

# South West Munster Five Year Forest Plan

2021 - 2025

# Foreword

I have great pleasure in publishing Coillte's South West Munster Five Year Forest Plan for our forests. The purpose is to set out plans for the forest and non-forest business that will take place in the BAU (Business Area Unit) during the plan period. In practicing sustainable forest management Coillte's aim is to develop its forests in a way that is environmentally, socially and economically sustainable, and to deliver the multiple benefits from our forests for climate, nature, wood and people. A key part of our business is sharing our plans with our neighbours, communities and stakeholders and endeavouring to incorporate their views wherever possible.

The topics covered in the BAU Five Year Forest Plan include:

# Forest Planning for Climate, Nature, Wood and People

- Tree Planting
- Timber Harvesting
- Timber Sales
- Forest Roads and Access
- Licenses and Lettings
- Recreation
- Land Acquisition and Property Sales
- Non Forest Business such as Renewable Energy
- Community facilities and benefits
- Recreational and tourism infrastructure and partnerships
- Access to our forests
- Environmental enhancement measures such as biodiversity and nature conservation
- Sustainable Forest Management
- Long Term Retention of Trees
- Low impact silvicultural systems
- Water quality
- Forest design
- Use of chemicals



Bernárd Burke

BAU Leader

# Statement of Compliance with Principles of Sustainable Forest Management

The Coillte estate is a rich, high quality environmental resource, with the potential to interact with people, landscape, water and biodiversity. As such, Coillte recognises and seeks to minimise any potential adverse impacts of our business on the environment through responsible environmental management.

As part of our commitment to the stewardship of our forests, we seek and welcome comments and suggestions from stakeholders with regard to environmental issues. Through this partnership approach we also encourage cooperation from our stakeholders.

As a prerequisite to all our operations, Coillte is committed to the protection of the environment from all of our operations and activities associated with our forestry, property sales and energy businesses.

# Our objectives are to:

- 1. Implement an organisation-wide system for managing environmental issues. The Director of Stewardship, Risk and Advocacy has responsibility for managing the implementation of our environmental management system (EMS).
- 2. Manage our business in full compliance with all applicable laws, directives and regulations, as well as voluntary external accredited schemes to which we subscribe e.g. the Forest Stewardship Council<sup>®1</sup> (FSC<sup>®</sup>) and the Programme for the Endorsement of Forest Certification (PEFC)<sup>2</sup>.
- 3. Prevent negative environmental impacts through a system of operational controls that include communication, written instructions and appropriate training
- 4. Continually improving environmental performance by setting and reviewing objectives & targets related to significant environmental risks and putting into effect programmes to reduce those risks.
- 5. Communicate, as appropriate, to Coillte staff and stakeholders, contractors and their employees and the communities within which we operate.

Bernárd Burke

**BAU** Leader

<sup>&</sup>lt;sup>1</sup> FSC<sup>®</sup> licence code FSC- C005714

<sup>&</sup>lt;sup>2</sup> PEFC licence code PEFC/17-23-042

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# 1. Coillte and Five Year Forest Plans

# 1.1 Coillte

Coillte is Ireland's leading forestry company and largest supplier of timber in Ireland with operations in timber panel production, renewable energy and land management. Our core purpose is to deliver the multiple benefits from our forests for climate, nature, wood and people and enable a vibrant forestry sector in Ireland. As the largest landowner in Ireland we enable the development of renewable energy projects on our lands in order to address climate change.

# History

Coillte was established under the Forestry Act of 1988 as a private limited company registered under and subject to the Companies Acts 1963-1986. All of the shares in the company are held by the Minister for Agriculture, Food and the Marine and the Minister for Public Expenditure and Reform on behalf of the Irish State. The Board of Directors is appointed by the Minister for Agriculture, Food and the Marine. Coillte commenced trading in 1989 when it acquired ownership and management of the Irish State's forests.

#### Coillte Today

The company is a forestry and forest products business, with interests in renewable energy. The company has three operating divisions - Coillte Forest, who manage all aspects of the forestry business, a Land Solutions business and Medite Smartply, a leading manufacturer of sustainable timber construction panels.

The company employs approximately 800 people across Ireland and the UK. Our business supports and enables a vibrant forestry sector in Ireland which is estimated to provide over 12,000 jobs, mostly in rural Ireland.

The Forest Service (Department of Agriculture, Food and the Marine) is the forest authority in Ireland and regulates the forest industry. The Forest Service is responsible for ensuring the development of forestry within Ireland in a manner and to a scale that maximises its contribution to national socio-economic well-being on a sustainable basis that is compatible with the protection of the environment.

# Nature Conservation and Biodiversity

The Coillte estate consists of a varied tapestry of different habitats, ranging from conifer forests and mixed or broadleaved forests, to open bogs and heathlands, to lakes and rivers. Independent ecologists have identified the areas on our estate with the best value for biodiversity. These are then mapped and managed by Coillte as biodiversity areas. Currently, 90,000 hectares of our lands (about 20% of the estate), in more than 2,300 sites, are mapped as biodiversity areas where nature conservation and biodiversity enhancement are the primary management objective. We work with and respect nature across all of our forest lands, identifying, mapping and protecting important features of biodiversity. A list of important wildlife and their habitats and species in this BAU can be found in Appendix II of this five year forest plan (insert link to Appendix II).

#### **Outdoor Recreation**

Coillte operate an open forest policy and welcome all visitors to our lands according to the 'Leave no Trace' principals. As Ireland's leading provider of outdoor recreation we have more than 260 forest recreation site, 12 forest parks, six dedicated mountain bike centres and over 3,000 km of waymarked walking trails for you to enjoy. For more information on how to get out and enjoy the outdoors and for details of all our recreation sites see http://www.coillte.ie/our-forests/explore/

# 1.2 Renewable Energy

Coillte is committed to the development of renewable energy in Ireland, as we move towards a sustainable future with enhanced energy security. As the largest provider of high quality sites to the renewable energy sector, Coillte is making a significant contribution to Ireland's 2030 target of achieving 80% of its electricity consumption from renewable sources<sup>2</sup>. Coillte is fully aligned with government and EU policy in terms of the role we play in relation to renewable energy development in Ireland.

Ireland's dependence on imported fossil fuel has left energy consumers vulnerable in terms of energy security, energy price volatility and exposure to carbon taxes. Reducing Irelands reliance on fossil fuel imports, reducing our greenhouse gas emissions and improving domestic fuel security are key pillars for developing a green economy.

In November 2021, Coillte and ESB unveiled a new joint venture company, FuturEnergy Ireland (FEI). The aim of FuturEnergy Ireland is to materially help the country deliver on its green energy targets, achieving net zero emissions by 2050, as set out in the Government's Climate Action Plan and legislated for under the Climate Action Act. The Coillte-ESB joint venture is looking to actively drive Ireland's transition to a low carbon economy by developing 1GW of wind energy projects by 2030, enough to power more than 500,000 homes.

Coillte has already made a significant contribution towards the development of renewable energy in Ireland over the last 20 years. Over the course of the five year forest plan period and beyond, Coillte has a very important role to play, both as a developer through FEI, and as a landowner, in helping Ireland reach its 2030 renewable energy targets and in helping reduce Ireland's carbon emissions. Coillte proposes to do this through facilitating the development of multiple renewable energy technologies.

In terms of developing our renewable energy resources through FEI we are committed to:

- Open and transparent public participation and consultation in renewable energy projects with stakeholders and local communities.
- Best in class Environmental Impact Assessment and Appropriate Assessment that enhances and preserves local ecology and the habitats therein.
- Complying with all relevant environmental legislation, health and safety legislation, regulations and other requirements as they arise.
- Minimising the impact of wind farm development on the surrounding landscape and surrounding forestry in so far as that is possible through careful siting and design.
- Considering the impact on recreational users, and also the opportunity there may be when developing a wind farm to develop enhanced recreational facilities.
- Conducting our business in an environmentally friendly and responsible way.

# 1.2.1 Public Participation and Consultation for renewable energy projects

Coillte supports proper planning and sustainable development and fully recognises that the development of FEI renewable energy projects must afford appropriate protection to the social, environmental and economic pillars of

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<sup>&</sup>lt;sup>2</sup> https://www.gov.ie/en/publication/774e2-national-development-plan-2021-2030/

**sustainability. FEI's** aim is to develop best-in-class wind farms with the support of local communities thereby enabling Ireland, and its people, to combat climate change.

FEI and other third party developers will consult widely with national and local stakeholders in all stages of the wind farm development from pre-planning, development and operational phases. In addition, all projects developed by FEI provide a Community Benefit mechanism as part of the project.

As part of Coillte's commitment to the responsible stewardship of its forests, it seeks and welcomes comments and suggestions from stakeholders about how it manages its forests in the most responsible way for the benefit of society and future generations. For any queries relating to the development of FEI or third party projects on Coillte lands we can be contacted at <a href="mailto:lsinfo@coillte.ie">lsinfo@coillte.ie</a>.

# 1.2.2 Wind Energy

Coillte's lands possess some of the best onshore wind regimes in Ireland due, inter alia, to its altitude, aspect and location. It also often particularly suitable for wind farm development due to its remoteness, accessibility, distance from dwellings and visibility relative to areas with high scenic amenity.

CoilIte is aware that wind energy is a proven technology and according to the SEAI Energy in Ireland 2020 Report, wind generation accounted for 32% of all electricity generated in 2019<sup>3</sup>. As outlined in the White Paper 'Ireland's Transition to a Low Carbon Energy Future 2015-2030', Coillte too recognises that "onshore wind will continue to make a significant contribution" to meeting Ireland's energy needs.

Should you require further information regarding Coillte's involvement in the wind energy industry, please do not hesitate to contact us at <a href="mailto:info@coillte.ie">info@coillte.ie</a>.

# 1.2.3 Biomass

The key guiding principle for Coillte's vision is that Ireland's biomass is a limited and valuable indigenous resource and should be harnessed in a way that maximises value throughout the supply chain. Coillte does so by providing competitive, long term and secure biomass fuel supply contracts for its woodchip clients and also assists in the evaluation of both the technical and commercial viability of projects for large scale industrial energy users. Coillte continues to play a key leadership role in delivering sustainable biomass energy solutions to the Irish biomass industry through its regional processing hub supply model. We operate a number of regional biomass fuel supply hubs throughout the country. Coillte provide full chain of custody from forest to boiler ("stump to steam") and all wood chip is produced strictly in accordance with quality specifications set out in I.S. CEN/TS 14961: 2005, with a significant emphasis on optimisation of wood flow to minimise haulage distances for all transportation required. Coillte processing hub now support a range of supply chain jobs and underpins significant annual energy and carbon savings for its clients. Should you require any further details regarding Coillte's involvement in the biomass industry, please do not hesitate to contact us at biomass@coillte.ie.

# 1.2.4 Other Renewable Technologies

In addition to playing a leadership role in wind energy and biomass production, Coillte will continue to assess potential opportunities for other renewable technologies on the Coillte estate such as solar energy and energy storage along with any other emerging technologies.

<sup>&</sup>lt;sup>3</sup> https://www.seai.ie/publications/Energy-in-Ireland-2020.pdf

<sup>4</sup>https://www.gov.ie/en/publication/550df-the-white-paper-irelands-transition-to-a-low-carbon-energy-future-2015-2030/

# 1.3 Coillte's Resource Management Approach

In recent years, a major project was undertaken within Coillte Forest to review fundamentally our approach to managing our forest resource. The underlying objective of this work is to use optimisation techniques to ensure we are maximising the return from the land resource in a balanced and sustainable manner to deliver the benefits from our forests for climate, nature, wood and people. More recently this project moved into implementation phase and, after a successful pilot programme, has now been adopted as the primary planning tool for Coillte forest.

The schedule itself is built through running a management model. It is important that the model reflects the costs and benefits of all possible actions, the crop and site types and the circumstances under which each action is allowed, and the relevant management objectives and constraints operating at a strategic and local level.

As the model was developed and refined each BAU was consulted on the model as it applies to their area. The outputs of the management model may span multiple years or decades and in this format, will be used as a strategic resource management tool. A major benefit of the approach to Coillte is the speed with which a new national activity schedule is generated which reflects, for example, the impact of storm or a significant shift in markets. In extreme cases a stand may have its scheduled fell year shifted as frequently as every quarter, as the model is re-run to incorporate emerging information on demand or crop parameters.

This is why forest management principles, objectives, constraints and opportunities are reflected into the model and form the basis of the BAU plan. Once these principles are agreed, each model run during the lifetime of the BAU Five Year Forest Plan will comply with the principles, as will the ensuing harvest schedule. The tree harvest activity levels are publicly available to view on our online interactive web map viewer (<a href="https://www.coillte.ie/ourforests/public-goods/forest-plans/">https://www.coillte.ie/ourforests/public-goods/forest-plans/</a>), these draft activity levels are based on an initial run. Where changes occur due to public feedback or from other influences e.g. environmental or policy, which cause an increase of over 20% in forecasted activity within a property, these areas will be published annually on Coillte's website as having changed significantly since initial publication.

# 1.4 Benefits of Coillte to the Public

As the largest provider of timber and timber products in Ireland Coillte enables a vibrant national forestry sector employing around 12,000 people, mostly in rural Ireland. In addition to these benefits to the economy in terms of sustainable forest products and energy production, Coillte's forests provide a range of social, environmental, recreational, health and tourism benefits to the State and its people. In addition, Coillte recognises the important and unique role that its trees and forests can play in helping to address climate change.

Coillte operate an open forest policy and welcome over 18 million visitors to our lands each year. We provide over 260 forest recreation sites, twelve forest parks, six dedicated mountain bike trails and more than 3,000 km of walking trails on our lands. We are members of Leave No Trace Ireland and work closely with them to promote responsible use of the outdoors. Coillte also manage over 20% of our forest estate exclusively for nature conservation and biodiversity protection. Our forests have multiple uses and deliver multiple benefits and timber management and recreation are not exclusive of each other and can and do exist side by side on the Coillte Estate. Habitat restoration projects such as Coillte's EU funded LIFE Projects, and Coillte's BioClass programme along with recreation partnerships like the Dublin Mountains Partnership and the Dublin Mountains Makeover Project are showcase projects that demonstrate best practice in natural resource management and managing forests to deliver benefits for climate, nature and people.

# 1.4.1 Trees, Carbon and Climate Change

In addition to being important resources for construction and for energy production our forests are also important natural systems for capturing and storing carbon from the atmosphere. Carbon dioxide is perhaps the main gas responsible for climate change and trees are key to the battle against it.

As they grow, trees remove carbon dioxide gas from the air. They convert this carbon into wood while at the same time releasing pure oxygen back into the atmosphere. This is incredibly valuable, ensuring forests, with thousands of trees are both an effective carbon store and carbon sink. The quicker a forest grows, the more carbon it removes

from the atmosphere. Conifers grow at a faster rate than other trees, which is why they are perfect for carbon sequestration. Our fastest growing conifers have an average growth rate of 18 cubic metres per year compared to an average of 4 cubic metres for slower growing broadleaf tree.

If managed appropriately, productive forests can have an advantage over natural forests in terms of removing and storing carbon. Maturing trees in a natural forest can lose as much carbon to the atmosphere through decay as they absorb through growth. A managed forest however will continue to absorb carbon over multiple generations, as trees are harvested at maturity and replaced with new young trees. This maintains a rapid rate of carbon sequestration.

The timber products made from Irish forest wood also lock carbon away, which means that using Irish timber products for construction in place of more conventional materials such as bricks, concrete and steel also leads to further net reduction of carbon emissions. A recent report shows that, on average, for every cubic metre of local Irish wood that is harvested, to substitute more carbon intensive building materials, we save on average 0.77 tonnes of CO2 equivalents. Currently about five million cubic metres of wood products are produced on the island of Ireland per year, and this means that if **we can avoid using more 'carbon heavy' products** there can be an enormous benefit of 3.7 million tonnes of CO2 equivalents each year!

In summary, well managed forests have a triple benefit in combating climate change:

- 1. As a carbon sink: trees absorb carbon from the atmosphere.
- 2. As a carbon store: Carbon is stored in timber products after harvesting.
- 3. As a carbon substitute: Timber products can substitute carbon heavy products like concrete and steel.

And finally, trees are always replanted after harvesting to restart the cycle of carbon absorption again.

#### 1.4.2 Coillte Nature

Coillte Nature is the not-for-profit branch of Coillte that is dedicated to the restoration, regeneration and rehabilitation of nature across Ireland. Our mission is to deliver real impact on the climate and biodiversity crises through innovative projects-of-scale across four strategic themes:

- Reforesting our landscapes by planting new native woodlands on un-forested land
- Restoring important biodiversity areas by investing in major habitat improvements
- Regenerating urban forests for the benefit of people and nature
- Rehabilitating ecosystem services by bringing sensitive or degraded lands into better health

For more information, see <a href="https://www.coillte.ie/coillte-nature/">www.coillte.ie/coillte-nature/</a>

# 1.5 Meeting external challenges, constraints and opportunities

Coillte and all of its forests, lands and operations are subject to a number of key external factors. Typically these arise as policies or legislation relating to forestry which drive change and can have a major influence on our future. Understanding and anticipating these factors is vital in order to manage change proactively rather than responding to it reactively and Coillte work proactively with our key statutory and non-statutory regulators. The following table outlines some of the principal challenges and commitments. The five year forest plans are key to contributing to meeting these challenges and constraints.

#### 1.5.1 Statutory and non-Statutory regulation and certification of forestry

#### 1122

#### The Department is currently preparing for the development of the next forestry programme. The current National Forestry Programme 2014-2020 is 100% exchequer funded, comprises an investment of approximately €482 million over its lifetime, and received approval to be extended to the end of 2022 by the European Commission, in accordance CAP and State aid transition requirements. A new National Forestry Programme is therefore required from January 2023 for a period to the end of 2027.

National Forestry Programme 2023-2027

#### Response

In response to the National Forestry Programme:

- Coillte will manage its forests and lands to increase the amount of carbon stored.
- Coillte will set and meet targets for the national timber supply and continue to promote the use of wood and wood products.
- Coillte will seek to increase the recreational offering of its forests.
- Coillte will increase the area of its forests managed for nature conservation and biodiversity.

# National Biodiversity Plan

Ireland is a signatory to the 1992 Convention on Biological Diversity and is committed to biodiversity protection and enhancement measures in the National Biodiversity Plan. Coillte is making a meaningful contribution to the National Biodiversity Action Plan through the designation of 20% of its forest estate overall for nature conservation and biodiversity management, and is committed to increasing this overall total.

Coillte initiated a partnership with the National Biodiversity Data Centre based in Waterford which currently holds more than 85,000 records of different species of animals and plants from Coillte lands.

Coillte is committed to achieving or maintaining favourable condition of all of the Special Areas of Conservation (SACs), Special Protection Areas (SPAs) and Natural Heritage Areas (NHA) on its lands.

# EC Habitats Directive and EC Birds Directive

(92/43/EEC) as transposed into Irish law under the S.I. No. 477 of 2011 EUROPEAN COMMUNITIES (BIRDS AND NATURAL HABITATS) REGULATIONS 2011.

The EU Directive on the conservation of natural habitats and of wild fauna and flora provides for the protection of habitats and their species, and where necessary their restoration to favourable conservation status.

All forest operations which potentially could impact on such sites are assessed under the criteria outlined as required by the Regulations.

# Water Framework Directive (2000/60/EC)

The EU Water Framework Directive (WFD) establishes a framework for the protection of rivers, lakes, coastal and ground waters by requiring States to achieve good ecological status for all waters, ensuring that status does not deteriorate in any waters. European Union Member States implement the Water Framework Directive through River Basin Management Plans (RBMPs) in six-year cycles. This process allows for assessment, planning, implementation, and review at regular intervals. Ireland's approach to water quality management has developed over the first and second RBMPs and will continue to evolve into the third cycle RBMP 2022 to 2027 to protect and improve water quality nationally and locally. The draft River Basin Management Plans for 2022-2027 were put out to public consultation for 6 months, which ended on the 31st March 2022. Following consideration of this feedback, it is envisaged the finalised plans will be issued in Q4 2022.

# Sustainable Forest Management (SFM)

SFM is the forestry sector's response to sustainable development. Balancing the economic, environmental and social elements is now the accepted way by which forest management is conducted. Forest certification ensures best forest practice is implemented and provides stakeholders with an opportunity to contribute to the management of forests. Compliance with forest certification standards is assessed annually by independent auditors.

National Surface and Drinking Water Regulations have been enacted since 2007, including subsequent amendments, to give legal status to the criteria and standards to be used for classifying surface waters in accordance with the ecological objectives approach of the Water Framework Directive (WFD). The classification of waters is a key step in the river basin management planning process and is central to the setting of objectives and the development of programmes of measures. Waters classified as 'high' or 'good' must not be allowed deteriorate. Waters classified as less than good must be restored to at least good status within a prescribed timeframe. The environmental targets or goals and the programmes of measures (POMs) to be included in river basin management plans must therefore reflect these requirements.

