest Management Plan" (FMP) describes all the site-level plans for the land managed by Coillte. Each site level plan represents the best balance of the social, economic and environmental objectives sought by our shareholders and stakeholders. This document is a summary of the management plans for the forest in question and is designed to be used with Coillte's online mapviewer where you can view more detail on the location, nature and timing of felling and replanting:

www.coillte.ie/forests/plans/forest\_management\_plans/online\_map\_viewer/

The glossary of terms for Forest Management Plans would also be useful (see www.coillte.ie/forest\_management\_plans/glossary/)

### Introduction

Benbulben forest is situated in North Sligo straddled by Drumcliff Bay in the west and by Benbulben mountain range in the east. Lissadell estate is located in the middle of the Forest with Drumcliff, Carney, Grange, Cliffoney, and Mullaghmore are some of the villages in the location. Gleniff or (Horseshoe) is a scenic area and an attraction to tourists. Also the River Duff winds its way through this property famous for its salmon fishing. The Forest is made up of 326 hectares of primary conifer forest with the main soil types being gleys and peaty gley and a small amount sandy clay. The topography is mountainous; Benbulben, Benwisken, Truskmore mountains set in a Special Area of Conservation (SAC)and a Natural Heritage Areas (NHA) and some in high sensitivity areas. The N15 passes through this Forest and is the main road to south Donegal.

#### **Nature Conservation**

Approximately one third of the forest is being managed for conservation and biodiversity objectives and all forest operations will be carried out with the intention of maintaining and where possible enhancing those areas of the forest.

#### Recreation

Coillte operates a open forest policy and welcomes all visitors to the forest in the line of recreation code of uses. Lissadell has an attractive amenity area which over looks the beach area which has seating provided. It also has a forest walk which links up to the goose field.

## Security

Illegal dumping is becoming a very prevalent issue especially in rural areas of this forest where the population is low, Coillte is striving to minimise these instances of antisocial behaviour and would welcome the assistance of the public in solving this increasing problem.

There has being a number of cases of animals trespassing, which cause expensive damage to our newly established crop and fences.

There have been some instances of fires in the past which can cause considerable damage.

## Adjoining land use

Agriculture is the main adjoining land use in Benbulben which is mainly sheep and cattle.

#### Other comments

This forest is located in a very scenic area of north Sligo. Benbulben mountain is a landmark in this area as is the River Duff, Mullaghmore which has the castle and Lissadell House in Lissadell.

The forest has a lot of history in this area. Just on the border of Leitrim and Sligo lies Glencar Lake and is a most enchanting area. Beside Glencar Lake is Glencar Waterfall and it was here that the setting and charm of the area inspired W.B. Yeats to write "The Stolen Child".

WB Yeats is buried in Drumcliffe. The Gore Booths lived in Lissadell. Lord Mount Batton lived in Mullaghmore. There was mining carried out on top of Truskmore mountain in the seventies for barritus.

Coillte's practice is to sell, lease or develop a limited area of non-strategic land, for purposes other than forestry. Most sales are made in response to local demand and typically comprise house sites, isolated dwelling houses, sections of recently acquired farms, small outlying forest properties and gravel pits. The land in Forest Properties Ardnaglass (MU MO085), Ballyscannel, Kennellswood (MU MO060) may be sold or developed for non-forestry purposes during the lifetime of this plan. Although forest management staff will be happy to discuss what they know of the plans for these areas the actual sale, if it proceeds, will be subject to the consultation procedures as detailed in our Stakeholder Consultation Code of Practice

http://www.coillte.ie/community/consultation\_policy/ (and Coillte's policy on removal of these lands from those covered by our SFM certificate

 $http://www.coillte.ie/businesses/land\_development/property\_management\_policy/?no\_cache=1\&sword\_list\%5B\%5D=POLICY$ 

## Forest management

## Management Approach

The forest, like all of Coillte forests, is being managed under the principles of Sustainable Forest Management and is certified by the Forest Stewardship Council (FSC). Sustainable Forest Management principles ensure economic, social and environmental sustainability in the day to day management of forests.

