

North Devon Forest Plan 2019 - 2029West England Forest District

Ben Robinson FE File Ref: OP10/71 OLD Ref: PE34 & PE35





Declaration by FE as an Operator.

All timber arising from the Forest Enterprise estate represents a negligible risk under EUTR (No 995/210)





Application for Forest Plan Approval

Forest District:	West England FD			
Woodland or property name	Higher & Lower Molland, Sherracombe, Hunstone & Lowdy Long Wood, Kings Wood, Redlands, West Molland, Gatcombe, Beere, Smallacombe, Gourte Woods			
Nearest town, village or locality:	Brayford			
OS Grid reference:	SS 700 344	Lower Molland Access		
Local Authority District/Unitary Authority:	North Devon District Council Exmoor National Park			
Plan Area:	294.5 ha			
Conifer Felling: 28.9 ha				
Broadleaved Felling:	0.0 ha			

- 1. I apply for Forest Plan approval for the property described above and in the enclosed Forest Plan.
- 2. I confirm that the scoping, carried out and documented in the Consultation Record attached, incorporated those stakeholders that FE agreed must be included. Where it has not been possible to resolve specific issues associated with the plan to the satisfaction of consultees, this is highlighted in the Consultation Record.
- 3. I confirm that the proposals contained in this plan comply with the UK Forestry Standard.
- 4. I undertake to obtain any permissions necessary for the implementation of the approved Plan.

AUNANO Signed Forest Management Director Date Signed Area Director 15/11/19 Date of approval.....



Forestry Commission woodlands have been certified in accordance with the rules of the Forest Stewardship Council.

The mark of responsible forestry





List of Contents

PART 1 - Description, summary & objectives	
Application for Forest Plan Approval	2
Contents	3
Summary	4
Location	5
A 50 Year Vision	6
Management objectives	7
Meeting Objectives	8
PART 2 - Analysis & concept	
Analysis & Concept	9-12
PART 3 - Composition and future management	
Woodland Composition	13
Naturalness on Ancient Woodland	14
PAWS Management	15
PART 4 - Thinning, felling and future composition	
Silviculture	16
Felling and Restocking 2019-2029	17-18
Management Prescriptions 2019-2051	19-20
Restocking Prescriptions	21-22
Indicative Future Species, 2029	23
Indicative Future Species, 2049	24
PART 5 - Conservation, heritage and recreation	
Conservation—Natural and Cultural Heritage Features	25
Water & Riparian Management	26

APPENDIX 1: Management considerations Coupe Prescriptions Stock data - 2019 **APPENDIX 3: Supporting Informa** Glossary of Terms References **APPENDIX 4: Consultation Consultation Record**

	27
	28-31
ation	
	32-33
	34

35

Summary

About

The North Devon Forest Plan area is made up of numerous scattered woods mainly on steep sided valleys alongside the upper reaches of tributaries of the Rivers Mole and Yeo with the fertile valley bottoms being used for agricultural grazing.

The North Devon woodlands are situated a few miles to the north of South Molton in the parishes of Brayford, North Molton, Twitchen and Molland on the south western flanks of Exmoor. The local authority is North Devon District Council.

In earlier times the woods would have been managed as traditional oak coppice with standards to produce charcoal and building materials for local use. During the First and Second World War the woods were ravaged for their timber. Acquired by the Forestry Commission in the early 1960's and mostly cleared of the remaining broadleaves they were planted with conifers (Douglas fir, Sitka spruce, Japanese larch, western hemlock and some other minor conifers).

Much of the public forest here is ancient woodland having been planted with conifer to address the national timber shortage of the early Twentieth Century. The area is now known to produce quality fir and spruce log which makes up the majority of the tree cover here supplemented primarily with beech and larch. Areas of remnant ancient semi-natural woodland do remain and are made up of oak and birch with ash and beech. Most of the areas are actively managed to provide timber for local and national businesses, and to improve the quality of the remaining tree crop.

The Plan area is a rich for ecology with habitat such as Priority Lowland Mixed Deciduous Woodland used by for dormice, bats and raptor as well as other important flora and fauna species.

The much of the Plan area is leased and as such access is constrained to public rights of way, areas of freehold are Open Access, confirmed by the Countryside Rights of Way Act. The woodlands are quietly enjoyed by local walkers and cyclists, as well as popular shoots, both retained and let.

Objectives

The core aim of the Plan is to begin to progress the 50 Year Vision by producing woodlands which continue to sustainably produce timber whilst providing a forest rich in wildlife, attractive to people and increasingly resilient to climate, pests and diseases.

The social, economic and environmental objectives of management are:

- The continued production of sustainable and marketable woodland products.
- Protect and enhance woodland and open habitats and their associated species.
- To protect, enhance and restore areas of ancient woodland in line with the 'Keepers of Time' policy.
- The provision and maintenance of recreation facilities.
- Deliver well-designed forests that both protect and enhance the internal and external landscape in keeping with the local landscape character and Exmoor National Park.
- To conserve, maintain and enhance cultural and heritage assets.

The current plan outlines management proposals including felling and restocking over several decades, with felling licence approval for operations up until 2029.

The Plan makes provision to develop the complex and dynamic crop compositions of guality fir and spruce shelterwood forest. Areas identified as PAWS will be managed as mixed woodland to maximise their productive potential, with the aim of a gradual return to native woodland.

The Plan makes provision to ensure proposals are in keeping with the enclosed farmed and wooded landscape. Implementation and maintenance of an environmental corridor system will continue to increase diversity of habitat and internal landscaping.

The planned areas of clearfelling, restocking and permanent open space creation during the ten years to 2029 are summarised in the chart below.

HECTARES	Conifers	Broadleaves	Open space
Clearfelling	28.9	0.0	-
Restocking/Regeneration	15.7	9.5	3.7

In addition to these defined operations, ongoing thinning and selective felling of both conifers and broadleaves will be carried out in the plan area at five to ten year intervals.

The proportions of conifer and broadleaved woodland and open space at the beginning of the plan period are shown in the bar chart. The increase in native broadleaves within the plan period and over time is indicated in the middle and right hand columns of the chart.



North Devon Forest Plan 2019 - 2029 Page 4





© Crown copyright and database right [2019] Ordnance Survey [100021242]

0 1 2 4 6

Miles

8

North Devon Forest Plan 2019 - 2029 Page 5

	Foreatry Commission woodlands have been certified in outproducte with the rules of the Forest Stewardship Council.
The sector of th	



Location

The North Devon woodlands are situated a few miles to the north of South Molton in the parishes of Brayford, North Molton, Twitchen and Molland on the south western flanks of Exmoor. The local authority is North Devon District Council.

The North Devon Forest Plan area is made up of numerous scattered woods mainly on steep sided valleys alongside the upper reaches of tributaries of the Rivers Mole and Yeo with the fertile valley bottoms being used for agricultural grazing.

The majority of the land is at 120-200 metres above sea level and is undulating to steep in places. The climate is warm and fairly moist with an average annual rainfall of 800–1100mm, a soil moisture deficit of around 140mm, and an accumulated temperature over 5°C of 1800°C.

The soils across the North Devon Plan Area are primarily medium to rich and fresh typical brown earths with an underlay of gleying elements . Lower and Higher Molland and Sherracombe are situated upon a moist Upland Brown earth which has medium nutrient availability underlain by shallow rock.

A 50 Year Vision

The Vision for the future of the Plan area is bold but in keeping with Forestry England's key strategic goals and the local and national value which is placed on the area. Set against the backdrop of the landscape character whereby woodlands, mostly ancient and oak-dominated, cloak the steep coastal combes and inland valleys. Ancient parks and more recent conifer plantations are features of the lower slopes. This Vision looks to achieve an area which is a haven for wildlife, fun and commerce. A 'Key Opportunity' of the Landscape Character Area (Devon County Council, 2008) is to manage the area's conifer plantations for sustainable timber production and wildlife interest, creating new green links to surrounding semi-natural habitats. Explore their use as recreational spaces away from the more sensitive habitats. In 50 years time this Plan will look to have delivered a rich mosaic of robust habitats which supports a multitude of rare and common flora and fauna species as well as contributing to a low-carbon economy.

The conifer dominated forest will predominantly be managed through a mixture of clearfell and low impact silvicultural systems contributing to a vibrant woodland economy. Much of this will be restored overtime to native woodland to better reflect the historical cultural landscape. Rare and protected species, such raptors, badgers and bats will continue to call the forest home. The forest will also be a popular and safe place to come to exercise, learn and relax in a resilient natural environment. The trees will be valued not only for their ecological and social value but also as a timber product, water regulation and for carbon sequestration which as climate change takes effect will be of increasing importance. A diverse structure of young, thicket and maturing crops across the area will provide suitable continuous habitat over time.