CoilIte has been proactive with the regulatory agencies, such as the Forest Service, Inland Fisheries Ireland, Local Authorities, EPA and NPWS, in deriving Programmes of Measures to be implemented by the forest sector in avoiding and/or minimising the potential impact of forest activities on water quality. A central tenet of the POMs is the adherence to the Forest Service Code of Best Forest Practice, and standards, including all relevant regulations and requirements, and the Forest Management Standards for Ireland (National, FSC® and PEFC).

To further progress the implementation of the goals of the WFD, Coillte is an integral member of the National Technical Implementation Group for WFD, regional WFD Operational Committees and the Blue Dot Steering Committee.

Coillte is fully committed to a policy of sustainable management of all of its forests and forest lands. Coillte applied for FSC certification of its forests in 2000 and were awarded an FSC certificate in 2001. Coillte applied for PEFC certification of its forests in 2013 and were awarded a PEFC certificate in 2014. These external forest management certification schemes endorse Coillte's policy of sustainable forest management, balancing the social, economic and environmental aspects of forest management.

# 1.5.2 Pests and Diseases

Coillte also respond to external factors that have a significant impact on its forests. One example is the disease *Phytophthora ramorum* also known as sudden oak death which has been detected in a number of BAUs. Another is *Chalara fraxina* which is a serious fungal disease of ash trees. This has caused widespread damage to ash populations in continental Europe and is now widespread across the island of Ireland.

Coillte liaise closely with Forest Service with regard to significant potential threats to our woodlands and will respond immediately to any mitigation measures proposed. In addition, Coillte carry out forest health surveys of its estate and assist in the monitoring of nationally important forest pests such as lps typographus, the eight-toothed bark beetle, where appropriate.

There are four main elements to our Plant Health strategy:

# 1. Survey/Monitoring

Coillte carries out surveys and health monitoring in order to make an early detection of a major pest or disease outbreak.

# BAU surveys

Forest health BAU monitoring is conducted annually in Coillte properties since 2007 with samples sent to the Coillte laboratories for follow up identifications. The process was reviewed and updated in 2019 and the information is now collected directly in the field. BAU annual health surveys are carried out using a standardised forest health assessment form which asks the observer to record any details of ill health observed in the property under survey. The form directs the observer to note any unusual signs and symptoms of ill health, what part of the tree they occur in and what the likely cause may be, including both biotic and abiotic sources.

Coillte supports the Forest Service in carrying out all mandatory surveys required under legislation and specific surveys necessary to support Protected Zone status. Coillte has added seventeen new observation sites to assist in the national monitoring for the bark beetle *lps typographus*. A recent review was carried out to ensure that extra traps were placed at locations close to possible points of entry for bark beetles.

Forest health observations are also recorded during daily forest operations and noted in the Health Survey form and followed up through sampling where required. Inventory staff provide information on forest health through aerial or remote sensing carried out through their daily work.

# 2. Education and Training

Pest and disease staff training days are held in conjunction with the Forest Service Inspectors. These training days increase staff awareness of risks from pests and disease. Specific training is carried out in relation to particular diseases such as *P.ramorum*, *H.fraxinea*, (Ash dieback).

Staff awareness information notes are issued in the event of a significant finding that is a potential serious threat such as *Ips typographus* findings in Kent 2019 and 2021.

# 3. Notification and Communication Procedures

Coillte have a clear plan in place in the event of an insect pest or disease outbreak in the forest. An action plan is developed on how to eradicate or contain the infestation or infection and a communication plan is prepared. Following a suspected outbreak of a significant pest or disease the Outbreak Management Group (OMG) in Coillte are notified and a meeting is convened. The group is made up of the key personnel to deal with the specific outbreak. The OMG meet as required to discuss threats that arise through our outward horizon scanning.

# 4. Outbreak management

An action plan is developed to identify the extent of the outbreak (via specific surveys as required, assessment of the impact of the outbreak, sanitation or containment protocols, monitoring etc.) In the case of an insect pest or disease outbreak a specific sanitation plan is immediately prepared. Measures are put in place to ensure the infestation or infection outbreak is managed properly and ends quickly.

Sanitation action plans are guided by, agreed and discussed with the Forest prior to implementation. (The Forest Service may inspect sites pre and post sanitation actions being taken.)

The supporting elements to the strategy plan are -

#### Diagnostic services

The laboratory provides technical support to pest and disease samples. Samples are examined under the microscope for the presence of insect pests or fungal pathogens. Sample pieces are plated out on agar growth media and plant pathogens are isolated and identified from the diseased plant material.

Knowledge transfer and Collaboration

Coillte actively cooperates with other organisations within Ireland and abroad in relation to risk anticipation and is involved in many scientific projects involving different institutions.

Hylobius working group

This group provides a forum for communication and sharing of best practice and key issues associated with *Hylobius* management. (The group represents England, Scotland, Wales, Northern Ireland, Ireland). This group collaborates, between countries, and actively progresses elements of *Hylobius* management to provide cost effective and sustainable protection to planting stock.

#### 1.5.3 Societal Expectations of Forestry

Irish society, the wider public and local communities continue to remain engaged with our forest management:

- A greater awareness of environmental issues continues to grow amongst the public and local communities.
- Coillte has responded to an increased appreciation of for example, landscape design and of the place of
  forests in the landscape with policies and practices in relation to forest design and with new approaches to
  tree felling decisions.
- A higher demand for access, recreational and tourism facilities in forests and in the types of recreation demanded Coillte practices an open forest policy where all of its forests are open for walking, and has increased its provision of special trails including improved provision of waymarked ways and looped walks, mountain bike trails and nature trails. Coillte frequently enters into partnerships with local communities, local development and tourism groups, county councils, and with development bodies such as Fáilte Ireland, Waterways Ireland and the Fisheries Boards to achieve such provision. Coillte has an ambition to increase its current recreation offerings nationwide.

# 1.5.4 Dumping / Litter Management

Indiscriminate, illegal dumping and littering is a major problem for Coillte. The large extent of Coillte's estate makes it a target with regard to the illegal disposal of waste. Coillte does not have any control over indiscriminate dumping of rubbish by persons unknown but works closely with Co Councils to seek prosecutions and enforcements where possible.

Coillte manages 440,000 hectares of lands nationwide, equivalent to approximately 7% of total land of Ireland. It has been the practice of the company and its predecessor since the 1970s to operate an Open Forest Policy, whereby the general public are permitted and welcome to use forest lands for non-commercial, informal, recreational purposes. Formal permission is not required in such cases but access is subject to visitors taking due care for their safety, having consideration for other forest users and respecting the nature of Coillte's operations and following the principles of Leave no Trace.

However, the problem of the illegal dumping / fly tipping on Coillte's estate persists. Coillte endeavours to dispose of the waste as promptly as possible, in a controlled way from both a safety and environmental perspective. The intensity of dumping presents a significant financial and management challenge for Coillte. The fly tipping affects the beauty of the countryside and forestry. It is unsightly for local residents and visitors alike.

# It is Coillte's policy to try to prevent illegal dumping in its forest estate. This is achieved by:

- Keeping forest entrances continuously locked at inactive sites, where appropriate,
- Locking gates outside work hours on active sites,
- Staff keeping vigilant for dumping during visits to forest properties,
- Periodic CCTV surveillance of dumping black spots to date we have had only limited success in this area, but will be trailing new equipment in the near future in some of the black spots,
- Assisting the Gardai and Co Councils in prosecuting those caught dumping,
- Partnering with anti-dumping initiatives such as the PURE Project,
- Raising awareness of anti-littering with our partners Leave no Trace Ireland,
- Working with local NGO's and community groups.



#### 1.5.5 Forest Fires

Forest fires pose a serious health and safety risk to the public and to people working in the forest sector. They are very difficult to control and put firefighters and forest personnel at great risk in their efforts to extinguish them. They cause widespread ecological and environmental damage to wildlife and to habitats that can take years to recover from especially at this time of the year when many birds and other animals are raising their young. They also cost significant amounts of money to Coillte and private forest owners; in the costs of operations to control the blaze, in the loss of the value of the standing timber and the additional costs in managing and replanting the burnt areas.

It is Coillte's policy to minimise areas damaged by fire with effective prevention and fire control measures. Forest fires can occur through the year but the risk is greatest during dry spells from March to June when ground vegetation is dormant and dry. Fire Plans are developed for all forest properties including a map showing access routes and assembly points for fire-fighting personnel, equipment and potential sources of water.

As part of Coillte's health and safety programme all Coillte personnel and selected volunteers involved in fire-fighting duties must attend a one day Coillte fire training course. The one day course aims to equip everyone with the skills and knowledge required to carry out forest fighting duties in a safe and effective manner. On completion of training they will receive a certificate and a fire grab bag containing personal supplies relevant to firefighting.

BAU Team Leaders have the authority to avail of helicopter services based on input from Operations Managers, and in consultation with National Estates Risk Manager, if necessary. Helicopters will be equipped with bambi buckets. A helicopter could be considered for a number of uses:

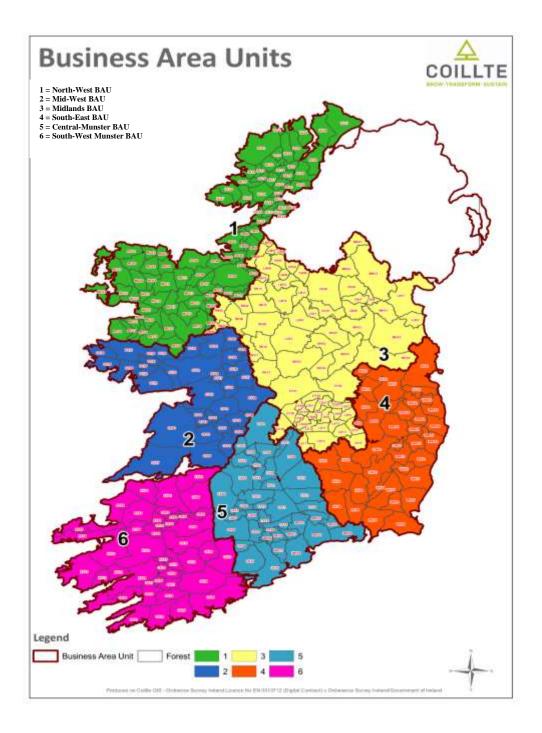
- Surveillance of fire
- Transportation of staff and equipment
- Fire fighting

Coillte ask for vigilance from the public in relation to Forest fires and to act if required by

- 1. Reporting directly to the emergency services any sightings of a fire
- 2. Reporting any suspicious activity in relation to fire or any knowledge of attempts to light a fire
- 3. Not lighting campfires or charcoal barbecue sets on Coillte property, except in designated areas

# 1.6 Coillte BAUs

Coillte's estate is divided into 6 Business Area Units (BAUs).



Coillte has developed plans for each of these BAUs, called Five Year Forest Plans which describe Coillte's forests and other assets in the area, and set out a vision for their management. The last planning cycle was for 2016-2020. These plans refer to the incoming planning cycle 2021-2025, which were delayed due to Covid-19 pandemic.

Coillte also convenes annual consultation meetings\* for each of its BAUs. Plans are discussed with stakeholders to help Coillte to understand social, recreational and environmental issues as well as opportunities and concerns in each BAU.

\*Due to the health crisis in 2020 and 2021, BAU consultation meetings could not be held. Plans are underway to host consultation meetings during 2022 (in line with government health advice).

# 1.7 Summary on the Various Levels of Coillte

# Forest Management Planning

The BAU Five Year Plan sets out the economic, social and environmental strategies and priorities for the long and medium term in the BAU and gives a clear direction for the management of the forests at local level for the next five years. The plans are developed in consultation with a wide range of stakeholders both internal and external to the company. Input from external stakeholders (individuals, communities, NGOs and statutory bodies) are sought during the consultation process, feedback is considered and where feasible, is incorporated into the plans. The Forest Management Unit (FMU) planning requirement, for Forest Certification, is achieved through the BAU Five Year Plan process.

An Activity Pack is built when site-level planning is initiated for activity within each Harvest Unit and describes how the plan will be implemented for the operation managers, workers and contractors. Social and environmental impacts, including consultation, are assessed through Coillte's environmental risk assessment process and measures are written into each site management plan.

All levels of planning feed into the annual BAU Operating Business Plan and Work Plan. These plans focus on the tasks/targets to be achieved during the year and outline the necessary resources (financial and personnel) required.

The BAU is the Forest Management Unit and is built from smaller spatial entities, the largest of these being the Forest Unit. Key activity levels within each Forest Unit are further broken down in <u>Appendix V</u>. Further to this appendix, a Webmap is publicly available online to view areas with proposed tree felling in the review period. <u>Click here</u> to access the Webmap.

# 2. South-West Munster BAU

# 2.1 The South-West Munster BAU

All BAUs play important roles in achieving Coillte targets and objectives. The South West Munster BAU of Coillte Forest encompasses Counties Kerry, North, South and West Cork, and North West Limerick. The BAU covers 1,192,113 hectares of Ireland. Within this area, Coillte owns 64,594 hectares (5.41%) of which just over three-quarters is forested with the remainder mostly moorland, mountains, marsh and lakes.

There are two Gaeltacht areas within the BAU, Gaeltacht Muscraí and Gaeltacht Uíbh Ráthach. This BAU boasts the greatest concentration of mountains in any of Coillte's 6 BAU's, including Carrantuohill, Irelands highest mountain in the MacGillycuddy's Reeks, Stacks Mountains Range, Mullaghareirks, Nagles Mountains, Caha Mountains.

The climate for forestry operations is challenging, with high rainfall, rugged rocky landscape and some very wet ground conditions. The area normally experiences relatively mild winters and it has many days of wind. One of the biggest constraints to commercial forestry in the BAU is crop stability with some areas predisposed to windblow. We have seen some major storms in recent years, i.e. in 1974, 1987, and in 1997 over 250,000 m³ of timber was blow in Southern Ireland and in 2014 over 1.5million m³ of timber was blow during Storm Darwin and Storm Ophelia in 2017.

Main population centres in the area include Limerick, Newcastle West, Abbeyfeale, Listowel, Tralee, Killarney, Kenmare, Macroom, Bantry, Skibbereen, Cork, Bandon, Mallow and Charleville. The proximity of some of our forests to Cork City and other major urban centres coupled with a large section of coastline and resulting maritime conditions, affect the management of our forests and influence decision making.

# 2.2 Forests and Forest Products in the South West Munster BAU

# A map of Coillte's Forests in the South West Munster BAU can be viewed in Appendix VI

The Business Area Unit is the primary business unit within Coillte Forest, therefore, all revenue earned (and associated cost) by Coillte Forest is generated from the resource within the BAU through the activities undertaken on that resource. The primary revenue source within this BAU is from the sale of timber within the BAU, a secondary revenue source is generated through grants, lettings, licences, leisure other activities and alternative land use developments. The most significant costs within the BAU relate to accessing and bringing timber to market and subsequently replanting any land which has been clearfelled. The business environment in which the BAU operates is becoming increasingly more competitive and a number of efficiency programmes are in place to reduce the cost base and optimise the use of new technologies to maintain and in time improve the financial return in the BAU.

During the 2016-2020 period, the BAU produced approximately 2.05 million cubic metres of wood. Timber produced within the BAU during the period 2016-2020 was primarily sold to our customers in Medite, SmartPly, GP Wood Wood (SFE - Graingers Sawmill, Enniskeane and Palfab Sawmill, Lissarda) Glennon Brothers Timber Ltd Sawmill Fermoy, Spellmans, Killarney and stake wood to Adhmaid Cill Na Martra Teoranta and to John Galvin Sawmills, Coppeen. There is also a large number of local firewood customers that the BAU support. The BAU also supplies wood chips to Astellas in Killorglin.

# **Forest Products**

# Private Timber

Coillte is the largest producer and consumer of pulpwood in Ireland. Coillte's strategy is to supplement its own supply through the purchase of private timber, where appropriate. For further information please check the Coillte website at <a href="https://www.coillte.ie">www.coillte.ie</a>

#### Farm Partnerships

This scheme is where Coillte and a farmer form a joint venture by agreement whereby Coillte plants and manages the plantation for the life of the crop; ownership of the land remains with the farmer. Currently we have 71 farm partnerships within the BAU and we will continue to support our existing partners.

# 2.3 Community, Recreation and Tourism Facilities in The South-West Munster BAU

Coillte has an open forest policy and welcomes all walkers to visit its forests according to the principles of Leave no Trace. Coillte has a long association with the communities, clubs and individuals who use the extensive forest network. The development of recreational facilities and activities in line with Coillte's Recreation policy are some of the many ways Coillte can contribute towards the "public good" value of the estate. This can be achieved through partnerships, permits and ongoing relationships that respects the sustainable use of our forests for future generations. The South West Munster BAU recreational activities complement the lakes and mountains within its boundaries and contribute to the social and economic life of Cork, Limerick and Kerry.

A number of recreational facilities are the result of a joint initiative between Coillte and local communities. Examples of this collaborative effort are developments such as:

- Glanteenassig Wood originally managed for timber production, but which in recent years, has provided recreation for the adjoining town of Castlegregory and for the wider community. During the period, from the mid 2000's the woodland was managed for the purpose of developing amenity woodland felling and restocking with more diverse species and the addition of a 2km board walk along with other walks.
- The development and enhancement works to the walks and trails in Foynes, most of which have views of the magnificent Shannon. The flagship of these improvements is the trail which links the town by means of a 1.2 km woodland walk through the Coillte estate.
- Curragh Chase Forest Park consists of some 313 hectares of mainly broadleaf and mixed woodland with some mature conifer stands, parkland and with some of the area under water. The estate was maintained and operated by the Department of Forestry and Wildlife up until 1989 when it passed on to Coillte. Curragh Chase House was the home of the De-Vere family for almost three hundred years dating from 1657. This partnership with Coillte, Fáilte Ireland and Limerick County Council, included a very comprehensive development that took place during the latter part of 2007 and in 2008 with the upgrading of the present trails and the addition of new trails and facilities. In 2020 we have also upgraded the playground.
- Guagán Barra Forest Park originally managed for timber production Guagán Barra Forest Park was the
  first Forest Park opened in Ireland in 1966. A very comprehensive development took place during 2007 and
  2008 with the upgrading of the present trails and the addition of new trails and facilities in conjunction with
  Fáilte Ireland and the Forest Service Neighbourwood Scheme and was re-launched in October 2008 by Mr.
  Eamon Ó Cuív TD, Minister for Community, Rural and Gaeltacht Affairs.
- The Neighbourwood Scheme was also utilised in developing walking trails in Rathbarry and also more recently a new trail was developed to improve the safety along a section of the walkway.
- A walking trail was developed in Carrigfadda in conjunction with Fáilte Ireland, Local Reenascreena Community and Cork County Council.
- Dromillihy was upgraded in 2012/2013 with funds from the Neighbourwood Scheme, a national scheme administered by the Forest Service and the Community Fund administered by Cork County Council and funds from the Gwendoline Harold Barry Trust. This amenity project was carried out in partnership with Connonagh Community group.
- Glanageenty The Glanageenty Valley walkway consists of 4 miles through woodlands steeped in mystery and folklore, a place where even amid the peacefulness and silence you can still sense the nostalgia of days gone by. It consists of an old butterroad, a holy well and the site of an old Desmond Castle plus numerous monuments and signs telling of the history of the people of "the Glen", this site is developed in partnership with North East Kerry Development.

- Lyreacrumpane River Walk The Mass Path or River trail as it is also known was used in Penal times by local followers going to mass. The path runs alongside the Smearla River and extends from Lyreacrumpane Community Centre towards Castleisland. It passes the local Church and access is provided to the Church via an old foot bridge. The trail leads onto the main Listowel to Castleisland road at Carrigcannon. The trail was upgraded in 2019 with further works carried out in 2020.
- Lickeen There are three looped waymarked trails to help you explore the wood. Castle Rock Loop will guide you through the forest, climbing to about 90m before you descend into an atmospheric ravine before continuing back on forest roads to the trailhead. Lickeen Loop takes in the landmark of Blackstones Bridge before leading you along a trail adjacent to the Caragh River before looping back via the Wood. The Kerry LIFE Loop is the wider loop that incorporates the best bits of the above. The EU LIFE Project LIFE13 NAT/IE/000144 LIFE Kerry Sustainable land use management for the conservation of the freshwater pearl mussel is on-going in this area.