The management focus is concerned with sustainable timber production and the reforestation of all clearfell areas in accordance with environmental guidelines. The main forest objective are timber production at 71% and biodiversity at 29%, conservation and to increase broadleaf planting in some properties in next rotation. Large numbers of migrating birds spend the winter months in what is known locally as the goosefield in the Lissadell area. The protection of wildlife habitats and bird sanctuaries is very important.

## Thinning and clearfell

There are approximately 80 hectares of clearfell planned for this period. There is also plans to thin approximately 160 hectares of the forest in this period of the plan. Historically the forest has been thinned where possible.

Site disturbance is part and parcel of clearfelling and restructuring of the forest, disturbance and inconvenience to the public will be kept to a minimum and within a few years for diversity of species will be re-established in restructuring of the forest areas and the forest cycle will continue.

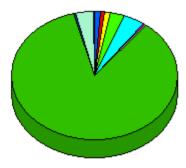
## Replanting

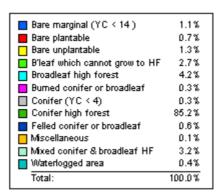
The majority of areas felled will be replanted. Areas designated for timber production will be planted primarily with spruce and larch. Broadleaves will be planted inr areas which have being applied for under the Native Woodland Scheme. Other areas will be left unplanted to enhance the biodiversity value. Some areas will be managed mainly for biodiversity and conservation and where possible native broadleaves such as oak, ash, hazel, will be planted. Riparian zones, river edges in most cases will be left unplanted apart from small groups of broadleaves to promote biodiversity.

## Current forest statistics

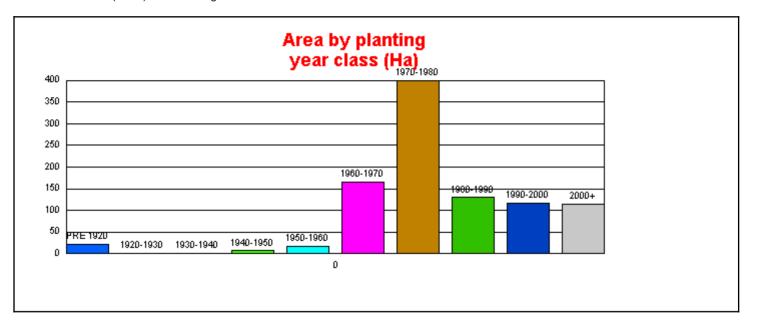
LAND USE TYPE		GROSS AREA (HA)	
BHF	Broadleaf high forest	48	
CHF	Conifer high forest	973	
MHF	Mixed conifer & broadleaf HF	37	
MISC	Miscellaneous	1	
SCRUB	B'leaf which cannot grow to HF	31	
SWAMP	Waterlogged area	4	
UNDEV	Conifer (YC < 4)	3	
BAREMG	Bare marginal (YC < 14)	12	
BAREPL	Bare plantable	9	
BAREUP	Bare unplantable	15	
BURNED	Burned conifer or broadleaf	3	
FELLED	Felled conifer or broadleaf	7	
Total gross area (	Ha)	1,143	

## Land use type by gross area





Based on INV\_04



## Social & Environmental Impact Assessment

Coillte's Social and Environmental Impact Assesment (SEIA) is the means by which we document the potential threats to the forest and its environment from our activities or the activities of others and our approach to reducing the risk of damage.

We asked for submissions from the public at our pre-planning consultation stage and this is where each issue should be dealt with. In some cases we will not have been able to implement all suggestions in full but you should be able to see the reasons why, in the interests of balance, an alternative course of action was taken.

The item labelled 'DSP Ref' refers to a District Strategic Plan which sets in context how Company policy is implemented at ground-level in some of these areas. The District Strategic Plans for each District are found at:

http://www.coillte.ie/forests/plans/district\_strategic\_plans/

Topic: A	Amenity/Recreation

<u>Topic consultation</u> Residence Lissadell area DSP ref Impact rating

**MEDIUM** 

<u>Issue details</u> <u>Risk mitigation</u>

Poor up keep of enterances and forest walks. Regular ins

Regular inspections and upkeep as necessary.