Broadleaf woodland will grow in size and improve in condition as restoration to native cover takes affect in certain areas. Managed more sensitively but still with productivity in mind through thinning, these more secluded areas will become a haven for a multitude of micro habitats, species and ecosystem functioning. Veteran, mature and future significant trees will be retained and allowed to breakdown providing deadwood habitat and nutrient cycling. Everything from rare dormice and butterflies to lichens will enhance the contribution to ecology, cultural heritage and social value and to the wider landscape. Riparian areas will be enhanced through broadleaf intrusion and opened up to dappled shade to become invaluable to the quality and storage of water that passes through.

Ancient and native woodland, a key part of the Landscape Character, will feature more significantly in the area's makeup. Areas will be restored to oak dominated forest cover gradually to support the rare and protected flora and fauna species which populate these habitats. In addition to these, areas of conifer dominated forest managed through continuous cover forest techniques or clearfell/restock will become a home for numerous conifer and edge loving species such as bats, nightjar and raptors.

The considerable rides and roadside network will be wider than currently and support common and protected butterflies and other rotational scrub loving species. These areas will also be invaluable to the enjoyment of the area for people, creating windows into the wider forest and out into the landscape.

The 50 Year Vision outlined in this Plan will be delivered in part over the next 10 years through the Objectives outlined on pages 7 and 8 with the proposal and prescriptions following.



North Devon Forest Plan 2019 - 2029 Page 6





The continued production of sustainable and marketable woodland products.

The provision and maintenance of recreation facilities.

Deliver well-designed forests that both protect and enhance the internal and external landscape in keeping with the local landscape character and Exmoor National Park.

To conserve. maintain and enhance cultural and heritage assets.

PROTECTING AND EXPANDING ENGLANDS FORESTS AND WOODLANDS AND INCREASING THEIR VALUE TO SOCIETY AND THE ENVIRONMENT.

The objectives of this Plan will, in part, deliver the West England For-est District Strategic Plan (2013a) and the national Strategic Plan for the Public Forest Estate in England (2013b).

Sustainable management of the woodland will be to the standards re-quired to maintain FSC and PEFC accreditation and therefore must de-liver economic, environmental and social objectives.

lowing page.



Protect and enhance woodland and open habitats and their associated species

- To protect, enhance and restore areas of ancient woodland in line with the 'Keepers of Time' policy.







WEST ENGLAND FOREST DISTRICT

The meeting and monitoring of these objectives is outlined on the fol-

Forestry Commission woodlands have been certified in accordance with the rules of the Forest Stewardship Council.



Declaration by Forestry England as an Operator. All timber arising from the Forest Enterprise estate represents a negligible risk under EUTR (No 995/210)

Meeting Objectives



National Vision and Overall Goal:

To secure and grow the economic, social and natural capital value of the Public Forest Estate for the people of England.

District Strategy			
	Forest Plan Objective	Meeting Objective	
Economy Maintain the land within our stewardship under FSC/PEFC certification. Improve the economic	The continued production of sustainable and marketable woodland products.	The majority of the Plan area will remain productive through thinning yield. Some clearfell timber production of mature crops will occur, majority from the conifers.	Comp (2019 produ revie
resilience of our woods and forests. Encourage and support business activity on the Estate Nature Improve the resilience of the natural environment of the	Protect and enhance woodland and open habitats and their associated species. - To protect, enhance and restore areas of ancient woodland in line with the 'Keepers of Time' policy.	Appropriate reinstatement works will be carried out once operations have been concluded.Protection and enhancement of water supplies and soil quality through sensitive implementation of operations and improved restocking practices.Restoration of ancient woodland through a gradual thinning processRaptor numbers will be maintained.	Opera opera mana Ongo post Analy Meas surve
Realise the potential of the Public Forest Estate for nature and wildlife. Maintain and improve the cultural and heritage value of the Estate.	The provision and maintenance of recreation facilities.	Visitor numbers will be maintained. Road and ride corridor and car park aesthetics enhanced and maintained. Felling together with a delayed restock program will continue to diversify stand and age structure. Viewpoints enhanced and maintained at time of intervention, where possible.	Visito wher
People Maintain existing established consultation panels and engage with other consultative bodies such as National Park	Deliver well-designed forests that both protect and enhance the internal and external landscape in keeping with the local landscape character and Exmoor National Park.	Implementation of proposals will soften and better integrate the woodland with the surrounding landscape	Fixec stage
Authorities and AONBs. Provide high quality woodland based recreational opportunities for people and business focusing on the 3 principle Forest Centres.	To conserve, maintain and enhance cultural and heritage assets.	Protect and enhance unscheduled sites at the time of intervention.	Opera opera mana



PSC tecnolistic



Monitoring

parison of total production forecast yield 3,500m³ 9-2021) and 8,000³ (2019- 2029) with actual uction at the Forest Plan (FP) five and ten-year ew.

ational site planning of harvesting and restocking ations will help monitor the effect of agement.

bing monitoring of soil and water quality pre and harvesting with input from outside stakeholders.

ysis of naturalness scores at Review stage

sured at Review stage through analysis of ongoing eys and records.

or feedback comments, to be included in Review re appropriate.

d point photography analysis at Forest Plan review

ational site planning of harvesting and restocking ations will help monitor the effect of agement.

Lower and Higher Moll and, Hunstone and Lowdy

The woods clustered around Brayford and the A399 road are mainly on steep sided valleys and valley bottoms alongside the upper reaches of the River Bray, a tributary of the River Taw.

The soils are deep and medium/rich, predominantly loamy brown earths. Whilst the climate is mild, wet and sheltered creating the ideal conditions for growing productive tree crops.

Much of the woodland cover is ancient W10 and W16 oak woodland which has been coniferised following the Second World War. The woodlands remain a haven for birds of prey such as goshawk and buzzard, as well as raven whilst the watercourses are valued spawning grounds for salmon and trout.

All of these woodlands are freehold, and as such open access. Higher Moll and is particularly popular with locals for walking. A permissive footpath, part of the Tarka Trail long distance path, runs through this wood.

Lower and Higher Moll and, Hunstone and Lowdy are all freehold woodlands, dedicated with open access. A shoot is let across the woodlands in this area.

The objective in these woodlands is to gradually restore to native tree cover and associated ecosystem functioning where registered as ancient woodland. This will be done using a number of silvicultural methods, specifically addressing threats and long term sustainability

concerns first. On sites not registered as ancient woodland productive conifer production will be pursued, both through clearfell and lower impact silvicultural system methods.

Analysis: Mature and exposed Japanese larch has now reached terminal height.

Concept: Proposals will look to minimise the risk of catastrophic windblow, and disease infection through targeted felling and restocking.

landscape.





0 0.075 0.15









Analysis: Following the compulsory felling of diseased larch crops, a number of recently restocked areas have been

Concept: Appraisal of whether further work to improve the integrity and resilience of the site will ensure that this small woodland is protected and fit for the future.

Analysis: Dense, young conifer is situated in the riparian area and directly adjacent to the watercourse, threatening ancient

Concept: The management of this area will be sympathetic to ecosystem services and riparian condition. This will be through the clearfelling of the crop, in time and then creation of patchy open space and broadleaf cover.

Analysis: A considerable area of previously coniferised riparian woodland is found through the bottom of valley and woodland. These are now becoming scrub transient woodland.

Concept: These areas will be managed sympathetically to improve their ecological and hydrological contribution and condition.

Analysis: Almost the entirety of Lower Moll and is registered ancient woodland and was most likely managed as ash and oak with hazel coppice in the past. All of these areas are now conifer and

Concept: Proposals will outline a plan of restoration to native species cover in line with Keepers of Time policy. This will be achieved through a process of thinning out the conifer to favour ancient woodland features and native regeneration.

Analysis: A number of watercourses traverse the forests and then feed into the River Bray and then Taw. These are important spawning and nursery streams for salmon and brown trout

Concept: Prescriptions will be sensitive to the important part the forests play in water management. This will be through targeted removal of some overly shade bearing conifers and management towards 50% open 50% dappled shade, provided by regenerated

Euro

Ailes

0.6

0.45

0.3

Sherracombe and Long Wood

Located just north of North Molton, Sherracombe and Long Wood lie in valley bottoms which feed into the River Bray. Both of these rich historic woodlands lie within the Exmoor National Park, are freehold and open access.

The soils are thinner than the other sites and slightly less rich. The climate is mild and wet still creating the ideal conditions for growing productive tree crops. Remnants of the pedunculated oak dominated Lowland Mixed Deciduous Forest remain with birch as a sub-species type W16 which followed before coniferisation. The woodlands also contain a number of significant trees.