Many Coillte forests in this BAU are expansive and offer multiple activities such as walking, hiking, multi access and long distance trails cycling on new bike trails, fishing, picnicking, watching wildlife, canoeing, field archaeology or simple enjoyment of the outdoors. Farran Forest Park is an example of a small park that has a lot to offer in terms of activities and features. Facilities on site include aerial trails (Zip-it), playground, toilets, car park, picnic sites, deer enclosure. It has a diverse mixture of tree and shrub species that make it attractive all year round for visiting. It's location on the southern shore of Inniscarra lake offer fantastic views of the reservoir and the many rowers at every level who train here, from amateur to Olympian. The lake or reservoir was created in the mid-1950's by flooding agricultural lands to store water for the nearby Inniscarra hydroelectric generating station.

This BAU has a number of designated areas for recreational activity, and these are detailed on the Coillte website <a href="http://www.coillte.ie/our-forests/attractions/">http://www.coillte.ie/our-forests/attractions/</a> and are also listed in 'Discovering Irelands Woodlands' (Coillte) booklet under counties Cork, Limerick and Kerry. See <a href="https://www.coillte.ie/our-forests/attractions/">https://www.coillte.ie/our-forests/attractions/</a> and are also listed in 'Discovering Irelands Woodlands' (Coillte) booklet under counties Cork, Limerick and Kerry. See <a href="https://www.coillte.ie/our-forests/attractions/">https://www.coillte.ie/our-forests/attractions/</a> and are also listed in 'Discovering Irelands Woodlands' (Coillte) booklet under counties Cork, Limerick and Kerry. See <a href="https://www.coillte.ie/our-forests/attractions/">https://www.coillte.ie/our-forests/attractions/</a> and are also listed in 'Discovering Irelands Woodlands' (Coillte) booklet under counties Cork, Limerick and Kerry. See <a href="https://www.coillte.ie/our-forests/attractions/">https://www.coillte.ie/our-forests/attractions/</a> and are also listed in 'Discovering Irelands Woodlands' (Coillte) booklet under counties Cork, Limerick and Kerry. See <a href="https://www.coillte.ie/our-forests/attractions/">https://www.coillte.ie/our-forests/attractions/<a href="https://www.coillte.ie/our-forests/">https://www.coillte.ie/our-forests/<a href="https://www.coillte.ie/our-forests/">https://www.coillte.ie/our-forests/<a href="https://www.coillte.ie/our-forests/">https://www.coillte.ie/our-forests/<a href="https://www.coillte.ie/our-forests/">https://www.coillte.ie/our-forests/<a href="https://www.coillte.ie/our-forests/">https://www.coillte.ie/our-forests/<a href="https://www.coillte.ie/our-forests/">https://www.coillte.ie/our-forests/<a href="https://www.coillte.ie/our-forests/">https://www.coillte.ie/our-forests/<a href="https://www.coillte.ie/our-forests/">https://www.coillte.ie/our-forests/<a href="https://www.coillte.ie/our

There are also a number of Waymarked Ways passing through Coillte property in the BAU. These include:- The Dingle Way, The Kerry Way, The Beara Breifne Way, **Sheep's Head Way** and Duhallow Way.

Coillte have been at the forefront in developing Ireland's first off-road cycle trails over recent years. These trails have been very successful and we receive numerous requests for new trail development around the country. Coillte has just completed the development of an off-road cycling strategy to examine the best potential locations for future trail development.

We seek to provide high quality, authentic and safe experiences for all our visitors. One of the key issues for providing for safe cycling on the estate, is the development of sustainable trails and this requires a strategic approach to a national, regional and local trail offering. We have and are working closely with key partners in this strategic work, including Cycling Ireland, Fáilte Ireland, the National Trails Office and the Dept. of Environment, Community and Local Government. Further queries can be directed to <a href="mailto:info@coillte.ie">info@coillte.ie</a>

# 2.4 Cultural and Archaeological Heritage in the South West Munster BAU

Coillte is aware of some 328 archaeological sites and sites of cultural significance in its landholdings in the South West Munster BAU. These monuments include megalithic tombs of different kinds, ring forts, standing stones, Hut Sites and other enclosures. A summary of archaeological sites in the BAU is provided in <u>Appendix I</u>

With support and advice from the NPWS, Coillte has developed a Code of Practice in order to protect this archaeological and cultural heritage.

Many historical land acquisitions contain farmsteads and features representing rural life in the 19<sup>th</sup> and early 20<sup>th</sup> century. These are identified and protected within forest management practices and identified when proposals for

sales are being developed. They are evaluated in terms of their social and historical value and a plan implemented for their preservation.

The BAU will continue to support sites of cultural and literary heritage such as that at Curragh Chase House, Castlefreke, Killochloane Mass Rock, charcoal pit at Shippool Wood, the famous 'Kerryman's Table' located on the famed Kerry to Cork 'butter road' and a summer house located at Currabinny Wood. Coillte will also continue to identify, protect and record all new items of heritage which are discovered on its lands. These sites provide valuable information about our history and represent an important educational and recreational resource.

The BAU supports local initiatives such as the Sprigging School in Rathbarry in association with the tidy towns committee.

A limekiln close to Union Hall within the forest property of Bawnlahan has been restored by the local historical society.

An old peat factory is currently in the process of being restored in Kimego near Caherciveen in association with Kerry County Council.

# 2.5 Biodiversity and High Conservation Value Forests (HCVF) within the South West Munster BAU

Habitats and features of biodiversity value on the Coillte estate are identified, mapped and protected during forest operations. The table below shows that approximately 12,729 ha of Coillte land in the South West BAU is protected during operations or enhanced to increase its biodiversity value. This equates to approimately 20% of all Coillte land in the BAU.

Areas protected or managed for biodiversity are spread across the BAU area and vary widely, both in terms of their size and in terms of the habitat type present.

Broadly, there are three main types of site protected for biodiversity: Biodiversity Areas, Biodiversity Features and Riparian Buffers. Biodiversity Features and Riparian Buffers can occur anywhere on the estate, including within Biodiversity Areas, so there is some overlap between these three categories.

		Area (ha)
Biodiversity Areas	Habitats that have particular ecological value as identified and mapped by ecologists	10,152
Biodiversity Features	Small features (usually <2ha) that add biodiversity value to the forest stand, protected during forest operations	994
Riparian Buffer Strips	Strips of land that adjoin streams, rivers and lakes, and are managed for their protection.	2,528

(\*Overlap occurs between categories)

# Biodiversity Areas

Biodiversity areas are essentially areas that contains habitats and species of nature conservation value that occur on the Coillte estate. They vary widely in terms of the habitat types present and their ecological value. Between 2001 and 2005, Coillte undertook a major ecological survey, aimed at identifying habitats throughout the estate that had some particular value for nature conservation. A preliminary review of Coillte's forest inventory, along with the extensive knowledge of Coillte's foresters, revealed the location of potential biodiversity areas within a broad range of site types. Ecologists surveyed the potential biodiversity areas, and assessed their habitat value, based on standard scientific principles. Following consultation with Coillte forest managers, most of the sites identified in this survey were adopted as Coillte biodiversity areas. Also recorded are riparian buffers, which are

mapped along streams and rivers and converted to open habitat and/or scrub, in order to protect water quality. The biodiversity areas were incorporated into the forest management planning for the BAUs.

Coillte have since developed BioClass, a science-based procedure for assessing the ecological value of biodiversity areas within the Coillte estate. This system categorises biodiversity areas into four BioClasses. These range from BioClass 1, the areas of highest ecological value, to BioClass 4, areas that currently have low-to-moderate value but may have potential to develop in future into habitats of high ecological value. In general, sites that most closely resemble natural habitats have the highest value for biodiversity. Based on a review of biodiversity indicators, published in the scientific literature, we have worked with experienced consultant ecologists to define "naturalness" in terms of a series of natural values and biodiversity features which indicate the value of the site for biodiversity. The benefit of BioClass is that the biodiversity information is summarised and provided to Coillte staff in a more accessible manner.

Approximately half of Coillte's biodiversity areas are forest habitats: native forests, broadleaf forests, mixed conifer-broadleaf and conifer forests. Also, half of the biodiversity areas are open habitats: mostly bogs and heaths, with some specialised habitats such as limestone pavement and coastal habitats. Some biodiversity areas have very high ecological value and are significant at national or international level, while others are of moderate value and are significant at a more local level.

Each year, the Coillte Ecology Team works with the BAU to prioritise biodiversity areas for management action using a biodiversity register of all the biodiversity areas within the BAU. These sites are identified on a rolling programme each year.

# Old Woodland Sites

Coillte recognises that woodland sites with a long history of woodland cover have potential ecological value. Old Woodland Sites (OWS) are sites that have been wooded since the 1830s. Old woodland sites are variable in terms of their biodiversity value – some show no remaining evidence of the former (pre-plantation) forest cover. However, there are sites where remnants of a former, ecologically mature forest remain clearly in evidence, e.g. veteran trees, large-dimension dead wood and well-developed woodland ground flora. These old woodland sites have the best biodiversity value, and as such, they are identified and managed as biodiversity areas.

Coillte policy is to assess and survey all OWS in advance of clear felling or high-impact operations. Any site identified as having many natural features present is brought to the attention of the company's ecologists for assessment and, based on the findings of the ecological assessment, is then mapped and managed as a biodiversity area.

# **Biodiversity Features**

Biodiversity features are small features (usually <2ha in area) that have value for biodiversity. They occur across the whole estate and are protected wherever they occur. The types of biodiversity features that occur on Coillte sites include: small pockets of open habitat within the forest (usually heath, bog or small wetland); small stands of scrub (broadleaved scrub or open stands of poorly-grown conifers); locations of particular species of flora and fauna; veteran trees or deadwood.

Coillte staff and contractors continue to find, map and protect biodiversity features on operations sites.

# Riparian Buffer Strips

Riparian buffer strips are portions of Coillte sites that run alongside watercourses (rivers, streams or lakes). In all forest operations, the standard width of buffer strips is 10-15m. This width may be increased on certain site types. The creation and management of riparian buffer strips is described in standard documents produced by the Forest Service of the Department of Agriculture, Food and the Marine.

The purpose of buffer strips is to protect watercourses from any potential damage that may arise during forest operations. Conifer trees that were planted in riparian buffer strips in the long-distant past (when forestry policy was were very different to today) are removed and the strip is either left open to revegetate naturally. Sometimes, clumps of native broadleaves are manually planted in the buffer strip.

Over time, the buffer strips develop into open habitat or scrub alongside the watercourse or lake, and have considerable wildlife value. As with the biodiversity features, the area of riparian buffers increases over time, as

more are mapped on operations sites and converted to open habitat and/or scrub.

# 2.6 High Conservation Value Forests (HCVF) within the South West Munster BAU

Coillte's certification process requires that we identify areas of high conservation value forests (HCVF) across the forest estate. High conservation value forests are areas, not necessarily under forest, that are considered nationally or internationally important for nature conservation and have recognised conservation values associated with them. Two high conservation values have been identified for Coillte estate namely:

1. Forest areas containing globally, regionally or nationally significant concentrations of biodiversity values (HCVF 1);

The main focus of this HCVF criterion is protection of species (plants and animals), and the objective is to protect sites that contain important locations for species considered to be endangered.

2. Forest areas that are in or contain rare, threatened or endangered ecosystems (HCVF3).

The main focus of this HCVF criterion is protection of habitats that are considered to be rare or endangered. The objective is to protect sites that contain these habitats.

In Ireland, HCVF is defined as sites that have a statutory designation for nature conservation, either nationally under the Wildlife Act as Natural Heritage Areas (NHA) or under European Law (Habitats Directive) as Special Areas of Conservation (SAC) or Special Protection Areas for birds (SPA). The selection, mapping and designation of sites for nature conservation is conducted by the National Parks and Wildlife Service.

HCVF areas may be quite large, such as Special Protection Areas in the west of Ireland for hen harrier conservation, or they may be quite small such as an old house within a forest which hosts an important roosting site for bats. They may also occur on non-forested lands such as the Atlantic blanket bogs in the west and the raised bogs of the midlands.

There is some overlap between HCVF and Coillte biodiversity areas. Some of the large SPAs contain extensive habitats that have low intrinsic ecological value, but that form part of the territory of the bird(s) for which the SPA is designated (hence the large areas of HCVF that doesn't overlap with Coillte biodiversity areas).

Under Article 6(3) and 6(4) of the EU Habitats Directive, all forestry operations throughout the Coillte estate undergo Appropriate Assessment screening to determine if there are any likely significant impacts on the Qualifying Interests (QIs) of SACs and SPAs (i.e. HCVF). If it is concluded that significant impacts are likely, then a full Appropriate Assessment is required which identifies the mitigations required to ensure there are no impacts on these designated sites and their QIs.

The table below shows statutory designated areas and HCVF in the Midlands BAU. Areas shown are in hectares (Ha).

Designation	Area (ha) on Coillte lands
NHA* – Natural Heritage Area	288
SAC* - Special Area of Conservation	4209
SPA* – Special Protection Area	19,302
Nature Reserve	427
pNHA	2880
TOTAL HCVF	23,835

(Overlap occurs between categories)

The South West Munster BAU achievements in relation to nature conservation include the following:

• Approximately 2,136 hectares of Old Woodland sites in the BAU and a number of these are being managed as OWS to retain their semi-natural characteristics:

- One Alluvial woodland site has been restored:
- Habitats regulation assessments take place in relation to all works on designated sites.
- 7 hectares of Yew woodland at Curragh Chase Forest Park restored under EU LIFE project;
- One People's Millennium Forest, Rossacroo with 15 hectares planted with native species.

# 2.7 Species and Habitats in The South West Munster BAU

The BAU contains many special habitats including excellent oak/birch/holly woodlands, mixed broadleaf woodlands, raised bog, and blanket bog. Notable animals in the BAU include the Little Egret, Fresh Water Pearl Mussel, Hen Harrier, Kerry Slug, Killarney fern and the Lesser Horseshoe Bat.

The BAU aims to maintain and where possible enhance habitats of ecological value and those that support species of ecological interest. Where species and/or habitats are a Qualifying Interest for a Special Area of Conservation (e.g., freshwater pearl mussel, blanket bog) or a Special Protection Area (e.g., hen harrier), the Appropriate Assessment process determines if any potential significant impacts on these species or habitats, and if so mitigation measures are detailed in a Natura Impact Statement. Biodiversity Action Plans which were developed by Coillte for the hen harrier and the freshwater pearl mussel continue to be drawn upon. Close communication will be maintained with the NPWS on matters relating to species and habitats of nature conservation concern.

Appendix II details the main habitats and species of interest within the BAU (some occur within designated sites such as SACs, SPAs and NHAs i.e., HCVF, while others incorporate habitats and species of wider ecological value). The management approach is described in brief.

# 2.8 Invasive Species in The South West Munster BAU

Within the BAU there are a number of species that are not native to Ireland and which are capable of having a negative effect on native biodiversity. Most notable from a Coillte point of view are Rhododendron and Japanese Knotweed which are significant issue on our properties.

In line with international best practice, when controlling invasive species (including Rhododendron), the BAUs resources are focused on priority sites based on:

- 1. The site's uniqueness (e.g. whether or not they are Priority habitats, as per EU Habitats directive),
- 2. Whether the presence of Rhododendron is likely to facilitate the spread of the exotic disease *Phytophthora* ramorum
- 3. The site's intrinsic ecological/biodiversity value (e.g. are they High Conservation Value Forests or biodiversity areas).
- **4.** The social value of the forest (e.g. the extent to which the forest is used as a recreational facility/proximity to urban population).

# 2.9 Water Quality and Protection in The South West Munster BAU

In terms of water, the BAU is dominated by the South Western River Basin and the Shannon International River Basin. The main rivers include The Kerry Blackwater, The Lee, The Bandon, Blackwater (Munster) Laune, Feale and Shannon. The rivers and lakes of the area support important salmon and trout fisheries and this is also important to the local economy. There are also associated freshwater pearl mussel populations. There are number of Fresh Water Pearl Mussel (Margaritifera, margaritifera) (FPM) catchments within the BAU including Carragh, Cummeragh, Kerry/Blackwater, Ownagappul.

Coillte abides by all Forest Service Guidelines, Regulations and Requirements in regard to protecting water quality, and in particular the Forest Service Guidelines on Water Quality, which detail sound and practical measures for handling forest operations in proximity to waterways. As the largest landowner in the counties Kerry, Cork and Limerick BAU Coillte has a responsibility to ensure that it's actions do not negatively impact on water quality. Within the BAU the following are the most significant issues relating to water:

Water abstraction for domestic use

- Presence of the rare fresh water pearl mussel species
- Presence of important salmonoid rivers, such as the Laune, Feale and Munster Blackwater.

When planning forest operations all the issues listed above are considered. During this process, Coillte will liaise with a wide range of environmental regulators, including the Forest Service, Inland Fisheries Ireland, Shannon and South West River Basin Districts, NPWS and local authorities, particularly with regard to the potential impact of forest operations in proximity to environmentally sensitive waterways.

A list of all catchments and sub-catchments located in BAU 6 is provided at Appendix VI and all relevant maps and water quality status are publicly available at <a href="https://www.catchments.ie">www.catchments.ie</a>, (select 'View Data and Dashboards').

Coillte actively plays its part in protecting the water bodies water quality. Prior to the commencement of all forest operations, an Appropriate Assessment (AA) screening is conducted in order to determine if there is any potential impact on aquatic Qualifying Interests (QIs) for European sites that are hydrologically linked to the project area. If a full AA is required, a Natura Impact Statement (NIS) is produced, which outlines the mitigations that will be applied to protect aquatic Qis. These mitigations include the standard measures that are applied to protect water quality (DAFM 2019) such as exclusion zones adjacent to aquatic zones during clear-felling operations and establishing setbacks at the reforestation stage. Reference is made on how the trees are to be removed and prohibition of machinery movement in the exclusion zones during forest operations. Additional non-standard mitigations are applied as required, depending on the nature of the operations, the site characteristics and the sensitivity of any receptors. These may include restricting the timing of operations, establishing wider setbacks or low impact cultivation methods.

If the proposed forest operations site is judged to be water sensitive (as identified in the ERA process), a water monitoring programme will be put in place. This will comprise of daily visual assessment and recording of surface waters draining the site during operations and the immediate adoption of appropriate contingency measures where discolouration of the water is observed. On the most sensitive sites, this monitoring process is backed up with short-term water sampling. Typically, this sampling would be of short to mid duration, lasting a few weeks to several months, depending on the duration of the forest operation. Sampling consists of taking samples from the main tributaries draining the forest site, before, during and after operations are completed.

The adherence to the EU Water Framework and Habitats Directives, has significant implications for forest management in the BAU. It highlights the potential pressures of forests on water quality and increased risks from erosion and sedimentation. The need to move away from monoculture blocks of forests towards restructured forest stands has been recognised in the BAU. When restocking after clear felling, an extensive network of new buffer zones will be established to protect adjoining watercourses. Drainage and cultivation practices on these sites are also designed to minimise their impact on local water. Coillte will continue to work closely with the relevant statutory bodies and assist where possible with their water and fishery rehabilitation plans

# 2.10 Forest Management Issues in The South West Munster BAU

**Coillte's** South-West Munster BAU faces several issues in relation to managing its forests effectively for timber production while also promoting their use for their recreational, environmental and social purposes. The BAU borders three counties in Northern Ireland; Co. Derry, Co. Tyrone and Co. Fermanagh. Over the past 5 years these have included:

- Poaching of deer; The increased level of poaching in the recent period has put greater emphasis on security.
- Illegal use by motorised vehicles, inappropriate recreation with quads and motorbikes
- Security; risk of major losses through theft, vandalism of property, and crop damage. To minimise this loss the BAU has commenced the implementation of the **Company's** security policy, in the BAU we have a contractor assigned to security of the estate.
- Litter and waste dumping; The majority of illegal dumping of domestic waste occurs where forests adjoin public roads and at forest entrances. The problem is extenuated in rural and remote areas but in close proximity to large urban areas. Coillte work closely with available Litter wardens to try combat this increasing problem.

• Anti-social behaviour; Coillte are investigating the most appropriate methods of security including the development of cameras in order to reduce this problem and lead to prosecutions.

Coillte implemented by-laws for access to and use of Coillte managed lands. Recreation sites where there are ongoing issues such as illegal access on motorised vehicles, dumping, anti-social behaviour etc. will be prioritised as candidate sites for installation of the relevant signage. These bye-laws may be enforced by the Garda Siochana and offences may be liable to a fine and/or imprisonment. Coillte have supported the development of new national enforcement powers which will make it an offence to use a scrambler or quad bike on public or private lands, including Coillte lands, without the permission of the landowner. These new laws will afford Gardai the power to seize scrambler bikes and other off-road vehicles.

# 2.10.1 Deer Management in The South West Munster BAU

Wild deer on Coillte's estate is managed in accordance with accepted principles of Sustainable Deer Management (SDM) whereby, the conservation, control and use of the species will be balanced in order to achieve an integrated and collaborative solution to achieving viable deer populations across the Coillte estate at levels which are in harmony with their environment. To this end Coillte maintain Deer Management Plans (DMP) for all areas where deer are present.