**Topic:** Archaeology

Topic consultation
Archaeology sites in many properties.

DSP ref Impact rating

**MEDIUM** 

<u>Issue details</u> <u>Risk mitigation</u>

Damage to features. Adhere to all Forest service Guidelines.

**Topic:** Landscape impact

Topic consultation DSP ref Impact rating

**MEDIUM** 

<u>Issue details</u> <u>Risk mitigation</u>

Large coupe felling would have a negative impact on

Large coupe felling to be minimised and restructuring and

diversity of species for future landscapes.

**Topic:** Trespass

landscape in scenic areas.

Topic consultation DSP ref Impact rating
Local landowners MEDIUM

<u>Issue details</u> <u>Risk mitigation</u>

Animal trespass, damage to new plantations. Fencing -Liase with neighbouring landowners.

**Topic:** Water quality DSP ref **Topic consultation Impact rating** Part of this forest, Gleniff in **MEDIUM** particular which is in the River Drewas catchment area and well known Salmon and Trout river.Water Issue details Risk mitigation monototing to be carried out on any active sites in this area. Danger of pollution and sedementation of river as a result of consultation with fisheries in place prior to any harvesting in this harvesting

area and permission sought to proceed with harvesting

## Forest Management Plan Summary

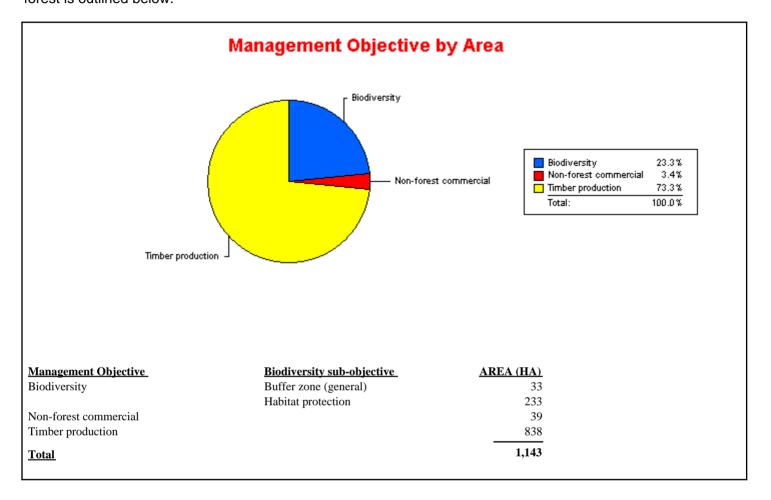
## **Thinning**

Thinning, whereby a portion of the trees are removed at successive stages prior to clearfell, is a desirable practice when aiming to grow quality timber. This table shows the maximum total area which may be scheduled for thinning during the period of this plan in each of the Coillte forest properties in this forest. This level of thinning would mark a significant increase over previous years and is purely an indicative, aspirational level. Please note that Coillte forest property names do not alway follow townland names or boundaries.

F PROPERTY GLASS UFF EGAL ERCO	THINNING AF	26 54 8	
UFF EGAL ERCO		54 8	
EGAL ERCO		8	
ERCO			
		15	
SFORD		8	
LIFF NORTH		16	
YLE		17	
F		08	
ROWEY		55	
ADRUNG		31	
LAGH		15	
ELL		34	
GHNANEANE		7	
		33	
	ELIFF NORTH YLE F ROWEY ADRUNG LAGH ELL GHNANEANE	YLE       1         F       10         ROWEY       5         ADRUNG       8         LAGH       2         ELL       13         GHNANEANE       13	YLE     17       F     108       ROWEY     55       ADRUNG     81       LAGH     45       ELL     134