The main objective within the ancient woodland areas is restoration to native species cover and the associated ecosystem functioning in an economically efficient way; that is through the tackling of immediate threats and then gradual removal of non-native trees in favour of native species. In other areas the continued production and diversification of timber species will be pursued whilst maintaining a woodland valued for biodiversity, recreation and amenity. Miles

0 075 0 15

03

0.45

0.6



North Devon Forest Plan 2019 - 2029

Page 10

© Crown copyright and database right [2019] Ordnance Survey [100021242]

Redlands, West Molland and Gatcombe

The woods to the west of the village of Molland are mainly small isolated blocks within deeply incised combes. The valley bottoms are predominantly treeless alongside the River Yeo which flows into the River Taw.

The soils are deep and medium richness, predominantly loamy brown earth. Whilst the climate is mild, wet and sheltered creating the ideal conditions for growing productive tree crops.

Most of the woodland is ancient pedunculate oak coppice, W16 which has been coniferised following the timber shortage after the wars. The woodlands remain a haven for birds of prey such as goshawk and buzzard, whilst the watercourses are valued spawning grounds for salmon and trout.

The woodlands are leasehold and as such access is constrained to public rights of way. A shoot is retained by Molland Estate across the woodlands which prefer open site lines, and valley floors as well as variety of crop structures.

The main objective here is to gradually restore the woodlands to native tree cover and the associated ecosystem functioning whilst maintaining timber output and habitat conditions and delivering the other objectives of the Plan. This will be done using a number of silvicultural methods, primarily through thinning but also specifically addressing threats and long term sustainability concerns first.

Miles

0.6

© Crown copyright and database right [2019] Ordnance Survey [100021242]

0.45

0.3

0.075 0.15

Analysis: The Exmoor National Park boundary passes close to the woodlands here.

Concept: The National Park Authority will be consulted on management to ensure proposals are in keeping with the character and aspirations of the National Park.

Concept: Proposals will outline a plan of restoration to native species cover in line with Keepers of Time policy. This will be achieved through a process of thinning out the conifer to favour ancient woodland features and native regeneration.

Analysis: Dense, mature and seeding conifer species are situated on the eastern slopes and combes of Gatcombe, threatening ancient woodland restoration.

Analysis: The bottom of the valleys are predominantly open and grassy, surrounded by steep wooded slopes, making ideal management and driven birds conditions.

Concept: The management of this area will be sympathetic to the multiple purposes and needs of the woodland as well as the riparian and biodiversity value.

S/ West

Analysis: A number of watercourses traverse the forests and then feed into the River Taw. These are important spawning and nursery streams for salmon and brown trout

Concept: Prescriptions will be sensitive to the important part the forests play in water management. This will be through targeted removal of some overly shade bearing conifers and management towards 50% open 50% dappled shade, provided by regenerated broadleaves.

North Devon Forest Plan 2019 - 2029 Page 11

Analysis: Almost the entirety of the woodlands are Ancient Woodland and was most likely managed as ash and oak with hazel coppice in the past. All of these areas are now conifer and therefore PAWS.

Concept: The management of this area will be sympathetic to ecosystem services and riparian condition. This will be through the clearfelling of the crop, in time and then creation of patchy open space and broadleaf cover.

Analysis: Following catastrophic windblow in spruce crops, a number of recently restocked areas have been created.

Concept: Appraisal of whether further work to improve the integrity and resilience of the site will ensure that this small woodland is protected and fit for the future.

Kings Wood, Beere, Smallacombe and Gourte Woods

The woods clustered around the village of Moll and are mainly small isolated blocks on steep sided valleys alongside tributaries of the River Yeo.

The soils are thinner than the other sites and slightly less rich. The climate is mild and wet still creating the ideal conditions for growing productive tree crops.

Most of the woodland is registered as ancient having been coniferised

following the Second World War. The woodlands remain a haven for birds of prey such as goshawk and buzzard, whilst the watercourses are valued spawning grounds for salmon and trout.

The woodlands are leasehold and as such access is constrained to public rights of way. A shoot is retained by Moll and Estate across the woodlands.

The objective in these woodlands is to gradually restore to native tree cover and associated ecosystem functioning where registered as ancient woodland. This will be done using a number of silvicultural methods, specifically addressing threats and long term sustainability concerns first whilst maintaining timber output. On sites not registered as ancient woodland productive conifer production will be robustly pursued, predominantly through clearfell/restock given the limited access.

Analysis: A number of watercourses traverse the forests and then feed into the River Yeo and ultimately River Taw.

Concept: Prescriptions will be sensitive to the important part the forests play in water management. This will be through targeted removal of some overly shade bearing conifers and management towards 50% open 50% dappled shade, provided by regenerated broadleaves.

Analysis: Much of the woodland is Ancient Woodland and was most likely managed as ash and oak with hazel coppice in the past. The majority of these areas are now conifer and therefore PAWS.

Concept: Proposals will outline a plan of restoration to native species cover in line with Keepers of Time policy. This will be achieved through a process of thinning out the conifer to favour ancient woodland features and native regeneration.

© Crown copyright and database right [2019] Ordnance Survey [100021242]

Legend

North Devon Forest Plan 2019 - 2029 Page 12

Analysis: Typical remnant Lowland Mixed Deciduous Woodland, also registered ancient semi-natural woodland is found to the north of Gourte Wood. It is oak dominated NVC type W10.

Concept: The management of this area will be to preserve and protect them in perpetuity, through occasional and low impact intervention to build resilience and ecosystem functioning

VIII

Analysis: A number of isolated stands of pure Douglas fir are found on secondary woodland.

Concept: The management of these areas has been and will continue to need to be robust given the limited access and a non thin management approach. This may also be required on similar PAWS sites.

Analysis: Remnants of an old Limekiln dating from C18-19th century can be found close to the entrance and quarry at Zeal Wood.

Concept: This area will be protected and enhanced further where possible at the time of intervention, in consultation with the County Archaeology team.

Analysis: Access is extremely constrained for a number of blocks. This is usually to inadequate routes into and within the woodland, but can also be due to uneven and excessively steep gradient

Concept: The management of these areas has been and will continue to need to be robust given the limited access and minimal thinning volume.

Woodland Composition

The Plan area is dominated by conifer with some ancient seminatural and native broadleaf remnants. The majority of conifer component are made up of quality Douglas fir and Sitka spruce, with Japanese larch and Norway spruce the major supplementary species.

Whilst the age of conifer crops is somewhat varied the majority are concentrated into one period with considerable planting having occurred in the 1960s. In places the thinning of conifer crops has ensured that understorey development is beginning to establish, which in time will deliver a more structurally diverse woodland composition. In other areas, constrained access has meant that some crops have been neglected and are no longer thinnable.

The broadleaf components of the Plan area comprise a mixture of ancient semi-natural oak and ash assemblages as well as beech plantation and intruded elements and edges to the conifer crops. The overall broadleaf composition is predominantly made up of ash, oak and beech. With birch, hazel and alder evident as pioneer species within discrete, often wetter areas of the Plan area. Broadleaf crops vary in age with significant planting and regeneration establishment occurring in the early 1900 s. The majority of stands are even aged with understory development evident but not always establishing as a secondary crop. Where broadleaf features within conifer crops these have been favoured and halo thinned where appropriate to assist crown development.

Non-native Felled Open

Legend

Note: Beech, sycamore and sweet chestnut are considered to be not within their native range but are considered to be 'naturalised'

North Devon Forest Plan 2019 - 2029 Page 13

Class 1 - <u>Semi-Natural Woodland</u> (> 80% site native species)

Class 2 - <u>Plantation Woodland</u> (50 - 80% site native species)

Class 3 - <u>Plantation Woodland</u> (20 - 50% site native species)

Class 4 - <u>Plantation Woodland</u> (< 20% site native species)

 $\ensuremath{\mathbb{C}}$ Crown copyright and database right [2019]

Legend

© Crown copyright and database right [2019] Ordnance Survey [100021242]

Naturalness on Ancient Woodland

Naturalness is the measure to show the percentage of site native tree species in a given area. This measure is used to record and monitor the naturalness and restoration of Ancient Woodland Sites previously planted with non-native species.

Classes 2, 3 and 4 are classified as Plantations on Ancient Woodland Sites (PAWS). Areas of Semi-Natural Woodland (Class 1 -> 80% site native species) are mostly found towards the bottom of valleys, in wetter riparian areas where the soils are richer.

The transformation of Classes 2, 3 and 4 AWS towards Class 1 is a key objective of this Plan and is in line with Forestry England, *Keepers of Time* Policy (Forestry Commission, 2005).