Wild deer are present on over 60% of the Coillte estate. Through browsing and bark-stripping trees, deer can have a considerable negative impact on any tree crop and on tree species selection as well as the quality, yield and survival of forest crops. Deer can also impact land use objectives on neighbouring lands and can be a major health and safety hazard, particularly on public roads.

Deer are wild animals free to roam across large areas of multiple land ownerships. They are a protected species, and one which attracts considerable attention and differing views as to how they should be managed. A key aspect of successful deer management is establishing a collaborative approach between all key stakeholders within the deer's range at landscape level. A considerable element of this process is the acceptance of shared responsibility by all landowners in the area of their role to ensure the effective management of the deer utilising their lands.

Coillte have demonstrated considerable commitment and leadership in recent years in developing collaborative deer management and the establishment of training standards for deer hunters. At National level the company was instrumental in the establishment the Hunter Competence Assessment programme and the Irish Deer Management Forum. This group went into abeyance following the retirement of its Chairperson but moves are afoot to re-convene this forum shortly. In addition, Coillte have been central to the roll-out and adoption of a new on-line Hunter Area Management System (HAMS) within the hunting community in Ireland. At Regional and local level Coillte are active participants in a number of deer management partnerships and groups.

The impacts to Coillte's crops are generally localised, predominately in areas with high deer density. A breakdown of deer species abundance has been gathered countrywide coupled with damage inflicted on crops. Damage is mainly confined to the browsing of broadleaved trees and some more palatable conifers such as Scots pine, Douglas fir, larch and Norway spruce. Deer populations are principally controlled through the issue of hunting licences.

Deer management in Coillte is coordinated nationally through a new deer oversight group which was established in **2020. This group is comprised of staff from Coillte's Estates, Operations, Public Relations** and Recreation teams.

Coillte's summary deer management policy can be viewed here Deer Management Policy. As part of planned work for 2021, Coillte's Deer Oversight Group will review and update our current deer management policy and all supporting documentation.

# 3. The South West Munster BAU Fiver Year Forest Plan

We are very fortunate in the BAU in the richness and pristine quality of much of our environment, our wild natural resources and the presence of habitats and landscapes that are cherished both at home and internationally. We aim to maintain and enhance these natural assets and our overall goal is to deliver the multiple benefits of our forests for climate, nature, wood and people.

#### 3.1 Vision

The long-term vision for the BAU is of forestry management at an intensity that is appropriate to the environmental sensitivity and productivity of its land resource. By adopting policies that ensure our efforts are concentrated on timber production in some areas and on habitat restoration in other areas we will maximise the benefits to the environment, local communities and the timber processing industry.

#### This vision includes:

- forestry will be a vibrant industry in the area, integrated into the local economy, providing employment opportunities in the forest, the timber industry and in many downstream activities;
- natural and semi-natural habitats are protected and enhanced through appropriate management;
- there is continuity of forest habitat for rare and threatened species;
- provide a range of recreational activities in our forests to support societal health and well-being;
- forest recreational sites will be a part of the tourism infrastructure and will be an important contributor to the tourism economy;
- sharing our plans with local communities, NGO's and interested stakeholders.

# 3.2 The Forest Resource and Wood Production

Coillte realises its timber sales through planting and felling on its own estates.

#### The Coillte Estate

It is Coillte's policy to achieve the maximum volume potential of the estate consistent with sustainable forest management principles (see Section 4).

# Key Objective 1

In The South West Munster BAU, Coillte aims to produce approximately 2,038,584 cubic metres of wood from its forests between 2021 and 2025.

1,782,467 m3 of this will be provided through felling and 256,117 m3 will be achieved through thinning.

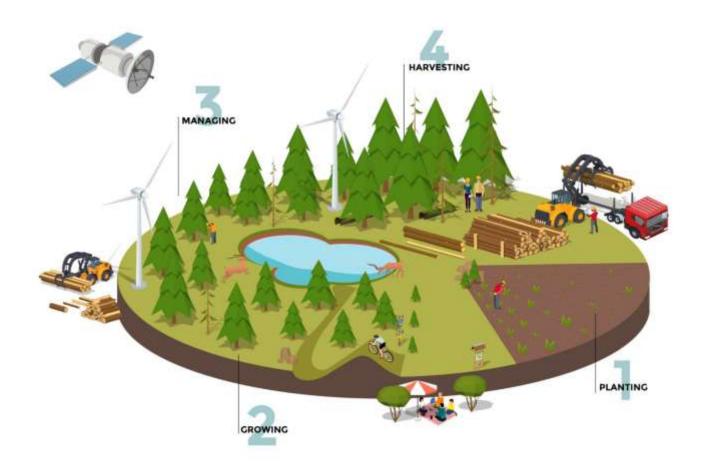


Figure 1: The Forest Cycle

Timber supply comes from two main sources, clear felling and thinning.

Clearfell is the most common silvicultural system used in Ireland and the UK due to the prevailing forest
culture and has predominated over the past century characterized by the establishment of new forest
plantations. The extent of clear felling annually is strictly controlled both externally and internally.
Externally, the extent of annual clear felling is subject to statutory control by the Forest Service. Internally,
control is exercised by the Coillte policy of 'Sustained Yield'. Sustained yield allows our forests to grow and
be harvested at a level that is capable of providing a continuous supply of timber for current and future
generations.

Coillte has introduced a number of Low Impact Silvicultural Systems (LISS) which will apply to some forests in the area. The clear fell system will, however, remain the dominant silvicultural system in the BAU during the plan period. This involves the removal of all marketable trees from an area at the end of the rotation (usually at between 35 to 45 years of age). Due to the poor fertility and the exposed and unstable nature of our sites there is very little scope for alternative systems that remove mature trees more gradually. At clearfell time considerable effort is now put into adjusting felling coupe size and shape to satisfy both environmental and landscape design purposes. Low Impact Silvicultural Systems (LISS) such as 'Small Coupe Felling', 'Change to Broadleaf' and 'Continuous Cover Forestry' are in use in the BAU and it is intended to expand this level where possible during the plan period.

• Thinning is also a natural part of forest management and it involves staged removals of a proportion of trees in a forest over a rotation, and it is a necessary part of standard forestry practice worldwide. Thinning improves the quality of the forest by regulating the space and light provided to trees as they grow. In line with international best practices, Coillte aims to thin where possible all forests to maximise the quality and volume

returns from the estate. Thinning will only occur where the practice can be sustained, namely in forests with no stability threat from high winds. High winds and exposure in the BAU is a limiting factor to thinning and consequently thinning is effectively concentrated in certain areas of the BAU where it is not as exposed and deemed to be more stable. Historically, because of stability concerns, there is limited standard thinning prescriptions used in this BAU with most thinning events having 2 or 3 interventions. The experience in the BAU to date is that thinning interventions of 3 or more often result in wind blow and are therefore not recommended in certain areas of the BAU.

All felling is controlled by the Forest Service which issues felling licences as appropriate under the Forestry Act, 2014; an act which provides for the development and promotion of forestry in a manner that maximises the economic, environmental and social value of forests within the principles of sustainable forest management. Coillte will ensure that all harvesting operations meet Forest Service license requirements and are planned at site level, with full assessment of environmental impact, landscape sensitivity, local consultation requirements and relevant site issues.

All felling proposals for either clear felling or thinning will be consulted on in advance with local authorities, Inland Fisheries Ireland and also the National Parks and Wildlife Service; their recommendations are then fully considered. In addition, Coillte's felling plans are also made available to the public via Coillte's online mapviewer hosted on the Coillte website <a href="here">here</a> and updates to these plans are notified to registered stakeholders on an annual basis. If you wish to register as a stakeholder which ensures you are notified please refer to the contact page on our website for further information.

In addition to our Five Year Forest Plans, our long-term harvesting and restocking plans for each Business Area Unit (BAU) which covers the period 2026 to 2040 can be found <a href="https://here.">here.</a>. Changes to these plans may arise for many reasons such as silvicultural, landscape design, restructuring, etc. Stakeholders are notified of these proposed changes annually. Any queries relating to these plans can be submitted to <a href="mailto:info@coillte.ie">info@coillte.ie</a>.

#### New Planting and Replanting

Under the terms of felling licences, Coillte will fulfil its obligations to replant felled areas.

# Key Objective 2

In The South West Munster BAU, Coillte aims to replant approximately 7,140 ha by 2025.

# Forest Roads

Forest Roads are an essential element of forest infrastructure. They provide access for management, harvesting and transport of timber and enhance the recreational potential of forests. A number of kilometres of new road are constructed each year in the Northwest BAU and there is also the need for maintenance of the existing road network. Where required, we engage with each local authority in relation to areas for harvesting, associated timber volumes and designated haulage routes for the current plan period. Our engineering staff have indicated the optimum layout of our road network and we are gradually extending the roads to this point. This work is ongoing and will not be complete within the timeframe of this plan.

The priority for the road infrastructure over the duration of this plan is to;

- construct approximately 66 km of new roads in our forests
- maintain the existing road infrastructure
- ensure the roading infrastructure complements and supports harvesting access to the forest
- develop road access to areas that are currently inaccessible
- Where required licences to construct the new roads will be obtained from the relevant regulator who consults

with regulatory stakeholders as part of the licencing process

# Key Objective 3

In The South West Munster BAU, Coillte aims to construct approximately 66 km of new forest roads by 2025.

# Factors affecting timber supply

A number of considerations affect the volume of timber that Coillte can achieve from its forests:

- Accessing timber crops can be challenging with both internal (right-of-way issues, poor internal access) and external (right-of-way issues, county council roads/bridges etc.). To address the access issue a list of all relevant areas is currently compiled and these will be prioritised on the basis of timber supply and a plan put in place to address potential issues by assigning relevant personnel. The BAU will consider the use of partnerships to help resolve/contribute to access difficulties on a site by site basis. In addition, a review of the road infrastructure will occur and all new haulage routes will be identified in conjunction with Kerry, Cork and Limerick Co Councils with a view to improving access.
- Nutrient deficiencies Most of the Iveragh Peninsula has been designated acid sensitive. This could have far reaching effects on coniferous forests into the future in this area. Improving the productivity of the forest estate is a strategic goal for Coillte and is also identified in the Forest Service Code of Best Forest Practice. Productivity can be improved through fertilizer application to support sites to reach their full potential growth yield. Fertilizer may be applied manually but for large areas fertilizer application by helicopter can be considered. Aerial fertilization in this manner is only permitted under licence by the Forest Service and after strict nutrient composition and environmental assessments have been completed. The Forest Service will facilitate aerial fertilization to occur where it is deemed silviculturally appropriate to do so and where no undue threat to the environment will occur.
- Coillte's commitment to sustainable forest management and environmental protection requires Coillte to review its practices and assess potential risks on a regular basis. Coillte has achieved sustainable forest management certification and is committed to ensure that there is continual professional development and refresher training for all staff, personnel and contractors to ensure a high environmental awareness and work standard is maintained. This will incorporate a wide range of training days and courses on all environmental issues and continued co-operation with all statutory stakeholders.
- The provision of a harvesting infrastructure that can respond to the environmental challenges will require ongoing training and cooperation of contractors and engaging in all relevant updates on developments in harvesting technology and machine capabilities. This is seen as a central requirement for all contractors wishing to operate in The South West Munster BAU.

# Farm Partnerships

In relation to existing farm partnerships Coillte will:

- develop 10 year plans for farm partnerships that have been in existence for 10 years
- hold annual management meetings with farm partners
- thin farm partnership sites regularly and on time(ensuring all regulatory processes are adhered to)
- carry out an inventory on farm partnership sites
- Construct roads for timber extraction where needed (allowing for completion of road grant application process)

# Key Objective 4

In the South West Munster BAU, Coillte will continue to manage its 71 Farm Partnerships according to the principles of sustainable forest management

# Overall production targets in The South West Munster BAU 2021- 2025

**Coillte's proposed operating** targets for The South West Munster BAU for the period of the plan- 2021-2025 are summarised in the following table.

South West Munster BAU main Coill	e production targets 2021 – 2025
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Annual Totals						
Year	2021	2022	2023	2024	2025	
Establishment						
Planting (ha)						
Regeneration planting (r/f) (Replanting after felling)	1,450	1,500	1,450	1,370	1,370	
Total Planting	1,450	1,500	1,450	1,370	1,370	
Harvesting Programme						
Harvest categories (000m3)						
Thinnings	49	52	52	52	52	
Regeneration felling (P,C,W) felling	385	372	340	341	345	
Total	434	424	392	393	397	
Felling area (ha)	820	809	757	757	750	
Roading Programme						
Roading (km)						
New	20	13	12	12	9	
Upgrading	29	28	27	25	24	
Total	49	41	39	37	33	

# 3.3 Coillte's Non-timber Businesses in South West Munster BAU

# 3.3.1 Renewable Energy Projects

Coillte has been developing renewable energy projects both on its own, in conjunction with co-development partners and with third party developers who require land rights from Coillte in order to facilitate developments. Coillte has explored a range of partnerships and/or joint venture models in relation to its future own renewable energy development ambitions. Having considered its strategic options in 2018, Coillte decided to enter a formal development partnership with the ESB. A new standalone joint venture renewable energy company between Coillte and the ESB was established in November 2021 and the entity is called FuturEnergy Ireland (FEI). Coillte's interests in developing its own energy projects or through other historical partnerships have now transferred to FEI.

FEI adopts a best in class approach for the early stage identification of potential renewable energy projects. This includes a holistic overview of a proposed site and its suitability to accommodate a potential wind farm. At a very early stage an environmental impact appraisal is undertaken and public awareness and consultation programmes are implemented where appropriate.

Within this BAU Five Year Forest Plan period, Coillte as a landowner will continue to consider wind farm proposals and where appropriate continue to facilitate FEI and other third party requests. All FEI and third party energy interests for the sale/lease of turbine areas or access requirements follow an approval process.

It is important to note that Coillte is not a Planning Authority for the purposes of undertaking an Environmental Impact Assessment and granting planning permission in accordance with the Irish Planning and Development Acts (as amended). In the interests of proper planning and sustainable development, the suitability of wind farm development proposals on Coillte property is a matter for the relevant Planning Authority.

The following projects are planned for progression on the Coillte estate within this BAU:

Proposed Coillte / Co Development projects on the Coillte estate in BAU 6 - correct as at February 2022							
Name of Project	Location	Status	No. of wind turbines/(MW)				
Ballinagree	Cork	In-planning (Orsted Co Dev.)	20 (10 Coillte Land)				
Coom Green Energy	Cork	In-planning (Orsted Co Dev.)	22 (16 Coillte Land)				
Cummeennabuddoge	Kerry	Pre-planning (SSE Co Dev.)	TBD				
Gortyrahilly	Cork	Pre-planning (SSE Co Dev.)	TBD				
Inchamore	Cork	Pre-planning (SSE Co Dev.)	TBD				
Total	TBD						

Also, within this BAU Strategic Plan period, planning permission will be sought by a third party for the following projects:

Proposed projects that will seek / are seeking planning permission for wind turbines on the Coillte estate in BAU 6 – correct as at February 2022						
Name of Wind Farm	Name of Wind Farm Location Status No. of wind turbines					
Silverbirch	Cordal Forest. Co. Kerry	In planning	1			
Curraglass Ballingeary Forest, Co. Cork In planning 1						
Total 2						

Over the course of this BAU period, FEI will continue to explore opportunities for small, medium and large scale renewable energy developments on suitable sites for this type of development. Coillte will also continue to facilitate third party developments where appropriate. In all instances, Coillte, through its processes, seeks to avoid significant impacts on nationally designated sites, protected habitats, Coillte's own biodiversity areas, receiving waters and high conservation value forest areas.

Depending on project specific circumstances, turbulence felling or the realisation of relevant habitat management plans may be required as part of that project. In all relevant instances, turbulence felling will be kept to a minimum and only occur where it is required in order to ensure the safe and efficient operation of a wind farm project. In all instances where premature felling is required, Forest Service requirements regarding the provision of replacement lands will be complied with and for turbulence felled areas, a restocking management plan will be implemented that will involve the re-establishment those areas in place of the crop that is felled.

# Key Objective 5

In the South West Munster BAU, Coillte aims to develop/facilitate the development of 7 renewable energy projects in the period to 2025 and will continue to investigate and pursue other opportunities in this area during that period

#### **Biomass Production**

The BAU is situated outside the immediate catchment of the two major pulp processing plants, Medite in Clonmel and SmartPly in Waterford. While at present most of pulp is delivered to these mills every consideration will be given to any pulp requirement/ biomass utilisation plants that may arise in the BAU area e.g. the Astellas pharmaceutical facility in Killorglin, Co. Kerry serving a worldwide market for Prograf – a drug used in treatment of organ rejection in transplant surgery. The BAU has a contract to supply biomass material for an industrial heat application. Biomass can play an important role in reducing greenhouse gas emissions and mitigating climate change and this contract will displace fossil fuels from use at the Astellas facility. Coillte will consider other renewable heat supply opportunities as they arise.

On a number of wind farm sites, particularly in the Rockchapel area, felling of mature timber is necessary in order to avoid wind turbulence. Restocking plans are being implemented to establish short rotation slow growing Lodge pole pine, this material will be harvested for the wood energy market.

# 3.3.2 Land sales and Acquisitions

Coillte manages a 440,000 hectare forest estate nationally and regularly buys and sells land as part of normal estate management operations. Coillte has a dedicated Acquisition and Sales Team who are actively looking to acquire bare land and immature forestry to expand our estate, and to sell land that may provide a solution for individuals, businesses or communities. Each year the BAU sells, leases or develops a limited area of land, for purposes other than forestry. Most sales are made in response to local demand and typically comprise house sites, isolated dwelling houses, small areas of forest to neighbouring land owners and local communities, land to local authorities for infrastructure projects and land for development. Properties sold are those where their value greatly exceeds their value for forestry purposes. A signing-off committee within the company considers all land sales, with larger sales requiring the approval of the Board of Directors. Joint development approaches with local communities are favoured.

It is important to note that no development or lease of lands will be entered into until the consultation/planning process is completed. This includes consultation in particular with local people and communities.

In the course of the period of this plan, properties will be identified which are considered suitable for sale or lease and we will endeavour to consult with the people likely to be affected as these arise.

Coillte also recognises the importance of having its property portfolio registered on the Land Register maintained by the PRA. Coillte will continue to work with the PRA and relevant parties in this regard.

# 3.3.3 Licensed Use of Coillte Lands

Coillte allows permissive access to all of its lands for walking, except those areas closed from time to time for operational purposes. Cycling is allowed on trails and in areas specifically designated for cycling. All other recreational activities are managed under a licencing process to ensure the health and safety of all of our visitors and forest users. These activities can be undertaken by groups or individuals for both recreational purposes and as a commercial activity. Examples of such activities are mountain-bike events, shooting, pony trekking, off-road driving, orienteering and others as requested. Fees may be

applied to licenced events and activities.

The position in regard to these activities is that permission is given under written licence from Coillte. The licence is the formal permission allowing the activity to take place on Coillte lands. It contains a number of conditions and requirements for insurance cover and some of these conditions are specific to the activity and the particular location. Responsibility for issuing the licence, management, processing and safekeeping, rests with the manager at each location. A fee based on the activity is charged for each licence. All the information is available at this location Coillte Recreation Permit

# 3.3.3.1 Licensed Hunting

Game hunting and deer stalking are amongst the oldest forms of forest recreation and continue to be legally enjoyed by many people across the country. Respecting the traditional nature of this activity and recognising the social, environmental and economic benefits which hunting can have, Coillte may permit certain types of hunting on designated areas of the estate. This is in line with Coillte's Recreation Policy and Deer Management Policy as well as supporting the principles of multiple use forestry.

Hunting is managed and regulated through the issue of licences which are subject to open public tender. Available areas are advertised bi-annually via the company's website. Tender bids are evaluated by the relevant BAU personnel in accordance with a standard scoring matrix which acknowledges the annual fee offered, the applicant's previous experience, their commitment to safety, as well as environmental and local interest considerations. Coillte is moving toward a position whereby only persons who have completed an approved competence assessment will be permitted to hunt on its lands. Currently this is a mandatory requirement for all those intending to hunt wild deer.

Coillte have produced a Code of Practice which establishes minimum standards expected of all persons engaged in these activities alongside compliance with licence conditions and national legislation. All of the necessary information on hunting is located here Coillte Hunting Licences

# 3.4 Community, Recreation and Tourism Proposals

Coillte's proposed recreation priorities for the South West Munster BAU between 2021 and 2025 include:

- engaging with local community groups and where possible agreeing partnership arrangements for the maintenance and enhancement of existing recreation facilities and possible development of new ones.
- managing and maintaining all existing recreation sites including waymarked ways to the highest standards.
- managing unauthorised usage of the recreation infrastructure in line with best management practice and security policy.
- sourcing funding and developing new infrastructure including 'access for all' on a based on needs identified in conjunction with stakeholders and funding agencies, and to enhance local tourism potential.