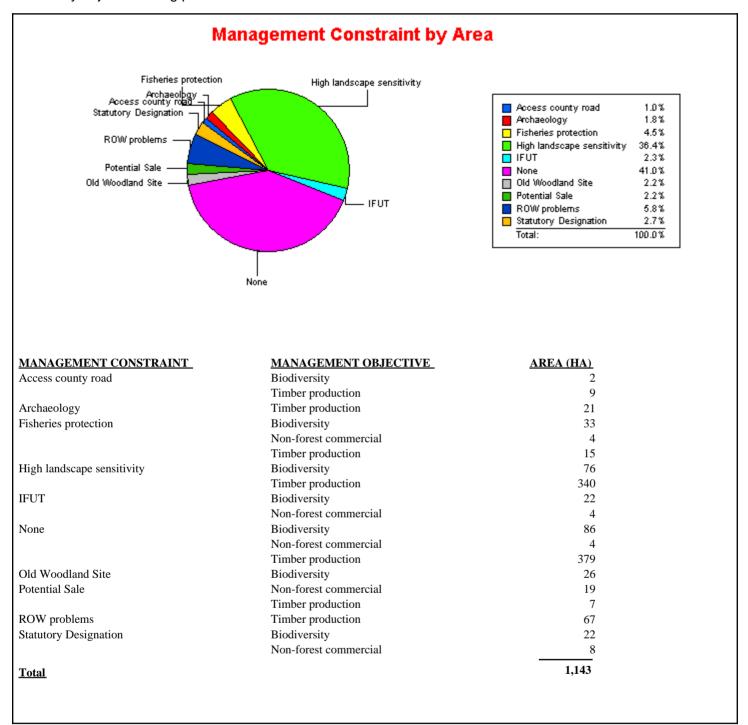
## Management Objective

Coillte's estate is managed on a multi-objective basis, where an attempt is made to balance the pursuit of economic returns, environmental protection and enhancement and social returns like landscape protection and employment. Rather than attempting to achieve a perfect balance on every site we recognise that some sites have a greater potential than others in pursuing different objectives. To this end, we nominate a principal objective for each site. This categorisation for this forest is outlined below.



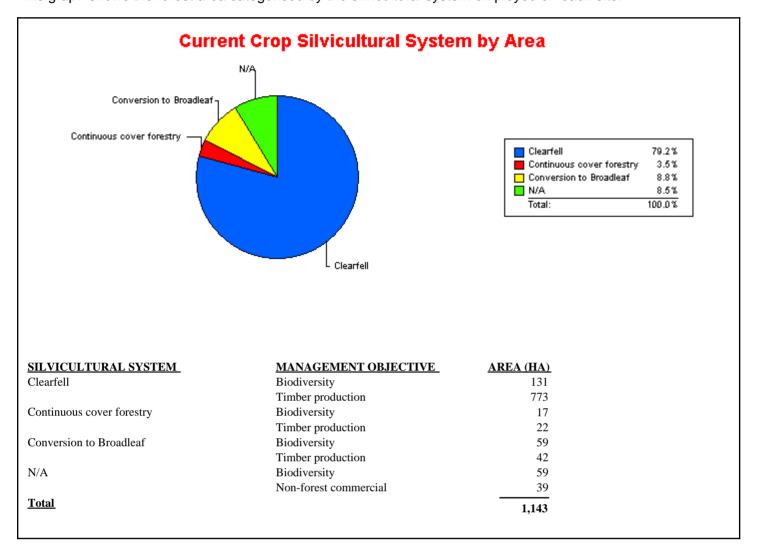
## Constraint or secondary objective

This graph shows the forest area categorised by the principal constraint or, in many cases, secondary objective being pursued on each site.