PErc

Transition Zone

The indicative proportion of native tree species is 50% or more of the crop. Removal of remaining conifer will be achieved through repeated thinning

operations.

The establishment period to predominantly native woodland within this category is anticipated to be 20 - 30 years but is dependant on successful regeneration and establishment although maybe sooner depending on the level of conifer needing to be removed. Scattered individual conifers or small groups may remain.

Preparation Zone

Areas within this category contain less than 50% of native tree species but have a proportion greater than 20% of the crop and the area

neighbours an area of significant native species cover which can be utilised as a seed source. Enhancement of native content will continue through thinning of the conifer content.

These areas will be thinned heavily to release ancient woodland remnants and features and to encourage natural regeneration and intrusion in to the non-native crop.

The anticipated time scale for establishment of predominantly native species is expected be around 50 - 60 years or so, but could be as long as 70 - 80 depending on success of establishing the future crop.

Non-native Zone

The proportion of native tree species within a management area is less than 20% of the crop. Thinning in both these sub-categories should

encourage crown development of broadleaf components. Progress will be monitored and crops moved into the Preparation zone depending on development of stand structure and the response of natural regeneration.

Clearfell Zone

Seven clearfells will be used to convert PAWS four of which are within this Plan period. These fellings of the heavust shade casting areas are usually within the

bottom of valleys or where crops are totally unthinnable. These areas will be restocked with site suitable native species.

PAWS Management

Restoration of Plantations on Ancient Woodland Sites (PAWS) has already begun and this continued restoration is going to take a considerable amount of time and resource because of the limited native remnants from which sites can regenerate.

Therefore a proactive yet realistic approach will be used to transform these sites over a period of time. The aim of the transitional period to woodland containing 80% or more of native species should be to achieve:

a varied age structure with varying ratios of high canopy, secondary canopy and understory throughout.

transition that ensures a minimum future content of 3 native species, with 4 to 5 species being the preferable target.

• a minimal reliance on monocultures especially of birch, ash, hazel or oak. In practice this may involve either underplanting or group felling and planting within existing mid rotation broadleaf crops.

• restoration of beech and sweet chestnut stands will not be prioritised as these species are to be naturalised and offer greater broadleaf diversity and therefore resilience.

• If adequate regeneration is not evident in the 'Transition' and 'Preparation' zones after 10 years a reappraisal of the prescription will be needed.

North Devon Forest Plan 2019 - 2029

Page 15

Silviculture

Clearfell coupes will simply be managed through clearcutting (of over 0.25ha) and restocked either through natural regeneration, replanting or a combination.

Long term retentions are in place where the conifer elements of the landscape or ecological value of the woodland is key.

Minimum Interventions are predominantly inaccessible or ecologically valuable areas where intervention will only occur to protect and ensure the future succession of key habitats and species.

Open space is managed to ensure forest cover does not exceed 2m in height, a tolerance of 20% forest cover will be accepted on some lower priority sites.

Uniform shelterwoods are predominately broadleaved dominated and ASNW sites which will be managed using seeding fellings with possible under planting of site suitable species to control light levels and develop good timber quality. Small coppice coupes of less that 0.25ha may be used to inject diversity into the broadleaf woodland

Irregular shelterwoods will look to develop a complex CCF structure through the identification and thinning towards quality final crop trees for the future.

Group selections are used on windfirm, accessible crops to proactively diversify the woodland structure and composition, possibly through the use of enrichment replanting.

Ordnance Survey [100021242]

Thinning

Broadleaf Thinning Broadleaf high forest will be assessed for thinning every 10 years with a visual inspection of the stand. Thinning will allow sub-dominant broadleaves sufficient light and space to mature or will release existing advanced regeneration. Younger patches of regeneration can be thinned to favour site native species with trees of good form and vigour being retained. Where broadleaves consist primarily of a single species, it may be possible to enlarge natural gaps through irregular thinning rather than create new gaps through group felling, however, in all cases the size of gap will be dependent on slope, aspect and site fertility and must not be detrimental to crop stability.

Areas will be assessed and approved for thinning on a site -by-site basis by the local Beat Team. As attempts to improve the structural diversity of the crops are made. initiation of thinning may be made early (uneconomic) or later to address windfirm concerns. The intention to intervene every 5 years as well as on multiple occasions may not be appropriate and therefore will be administered in an adaptive approach by the Beat team.

Conifer Thinning

Areas of conifer are assessed for thinning every 5 years with the targeted removal of larch species a key objective. Other factors such as the quantity, condition, age and distribution of any broadleaf content, will also help decide if an area of conifer is to be thinned or not, with light levels, existing ground vegetation and any evidence of natural regeneration also impacting on how many trees are marked for removal.

- Clearfell
- Long Term Retention
- Shelterwoods
- Selections
- Open
- Minimum Intervention

Felling and Restocking Brayford and North Molton 2019 - 2029

Legend

Fell 2019 - 2021 Fell 2022 - 2026 Fell 2027 - 2029 Group selection Coppice Conifer Retention Wood Pasture Minimum Intervention Natural Reserve Open ---- Class A/B Roads ---- Class C Roads

NB. Whilst 'Restock Proportion' is often prescribed at 100-90% Evergreen Conifer the use of suitable broadleaves to build in resilience and utilise site conditions is anticipated and in places is proposed.

Proposed species 70% Sitka spruce (>2,500 stems/ha)

20% Noble fir (>2,500 stems/ha)

Declaration by Forestry England as an Operator.

All timber arising from the Forest Enterprise estate represents a negligible risk under EUTR (No 995/210)

© Crown copyright and database right [2019] Ordnance Survey [100021242]

Felling and Restocking Molland Estate 2019 - 2029

Legend

- Fell 2019 2021
- Fell 2027 2029 Group selection Coppice Conifer Retention Wood Pasture Minimum Intervention Natural Reserve Open

Fell 2022 - 2026

- Class A/B Roads
- ---- Class C Roads

NB. Whilst 'Restock Proportion' is often prescribed at 100% Evergreen Conifer the use of suitable broadleaves to build in resilience and utilise site conditions is anticipated and in places is proposed.

All timber arising from the Forest Enterprise estate represents a negligible risk under EUTR (No 995/210)

© Crown copyright and database right [2019] Ordnance Survey [100021242]

North Devon Forest Plan 2019 - 2029 Page 19

	forestry Commission woodlands have neen certaint in usual during with the rules of the Forest Stewardship Council.
The posts of second second se	

Management Prescriptions 2019 - 2051

An outline of the intended management prescriptions for the Plan area for the next 30 years, including silvicultural, felling and open proposals.

Legend

Do't 7

:::::	Low Impact Silvilcultural System
	Fell 2019 - 2021
	Fell 2022 - 2026
	Fell 2027 - 2031
	Fell 2032 - 2036
	Fell 2037 - 2041
	Fell 2042 - 2046
	Fell 2047 - 2051
	Fell beyond 2051
\bigotimes	Group selection
$\boxtimes \boxtimes$	Coppice
× × × × × × ×	Conifer Retention
	Wood Pasture
	Minimum Intervention
	Natural Reserve
	Open
	Class A/B Roads
	Class C Roads

All timber arising from the Forest Enterprise estate represents a negligible risk under EUTR (No 995/210)

© Crown copyright and database right [2019] Ordnance Survey [100021242]

North Devon Forest Plan 2019 - 2029 Page 20

Management Prescriptions 2019 - 2051

An outline of the intended management prescriptions for the Plan area for the next 30 years, including silvicultural, felling and open proposals.

Legend

	Low Impact Silvilcultural System
	Fell 2019 - 2021
	Fell 2022 - 2026
	Fell 2027 - 2031
	Fell 2032 - 2036
	Fell 2037 - 2041
	Fell 2042 - 2046
	Fell 2047 - 2051
	Fell beyond 2051
\boxtimes	Group selection
\bigotimes	Coppice
(Conifer Retention
Ĩ	Wood Pasture
	Minimum Intervention
	Natural Reserve
	Open
	Class A/B Roads
	Class C Roads

All timber arising from the Forest Enterprise estate represents a negligible risk under EUTR (No 995/210)

© Crown copyright and database right [2019] Ordnance Survey [100021242]

Restock Prescriptions

An outline of the intended restocking prescriptions through planting or natural regeneration for the next rotation, following the removal of the current stock.

Legend

Conifer dominated forest Broadleaf dominated forest Open/other Class A/B Roads

Class C Roads

All timber arising from the Forest Enterprise estate represents a negligible risk under EUTR (No 995/210)

© Crown copyright and database right [2019] Ordnance Survey [100021242]

Restock Prescriptions

An outline of the intended restocking prescriptions through planting or natural regeneration for the next rotation, following the removal of the current stock.