# Key Objective 6

In The South West Munster BAU, Coillte aims to:

- Provide a high quality recreation offering to the public
- Maintain all existing recreation sites to the highest standards
- Work in partnership with proactive communities to upgrade amenity sites

# 3.5 Cultural Heritage and Archaeology Measures in The South West Munster BAU

Coillte, as the largest landowner in the country has a duty of care of the cultural heritage across the estate. All archaeological monuments are protected by law under the National Monuments Acts (1930-1994) and should not be disturbed without prior official approval. Coillte is guided by the Forest Service - DAFM and the National Monuments Service- DHLGH in the best forest practices in the protection of these structures.

All recorded archaeological monuments are highlighted during the planning stage of operations. They are identified and cordoned off on site by the forest manager to ensure their protection. Pedestrian access from the nearest public road, forest road or forest track is provided for such sites at afforestation stage and is established or maintained at reforestation stage. Outside of the these stages of the forest cycle, where professional archaeologists require access to a monument, this can be facilitated locally by Coillte staff. Unrecorded archaeological monuments, when located, are immediately protected and reported to the local Coillte Environmental Manager who in turn contacts the Forest Service Archaeologist for further advice.

The BAU will continue to support sites of acknowledged cultural and literary heritage and will protect and record all newly identified features of heritage that are discovered on the estate.

# 3.6 Environmental Enhancement Measures

The following environmental enhancement measures are proposed for the period 2021 - 2025.

# 3.6.1 Diversification of Tree Species

Coillte policy is to encourage species diversification in order to maintain and enhance the productive potential of its estate and to increase biodiversity in its forests.

To reduce or eliminate the need for artificial fertilisation programmes, a more cautious species selection is being applied within the BAU, so that the species planted will not need supplementary fertiliser over its rotation. This effectively means we are pursuing a policy of planting lodgepole pine or pine/spruce mixtures on the low yielding sites. Diverse conifer species such as Scots pine can also be used in areas of shallow peat. Riparian zones are either left as open space or planted with suitable native broadleaf species.

# 3.6.2 Practicing Low Impact Silvicultural Systems (LISS)

The selection of a silvicultural system on a forest site will be based on a number of different factors. The decisions will be based on: site stability, the management objective of the site (i.e. timber production or biodiversity), and the surrounding landscape.

The list below explains the area where the various silvicultural systems that collectively are known as low impact silvicultural systems (LISS) are adopted. Low Impact Silviculture Systems such as Continuous Cover Forestry, are regarded as alternative methods of silvicultural management to clearfelling. The introduction of LISS systems can only be achieved gradually and can take up to a rotation length to complete. Currently 16% of the productive area of the BAU, is managed under LISS.

Sites on Coillte Estate managed under LISS;

- 1. Old Woodland Sites (OWS)
- 2. All Broadleaf High Forest (BHF) stands are to be managed under CCF
- 3. Amenity sites
- 4. Agreed Biodiversity Areas where current or target habitat is woodland where appropriate according to Biodiversity Management Plan
- 5. Management Units currently listed for management under LISS, where silvicultural system equals Small Coup Felling (SCF), Continuous Cover Forestry (CCF), Long Term Retention (LTR), Natural Regeneration (NRE)
- 6. CCF demonstration sites
- 7. Scots pine stands, where stability and vegetation provides for Natural regeneration

# Key Objective 7

In The South West Munster BAU, Coillte aims maintain and enhance the level of broadleaves in the BAU.

#### 3.6.3 Biodiversity

At present 20% of the Coillte land area in The South West Munster BAU is designated and managed for biodiversity.

Principal methods of retaining biodiversity in the BAU will include:

- Retention of Old Woodland Sites (OWS) Retention of Old Woodland Sites (OWS) which have supported woodland cover since at least 1830 and which have particular importance as reservoirs of native biodiversity. The BAU has 2,144 ha identified as old woodland. This represents 3.3% of the Coillte land in the South West Munster BAU or 8% of the old woodland identified on Coillte's estate nationally. The management of these areas will be in line with Coillte's old woodland sites policy which includes assessing the value of any OWS before felling and high impact operations, and reviewing all sites that received a good rating from ecologists. The results of these assessments determine future management and restocking species.
- Continuing the introduction of riparian buffer zones Given the overwhelming occurrence of streams and waterways in the forests in this BAU, much of our forest design plan centres around buffer and riparian zone management. As current coniferous crops are clear felled, opportunities arise to create riparian areas both within and around the forest properties. These new areas will be managed as a mixture of open space and native broadleaf species such as Rowan, Birch, and Willow.
- Retaining dead wood in all forests managed by Coillte is policy, where consistent with health and safety requirements. Ecologically, dead trees are as important as live ones in natural forest ecosystems. They are important structural elements in a forest and support a wide range of invertebrate and vertebrate animals, and epiphytic and saprophytic plants and fungi. Dead and decaying wood can provide habitats for more than one-fifth of the woodland fauna. In the UK, 34% of scarce invertebrates depend upon dead wood. Dead and decaying wood also influences the flow rate and organic debris in forest streams and rivers. The intention is that the concentration of deadwood will be the highest in semi-natural woodlands (biodiversity areas and broadleaved stands) where large trees will be allowed to grow old and die off on site. On all sites being surveyed by inventory staff, deadwood stems are being recorded. Coillte also record deadwood both fallen and standing after harvesting events and when completing 4 year old crop assessments. Below are figures for the period 2019-2021. Figure for 2016-2018 can be made available upon request.

# Standing Deadwood

High Forest Area (ha)	No Plots Measured	Area of plots measured Sample (ha)	Representative population measured (ha)	% of population measured	Av deadwood vol measured across the population (m3/ha)	Tot Vol in the Population (m3)	Av BAU Vol per ha (m3/ha)
55,581	1,767	70.68	17,870	0.40%	25.66	458,544	8.25

#### Fallen Deadwood

Av Annual Vol (m3) High Fo	orest Area (ha) Av Annual Vol BAU (m3/ha)*	across Av Vol across BAU Target Vol (m3/ha)	na)
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41,240	55,581	0.74	5.94	4

<sup>\*(</sup>Average Annual Volume figures are based on an average of 3 years)

- Carrying out survey and monitoring of important species and habitats, and of water quality to ensure their protection and enhancement, where possible.
- Participating in biodiversity action plans for priority species and habitats in partnership with others.
- Long term water quality improvement through changes in practice and the reduction in use of chemicals.
- Monitoring sites that were the subject of EU LIFE projects during the period of the last BAU strategic plan, and engaging with partners in developing new habitat management projects.
- Controlling invasive species (such as Rhododendron) on the Coillte estate, through planting of appropriate species.
- Coillte are committed to implementing a maintenance program for the native woodland sites over the duration of the plan.

Area Coillte Land in BAU	Biodiversity Areas (BioClass)	Riparian Buffers	Biodiversity Features	Total Area Managed for Biodiversity in BAU (ha)	Total Area Managed for Biodiversity in BAU (% Coillte Land)
64,594	10,152	2,528	994	12,729	20%

#### Key Objective 8

In The South West Munster BAU, Coillte aims to review, manage and maintain the areas of biodiversity

## 4. Sustainable Forest Management Policies and Proposals

Coillte manages its forests to FSC\* and PEFC Forest Certification Standards and OHSAS 18001 Occupational Health and Safety Standard. Coillte are also committed to energy efficiency and in 2021 successfully achieved ISO 50001 certification status for its energy management systems.

#### 4.1 Using Forest Design

The BAU recognises its responsibilities to ensure that its forests are planned and managed in a manner that enhances the landscape. BAU team members have been trained in forest landscape techniques and design. All of the forests (and associated properties) have been given a landscape sensitivity designation of high, medium or low. Each forest therefore requires attention to a greater or lesser extent based on these ratings. The production and implementation of a landscape plan is a constantly evolving process which is under continuous review.

A number of factors will be addressed when drawing up a landscape plan. Felling coupe size is one of the most important of these. As a general rule felling coupes adhere to Forest Service regulatory guidelines, at the time of publishing is a maximum of 25ha. To this extent, BAU team members have identified coupes which were greater than 25ha and redesigned/restructured these areas as necessary. There may be situations where felling coupes of greater than 25ha will be necessary, and these will be treated on an individual basis, with the appropriate assessment and consultation process carried out prior to any felling taking place. Other factors and constraints which need to be considered are; age and structural diversity, limited species selection, soil type, windthrow risk, elevation, deer abundance and buffer zone management. These factors are by no means exhaustive. For example, in recent times the disease Phytophthora ramorum has spread in certain locations in Ireland. The disease can kill Larch species, which was always considered a valuable species in terms of providing colour in a landscape. The disease has been detected in the BAU, and it will have an impact on species selection when planning landscape design.

Also, given the occurrence of streams and waterways in the forests, much of our forest design plan centres around buffer and riparian zone management. As current coniferous crops are clear felled, opportunities arise to create riparian areas both within and around the forest properties. These new areas will be managed as a mixture of open space and native broadleaf species such as Rowan, Birch, and Willow.

#### 4.2 Water Protection

Coillte's Policy on water protection and water monitoring is outlined in "Environmental Risk Assessment (ERA) Procedure for Site Operations". This document details our approach to minimising the impacts of forest operations on water quality. We also ensure compliance with the Forest Service's Code of Best Forest Practice, which includes a series of standards and guidelines.

Through the implementation of Environmental Risk Assessment (ERA) and Appropriate Assessment (as per the EU Habitats Directive), the most sensitive sites are identified and appropriate management measures above and beyond what is routinely adopted are recorded and implemented during the course of the forest operations.

Forestry operations Note deletion go through an ERA which is supplemented by AA processes and identifies any potential impacts on Qualifying Interests (QIs) of European sites within the Zone of Influence of the project site (e.g. due to a decline in water quality) and identifies appropriate measures that should be applied. Any mitigations required to protect QIs are clearly stated in Natura Impact Statements produced as part of the AA process and are listed on the Appropriate Assessment Determination (AAD) produced by DAFM for licenced activities. AA reports are produced by ecologists who consult with the Environment Team in relation to the highly sensitive sites that are identified by the ERA process.

Amongst the suite of measures that can be applied to protect water quality, one of the most important is the establishment of setbacks along aquatic zones within the forest. If not already in place from the time the forest was initially planted, a naturally vegetated setback should be established either at thinning or clearfell and restock stage. As stated above, many of the measures that are applied are standard measures (DAFM 2019) designed to protect water quality. Additional measures are applied as required depending on the nature of the forestry operations, site

characteristics and sensitivity of the receptors.

For activities that might impact on highly sensitive species such as freshwater pearl mussel (FPM), measures applied may include increased setbacks along aquatic zones which are hydrologically linked to FPM populations and planting of small groups of native broadleaves. The width of the setback depends on proximity to the FPM population (10-40m or more). Timing restrictions for works and/or weather conditions under which works should take place may also apply, again depending on the proximity to the FPM. Measures to be applied and licence conditions appear in the site packs issued to all contractors so that they are aware of additional measures that must be taken to protect water quality.

In order to ensure there is maximum protection for water quality in highly sensitive catchments, BAU6 are piloting a catchment management approach to planning forestry operations in or near Top8 FPM catchments. In some catchments, drain blocking and bog restoration may be appropriate, not restocking (enlarged set back zones) and/or destocking altogether. The potential for any of these options can only be made on a case-by-case basis following an ecological and in some cases hydrological survey. A key focus should be ensuring no significant impact on any Qualifying Interests and balancing actions with carbon neutralisation requirements.

Other measures to protect water quality include the restriction of when operations can occur in the year, the provision of silt traps, the minimisation of machinery movement in the setbacks and exclusion zones, extraction route layout and use of brash and the design and location of temporary bridging over watercourses within the operations site. The measures to be applied are set out in the Appropriate Assessment reports produced for the operations which are the site packs. They are based on the characteristics of the site, nature of the proposed operations, environmental and ecological sensitivities of the surrounding area.

To address the risk of oil spillages from forest machinery, a pollution control plan is included in the Site Activity Pack and a pollution control kit is on site for all high impact operations. Forest operations are actively managed and monitored. On the most sensitive of sites, daily visual monitoring is conducted of all watercourses exiting the **operation's site and records kept. On a selection of these sites, short**-term water sampling of 'high impact' forest operations described in Section 2.8 is carried out. In addition, long term fixed sampling sites on selected river(s) has been established in the BAU. The purpose of this sampling is to determine the cumulative impact of forests and associated forest practices have on water quality.

In highly sensitive catchments, other land use management options may be considered to protect water quality e.g. rewilding and/or bog restoration. Bog restoration is appropriate where there is potential for restoration i.e. sites on deep peat where it is possible to raise the water table and re-wet the bog through low impact interventions such as drain blocking and removing trees. Bog restoration has potential benefits for water quality, biodiversity and carbon sequestration.

Rewilding may be more appropriate in other areas which would require high impact interventions to achieve bog restoration e.g. cutover bog or plantation forest on cutover bog. Rewilding of existing plantation forests involves actions such as respacing to open up the canopy and promote development of the ground flora, and species diversification of the canopy, creating wide, vegetated setbacks (buffer zones) along rivers and streams, and planting native trees and shrubs where appropriate. Rewilding has potential benefits for enhancing natural and semi-natural habitats, as well as protecting water quality.

Finally, as well as complying with regulatory requirements, the BAU when planning forest operations in sensitive landscapes consults with the relevant regulatory, statutory and interested stakeholders on the topic of water, including the National Parks, Wildlife Service, LAWPRO, the Inland Fisheries Ireland, and Co. Councils

#### 4.3 Reducing Use of Chemicals

#### Pesticides

Coillte uses an integrated pest management approach; a core principle of Coillte's Environmental Management System and both the FSC and PEFC certification schemes. As such, Coillte is committed to reducing its pesticide usage and, where possible, to using non-pesticide methods to control pests and weeds. Pesticides are applied only

when absolutely necessary due to environmental considerations and cost. The decision to apply a pesticide is based on a site assessment, and only taken where non pesticide control options are unlikely to give sufficient protection. When pesticides are required, only those approved as safe for use in forestry by the Pesticide Registration & Control Division (PRCD) of the Department of Agriculture, Fisheries and Food (the regulatory body for pesticide use in this country) and FSC listing of Hazardous Chemicals are used. All of Coillte's operators are fully trained in health and safety and environmental aspects of the use of chemicals. We erect notices to inform the public where the chemicals have been sprayed. The chemicals are always applied manually directly to the base of trees and away from watercourses and other sensitive natural features. Where pesticides are required, their storage, usage and disposal all comply with national pesticide legislation, EMS, FSC and PEFC guidelines and Health and Safety guidelines.

During the previous plan period 2016-2020, the insecticide used to control the weevil was cypermethrin (10% w/w), otherwise known as Forester, which was used under derogation from FSC (details available upon request). In 2019, use of cypermethrin ceased and was replaced with a chemical called acetamiprid (20% w/w), commercially known as Gazelle SG or Ceta which is approved by the PRCD for use in plant pre-treatment and top-up spraying applications in Ireland.

The figures below refer to cypermethrin use nationally during 2016-2020 as referenced in Appendix IV.

					Plant	ing Hectare:	s Previous 4	Years		
		Reporting Year	Cypermenthin (Ltrs)	Cypermethrin KGs A.I.	2013-2016	2014-2017	2015-2018	2016-2019	KGs A.I Planted hectares	% Reduction v 2016 Baseline
Derogati	on Baseline Year	2016	6,264	626.4	26,292				0.023824738	
	Year 1	2017	5,765	576.5		28,305			0.020367426	15%
	Year 2	2018	4,798	479.8			27,297		0.017577023	26%
	Year 3	2019	-	-				32,906	0	100%
	Year 4	2020	-	-				0	0	0%
Expired	Year 5	2021	-	-					0	0%

An ESRA Environmental and Social Risk Assessment (ESRA) is intended to inform the site operational plans, site specific risks, and adoption of appropriate mitigation measures. For each chemical used we complete an ESRA. In 2021, as part of our Chemical Use Policy all necessary ESRA's were produced, copies of which can be made available if requested to <a href="mailto:info@coilIte.ie">info@coilIte.ie</a>.

#### Fertilisers

Application of fertilisers to areas to be restocked is only carried out where site fertility is low. Where tree crops develop nutrient problems in later years, foliar analysis is undertaken to determine the quantities of fertiliser to be applied. Where required, aerial fertilisation is carried out on thicket stage crops. Approval from the Forest Service is required for aerial fertilisation in the form of a licence before the operation may proceed. These licences go through the Appropriate Assessment (AA) process which identifies any potential impacts on Qualifying Interests (QIs) and identifies appropriate measures that should be applied. This requires the submission of detailed plans and consultation and agreement from the County Council, Inland Fisheries Ireland and NPWS. Adherence to the Forest Service requirements on aerial fertilisation is mandatory. A forest crop is described as 'in check' when tree growth is negligible or has ceased altogether. This usually occurs before canopy closure on nutrient poor sites, when the forest is still incapable of recycling the limited amount of available nutrients within the crop.

#### 4.4 Sharing our plans and consultation

Coillte's policy is to consult widely with stakeholders in formulating its management plans, policies and objectives. Examples of how Coillte consults with its stakeholders are outlined below:

- Consultation on our BAU felling plans takes place on a formal basis with the Forest Service, and by extension with Fisheries Boards, National Parks and Wildlife Service and County Councils;
- Coillte consults at national level in relation to its forests, at BAU level on its Forest Five Year plans and at
  forest operational level in advance of all high impact operations. The Forest Five Year plans are currently
  reviewed on a five year cycle;
- Each BAU hosts consultation meetings with stakeholders annually as part of Coillte's continuing

consultation and engagement. This allows Coillte to discuss issues of common interest with stakeholders.

- A comprehensive stakeholder list is held in each of the BAUs. This includes names of local community
  groups, statutory organisations, non-governmental organisations, farm partners, contractors, customers,
  and many other stakeholders. Coillte carries out an annual update of our stakeholder list to ensure our
  records are as accurate as possible;
- Coillte welcome any member of the community and stakeholders in general to view our website <a href="www.coillte.ie">www.coillte.ie</a> to find out more about what we do. Coillte also encourage stakeholders to make contact with us so that we can answer queries, consider views and respond to any issues raised. Those who wish to be added to our stakeholder register can do so by completing and submitting the contact form on our website.

#### Coillte's stakeholder engagement process on our Five Year Forest Plans

It is Coillte's policy to engage widely with stakeholders in formulating its management plans. The Five Year Forest Plans set out a vision for the forests in each business area unit, and also, how Coillte policies and objectives will be implemented at Business Area Unit level during the period of the plan.

The purpose of Coillte's forest plans is to set out plans for forest management activities that take place in each of our BAU's. In compiling these plans Coillte applies the principles sustainable forest management including potential interactions between forest activities and receptors such as water and soils, biodiversity, archaeology & cultural heritage, landscape, people and material assets.

Some of the topics covered in our forest plans include the following: resource planning, timber harvesting and replanting, timber sales, community facilities and benefits, environmental enhancement measures etc. During the consultation process on these forest plans, Coillte actively engages with stakeholders, in the following ways:

- national newspaper adverts
- regional newspaper adverts
- notices erected at entrances to recreation sites
- consultation via Coillte's website
- emails or letters to our listed stakeholders
- BAU annual consultation meetings
- forest office meetings (by appointment) which allow further feedback

The stakeholder engagement process is carried out in two stages (scoping and draft plan stage) to take input from the public in relation to its forest plans. A map is produced as part of the consultation process, which reflects the areas targeted for clear felling. This map forms the basis of public consultation and if concerns are raised about particular areas they are addressed at this time. Coillte endeavour to take on board inputs during this engagement process, while also balancing diverse opinions and contributions from the public in relation to these plans.

Stakeholders should note that Coillte on occasion have to make adjustments or amendments to our felling plans for reasons such as silvicultural, landscape design, restructuring, market conditions, forest disease and windblow. Any changes are consulted on in line with Coillte's consultation procedures.

#### Incorporation of results of stakeholder engagement in this BAU

Following Coillte public consultation processes, submissions received are acknowledged and assigned to the relevant BAU or business area for consideration, response and possible incorporation into our plans.

A summary of incorporated changes and responses issued by Coillte to stakeholder submissions during Phases 1 and 2 of public consultation received for this Five Year Forest Plan are detailed below.