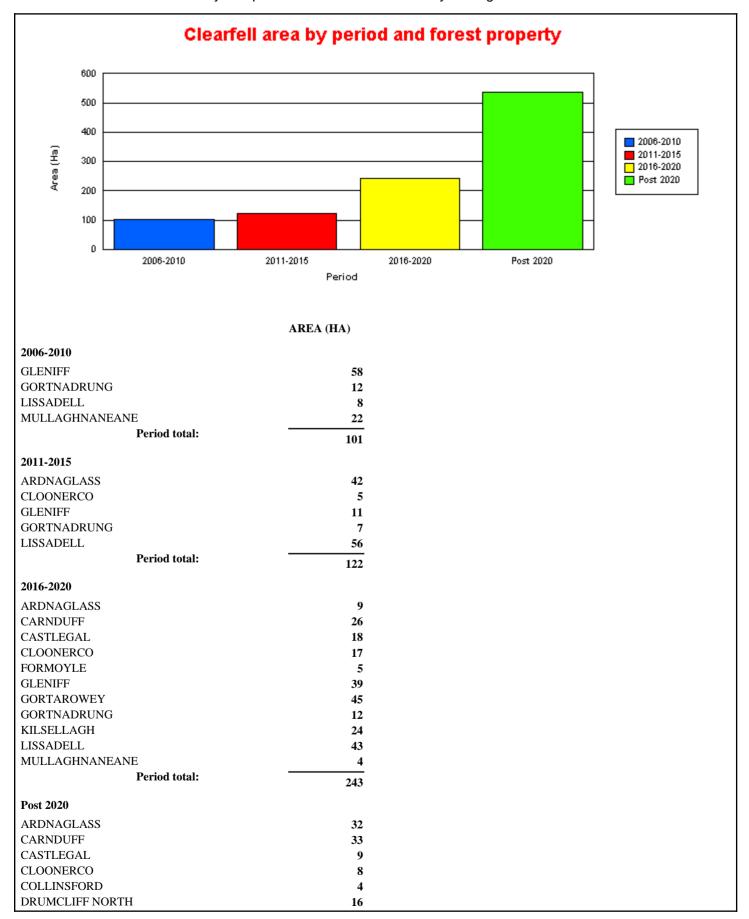
## Silvicultural System

This graph shows the forest area categorised by the silvicultural system employed on each site.



## Felling areas

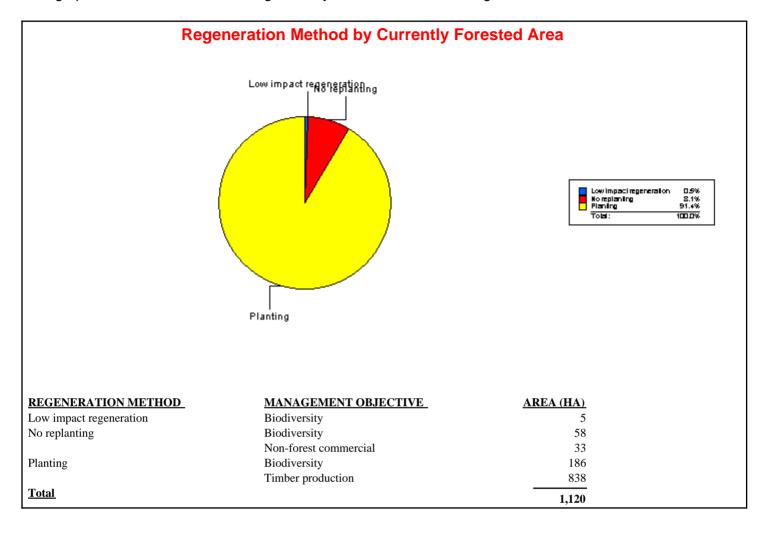
This graph shows the total area which is scheduled to be felled in each 5 year period shown. This is based on a summation of site-by-site plans where an indicative fell year is given.



FORMOYLE	71	
GLENIFF	158	
GORTAROWEY	58	
GORTNADRUNG	54	
KILSELLAGH	21	
LISSADELL	62	
MULLAGHNANEANE	11	
Period total:	537	