Legend

Conifer dominated forest Broadleaf dominated forest Open/other Class A/B Roads

Class C Roads

All timber arising from the Forest Enterprise estate represents a negligible risk under EUTR (No 995/210) 33%

Indicative Future Species 2029

The projections made are indicative of species composition in ten years time. They do not constitute a guarantee and merely act as an indicator of how the vision for the Plan area will be delivered over time.

Ailes

naturalised broadleaves 38%

Declaration by Forestry England as an Operator.

All timber arising from the Forest Enterprise estate represents a negligible risk under EUTR (No 995/210)

	Forestry Commission woodlands have neen certified in accordance with the rates of the Forest Stewardthip Council.	PERC
New search of second se		- una de capación en especialmente

Indicative Future Species 2049

The projections made are indicative of species composition in thirty years time. They do not constitute a guarantee and merely act as an indicator of how the vision for the Plan area will be delivered over time.

Conservation - Habitats and Features

The Forest Plan area is used by an array of common and rare flora and fauna some of which are highlighted below. On the other hand some non-native flora and grazing fauna species can have a detrimental impact on the forest and its features if their numbers are too high. Species such as rhododendron, wild deer and squirrel will all be managed in line with District Strategy to ensure that their pressure does not have a negative impact on the condition of habitats and crops.

The introduction of new palatable tree species, in the bid to diversify the forest structure means that deer and small mammal impact will need to be taken into account. It is likely that protection and control will need to be increased and strategically targeted. This could include fencing, planting design and new deer glades which could be created following felling.

Bats and a number of suitable bat roosting points are located within the Plan area. These will be maintained into the future following Guidance (FC & NE, 2013b). Unscheduled Monuments - are found across the Plan area, demonstrating its rich cultural and industrial significance. These features include old quarries, lime kilns, leats and iron works.

These features and the internal surrounding landscape needs to be preserved, and enhanced where possible, to retain and develop the Plan Area's cultural heritage. All unscheduled monuments will be identified and treated sympathetically at the time of operation in consultation with the County Archaeology team. **Raptor** are known to nest and hunt within the forest areas. Herons are also known to regularly nest in the woodlands. Many of these species choose to rest in high well branched conifer trees and then feed over open ground, making the forests ideal raptor habitat in an otherwise varied landscape. The management of appropriate large or potentially large trees for long

retentions will ensure that habitat provision is maintained.

Streamsides and wet woodland found at the bottom of hollows and small valleys remain predominantly willow dominated broadleaf woodland. The majority of these sites will be managed at the time of intervention to aid the recruitment of suitable wet woodland species such as alder, willow and birch encouraged as well as patchy open space to create dappled shade and light penetration.

Road and rides sides will conform to the prescriptions outlined in the District document, Design and Management of Environmental Corridors (Lucas, 2006). The road and ride network within the Plan area will be utilised to extend and connect ride side habitats and transient open spaces, this will be achieved through targeted widening and unstocking of edges to some coupes following felling operations to create a mixed transient open and scrubby habitat for a multitude of species. In practice this means that regenerating vegetation on road sides will be regularly cut where access is easiest to create a dynamic edge habitat which the likes of Lepidoptera, insects and small birds choose to inhabit. Whilst wetter and less well used rides which are not used for deer control will be allowed to regenerate to provide habitat and linkage for a variety of species.

Lowland Mixed Deciduous Woodland_is found across the Plan area. These are predominantly made up of Sessile oak, ash, birch and beech. Some evidence of coppicing of hazel exists and looks to reassert. Management of these areas will be sensitive to ensure the

North Devon Forest Plan 2019 - 2029 Page 25

quality is maintained in perpetuity. Thinning will be reviewed on a ten yearly cycle with the aim of enhancing and improving the condition of the habitat. Removal of invasive or un-suitable species, such as laurel, rhododendron or Western hemlock will ensure that this habitat is maintained and used as a building block for future native broadleaf restoration.

Water & Riparian Management

Riparian Management

All watercourses and riverine areas will be management sensitively to protect and enhance water and soil quality in line with best practice. Riparian zones will be developed to create and maintain areas of up to 50% continuous forest cover through gradual regeneration or enrichment with site appropriate tree species, such as Alnus, Salix and *Ulmus* spp. A gradual change to this type of wet woodland habitat through coppicing at the time of intervention (usually clearfell), will create a environment of dappled shade with good light penetration and aeration as well as buffer the riverine systems from forestry operations.

Clearfells within the area have been designed and phased to minimise surface water runoff and soil erosion ensuring the riverine systems are protected and improved into the future. All felling and restocking operations will work within the guidelines set out in UKFS, Forests and Water with the aim of developing further riparian areas at the time of intervention to stimulate native species regeneration.

The North Devon Plan area is a component of for the Bray and Mole and then the River Yeo catchment therefore soil stabilisation and surface runoff, retaining forest cover and a move towards continuous cover systems together with maintained drains and water storage will ensure this continues to slow down peak flows into the future.

© Crown copyright and database right [2019] Ordnance Survey [100021242]

Legend

South West Catchment District

Just over 3 million people live in the South West River Basin District. The economy is dominated by the service sector, and each year millions of visitors to the district make a vital contribution to the economy. However, the resulting seasonal fluctuations in population bring challenges for protecting the water environment, especially in coastal areas.

The district has a huge network of internationally, nationally and locally recognised wildlife sites, from the uplands of Dartmoor and Exmoor and outstanding rivers such as the Camel and Hampshire Avon, to the fantastic estuaries and coastline. There are two national parks, and the Jurassic Coast in Devon and Dorset is the only natural world heritage site in England.

The farming and land management sector has a big role in looking after and improving the quality of the rural environment. Agriculture accounts for approximately three quarters of the land area in the South West River Basin District.

North Devon Forest Plan 2019 - 2029 Page 26

	Foreatly Commission woodlands have been notified to occordance with the roles of the Foreat Stewardship Council.
The sector of	

North Devon Basin

The North Devon catchment covers an area of some 2,300 km sq (900 square miles) and includes the areas drained by the River Taw and River Torridge and their tributaries, and the North Devon Coastal Rivers that flow directly into the sea. Annual rainfall ranges from more than 2,300mm (90in) in the upland areas of Dartmoor and Exmoor to 800mm (31in) at the coast.

North Devon is a catchment with varied landscape, including the rare Culm grasslands, marshland, parts of the two National Parks of Exmoor and Dartmoor, and woodlands. Much of the countryside in the catchment is recognised for its environmental and cultural value including an Area of Outstanding Natural Beauty (AONB) and 500 Scheduled Monuments.

There are 130 river water bodies in the catchment, with a combined length of almost 1000 km, and eight lakes. Currently, 35 per cent of surface waters (284 km or 28 per cent of river length and six lakes which represent three quarters of the total) achieve good or better ecological status/potential. Waters at good ecological status now include the East and West Lyn, the Hole Brook and the river Dents. The main reasons for less than good status are, in order, high levels of phosphate, physical modification, impacted fish and diatom communities and high zinc concentrations. per cent of waters assessed for biology are at good or high biological status now.

Detailed coupe prescriptions as a result of felling and restocking 2019-29 as outlined on pages 17-18.

	Coupe	Area (ha)	Existing Crop	Rationale/Prescription	Restock	Area (ha)	Restock Proportion	Rationale/Pres
Hunstone	71013	5.17	p.54 JL	Crop has reached maturity, is located on an ancient woodland site and continues to pose a plant health concern. Given its limited accessibility and proximity to large public roads clearfelling is appropriate over gradual thinning out of conifer.	71013a	5.17	90% Ev. conifer 10% Open	Site is mildly a somewhat limi pine, and Orier
	71012	2.19	p.55 NS p.55 WH	Stand is at economic maturity. With the high wind exposure, limited access and high landscape impact clearfell is the most appropriate form of felling with coupe design integral to success.	71012a	2.19	90% Ev. conifer 10% Open	Site is acidic a should be pursu access and pro and alder.
	71011	2.09	p.58 DF	Stand is well thinned and at economic maturity. With poor access , continued thinning to CCF is not feasi1le with clearfell is the most appropriate form of felling to aid thinning of the wider forest.	71011a	2.09	90% Ev. conifer 10% Open	Site is richer a loamy brown e sympathetic to Sitka spruce ar
Lower M	71006	0.82	p.64 WH	Crop is mature and seeding freely compromising the ancient woodland condition. Continued thinning will only exacerbate the issue therefore clearfelling is most appropriate .	71006a	0.82	90% N. broadleaf 10% Open	Restocking sho Native woodlar mixture of plar planting oak, c
olland	71009	3.60	p.2000 SS	Stand is within the riparian corridor and casting heavy shade onto riparian wet woodland having a detrimental impact, premature felling required.	71009a	3.60	70% N. broadleaf 30% Open	Site should be locally sourced component.
Gatcombe	71024	4.08	P.61-77 MC	Site is wet and underthinned causing windthow risk and lack of light in riparian area. Removal of mature crop will ensure economic value is achieved. Intruded broadleaves should be retained where possi1le to protect watercourse.	71024a	4.08	90% N. broadleaf 10% Open	Restocking sho Native woodlar mixture of plar planting oak, c
Sherracombe	71004	3.61	p.54 SS p.54 NS	Stand is well thinned and at economic maturity. With poor access and unsuitable species on site for the future, continued thinning to CCF is not feasible with clearfell is the most appropriate form of felling to aid thinning of the wider forest.	71004a	3.61	90% Ev. conifer 10% Open	Site is fairly ric production sho be robust to er sympathetic to profile. Consid
Kings Wood	71036	4.37	p.71 SS p.62 DF	Stand is well thinned and at economic maturity. With limited access and continued thinning to CCF not feasible with clearfell is the most appropriate form of felling.	71036a	4.37	90% Ev. conifer 10% Open	Site is relative therefore likely productive con be pursued. Co spruce.
Long Wood	71010	33.14	p.69 DF P.69 SS	Group Selection Up to 6 group fellings totalling 3.0 ha within Plan period will be used to diversify Douglas fir and Sitka spruce structure and accelerate native woodland cover restoration.	71010a	3.0	90% N. broadleaf 10% Open	Site is relative Site is ancient species using N Pedunculate of