Incorporation of changes to all Five Year Forest Plans, responses following consideration of consultation submissions

Section	Detail incorporated
	Detail incorporated
reference in plan	
Foreword	In order to align our Forest Plans with current company strategy and create awareness this section was updated to include the following "In practicing sustainable forest management Coillte's aim is to develop its forests in a way that is environmentally, socially and economically sustainable, and to deliver the multiple benefits from our forests for climate, nature, wood and people"
1.1 Coillte	In response to biodiversity being raised as an issue in many stakeholder submissions during both phases of public consultation a paragraph was added headed 'Nature Conservation and Biodiversity' which gives a summary of our ongoing work in these areas.
1.2 Renewable energy	This section was updated to inform stakeholders about Coillte's joint venture company with ESB, namely FuturEnergy Ireland (FEI).
1.4.1 Trees, Carbon and Climate Change	As climate change and carbon storage were topics raised by many individuals, groups, NGO's (Mountaineering Ireland, Irish Water, Inland Fisheries Ireland) section 1.4.1 has been added to our plans providing useful information on how well managed forests have a triple benefit in combating climate change. Please refer to this section for details.
1.4.2	Details of our not-for-profit branch of Coillte, Coillte Nature has been added along with a link to further information on our website. Provision of this information goes towards providing details of our biodiversity and restoration work as requested and acknowledged by stakeholders during both phases of public consultation
1.5 Meeting external challenges, constraints and opportunities	This section was expanded to include sub-sections with information specific to regulatory requirements, pests and diseases, societal expectations, dumping and forest fires. Submissions received raised dumping as a major concerns, especially in recreation areas. Also, there is an expectation in many areas for enhanced and well maintained recreation areas and Coillte have committed to engaging and working with forums in various counties. Also, as dumping is an ongoing issue that requires a lot of resources statistics have been included to demonstrate the negative financial impact on our business.
2.5 Biodiversity and high conservation value forests (HCVF) within the South West Munster BAU – Update 1	Text in this section was reviewed an updated to reflect our work in relation to BioClass which is a science-based procedure for assessing the ecological value of biodiversity areas within the Coillte estate.
2.5 Biodiversity and high conservation	Submissions by Stakeholders Old Woodland Sites (OWS) – During Phase 1 of public consultation 330+ submissions
value forests (HCVF) within the South-West	were received in relation to OWS. Relevant information was provided in our response

Munster BAU – Update	to each stakeholder and updated text has been added to Section 2.5 which sets out			
2	our policy in relation to OWS.			
2.9 Water quality and protection in the South-West Munster BAU	This section was revised to include updated information about measures taken to handle forest operations in proximity to waterways. Also, as required, and referred to in submissions received by individual stakeholders, Irish Water and the Marine Institute this section now includes reference to our catchments and sub-catchments list with access via a link to all relevant maps			
2.10 Forest Management Issues	In response to concerns raised by stakeholders in submissions and through the contact page on our website during the period of consultation, information about measures being taken to control the illegal use of motorised vehicles on our lands have been included.			
3.2 The Forest Resource and Wood Production – Update 1	In response to several queries relating to our felling plans, and to ensure that all those who refer to our plans are fully informed, the following text has been added to the last paragraph of this section 'Coillte's felling plans are also made available to the public via Coillte's online mapviewer hosted on the Coillte website here and updates to these plans are notified to registered stakeholders on an annual basis. If you wish to register as a stakeholder which ensures you are notified please refer to the contact page on our website for further information.'			
3.2 The Forest Resource and Wood	To provide clarification, as requested by an individual stakeholder, Key Objective 4 was re-worded in all plans to read as follows			
Production – Update 2	"In BAU, Coillte will continue to manage its No Farm Partnerships according to the principles of sustainable forest management"			
3.3.1 Renewable Energy Projects	In order to ensure provision of up-to-date information to stakeholders as agreed during consultation on previous strategic plans text regarding the number of planning permitted projects and proposed projects that concern the Coillte estate was updated and is accurate as of February 2022.			
3.6.3 Biodiversity	Retaining deadwood – Actual figures for the past three years (average) for fallen and standing deadwood are provided			
4.2 Water Protection	This section has been reviewed and updated to reflect Coillte's Policy and procedures in relation to Water Protection.			
4.3 Reducing use of Chemicals	This section has been updated to inform stakeholders that use of Cypermethrin as referred to in previous plans has ceased. A breakdown of its use during the previous plan period has been provided as referenced in Appendix IV – Monitoring. Also, information about ESRA Environmental and Social Risk Assessment (ESRA) has been added and text under the heading 'Fertilisers' has been reviewed and updated.			
Incorporation of change  - South West Munster	es, responses following consideration of consultation submissions specific to BAU 6			
submissions received from	elow outlines incorporation of changes, following consideration of consultation om stakeholders/public during Coillte's public consultation stages (scoping and draft 2020 and 2021 for the South West Munster Five Year Forest Plan.			
2.3 Community,	Submission by Stakeholders			
Recreation and Tourism Facilities in	Castlefreke – Our Woods, Our Walks submission requested that additional trails, signage, and management of the forest primarily for biodiversity be considered.			

the South West Munster BAU	Response by Coillte  We endeavour to continuously improve areas we have designated for recreation and work closely with local community groups to maintain and enhance these areas while also ensuring they are managed sustainably. In relation to Castlefreke Woods, information about areas managed for biodiversity as well as details of species diversification were provided as well as our policy in relation to archaeology. Furthermore, access to application forms for trail upgrades / installation were provided and will be considered once received.
2.3 Community, Recreation and Tourism Facilities in the South West Munster BAU	Submission by Stakeholders  An individual Stakeholder requested information about wild camping, littering and dogs in forests.  Response by Coillte  BAU staff provided details as requested. All information requested is published on our website / in our forest plans.
2.3 Community, Recreation and Tourism Facilities in the South West Munster BAU	Submission by Stakeholders  Kerry County Council acknowledged Coillte's work in relation to the development, enhancement and maintenance of the County's recreation facilities in partnership with local stakeholders, including Local Authorities and Community Groups, and also the information in our plan which recognises our positive response to societal expectations in relation to landscape sensitivities, recreation, tourism, illegal dumping, etc.  Response by Coillte
	We were pleased to have received a submission from Meath County Council which acknowledges our work and commitment to engagement with all stakeholders. Our BAU team liaise proactively on an ongoing basis with Kerry Co Co and look forward to continuing with our positive relationship in the future.
2.5 Biodiversity and high conservation value forests (HCVF) within the South West Munster BAU	Submission by Stakeholders  A submission received from an individual stakeholder referred to our management plans for Gortigrenane and Annacarriga, specifically in relation to biodiversity.  Response by Coillte  Coillte set out the management plan for these areas, including details of planned future planting, which will enhance the biodiversity while complying with regulatory replanting requirements.

### 4.5 Monitoring and Evaluation

Coillte continues to monitor the achievement of its objectives and targets using the proforma set out in  $\underline{\text{Appendix}}$   $\underline{\text{IV}}$ . The results of this monitoring will be available at the end of the plan period and published on the Coillte website when the final plans are completed.

Appendix I - Summary of Archaeological Sites in South West Munster BAU

Type of Monument	No. In BAU	SMRS Number *
Anomalous stone group	1	C0091-026
Barrow - mound barrow	1	CO123-004
Barrow - ring-barrow	3	CO043-001, CO048-096, CO141-145
Boulder-burial	1	CO114-061
Bridge	4	CO083-124, CO124-026, KE076-064, KE085-037
Building	1	KE047-043
Bullaun stone	3	CO143-091, KE092-030, KE110-004001-
Burial	4	C0042-082, C0107-030, KE030-024, KE045-046
Burial ground	2	C0005-004, C0081-021
Burnt mound	1	C0048-175
Cairn - radial-stone cairn	1	C0033-065001-
Cairn - unclassified	11	C0013-024, C0033-065002-, C0033-079, C0034-049 , C0034-050, C0034-052, C0049-064, C0098- 039, C0099-023, C0141-144, LI011-115
Castle - tower house	1	KE092-033
Castle - unclassified	1	LI011-119
Causeway	2	LI035-007, LI035-008
Children's burial ground	2	KE089-058, KE101-001
Church	3	C0059-097, C0131-018, C0142-114001-
Clapper bridge	1	C0071-158
Country house	1	CO134-034
Cross	1	CO143-073
Earthwork	2	C0022-170, C0051-009
Enclosure	54	C0013-034, C0013-039, C0040-015, C0048-082001-, C0048-176, C0049-015, C0049-016003-, C0049-038, C0049-039, C0051-010, C0060-028, C0080-022, C0090-030001-, C0090-030002-, C0090-031, C0090-032001-, C0090-032002-, C0092-013001-, C0094-021, C0094-133, C0107-004, C0107-062, C0119-031, C0131-017, C0141-007, KE009-020, KE068-049, KE069-002, KE076-014, KE081-048001-, KE089-025, KE090-001, KE090-002, KE091-069001-, KE099-014005-, KE091-065, KE091-069-038001-, KE099-038002-, KE099-038003-, KE099-038004-, KE099-038005-, KE099-038006-, KE099-038007-, KE099-038008-, KE099-038009-, LI011-118, LI011-147, LI030-098, LI035-012
Field boundary	7	C0038-164, C0080-023, C0092-060001-, C0092- 060007-, C0094-131, KE081-020002-, KE083-090
Field system	1	KE080-052003-

Fulacht fia	33	C0005-032, C0005-034, C0005-035, C0006-075, C0014-028, C0014-042001-, C0014-042002-, C0015-001, C0015-155, C0021-039, C0030-123, C0030-223, C0034-026, C0038-168, C0042-112, C0048-115, C0049-057, C0049-058, C0049-059-096, C0051-181, C0059-096, C0060-031, C0069-047, C0071-033, C0083-018001-, C0083-018002-, C0085-007, C0085-012, C0092-060002-, C0092-060003-, C0092-060004-, C0092-060005-, LI018-106
Gate lodge	1	KE066-136
House - indeterminate date	1	CO050-150
House - vernacular house	1	C0041-111
Hut site	29	C0048-082002-, C0048-084, C0048-183, C0080-029, C0092-060006-, C0092-065, C0104-024001-, C0104- 024002-, C0106-089, C0128-039002-, KE070-081001-, KE070-081002-, KE070-081003-, KE077-001, KE080-034, KE080-043, KE080-047, KE080-048, KE080- 051, KE080-052, KE080-052002-, KE081-007, KE081-010, KE081-012, KE081-020, KE081-020001- , KE081-048002-, KE091-068, KE092-012
Inscribed stone	1	KE047-060
Kerb circle	1	CO033-064
Kiln - lime	8	C0013-012, C0040-084002-, C0040-086, C0049-024 , C0058-002, C0068-001, C0142-051, C0142- 114002-
Mass-house	1	C0093-092
Mass-rock	7	CO043-009, CO081-013, CO093-091, CO107-056, CO119-121, CO123-069, KE047-061
Megalithic structure	7	C0034-058, C0081-050, KE080-033, KE080-067, KE086-007, LI017-032, LI017-034
Megalithic tomb - portal tomb	1	KE047-059
Megalithic tomb - wedge tomb	10	C0058-075, C0081-047, C0090-018, C0093-001, C0093-017, C0093-019, C0093-076, C0094-022, C0106-061, KE085-001
Military camp	1	C0128-039001-
Mine - copper	1	C0131-020
Mound	5	CO013-009, CO050-001, CO094-111, CO115-016, LI017-035
Ogham stone	2	C0094-073, KE080-045
Redundant record	26	C0005-003, C0005-005, C0012-001, C0024-170, C0058-015, C0071-046, C0093-002, C0093-070, C0094-109, KE067-152, KE069-002001-, KE072-025, KE075-004, KE080-052001-, KE083-029001-, KE083-029002-, KE091-026, KE091-054, KE091-072, KE091-072, KE091-072, KE091-072, KE092-017, KE094-051, KE094-051

Ringfort - cashel	6	CO040-014, CO069-039001-, CO092-012, KE072-002 -, LI011-117, LI030-096001-
Ringfort - rath	17	C0013-026, C0021-001, C0024-082, C0040-049, C0094-012, C0096-033, C0111-065, KE045-042, KE101-001002-, KE101-115, LI018-008, LI018-023, LI018-029, LI018-084, LI030-097, LI037-084, LI037-088
Ritual site - holy well	8	C0042-081, C0048-083, C0048-085, C0085-072, C0107-029, C0124-036, KE030-071, LI030-096002-
Road - gravel/stone trackway - peatland	1	KE091-113004-
Souterrain	9	C0040-128, C0060-033, C0069-039002-, C0090- 032003-, C0092-083, KE063-006, KE089-024, KE091-099, KE101-001001-
Standing stone	28	C0004-032, C0013-008, C0034-083, C0039-026, C0039-027001-, C0039-027002-, C0039-028, C0040-085002-, C0040-085003-, C0048-042001-, C0048-049, C0049-014, C0080-021, C0091-065, C0106-040, C0107-001, C0119-030, C0120-002, C0132-020, KE040-136, KE080-035, KE081-034, KE089-016, LI017-036, LI020-139
Standing stone - pair	7	C0041-085, C0041-113, C0051-178, C0059-069, C0107-040, KE080-044, KE086-009
Stone circle - five-stone	2	C0049-007, C0051-018
Stone row	5	C0041-114, C0049-023, C0092-013002-, C0093-018 -, C0107-067
Water mill - horizontal-wheeled	1	KE080-046005-

<sup>\*</sup> The SMRS numbers listed in the above table can be used to view and search for these monuments using The National Monuments Service Map viewer available at www.archaeology.ie.

## Appendix II - Habitats and Species in South West Munster $\mathsf{BAU}^{***}$

## Peatland and wetland habitats in South West Munster BAU

Main Properties	Habitat Quality	Management Strategy 2021-2025	Issues to be Addressed
Blanket Bog (PB2)-HCV			
Property: Knockauncurragh, Glanowen County: Kerry European Site: Stack's to Mullaghareirk Mountains, West Limerick Hills and Mount Eagle SPA, Mount Eagle Bogs NHA Property: Cappaphaudeen County: Cork European Site: Stack's to Mullaghareirk Mountains, West Limerick Hills and Mount Eagle SPA, Mount Eagle Bogs NHA Property: Dromalonhurt, Foardal County: Kerry European Site: Killarney National Park, Macgillycuddy's Reeks And Caragh River Catchment SAC	Blanket bog minimally impacted by anthropogenic activity.  Blanket Bog forested areas which are suitable for restoration.	Retain existing unplanted blanket bog habitat. Restore open riparian zones. Some sites in the BAU have been selected for restoration under Coillte's Life-Nature Blanket Bog Restoration Project.	Regeneration of Birch in areas where forest has been removed.  Turf Cutting
Lowland Blanket bog (PB3) -	-HCV		
Property: Moyreen County: Limerick European Site: Moyreen Bog NHA	A good example of lowland blanket bog.	Retain existing unplanted blanket bog habitat.	Regeneration on bog habitat.  Turf cutting
Wet Heath (HH3) – HCV			
Property: Foardal, Cloghvoola, Derryard County: Kerry European Site: Killarney National Park, Macgillycuddy's Reeks And Caragh River Catchment SAC Property: Sugarhill County: Limerick European Site: Stack's to Mullaghareirk Mountains, West Limerick Hills and	Good quality wet heath	Retain existing unplanted wet heath habitat. Restore open riparian zones. Retain open areas.	Maintain boundary integrity Indiscriminate burning

Mount Eagle SPA			
Property: Dromadda Beg			
County: Kerry			
European Site: Stack's to			
Mullaghareirk Mountains,			
West Limerick Hills and			
Mount Eagle SPA			
Property: Lyracrumpane			
County: Kerry			
European Site: Lower River			
Shannon SAC, Stack's to			
Mullaghareirk Mountains,			
West Limerick Hills and			
Mount Eagle SPA			
Dry Heath (HH1) - HCV			
Property: Ballinloughane	Good quality Dry Heath	Retain existing unplanted	Regulatory issues re
County: Limerick	habitat	dry heath habitat.	restoration works
European Site: Lower River		Increase dry peat habitat.	
Shannon SAC, Stack's to		Restore riparian zones.	
Mullaghareirk Mountains,		le de la companya de	
West Limerick Hills and		Retain open areas.	
Mount Eagle SPA		1	
Property: Glanteenassig,			
Killiney			
County: Kerry			
European Site: Mount			
Brandon SAC			
Acid Oligotrophic Lakes (FL2	)		
Property: Dromtine	Good quality Oligotrophic	Retain and monitor.	N/A
County: Kerry	waterbodies in acid peat		
European Site: N/A	land catchments.		
Property: Glanteenassig,			
Killiney			
County: Kerry			
European Site: Mount			
Brandon SAC			

### Forest habitats in South West Munster BAU

Main Properties	Habitat Quality	Management Strategy 2006-2010	Issues to be Addressed
Oak-birch-holly Woodland (\	WN1) – HCV		
Property: Looscaunagh, Lickeen, Rossacroo	Small to medium sized woods but in general of	Maintain areas of native oak canopy, facilitate	Rhododendron control.
County: Kerry European Site: Killarney	good quality.	expansion of oak wood, and remove exotics.	Deer control.
National Park,	Some problems with		
Macgillycuddy's Reeks And	invasive exotics e.g.,	Utilise transformation to	
Caragh River Catchment	Rhododendron ponticum	native woodland	
SAC		through thinning out	

Property: The demesne County: Cork European Site: Glengarriff Harbour and Woodland SAC Property: Aultagh County: Cork European Site: Bandon River SAC Property: Highfield County: Cork European Site: Lough Hyne Nature Reserve and Environs SAC Property: Curragh Chase County: Limerick European Site: Curraghchase Woods SAC Mixed broadleaved Woodlan	d (WD1)	conifers to retain woodland condition. Fell at rotation, replant with native broadleaves and Scots pine where appropriate.	
wiixeu bi oauteaveu woodtan	a (wor)		
Property: Killaclohane, Kilderry, Kilmurry County: Kerry European Site: N/A Property: Dromillihy, Castlefreke County: Cork European Site: N/A Property: Curragh Chase County: Limerick European Site: Curraghchase Woods SAC Property: Tinnacullia County: Limerick European Site: N/A Property: Cappagh County: Cork European Site: Blackwater River (Cork/Waterford) SAC	Mixed woodland, with areas of relict native ground flora. Some problems with invasive exotics e.g. Rhododendron and Cherry laurel	Restore some areas to broadleaf woodland in most suitable parts of these woodlands.  Maintain woodland structure and species diversity in other areas. Implement Coillte OWS policy in these woodlands.  Manage under CCF.  Utilise transformation to native woodland through thinning out conifers to retain woodland condition.  Address Rhododendron and Cherry laurel control.	Rhododendron and Cherry laurel  Control of deer
Mixed broadleaved/conifer V	Voodland (WD2)		
Property: Aultagh County: Cork European Site: Bandon River SAC Property: Mallabracka, Cooleen, Dunboy, County: Cork European Site: N/A	Mixed broadleaf/conifer woodland, retains areas of relict native ground flora.  Some problems with invasive exotics e.g. Rhododendron and Cherry laurel	Restore some areas to broadleaf woodland in most suitable parts of these woodlands.  Maintain woodland structure and species diversity in other areas Implement Coillte's	Rhododendron and Cherry laurel Control of deer

Property: Rossacroo	]	OWS policy in these	
County: Kerry		woodlands.	
European Site: Killarney			
National Park,		Manage under CCF.	
Macgillycuddy's Reeks And		Utilise transformation to	
Caragh River Catchment		native woodland	
SAC		through thinning out	
Property: Dromore		conifers to retain	
County: Kerry		woodland condition.	
European Site: Kenmare		Fell, replant with	
River SAC		broadleaf and light	
		crowned conifer species	
		where appropriate.	
		Address <i>Rhododendron</i>	
		and Cherry laurel	
		control.	
Wet woodland (Riparian-We	t Willow-Alder-Ash WN5/V	VN6)HCV	
marian madanan manan ma			
Property: Rossacroo	Small to medium sized	Maintain areas of native	Control invasives
County: Kerry	woods but in general of	canopy.	
European Site: Killarney	good quality.		
National Park,		Facilitate expansion of	
Macgillycuddy's Reeks And	Some problems with	native wood.	
Caragh River Catchment	invasive exotics.		
SAC		Control invasive species.	
Property: Curragh Chase			
County: Limerick			
European Site:			
Curraghchase Woods SAC			
Oak-Ash-Hazel Woodland (V	VN2) & Yew Woodland (WN	N3) HCV	
Property: Curragh Chase			
County: Limerick			
_			
European Site:			

### Species in South West Munster BAU

Main Properties	Supporting Habitat	Actions	Management prescription				
Lesser Horseshoe Bat ( <i>Rhinolophus hipposideros</i> )							
Property: Rossacroo County: Kerry European Site: Killarney National Park, Macgillycuddy's Reeks And Caragh River Catchment SAC Property: Dromore County: Kerry European Site: Kenmare River SAC Property: The demesne County: Cork	Stronghold colonies for Lesser Horseshoe Bat (LHB) in Ireland of national and international importance. Buildings and adjacent woodland important	Protect roosts and maintain suitable foraging and commuting habitat surrounding roost.	Costs of building (roost) maintenance.  Close liaison with NPWS required on an ongoing basis.				