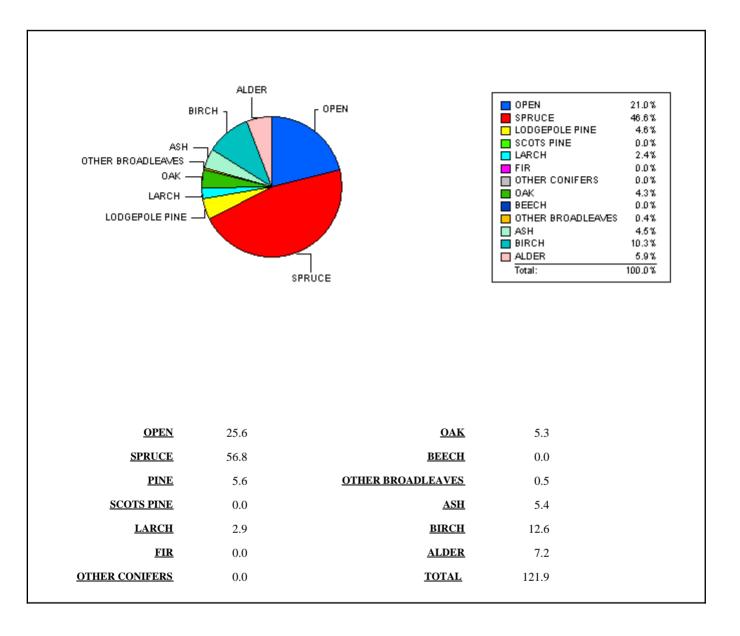
## Regeneration plans

This graph shows the forest area categorised by the method of restocking to be used for each site.



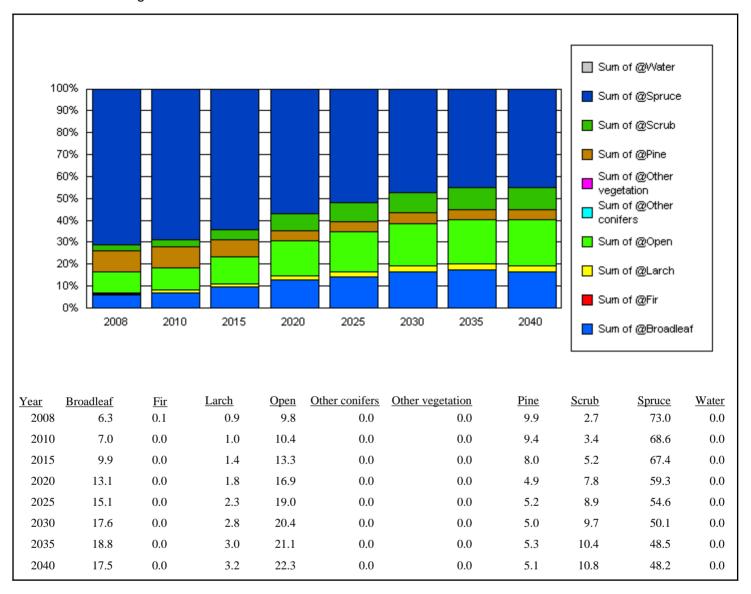
### Restock 2011-2015

This graph shows the forest area categorised by the species being used in restocking each of the sites being felled during the period 2011-2015.