Coupe Prescriptions

North Devon Forest Plan 2019 - 2029

Page 27

scription

cidic and moist with soils thin brown earths ting conifer species choice. Consider Scots ntal and Sitka spruce.

nd moist to wet, continued conifer production ued with stocking robust to enable efficient duction. Consider Oriental spruce, Sitka spruce

nd fresher than the other close sites, on deep arth. Productive forestry should be pursued. the sites complexities. Consider Douglas fir, nd Coast redwood.

uld use NVC type and site indicators as a guide. nd restoration should be pursued through a nting and natural regeneration. Consider herry and field maple.

allowed to naturally regenerate to create native wet woodland with a high open

uld use NVC type and site indicators as a guide. nd restoration should be pursued through a nting and natural regeneration. Consider herry and field maple.

ch and well drained and continued conifer uld be pursued. So restock design will need to nable efficient access and production but the sites complexities and high landscape er Coast redwood, Sitka spruce and Douglas fir.

ly sheltered but most is north facing and y to be cold. Planting of relatively hardy ifer species which thrives on rich soils should nsider Douglas fir, coast redwood or Serbian

ly rich and well drained loamy brown earths. woodland and must be restocked with native IVC type as defining palette. Consider ak in clusters, with hornbeam and Wild service.

Stock Data 2019 Higher and Lower Moll and

0 0.075 0.15

North Devon Forest Plan 2019 - 2029 Page 28

Hunstone and Lowdy

© Crown copyright and database right [2019] Ordnance Survey [100021242]

0.3

0.45

0.6

North Devon Forest Plan 2019 - 2029 Page 29

eating Communication editionals have on certifient in and ance with the conductive Council wordship Council

© Crown copyright and database right [2019] Ordnance Survey [100021242]

Stock Data 2019 Redlands and West Moll

Legend

North Devon Forest Plan 2019 - 2029 Page 30

Kings Wood

 Miles

 0
 0.075
 0.15
 0.3
 0.45
 0.6

© Crown copyright and database right [2019] Ordnance Survey [100021242]

Stock Data 2019

Smallacombe and Zeal

Legend

North Devon Forest Plan 2019 - 2029 Page 31

early Communities adjunds have on certified in ordance with the os of the Forcet wordship Council.

 Image: Constraint of the second sec

Term	Abbreviation	Description
Ancient Semi- Natural Wood- land	ASNW	An ancient woodland site, where trees and other plant species appear to of established naturally rather than having been pla these sites will contain 80% or over of site native species or species native to the surrounding area.
Alternatives to Clearfell	ATC	Alternative to Clearfell is similar to CCF and refers to management systems where stands are regenerated without clearfellin
Ancient Wood- land Site	AWS	A site that has technically been wooded since 1600AD and is unlikely to have been converted to farmland in the last few cent
Continuous Cov- er Forestry	CCF	Continuous Cover Forestry is an approach to forest management that enables an owner of woodland to manage the woodland clearfelling. This enables tree cover to be maintained, usually with one or more levels and can be applied to both conifer or Conifer it is possible to regenerate the crop a lot faster than in broadleaf crops, where the canopy is generally removed a lot longer time span. A decision to use CCF must be driven by management objectives and will have long-term vision often aime verse forest, both structurally and in terms of species composition. There are no standard prescriptions meaning CCF is very portunities can be taken advantage of as they arise. This development of a more diverse forest is a sensible way to reduce the changes in the climate and biotic threats.
Clearfell	C/F or CF	To cut and remove all trees from a certain area of woodland.
		A stand of trees. Often associated with stands completely or partially managed for its timber.
Сгор		Just as farmers manage crops so does forestry the only difference is a farmers' rotation is shorter and often realised in 1 year er term crop with rotations varying from 6 years to 400 years. (also see definition for rotation)
Enrichment planting		Planting different species within areas of regen that helps diversify the range of species in a wood and in doing so can make i climate change and future threats from disease. Enrichment may be desirable in areas where success of regeneration is uneven, patchy or where a regen crop is limited by the sent.
Group felling / group planting		This is where small areas of woodland are felled hence the name "group felling" and then either allowed to develop through this case planted hence "group planting". These techniques can help to develop structure* within a wood over a given length used in conjunction with continuous cover. *Either in terms of age or number of tree species present, since shelter and shad maining upper storey one can consider a larger number of tree species when deciding what to plant.
Hectare	Ha	Unit of area equating to 2.47 acres.
Native (and hon- orary native)		The trees making up the woodland are part of England's natural, or naturalised flora. Determined by whether the trees colo sistance from humans since the last ice age (or in the case of 'honorary natives' were brought here by people but have natural and whether they would naturally be found in this part of England.
Natural Regener- ation	Regen or nat-regen	Trees growing on a site as a result of natural seed fall, and can be used as a management process and can allow cleared area nate, grow and develop naturally. This process can happen anywhere and woods can be managed to encourage nat-regen alt tee of success. In these instances, or if nat-regen is unlikely for a variety of reasons, one can use enrichment planting or gros same affect. The process usually relies on an overstorey of "parent trees" being present or on parent trees being close by to provide the swill usually of been thinned and managed with natural regeneration in mind. Existing areas of nat-regen are then usually developed through carefully thinning the surrounding woodland over a number or and space to ensure the young trees can establish themselves into larger trees eventually allowing them to be incorporated (crop for the next rotation at some point in the future. Usually done in small groups or in strips this system can allow a varied woodland structure to develop over time. Protection from competing plant species and mammal browsing might be required in the early stages by fencing or using trees

anted. Predominantly

ng.

turies.

d without the need for r broadleaf stands. With t slower and over a much ed at creating a more dir flexible in ensuring ophe risks posed by future

r. Trees are a much long-

it more resilient to future

ne number of species pre-

the use of nat-regen or in h of time and is often de are provided by the re-

onised Britain without asralised in historic times);

as of woodland to germithough there is no guaranoup planting to achieve the

seed. These parent trees

of years, to give more light ('recruited') into the main

shelters.