European Site: Glengarriff	]		
Harbour and Woodland SAC			
	-		
Property: Curragh Chase			
County: Limerick			
European Site:			
Curraghchase Woods SAC			
Kerry Slug (Geomalacus ma	aculosus)		
, , , , , , , , , , , , , , , , , , ,			
Property: Glanteenassig	Good supporting habitat	Apply existing Forest	Liaison with NPWS & FS on an
County: Kerry	for Kerry Slug.	Service Kerry Slug	ongoing basis.
European Site: Mount		Guidelines.	
Brandon SAC			
Property: Ballintleave	1		
County: Kerry			
3			
European Site: Lough			
Yganavan and Lough			
Nambrackdarrig SAC	-		
Property: Lickeen			
County: Kerry			
European Site: Killarney			
National Park,			
Macgillycuddy's Reeks And			
Caragh River Catchment			
SAC			
	1		
Freshwater Pearl Mussel (A	nargarillera margarillera)		
1	l <del></del>		
Property: Coshcummeragh	These catchments are	Consider postponement	Regulatory issues regarding
County: Kerry	of good water quality	of clear-felling on deep	Regulatory issues regarding any forestry works in these
. 3		·	
County: Kerry	of good water quality	of clear-felling on deep	any forestry works in these
County: Kerry European Site: Killarney National Park,	of good water quality and provide a highly	of clear-felling on deep peat sites within the	any forestry works in these
County: Kerry European Site: Killarney National Park, Macgillycuddy's Reeks And	of good water quality and provide a highly rated pearl mussel	of clear-felling on deep peat sites within the catchments of the pearl mussel in consultation	any forestry works in these
County: Kerry European Site: Killarney National Park, Macgillycuddy's Reeks And Caragh River Catchment	of good water quality and provide a highly rated pearl mussel	of clear-felling on deep peat sites within the catchments of the pearl	any forestry works in these
County: Kerry European Site: Killarney National Park, Macgillycuddy's Reeks And Caragh River Catchment SAC	of good water quality and provide a highly rated pearl mussel	of clear-felling on deep peat sites within the catchments of the pearl mussel in consultation with NPWS	any forestry works in these
County: Kerry European Site: Killarney National Park, Macgillycuddy's Reeks And Caragh River Catchment SAC Property: Glanowen	of good water quality and provide a highly rated pearl mussel	of clear-felling on deep peat sites within the catchments of the pearl mussel in consultation with NPWS  Recommendations on	any forestry works in these
County: Kerry European Site: Killarney National Park, Macgillycuddy's Reeks And Caragh River Catchment SAC Property: Glanowen County: Kerry	of good water quality and provide a highly rated pearl mussel	of clear-felling on deep peat sites within the catchments of the pearl mussel in consultation with NPWS  Recommendations on Forest Service FWPM	any forestry works in these
County: Kerry European Site: Killarney National Park, Macgillycuddy's Reeks And Caragh River Catchment SAC Property: Glanowen County: Kerry European Site: Stack's to	of good water quality and provide a highly rated pearl mussel	of clear-felling on deep peat sites within the catchments of the pearl mussel in consultation with NPWS  Recommendations on Forest Service FWPM Guidelines and WFD	any forestry works in these
County: Kerry European Site: Killarney National Park, Macgillycuddy's Reeks And Caragh River Catchment SAC Property: Glanowen County: Kerry European Site: Stack's to Mullaghareirk Mountains,	of good water quality and provide a highly rated pearl mussel	of clear-felling on deep peat sites within the catchments of the pearl mussel in consultation with NPWS  Recommendations on Forest Service FWPM Guidelines and WFD Sub-basin FWPM	any forestry works in these
County: Kerry European Site: Killarney National Park, Macgillycuddy's Reeks And Caragh River Catchment SAC Property: Glanowen County: Kerry European Site: Stack's to	of good water quality and provide a highly rated pearl mussel	of clear-felling on deep peat sites within the catchments of the pearl mussel in consultation with NPWS  Recommendations on Forest Service FWPM Guidelines and WFD	any forestry works in these
County: Kerry European Site: Killarney National Park, Macgillycuddy's Reeks And Caragh River Catchment SAC Property: Glanowen County: Kerry European Site: Stack's to Mullaghareirk Mountains,	of good water quality and provide a highly rated pearl mussel	of clear-felling on deep peat sites within the catchments of the pearl mussel in consultation with NPWS  Recommendations on Forest Service FWPM Guidelines and WFD Sub-basin FWPM	any forestry works in these
County: Kerry European Site: Killarney National Park, Macgillycuddy's Reeks And Caragh River Catchment SAC Property: Glanowen County: Kerry European Site: Stack's to Mullaghareirk Mountains, West Limerick Hills and Mount Eagle SPA, Mount	of good water quality and provide a highly rated pearl mussel	of clear-felling on deep peat sites within the catchments of the pearl mussel in consultation with NPWS  Recommendations on Forest Service FWPM Guidelines and WFD Sub-basin FWPM Forestry Management	any forestry works in these
County: Kerry European Site: Killarney National Park, Macgillycuddy's Reeks And Caragh River Catchment SAC Property: Glanowen County: Kerry European Site: Stack's to Mullaghareirk Mountains, West Limerick Hills and Mount Eagle SPA, Mount Eagle Bogs NHA	of good water quality and provide a highly rated pearl mussel	of clear-felling on deep peat sites within the catchments of the pearl mussel in consultation with NPWS  Recommendations on Forest Service FWPM Guidelines and WFD Sub-basin FWPM Forestry Management plans to apply	any forestry works in these
County: Kerry European Site: Killarney National Park, Macgillycuddy's Reeks And Caragh River Catchment SAC Property: Glanowen County: Kerry European Site: Stack's to Mullaghareirk Mountains, West Limerick Hills and Mount Eagle SPA, Mount Eagle Bogs NHA Property: Glanawaddra,	of good water quality and provide a highly rated pearl mussel	of clear-felling on deep peat sites within the catchments of the pearl mussel in consultation with NPWS  Recommendations on Forest Service FWPM Guidelines and WFD Sub-basin FWPM Forestry Management plans to apply  Liaise with pearl mussel	any forestry works in these
County: Kerry European Site: Killarney National Park, Macgillycuddy's Reeks And Caragh River Catchment SAC Property: Glanowen County: Kerry European Site: Stack's to Mullaghareirk Mountains, West Limerick Hills and Mount Eagle SPA, Mount Eagle Bogs NHA Property: Glanawaddra, Knocknaboul	of good water quality and provide a highly rated pearl mussel	of clear-felling on deep peat sites within the catchments of the pearl mussel in consultation with NPWS  Recommendations on Forest Service FWPM Guidelines and WFD Sub-basin FWPM Forestry Management plans to apply  Liaise with pearl mussel technical group of	any forestry works in these
County: Kerry European Site: Killarney National Park, Macgillycuddy's Reeks And Caragh River Catchment SAC Property: Glanowen County: Kerry European Site: Stack's to Mullaghareirk Mountains, West Limerick Hills and Mount Eagle SPA, Mount Eagle Bogs NHA Property: Glanawaddra, Knocknaboul County: Kerry	of good water quality and provide a highly rated pearl mussel	of clear-felling on deep peat sites within the catchments of the pearl mussel in consultation with NPWS  Recommendations on Forest Service FWPM Guidelines and WFD Sub-basin FWPM Forestry Management plans to apply  Liaise with pearl mussel technical group of Forest service Liaise	any forestry works in these
County: Kerry European Site: Killarney National Park, Macgillycuddy's Reeks And Caragh River Catchment SAC Property: Glanowen County: Kerry European Site: Stack's to Mullaghareirk Mountains, West Limerick Hills and Mount Eagle SPA, Mount Eagle Bogs NHA Property: Glanawaddra, Knocknaboul County: Kerry European Site: Stack's to	of good water quality and provide a highly rated pearl mussel	of clear-felling on deep peat sites within the catchments of the pearl mussel in consultation with NPWS  Recommendations on Forest Service FWPM Guidelines and WFD Sub-basin FWPM Forestry Management plans to apply  Liaise with pearl mussel technical group of	any forestry works in these
County: Kerry European Site: Killarney National Park, Macgillycuddy's Reeks And Caragh River Catchment SAC Property: Glanowen County: Kerry European Site: Stack's to Mullaghareirk Mountains, West Limerick Hills and Mount Eagle SPA, Mount Eagle Bogs NHA Property: Glanawaddra, Knocknaboul County: Kerry European Site: Stack's to Mullaghareirk Mountains,	of good water quality and provide a highly rated pearl mussel	of clear-felling on deep peat sites within the catchments of the pearl mussel in consultation with NPWS  Recommendations on Forest Service FWPM Guidelines and WFD Sub-basin FWPM Forestry Management plans to apply  Liaise with pearl mussel technical group of Forest service Liaise	any forestry works in these
County: Kerry European Site: Killarney National Park, Macgillycuddy's Reeks And Caragh River Catchment SAC Property: Glanowen County: Kerry European Site: Stack's to Mullaghareirk Mountains, West Limerick Hills and Mount Eagle SPA, Mount Eagle Bogs NHA Property: Glanawaddra, Knocknaboul County: Kerry European Site: Stack's to Mullaghareirk Mountains, West Limerick Hills and	of good water quality and provide a highly rated pearl mussel	of clear-felling on deep peat sites within the catchments of the pearl mussel in consultation with NPWS  Recommendations on Forest Service FWPM Guidelines and WFD Sub-basin FWPM Forestry Management plans to apply  Liaise with pearl mussel technical group of Forest service Liaise	any forestry works in these
County: Kerry European Site: Killarney National Park, Macgillycuddy's Reeks And Caragh River Catchment SAC Property: Glanowen County: Kerry European Site: Stack's to Mullaghareirk Mountains, West Limerick Hills and Mount Eagle SPA, Mount Eagle Bogs NHA Property: Glanawaddra, Knocknaboul County: Kerry European Site: Stack's to Mullaghareirk Mountains,	of good water quality and provide a highly rated pearl mussel	of clear-felling on deep peat sites within the catchments of the pearl mussel in consultation with NPWS  Recommendations on Forest Service FWPM Guidelines and WFD Sub-basin FWPM Forestry Management plans to apply  Liaise with pearl mussel technical group of Forest service Liaise	any forestry works in these
County: Kerry European Site: Killarney National Park, Macgillycuddy's Reeks And Caragh River Catchment SAC Property: Glanowen County: Kerry European Site: Stack's to Mullaghareirk Mountains, West Limerick Hills and Mount Eagle SPA, Mount Eagle Bogs NHA Property: Glanawaddra, Knocknaboul County: Kerry European Site: Stack's to Mullaghareirk Mountains, West Limerick Hills and Mount Eagle SPA	of good water quality and provide a highly rated pearl mussel	of clear-felling on deep peat sites within the catchments of the pearl mussel in consultation with NPWS  Recommendations on Forest Service FWPM Guidelines and WFD Sub-basin FWPM Forestry Management plans to apply  Liaise with pearl mussel technical group of Forest service Liaise	any forestry works in these
County: Kerry European Site: Killarney National Park, Macgillycuddy's Reeks And Caragh River Catchment SAC Property: Glanowen County: Kerry European Site: Stack's to Mullaghareirk Mountains, West Limerick Hills and Mount Eagle SPA, Mount Eagle Bogs NHA Property: Glanawaddra, Knocknaboul County: Kerry European Site: Stack's to Mullaghareirk Mountains, West Limerick Hills and Mount Eagle SPA Property: Glanawaddra	of good water quality and provide a highly rated pearl mussel	of clear-felling on deep peat sites within the catchments of the pearl mussel in consultation with NPWS  Recommendations on Forest Service FWPM Guidelines and WFD Sub-basin FWPM Forestry Management plans to apply  Liaise with pearl mussel technical group of Forest service Liaise	any forestry works in these
County: Kerry European Site: Killarney National Park, Macgillycuddy's Reeks And Caragh River Catchment SAC Property: Glanowen County: Kerry European Site: Stack's to Mullaghareirk Mountains, West Limerick Hills and Mount Eagle SPA, Mount Eagle Bogs NHA Property: Glanawaddra, Knocknaboul County: Kerry European Site: Stack's to Mullaghareirk Mountains, West Limerick Hills and Mount Eagle SPA Property: Glanawaddra County: Kerry	of good water quality and provide a highly rated pearl mussel	of clear-felling on deep peat sites within the catchments of the pearl mussel in consultation with NPWS  Recommendations on Forest Service FWPM Guidelines and WFD Sub-basin FWPM Forestry Management plans to apply  Liaise with pearl mussel technical group of Forest service Liaise	any forestry works in these
County: Kerry European Site: Killarney National Park, Macgillycuddy's Reeks And Caragh River Catchment SAC Property: Glanowen County: Kerry European Site: Stack's to Mullaghareirk Mountains, West Limerick Hills and Mount Eagle SPA, Mount Eagle Bogs NHA Property: Glanawaddra, Knocknaboul County: Kerry European Site: Stack's to Mullaghareirk Mountains, West Limerick Hills and Mount Eagle SPA Property: Glanawaddra County: Kerry European Site: Stack's to Mullaghareirk Mountains, West Limerick Hills and Mount Eagle SPA Property: Glanawaddra County: Kerry European Site: Stack's to	of good water quality and provide a highly rated pearl mussel	of clear-felling on deep peat sites within the catchments of the pearl mussel in consultation with NPWS  Recommendations on Forest Service FWPM Guidelines and WFD Sub-basin FWPM Forestry Management plans to apply  Liaise with pearl mussel technical group of Forest service Liaise	any forestry works in these
County: Kerry European Site: Killarney National Park, Macgillycuddy's Reeks And Caragh River Catchment SAC Property: Glanowen County: Kerry European Site: Stack's to Mullaghareirk Mountains, West Limerick Hills and Mount Eagle SPA, Mount Eagle Bogs NHA Property: Glanawaddra, Knocknaboul County: Kerry European Site: Stack's to Mullaghareirk Mountains, West Limerick Hills and Mount Eagle SPA Property: Glanawaddra County: Kerry European Site: Stack's to Mullaghareirk Mountains, West Limerick Hills and Mount Eagle SPA Property: Glanawaddra County: Kerry European Site: Stack's to Mullaghareirk Mountains,	of good water quality and provide a highly rated pearl mussel	of clear-felling on deep peat sites within the catchments of the pearl mussel in consultation with NPWS  Recommendations on Forest Service FWPM Guidelines and WFD Sub-basin FWPM Forestry Management plans to apply  Liaise with pearl mussel technical group of Forest service Liaise	any forestry works in these
County: Kerry European Site: Killarney National Park, Macgillycuddy's Reeks And Caragh River Catchment SAC Property: Glanowen County: Kerry European Site: Stack's to Mullaghareirk Mountains, West Limerick Hills and Mount Eagle SPA, Mount Eagle Bogs NHA Property: Glanawaddra, Knocknaboul County: Kerry European Site: Stack's to Mullaghareirk Mountains, West Limerick Hills and Mount Eagle SPA Property: Glanawaddra County: Kerry European Site: Stack's to Mullaghareirk Mountains, West Limerick Hills and Mount Eagle SPA Property: Glanawaddra County: Kerry European Site: Stack's to	of good water quality and provide a highly rated pearl mussel	of clear-felling on deep peat sites within the catchments of the pearl mussel in consultation with NPWS  Recommendations on Forest Service FWPM Guidelines and WFD Sub-basin FWPM Forestry Management plans to apply  Liaise with pearl mussel technical group of Forest service Liaise	any forestry works in these

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Caragh River Catchment		
SAC		

### Species

In terms of species, notable species identified in the BAUs forests are listed below Key:

Published National Red Lists					
RED STATUS- Ireland Red Lists using IUCN (2001)	BoCCI-Birds of Conservation Concern in Ireland 2020- 2026				
- RE Regionally Extinct	- Red High conservation concern				
- CR Critically Endangered	- Amber Medium conservation concern				
- EN Endangered	- Green Low conservation concern				
- VU Vulnerable					
- NT Near threatened					
- LC least concern					
- dd data deficient					
- na not assessed					

SPECIES	RED STATUS	BoCCI
Lesser Horseshoe Bat (Rhinolophus hipposideros)	LC	
Hen Harrier (Circus cyaneus)		Amber
Natterjack Toad (Epidalea calamita)	LC	
Freshwater Pearl Mussel ( <i>Margaritifera margaritifera</i> )	EN	
Kerry Slug ( <i>Geomalacus maculosus</i> )	LC	
Killarney Fern ( <i>Trichomanes speciosum</i> )	EN	
Little Egret ( <i>Egretta garzetta</i> )		Green

<sup>\*\*\*</sup> Please note this Appendix is subject to changes / updates during the plan period