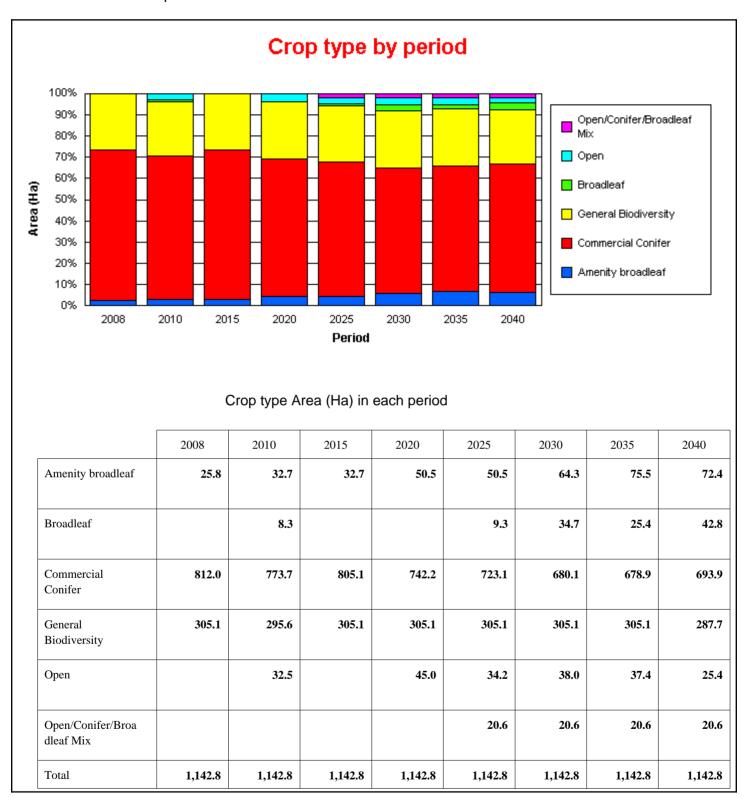
## Species diversification

This graph shows how the total forest area occupied by different species groupings and open space will develop in this forest over time. This is calculated using the current inventory of what species is growing on each site, when the site will be felled, and what has been chosen as the successor crop in this Forest Management Plan.



## Crop type diversification

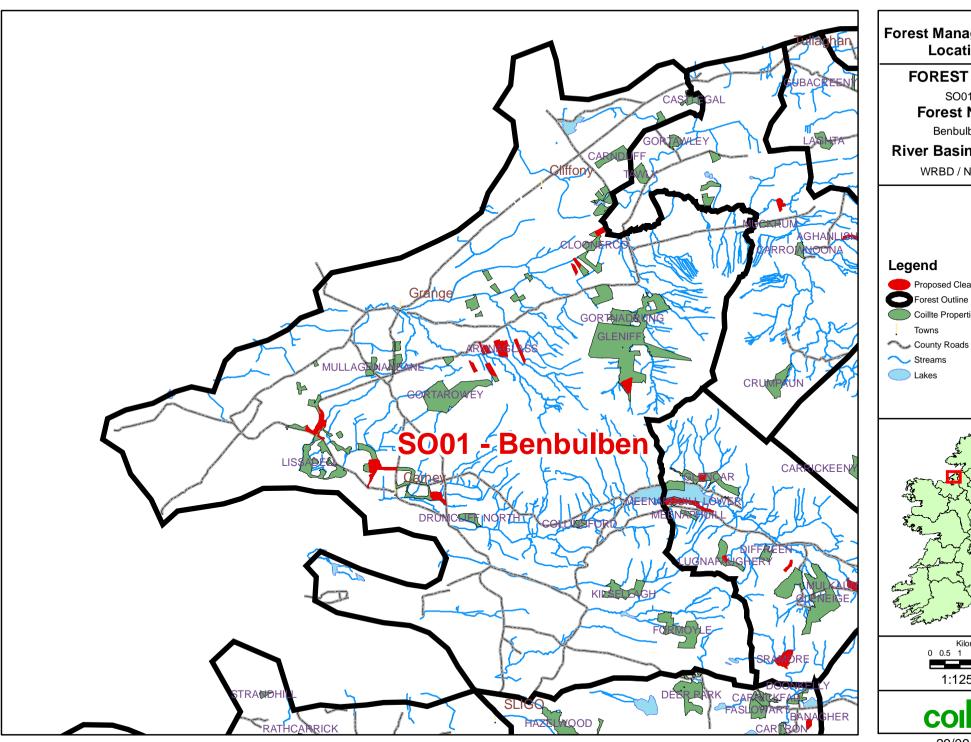
Displayed below is a chart showing the development of "crop type" which is a site-by-site categorisation of each Management Unit. For example, a block of forest which is 70% conifer and 30% broadleaf will be reported as "Conifer/Broadleaf mix".



## Rural broadband rollout

In January 2009 the Irish Government awarded the contract for the National Broadband Scheme to '3 Ireland'. This project aims to provide Ireland with universal broadband coverage by 2010. Coillte is in a position to facilitate this rollout by providing sites. Sites with the potential to contribute to this programme that are located in this forest may be found in the following District Electoral Divisions:

**DED NAME**CLIFFONY SOUTH
LISSADILL WEST



Forest Management Plan: Location Map

**FOREST CODE:** 

SO01

**Forest Name:** 

Benbulben

River Basin District

WRBD / NWIRBD



Proposed Clearfell Areas 2011 - 2015

Coillte Properties

Towns

County Roads

Streams

Lakes

Kilometers 0 0.5 1 2 1:125,940

29/09/2009