APPENDIX 3 Glossary

Detetion		Generally a commercial term used to describe the length of time an area of trees is growing for, from the time of planting to the time of felling. For broadleaves a rotation is generally a lot longer than that of conifer species* and can broadly speaking be anywhere between 80 years to 3-400 years, as opposed to conifer crops whose rotation is generally shorter but can vary from 20-25 years to 120 years plus.
ROLUTION		The exception being that or copplet where rotation tength can vary nom 5 or o years up to 50 years plus depending on management objectives.
		"First rotation" would refer to an area of wood planted on open ground not previously wooded. And so "second rotation" is one where woodland has been cleared and replanted.
Shelterwood		A management system that is applicable to conifer or broadleaf, where tree canopy is maintained at one or more levels without the need to clearfell the whole site. Felling can occur, but generally in small "groups" whose size shape and spatial distribution will vary depending on site conditions. The "groups" are then either: allowed to develop and establish by the use of natural regeneration, are planted or are established using a mixture of both techniques. This known as a "group shelterwood system"
		A variation on this is "Single tree selection". This variation removes individual trees of all size classes more or less uniformly throughout the stand to maintain an uneven-aged stand and achieve other stand structural objectives. While it is easier to apply such a system to a stand that is naturally close to the uneven-aged condition, single tree selection systems can be prescribed for even-aged stands, although numerous preparatory thinning interventions must be made to create a stand structure where the system can truly be applied.
Silviculture		A term coined during late 19th century from the Latin <i>silva meaning</i> 'wood' and the French <i>culture</i> meaning 'cultivation' and so Silviculture is the art and science of controlling the establishment, growth, composition, and quality of forest vegetation to achieve a full range of forest resource objec- tives.
Stand		A group or area of trees that are more or less homogeneous with regard to species composition, density, size, and sometimes habitat.
Thin	ТН	 Selective removal of trees from a wooded area, giving remaining trees more space to grow into larger trees. Thinning is done to: Improve the quality and vigour of remaining trees. Remove trees interfering with mature or veteran broadleaf trees. Give space for tops (or "crowns") of broadleaf trees to develop and potentially act as a future seed source. Give space for natural regeneration to grow and develop with the intention of recruiting these younger naturally grown trees as a part of the future woodland structure. Create gaps for group planting or enrichment. Remove species of tree that may compromise the intended management objective of the woodland eg: non-native or invasive species such as Sycamore, Western Hemlock or birch. Improve the economic value of a wood. Help realise opportunities to enhance ecological value. NOTE: This list is not in any order of priority and will vary depending on management objectives.
Yield Class	YC	A method of measuring the growth rate or "increment" of a crop of trees by age and height; measured in m3 per Ha per annum. E.g. A crop with a YC of 16 is one that has an annual increment of more than 16m3 but less than 17m3, although generally only even numbers are used when stating YC.

North Devon Forest Plan 2019 - 2029 Page 33

anatry Commission oodlande hove een rentitiert in coordunitier with the los of the Forcet sweardiship Council.

References

Devon County Council, 2008, *CHARACTER ASSESSMENT – Broadbury Ridges*, Devon CC, Exeter Devon County Council, 2008, *CHARACTER ASSESSMENT – High Taw Farmland*, Devon CC, Exeter Environment Agency, 2011, *River Basin Management Plan*, *South West River Basin District*, DEFRA, Bristol Forestry Commission, 2011, *The UK Forestry Standard*, Forestry Commission, Edinburgh Forestry Commission, 2013a, *West England Forestry District Strategy 2013-2020*, Forestry Commission, Bristol Forestry Commission, 2013b, *Strategic Plan for the Public Forest Estate in England*, Forestry Commission, Bristol Humphrey, J. & Bailey, S., 2012, *Managing deadwood in forests and woodlands*, Forestry Commission, Edinburgh Lucas, O., 2006, Design *and Management of Environmental Corridors*, Peninsula Forest District, Forestry Commission, Exeter Natural England, 2012, *149 The Culm National Character Assessment Profile*, Natural England, York UKWAS, 2012, *United Kingdom Woodland Assurance Standard*, UKWAS, Edinburgh

North Devon Forest Plan 2019 - 2029 Page 34

antly Communication adjuncts have on certified in condumue with the co-of the Forcet wordship Council

APPENDIX 4 - Consultation Record

Consultee Name

Consultee Comment

Forestry England Response

STATUTORY

Devon CC	No Comment	-
Natural England	No Comment	-
Historic England	No Comment	-
North Devon District Council	North Devon Council fully support the objectives of the plan and whilst have some concern in respect of landscape and visual impacts of proposed clear felling operations also understand the commercial/silvicultural imperatives behind the rational for the works where proposed and fully support the proposed PAWS restoration/management. On balance I am happy to confirm our support for the Forest Plan.	Acknowledged
Exmoor National Park	ENPA will be responding to the public consultation on the above but I wonder if you could answer a few questions about the Forest Plan before we put a response together. Whilst both biodiversity and archaeology are mentioned in the plan it does not go into any detail. We understand that this may be beyond the scope of the plan but we hope that there are detailed surveys and data that that inform the plan. It states that all unscheduled monuments will be identified but without detail as to how this will be done. The area covered by the plan within the National Park is unrecorded for archaeology so it is expected that a rapid survey of all the areas will be carried out. Could you please confirm whether this is the case? Within the 50 year vision it states that "the considerable rides and roadside network will be wider than currently" Could you please confirm whether this means that the actual track and ride surfaces will be widened therefore creating larger tracks, or whether the current ride and trackside vegetation will be managed in order to create a wider open space, with the hard surface remaining the same. On page 24 the plan showing 2049 indicative future species shows that for Long Wood it is 100% evergreen conifer. This might just be a symptom of the mapping and the scale used but if that woodland is to be gradually returned to native broadleaf it is assumed that in 30 years' time there should have been some change that is reflected in the mapping.	Known unscheduled monuments and herita intervention (whether that be harvesting, cleaning or fencing) through our Operation internal but can be shared externally when of the site into how the operation is going water management and ecological constra- case of archaeology and heritage features undertaken by the local team prior to wor knowledge of features, site survey, consul checking on the Historic Environment Reco and management advice from experts on t and the HER will be used to check that the Ride and roadside widening simply refers to roads and rides, and not the hardstanding, intend to do this across our estate at the to network is the most effective and efficien and fragmented woodlands. The maps showing Indicative Future Species Evergreen Conifer will still be more than 5 system being employed on the site. The pri- breakdown of species type composition. P of travel is for Long Wood to become a bro
Molland CP	No Comment	-
Twitchen CP	No Comment	-
North Molton CP	No Comment	-
Brayford CP	No Comment	-

North Devon Forest Plan 2019 - 2029 Page 35

diande have protitiert in rounce with the rol the Forcet and thip Council.

age features are identified at the time of restocking or forest management, such as weeding, nal Site Assessment process. This process is usually re necessary and pools the knowledge and expertise to be undertaken. This can cover everything from aints, to roads and utilities etc. In the particular there are four forms of survey which are 'k commencing; internal historical records/ ltation with the local authority archaeologist and ord. We hold reasonable records of heritage sites the North Devon woodlands however site surveys e site information is up to date. the vegetation and tree cover in the vicinity of We have a Corridors Policy which outlines how we time of intervention. Widening of the road and ride it delivery of integrated open space in these small es are crude and for Long Wood show that 50% of the tree cover, despite the group selection ie chart however shows an accurate indicative Page 21 shows that ultimate intention and direction oadleaf dominated woodland.

Non-Statutory

The Moll and Estate has the following comments on the proposals . These comments do not relate to any of the woodlands not owned by Moll and Estate and the Estate offers no comments on the woods it does not own. The Molland Estate's principle objective for the woodlands let to the Forestry Commission (in your proposed plan) is to increase the proportion of Broadleaved planting in the plan. This objective is adopted for landscape improvement, Biodiversity and nature conservation improvement. The Molland Estate's objectives for the Forestry commission woodlands at Molland is consistent with DEFRA's 2005 Keepers of Time strategic Policy statement.	
The Molland Estate's principle objective for the woodlands let to the Forestry Commission (in your proposed plan) is to increase the proportion of Broadleaved planting in the plan. This objective is adopted for landscape improvement, Biodiversity and nature conservation improvement. The Molland Estate's objectives for the Forestry commission woodlands at Molland is consistent with DEFRA's 2005 Keepers of Time strategic Policy statement.	
The Molland Estate's objectives for the Forestry commission woodlands at Molland is consistent with DEFRA's 2005 Keepers of Time strategic Policy statement.	
The woodlands form an important element in the Historic landscape of Molland parish. Some of the woods are situated close to the Exmoor National park Boundary. The Estate manages the historic landscape of the Estate through a Heritage Landscape Management plan agreed with Natural England and In consultation with Exmoor National Park Authority and wishes to be consulted on the details of all proposed thinning, felling and replanting of the woodlands within the plan.	
Moll and EstateThe Molland Estate recognises that some of the smaller parcels of woodland and where there is steep or difficult access have had very little management intervention in recent years. The analysis and concept pages of the plan refers to the need to take a robust approach to managing these areas or that there is non thin/limited intervention policy. The Estate would like to see a more proactive approach to these areas and a plan developed in collaboration with the Estate to start a process of progressively moving these areas into broadleaved woodland cover whether by thinning/felling and replanting or broadleaved natural regeneration. In particular the following woods should be considered for this treatment. Sheepwash Copse; Little Wood; Horseclose Copse; Bedbeere Wood; East Lee Wood; Veyseys Wood. This process should be pursued at a faster rate than the plan envisages . Subject to further discussion with FC within the next 10 years by 2029The Plan has taken a proportionate a balancing the implications of access of analysis and concept week areas and a plan developed in collaboration with the Estate to start a process of progressively moving these areas into broadleaved woodland cover whether by thinning/felling and replanting or broadleaved manural regeneration. In particular the following woods should be considered for this treatment. Sheepwash Copse; Little Wood; Horseclose Copse; Bedbeere Wood; East Lee Wood; number of years to ensure that the explored of the plan envisages .	e approac ss agreem id ecosyst nger thin sale remo e ecologic
The Molland Estate would like to see the proportion of future native and naturalised broadleaved species by 2029 in relation to the Estates ownership increased to a higher proportion than is predicted in the plan by further detailed discussion with the Estate. This Plan takes a more accelerated a	This Plan takes a more accelerated approac Forestry Commission woodlands because of Veyseys, Zeal and Pulworthy are all second woodland and as such we will pursue a prod element of timber output from the Forest P
The Molland Estate would like to see the restocking of Zeal wood and Pulworthy wood (part of Kings wood) and Veyseys wood with a higher % of Broadleaved trees with an initial minimum 50% Broadleaved content. This is consistent with the stated policy objectives of the plan Veyseys, Zeal and Pulworthy are all	
The Molland Estate would like to progress an active regular dialogue on the implementation of the woodland policy with the Forestry commission in view of the Estate's active use of the sporting rights in the Forestry Commission Woodlands and the impact of any works on the wider landscape and nature conservation interests being pursued by the Estate	
The Molland Estate would welcome detailed discussions with The Forestry Commission on a strategy to accelerate the move to a higher % of broadleaved woodland over the plan period and to develop a plan to jointly to deal with small and difficult non intervention woodlands	o conside quirrels a

ch to these discrete and fragmented woodlands, ments, roading and restock management with that stem functioning.

nnable given the neglect they have received in oval of the overstory has been balanced out over a ical value is maintained across the Plan area

ch to ancient woodland restoration than other f the complex access and silvilcityral constraints.

dary weoodland, i.e. not registered as ancient ductive conifer restocking objective to maintain an Plan area.

er and address the impact of pests and predators and game birds.

Brayford Shoot	No Comment	-
North Molton Shoot	No Comment	-
North Devon Biosphere	No Comment	-
Member of the public	I am really worried about your plans for Sherracombe and Long Wood. Please can you give some reassurance that you are not intending to carry out a large fell.	Sherracombe One relatively small area of 3.6 hectares of t felled in the next ten years. With limited acc continued thinning to CCF is not feasible wit felling. Surrounding areas will be managed u Long Wood Up to 6 group fellings of up to half a hectare diversify Douglas fir and Sitka spruce structu restoration.
Member of the public	Please could elaborate further and reassure that Sherracombe and Long Wood will not felled	See comment above
Member of the public	For my understanding woodland in a national park should be preserved and by any means and tried to be restored to ancient woodlands. Using woodland like Sherracombe for economical purposes does not address the needs of future generations.	The woodlands (including Sherracombe) are a and thus meet a series of multiple objectives with economic and ecological objectives will forest ecosystem.
Member of the public	Our property has a direct boarder to the Forestry Commission owned land called Sherracombe Wood (Coupe 71004). As such my feedback is focused on Sherracombe Wood. We were not involved in the preparation of the previous Forestry Plan and have not been able to identify any changes that are being presented in the current Forestry Plan 2019 - 2029. I must also add that we are not professional foresters. I also understand the role of the Forestry Commission (government body / commercial expectations) is a difficult one to balance. My understanding is that Sherracombe Wood is divided into roughly two sections; The west section being Registered Ancient Woodland and the east section falling outside the scope of the PAWS (Page 10). I dot not understand this differentiation. I believe that the east section also provides signs of an Ancient Woodland and should be included within the PAWS management plan to restore the woodland. The work programme for Sherracombe indicates that some 3.6 ha will be clear cut in the years 2022 to 2026 and restocked with Douglas Fir and Coast Redwood (page 17) (compare to recommendations of Scots Pine, Sitka Spruce and Douglas Fir on page 27). Standard five yearly management operations being conducted in the remaining woodland. Sherracombe is designated completely as long term Conifer Retention lasting beyond 2051. The adjoining land and woodlands have a mix broadleaf and mature trees. These trees carry a rich mixture of lichens, fungi and mosses that are found in the Atlantic Coastline. I do not understand the classification of Conifer retention (page 17) in comparison to the section shown as Broadleaf dominated forest (page 21). I do not understand the long term classification as 'conifer retention' especially as the original woodland was broad leaf and large sections of the trees boarding Sherracombe are broad leaf. Would the time frame proposed by quicker if more resources were available to the Forestry Commission?	The Provisional Ancient Woodland Register, a historical records and maps of woodland pre woodland indicators, such as specific flora. T survey in 2002, and deemed as per the indica Restock species are an indication made by pl projections and professional judgement, fina by local team following fell and the site is fu offering a reasonable pallet of productive tir Most of Sherracombe will be managed throug to continuous cover with a mixture of conife objective as per page 21. However given the forest ecosystem functioning this will take a pages 23 and 24. There is no prescription of secondary woodland rotations of conifer will ancient) section of the woodland.

the woodland which totals 22.7 hectares will be cess and unsuitable species on site for the future, ch clearfell is the most appropriate form of under Low Impact Silvicultural System types.

e each over the next 10 years will be used to ure and accelerate native woodland cover

a mixture of ancient and secondary woodland s. Working through thinning and felling either l prolong the productivity and functioning of the

administered by Natural England, is defined by 1600 and is corroborated by local ancient The site was surveyed as part of the Spencer ated in this Plan.

lanning team based on objectives, climate al decision on planting type and density is made ully surveyed. The site is medium rich and moist mber species choices.

gh Low Impact Silvicultural Systems, i.e. thinning er and broadleaf canopy cover the ultimate e gradual approach to transformation to preserve number of years, hence the indicative maps on conifer retention in Sherracombe. However on l perpetuated in the western, secondary (non-

	We are going to reinstate more trees and bushes on our land which if coordinated with other land owners would increase the potential. Are partnership programmes possible to work together with other land owners?	Passed to local team to initiate contact as a
Member of the public	The access from the public highway is not shown on the maps (who has rights of way?). The forest track that approaches Sherracombe Wood is classified as a 'Class A/B road' that turns into a 'Class C road' within Sherracombe Wood. The wood does not currently attract many visitors. What public access is available to Sherracombe Wood? What is the relevance of the different road classifications on the map especially as there appears to be no significant physical difference in the track.	The access track to Sherracombe is not on For have a right of access, knowledge of other p designed to take 44 tonne haulage lorries, w
	Sherracombe is more than 200 meters above see level. The east section of the wood forms a long narrow strip of large conifers growing on a step northwest facing slope. The planting appears to thinned out rows approximately eight to ten trees deep. A number have already fallen following high winds. How have the potential storm damage implications been reflected in the plan and management going forward.	Our forests are classified according to wind I Whilst the rooting depth of soil is good spora intervention, however the long term stability towards Low Impact Silvicultural Systems, ar
	The woods provide cover and habitat to a large wild deer population (empirical evidence). Could the wild deer population have had a negative impact on the regeneration of the broad leaf trees?	See page 25 for reference to deer (and other palatable species planting.
	It's taken a very very long time for goshawk to be established back in the woods around Molland. It's hard to see how the disturbance that will no doubt take place, and the removal of too much of the density and tree types it prefers for nesting, won't have a negative effect possibly irreversible	Our woodlands are managed in line with best Instruction No. 5). Managing forest land for p Active forest management is essential for the including birds, many of which are rare. Whe together, we are not able to undertake all on Whilst we will not deliberately damage activ avoid it, we will continue year-round activiti our activities outweigh the risk of incidental
Member of the public	Goshawk have had a very hard time here due to the exponential increase in shoots and the persecution that gamekeepers inevitably have inflicted upon them due to this, that the last thing they need for once a few have managed to survive, is somebody coming along and knocking there house down.	
	Doesn't seem particularly sensible thing to do to me. The plan seems to only give lip service to "raptors" living in the woods concerned without any definitive assurances specifically about how the work will protect and enhance the probability of survival of the Goshawk, and also a monitoring plan going forward to make sure the works did not have a negative effect on the species here on the edge of Exmoor.	

appropriate.

Forestry Commission land and as such whilst FC party access is unknown. Class A/B roads are whilst Class C is designed for lighter vehicles.

hazard and management is tailored accordingly. Tradic windblow will occur following thinning ty of most the crops is good hence the preference and continued thinning.

er fauna) management approach in light of

st practice, and internal guidance (Operations people, nature and the economy is our purpose. he conservation of a wide range of species, nen all obligations and considerations are taken our activities outside the bird nesting season. ive nests and will do what we reasonably can to ties in the certain knowledge that the benefits of al impacts on individual birds.