## Appendix III – Recreation Facilities in the South West Munster BAU

Ballaghishcen/Tulligoalane, Killicenleagh, Waterville, Co. Kerry Ballaghishean Pas (Waterville to Glencar) located within the Kerry International Dark Skies Reserve near Dramid This site comprises of a picnic area. Linear walk and up-to-date signage, Carstemaine, Co. Kerry Ballaghishean Pas (Waterville to Glencar) located within the Kerry International Dark Skies Reserve near Dramid This site comprises of a picnic area. Linear walk and up-to-date signage, affords the walker with some expansive views.  A car park with magnificent views out over Caragh Lake, Walkers use some of the recently developed trail originates at Carrigfadda Church, Walkers can follow waymarkers which will guide them up the trail, thirough forestry, to admire the views from the Marian Cross at the peak.  Cartigat Chase Forest Park Adare / Askeaton, Co. Limerick  Gurragh Chase Forest Park Adare / Askeaton, Co. Limerick  Gurragh Chase Forest Park Adare / Askeaton, Co. Limerick  Gurragh Chase Forest Park Adare / Askeaton, Co. Limerick  Gurragh Chase Forest Park Adare / Askeaton, Co. Limerick  Gurragh Chase Forest Park Adare / Askeaton, Co. Limerick  Gurragh Chase Forest Park Adare / Askeaton, Co. Limerick  Gurragh Chase Forest Park Adare / Askeaton, Co. Limerick  Gurragh Chase Forest Park Adare / Askeaton, Co. Limerick  Gurragh Chase Forest Park Adare / Askeaton, Co. Limerick  Gurragh Chase Forest Park Adare / Askeaton, Co. Limerick  Gurragh Chase Forest Park Adare / Askeaton, Co. Limerick  Gurragh Chase Forest Park Adare / Askeaton, Co. Limerick  Gurragh Chase Forest Park Adare / Askeaton, Co. Limerick  Gurragh Chase Forest Park Adare / Askeaton, Co. Limerick  Gurragh Chase Forest Park Adare / Askeaton, Co. Cimerick  Gurragh Chase Forest Park Adare / Askeaton, Co. Cimerick  Gurragh Chase Forest Park Adare / Askeaton, Co. Cimerick  Gurragh Chase Forest Park Adare / Askeaton, Co. Cimerick  Gurragh Chase Forest Park Adare / Askeaton, Co. Cimerick  Gurragh Chase Forest Park  Gurragh Chase Forest Park  A stand of yew within the property is part o	Site Name	General Description
Killeenleagh, Waterville, Co. Kerry  International Dark Skies Reserve near Dromid  Ballygamboon Castemaine, Co. Kerry  This site comprises of a picnic area, linear walk and up-to-date signage. Its geographical location at a high point in the Sileve Mish mountains affords the walker with some expansive views.  Caragh Lake Caragh Lake Carighadda, Reenascreena, Co. Cork  Carighadda, Reenascreena, Co. Cork  Castlefreke, Rathbarry, Co. Cork  Curragh Chase Forest Park Adare / Askeaton, Co. Limerick  Curragh Chase Forest Park Adare / Askeaton, Co. Limerick  Curragh Chase forest park Adare / Askeaton, Co. Limerick  Curragh Sileve Company and part of the Restoring Priority Woodland Habitat Life project. A carawan park is also located within the grounds, and has recently being upgraded and is open for business. A stand of yew within the property is part of the Restoring Priority Woodland Habitat Life project. A local scouts group also have a campsite at the edge of the forest. We are also considering installing a zipit facility within the property.  Curraghbinny (close to Carrigation)  Dromihilly, Shibberean, Co. Cork  There is a Irail network that has just being upgraded.  Promise (close to Innishannon)  Amenty Area on the shore of Bantry Bay. The Beara Breifne Way passes through this property.  2 waymarked trails  Pagnada  Amenty Area on the shore of Bantry Bay. The Beara Breifne Way passes through this property.  2 car park  2 waymarked trails Permanent orienteering course Wildlife enclosure Title (all rails) Permanent orienteering course Wildlife enclosure Title (all rails) Permanent orienteering course Wildlife enclosure Tollet facilities Permanent orienteering course Wildlife enclosure Title (all rails) Permanent orienteering course Wildlife enclosure Title (all rails) Permanent orienteering pourse Permanent orienteering pourse Permanent orienteering pourse Permanent orienteering course Permanent orienteering pourse Permanent orienteering pourse Permanent orienteering pourse Permanent orienteering pourse Permanent	Ballaghisheen/Tulligealane,	Small picnic site with grassy area beside the scenic route approx. 1.8km
Ballygamboon Castlemaine, Co. Kerry  This site comprises of a picnic area, linear walk and up-to-date signage. Its geographical location at a high point in the Sileve Mish mountains affords the walker with some expansive views.  A car park with magnificent views out over Caragh Lake. Walkers use some of the recently developed trails to access the hills behind the site.  This recently developed trail originates at Carrigfadda Church. Walkers can follow waymarkers which will guide them up the trail, through forestry, to admine the views from the Marian Cross at the peak.  Castlefreke, Rathbarry, Co. Cork  Curragh Chase Forest Park Adare / Askeaton, Co. Limerick  Curragh Chase Forest Park Adare / Askeaton,		, , , , , , , , , , , , , , , , , , , ,
Carstlemaine, Co. Kerry  Caragh Lake Killorglin, Co. Kerry  Carrighada, Reenascreena, Co. Cork  Castlefreke, Rathbarry, Co. Cork  Curragh Chase Forest Park Adare / Askeaton, Co. Limerick  A caray park with magnificent views out over Caragh Lake. Walkers use some of the recently developed trails to access the hills behind the site.  This recently developed trails to access the hills behind the site.  This recently developed trails to access the hills behind the site.  This recently developed trails to access the hills behind the site.  This recently developed trails to access the hills behind the site.  This recently developed trails to access the hills behind the site.  This recently developed trails to access the hills behind the site.  This recently developed trails to access the hills behind the site.  This recently developed trails to access the hills behind the site.  This recently developed trails to access the hills behind the site.  This site consists of a number of properties that are in close proximity to Long Strand. Waymarked trails and signage. Facilities include a car park and plcnic facilities.  Curragh Chase Forest Park  Adare / Askeaton, Co. Limerick  Curragh Chase Forest Park has been upgraded in recent years.  Facilities include: a number of waymarked trails, multi-use le. walking and cycling trails, nature trail, lake walk, specimen frees, two playgrounds, an arboretum, ruins of the old estate house, two car parks, picnic areas, foliets, whello-o (all ability orienteering), and up-to-date signage.  A carawan park is also located within the grounds, and has recently being upgraded within the property is part of the Restoring Priority Woodland Habitat LiFE project.  A local scouts group also have a campsite at the edge of the forest.  We are also considering installing a zipit facility within the property.  Curragh Chase group and the property is part of the Restoring Priority was a campsite at the edge of the forest.  We are also considering installing a zipit facility within the property.  P		International Dark Skies Reserve near Dromid.
A car park with some expansive views.  Caragh Lake  Killorglin, Co. Kerry  Some of the recently developed trails to access the hills behind the site.  Carrigfadda.  Reenascreena, Co. Cork  Castlefreke, Rathbarry, Co. Cork  Curragh Chase Forest Park  Adare / Askeaton, Co. Limerick  Adare / Askeaton, Co. Limerick  Curragh Chase Forest Park  Adare / Askeaton, Co. Limerick  Curragh Chase Forest Park  Adare / Askeaton, Co. Limerick  Curragh Chase Forest Park  Adare / Askeaton, Co. Limerick  Curragh Chase Forest Park  Adare / Askeaton, Co. Limerick  Curragh Chase Forest Park  Adare / Askeaton, Co. Limerick  Curragh Chase Forest Park  Adare / Askeaton, Co. Limerick  Curragh Chase Forest Park  Adare / Askeaton, Co. Limerick  Curragh Chase Forest Park  Adare / Askeaton, Co. Limerick  Curragh Chase Forest Park  Adare / Askeaton, Co. Limerick  Curragh Chase Forest Park  Adare / Askeaton, Co. Limerick  Curragh Chase Forest Park  Adare / Askeaton, Co. Limerick  Curragh Chase Forest Park  Adare / Askeaton, Co. Limerick  Curragh Chase Forest Park  Adare / Askeaton, Co. Limerick  Curragh Chase Forest Park  Adare / Askeaton, Co. Limerick  Curragh Chase Forest Park  Adare / Askeaton, Co. Limerick  Curragh Chase Forest Park  Adare / Askeaton, Co. Limerick  Curragh Chase Forest Park  Adare / Askeaton, Co. Limerick  Curragh Limerica Forest Park  Curragh Limerica Forest Park  Curragh Limerica Forest Park  A stand of yew within the property is part of the Restoring Priority  Woodland Habitat LIFE project.  A local scouts group also have a campsite at the edge of the forest.  We are also considering installing a zipit facility within the property.  Curragh Limerica Forest Park  Curragh Limerica Forest Park  Curragh Limerica Forest Park  Curragh Limerica Forest Park  A local scouts group also have a campsite at the edge of the forest.  We are also considering installing a zipit facility within the property.  Curragh Limerica Forest Park  Curragh Limerica Forest Park  A local scouts group also have a campsite at the edge of the forest.	Ballygamboon	This site comprises of a picnic area, linear walk and up-to-date signage.
Caragh Lake Killorglin, Co. Kerry Carrigfadda, Reenascreena, Co. Cork Carsigfadda, Reanascreena, Co. Cork Castlefreke, Rathbarry, Co. Cork Curragh Chase Forest Park Adare / Askeaton, Co. Limerick Curragh Chase Forest Park Adare / Askeaton, Co. Limerick Curragh Chase Forest Park Adare / Askeaton, Co. Limerick Curragh Chase Forest Park Adare / Askeaton, Co. Limerick Curragh Chase Forest Park Adare / Askeaton, Co. Limerick Curragh Chase Forest Park Adare / Askeaton, Co. Limerick Curragh Chase Forest Park Adare / Askeaton, Co. Limerick Curragh Chase Forest Park Adare / Askeaton, Co. Limerick Curragh Chase Forest Park Adare / Askeaton, Co. Limerick Curragh Chase Forest Park Adare / Askeaton, Co. Limerick Curragh Chase Forest Park Adare / Askeaton, Co. Limerick Curragh Chase Forest Park Adare / Askeaton, Co. Limerick Curragh Chase Forest Park Adare / Askeaton, Co. Limerick Curragh Chase Forest Park Adare / Askeaton, Co. Limerick Curragh Chase Forest Park Adare / Askeaton, Co. Limerick Curragh Chase Forest Park Adare / Askeaton, Co. Limerick Curragh Chase Forest Park Adare / Askeaton, Co. Limerick Curragh Chase Forest Park Curragh Chase Forest Park Curragh Chase Forest Park Carragh Chase Forest Park Curragh Chase Forest Park Carragh Chase Forest Park Rangers Foynes Foynes Foynes Foynes Foynes Foynes Foynes Carragh Chase Forest Park Maintained In Conjunction with deCoursey. There is a National Looped Walk and associated trailhead running	Castlemaine, Co. Kerry	Its geographical location at a high point in the Slieve Mish mountains
Some of the recently developed trails to access the hills behind the site.		affords the walker with some expansive views.
Carrigfadda, Reenascreena, Co. Cork Rehascreena, Co. Cork Castlefreke, Rathbarry, Co. Cork Curragh Chase Forest Park Adare / Askeaton, Co. Limerick  Curragh Chase Forest Park Adare / Askeaton, Co. Limerick  Curragh Chase Forest Park Adare / Askeaton, Co. Limerick  Curragh Chase forest park Adare / Askeaton, Co. Limerick  Curragh Chase forest park has been upgraded in recent years. Facilities include: a number of waymarked trails, multi-use ie. walking and cycling trails, nature trail. Jake walk, specimen trees, two playgrounds, an arboretum, ruins of the old estate house, two car parks, picnic areas, toilets, whello-o (all ability orienteering), and up-to-date signage.  A caravan park is also located within the grounds, and has recently being upgraded and is open for business.  A stand of yew within the property is part of the Restoring Priority Woodland Habitat LIFE project.  A local scouts group also have a campsite at the edge of the forest.  We are also considering installing a zipit facility within the property.  Curraghbinny (close to Carrigaline)  Pagoda  Dromihilly, Skibbereen, Co. Cork  Dromkeen (close to Innishannon)  Ounboy, Castletownbere, Co. Cork  Farran Forest Park  2 car parks  3 carl anterwork that has just being upgraded.  Waymarked woodland trails  Permanent orienteering course  Wildlife enclosure  Wildlife enclosure  Toilet facilities  Zipit Aerial Trails  Volunteer Forest Park Rangers  A recently upgraded amenity area on the banks of the River Shannon.  Facilities include: off road parking, picnic area, up-to-date signage, a network of walking trails.  Car park  Maintained in conjunction with deCoursey.  There is a National Looped Walk and associated trailhead running	Caragh Lake	A car park with magnificent views out over Caragh Lake. Walkers use
Castlefreke, Rathbarry, Co. Cork  Castlefreke, Rathbarry, Co. Cork  Curragh Chase Forest Park Adare / Askeaton, Co. Limerick  Curragh Chase Forest Park Adare / Askeaton, Co. Limerick  Curragh Chase Forest Park Adare / Askeaton, Co. Limerick  Curragh Chase Forest Park Adare / Askeaton, Co. Limerick  Curragh Chase Forest Park Adare / Askeaton, Co. Limerick  Curragh Chase Forest Park Adare / Askeaton, Co. Limerick  Curragh Chase Forest Park Adare / Askeaton, Co. Limerick  Curragh Chase Forest Park Adare / Askeaton, Co. Limerick  Curragh Chase Forest Park Adare / Askeaton, Co. Limerick  Curragh Chase Forest Park Adare / Askeaton, Co. Limerick  Curragh Chase Forest Park Adare / Askeaton, Co. Limerick  Curragh Chase Forest Park Adare / Askeaton, Co. Limerick  Curragh Chase Forest Park Adare / Askeaton, Co. Limerick  Acaravan park is also located within the grounds, and has recently being upgraded and is open for business.  A stand of yew within the property is part of the Restoring Priority Woodland Habitat LIFE project.  A local scouts group also have a campsite at the edge of the forest.  We are also considering installing a zipit facility within the property.  Curraghbinny (close to  Carrigaline)  Dromihilly, Skibbereen, Co. Cork  Dromkeen (close to Innishannon)  off-road parking  Off-road parking  Waymarked woodland trails  Dunboy, Castletownbere, Co. Cork  Farran Forest Park  2 car park  Amenity Area on the shore of Bantry Bay. The Beara Breifne Way passes through this property.  2 car parks  2 waymarked trails  Permanent orienteering course  Wildlife enclosure  Tollet facilities  Zipit Aerial Trails  Volunteer Forest Park Rangers  A recently upgraded amenity area on the banks of the River Shannon. Facilities include: off road parking, picnic area, up-to-date signage, a network of walking trails, wiew points and access to the foreshore.  Carpark  Maintained in conjunction with deCoursey.  There is a National Looped Walk and associated trailhead running		some of the recently developed trails to access the hills behind the site.
Castlefreke, Rathbarry, Co. Cork Rathbarry, Co. Cork Rathbarry, Co. Cork Curragh Chase Forest Park Adare / Askeaton, Co. Limerick  Curragh Chase Forest Park Adare / Askeaton, Co. Limerick  Curragh Chase Forest Park Adare / Askeaton, Co. Limerick  Curragh Chase Forest Park Adare / Askeaton, Co. Limerick  Curragh Chase forest park has been upgraded in recent years. Facilities include: a number of waymarked trails, multi-use ie. walking and cycling trails, nature trail, lake walk, specimen trees, two playgrounds, an arboretum, ruins of the old estate house, two car parks, plicnic areas, tollets, whello-o (all ability orienteering), and up-to-date signage. A caravan park is also located within the grounds, and has recently being upgraded and is open for business. A stand of yew within the property is part of the Restoring Priority Woodland Habitat LIFE project. A local scouts group also have a campsite at the edge of the forest. We are also considering installing a zipit facility within the property.  Curraghbinny (close to Carrigaline)  Dromihilly, Skibbereen, Co. Cork Dromkeen (close to Innishannon)  Dunboy, Castletownbere, Co. Cork Farran Forest Park  Dunboy, Castletownbere, Co. Cork Farran Forest Park  Permanent orienteering course Wildlife enclosure Toilet facilities  2 carparks Volunteer Forest Park Rangers  A recently upgraded amenity area on the banks of the River Shannon. Facilities include: off road parking, picnic area, up-to-date signage, a network of walking trails Carpark Maintained in conjunction with deCoursey.  There is a National Looped Walk and associated trailhead running	S	
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Rathbarry, Co. Cork  Curragh Chase Forest Park Adare / Askeaton, Co. Limerick  Adare / Askeaton, Co. Limerick  Curragh Chase forest park has been upgraded in recent years.  Facilities include: a number of waymarked trails, multi-use ie. walking and cycling trails, nature trail, lake walk, specimen trees, two playgrounds, an arboretum, ruins of the old estate house, two car parks, picnic areas, toilets, whello-o (all ability orienteering), and up-to-date signage.  A caravan park is also located within the grounds, and has recently being upgraded and is open for business.  A stand of yew within the property is part of the Restoring Priority Woodland Habitat LIFE project.  A local scouts group also have a campsite at the edge of the forest.  We are also considering installing a zipit facility within the property.  Curraghbinny (close to  Carrigaline)  Dromihilly,  This woodland consists of a car park, threshold signage and picnic area. There is a trail network that has just being upgraded.  There is a trail network that has just being upgraded.  Oromken (close to Innishannon)  Amenity Area on the shore of Bantry Bay. The Beara Breifne Way passes through this property.  2 car parks  2 waymarked woodland trails  Amenity Area on the shore of Bantry Bay. The Beara Breifne Way passes through this property.  2 car parks  4 cecently upgraded amenity area on the banks of the River Shannon. Facilities include: off road parking, picnic area, up-to-date signage, a network of walking trails, view points and access to the foreshore.  Garrettstown (close to Ballinspittle)  Glanageenty  There is a National Looped Walk and associated trailhead running		
Curragh Chase Forest Park Adare / Askeaton, Co. Limerick Adare / Askeaton, Co. Limerick  Facilities include: a number of waymarked trails, multi-use ie. walking and cycling trails, nature trail, lake walk, specimen trees, two playgrounds, an arboretum, ruins of the old estate house, two car parks, picnic areas, toilets, whello-o (all ability orienteering), and up-to-date signage.  A caravan park is also located within the grounds, and has recently being upgraded and is open for business.  A stand of yew within the property is part of the Restoring Priority Woodland Habitat LIFE project.  A local scouts group also have a campsite at the edge of the forest.  We are also considering installing a zipit facility within the property.  Curraghbinny (close to Carrigaline)  Pagoda  Dromihilly, This woodland consists of a car park, threshold signage and picnic area. There is a trail network that has just being upgraded.  Pormkeen (close to Innishannon)  Dunboy, Castletownbere, Co. Cork  Farran Forest Park  2 car parks  2 car parks  2 car parks  Permanent orienteering course Wildlife enclosure Toilet facilities Permanent orienteering course Wildlife enclosure Toilet facilities Zipit Aerial Trails Volunteer Forest Park Rangers  A recently upgraded amenity area on the banks of the River Shannon. Facilities include: off road parking, picnic area, up-to-date signage, a nelwork of walking trails, view points and access to the foreshore.  Garrettstown (close to Ballinspittle)  Glanageenty  There is a National Looped Walk and associated trailhead running	· · · · · · · · · · · · · · · · · · ·	· · ·
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Facilities include: a number of waymarked trails, multi-use ie. walking and cycling trails, nature trail, lake walk, specimen trees, two playgrounds, an arboretum, ruins of the old estate house, two car parks, picnic areas, toilets, whello-o (all ability orienteering), and up-to-date signage.  A caravan park is also located within the grounds, and has recently being upgraded and is open for business.  A stand of yew within the property is part of the Restoring Priority Woodland Habitat LIFE project.  A local scouts group also have a campsite at the edge of the forest. We are also considering installing a zipit facility within the property.  Curraghbinny (close to  Car park  • Car park  • Car park  • Pagoda  Dromihilly, Skibbereen, Co. Cork  Dromkeen (close to Innishannon)  • off-road parking  • Waymarked woodland trails  Dunboy, Castletownbere, Co. Cork  Farran Forest Park  • 2 car parks  • 3 caretistown (close to parking, picnic area, up-to-date signage, a network of walking trails, view points and access to the foreshore.  • 2 looped walking trails, view points and access to the foreshore.  • 2 looped walking trails  • Car park  Maintained in conjunction w		<del>                                     </del>
and cycling trails, nature trail, lake walk, specimen trees, two playgrounds, an arboretum, ruins of the old estate house, two car parks, picnic areas, toilets, whello-o (all ability orienteering), and up-to-date signage.  A caravan park is also located within the grounds, and has recently being upgraded and is open for business.  A stand of yew within the property is part of the Restoring Priority Woodland Habitat LIFE project.  A local scouts group also have a campsite at the edge of the forest. We are also considering installing a zipit facility within the property.  Curraghbinny (close to  Carrigaline)  Dromihilly,  Skibbereen, Co. Cork  Dromkeen (close to Innishannon)  This woodland consists of a car park, threshold signage and picnic area. There is a trail network that has just being upgraded.  Dunboy,  Castletownbere, Co. Cork  Farran Forest Park  Amenity Area on the shore of Bantry Bay. The Beara Breifne Way passes through this property.  **Cary park**  **Q ary parks**		
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Glanageenty There is a National Looped Walk and associated trailhead running		
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Glanawaddra Ballydesmond, Co, Cork Co, Cork Ballydesmond, Co, Cork C	Site Name	General Description
Ballydesmond, Co. Cork   IRD Dunhallow, and takes in the source of the Munster Blackwater.	Glanawaddra	Two National Looped Walks go through this forest in conjunction with
Blackwater/Avondhu Way - with off road parking and picnic area Glanteenassig Glanteena	Ballydesmond, Co. Cork	IRD Duhallow, and takes in the source of the Munster Blackwater.
Glanteenassig Castlegregory. Co. Kerry another broken this beam of the Sileve Mish mountains. It's setting includes two takes that are popular with tishermen, one of which has a timber boardwalk circuiting the perimeter, a river walk, picnic area, multi-access trail, picnic areas and two car parks.  Gleensk, Glenbeigh, Co. Kerry Parking & picnic area adjacent to the Wild Atlantic Way that has magnificent views.  Glenbeigh, Glenbeigh, Co. Kerry Imposing forest overlooking the town of Glenbeigh. Kerry way passes through It. Looped walks intersect with it. 3rd party picnic area at the base.  Guagan Barra Forest Park, Ballingeary, Co. Cork Imposing forest overlooking the town of Glenbeigh. Kerry way passes through It. Looped walks intersect with it. 3rd party picnic area at the base.  Guagan Barra Forest Park, Ballingeary, Co. Cork Imposing forest overlooking the town of Glenbeigh. Kerry way passes through It. Looped walks intersect with it. 3rd party picnic area at the base.  Guagan Barra Forest Park, Ballingeary, Co. Cork Imposing forest overlooking the town of Glenbeigh. Kerry way passes through It. Looped walks intersect with it. 3rd party picnic area at the base.  Guagan Barra Forest Park, Ballingeary, Co. Cork Imposing forest forest Park, Looated behind the oratory of Guagan Barra. This park has 6 waymarked trails ranging from multi-access to strenuous. There are also 2 car parks, tollet facilities and many picnic areas and information panels.  Co. Car park Alloudid Close to Newmarket Park Imposing forest facilities and many picnic areas and information panels.  Killaciliane (Close to Bandon) Killeritain Colled with picnic facilities, car parking and walking on the forest road network. Note. a section of the N70 road is currently being realigned by the NRA.  Killaciliane Park Alloudid Colled Williane Park Imposing forest control the N70 road is currently being realigned by the NRA.  Killacullen, Co. Cork Malling Park Imposing forest control the N70 road is currently being realigned by the NRA.  Killacullen, C	Glannagear	Killavullen/Cork Road, forms part of national walking trail –
Castlegregory, Co. Kerry    mountains. It's setting includes two lakes that are popular with fishermen, one of which has a timber boardwalk circuiting the perimeter, a river walk, picnic area, multi-access trail, picnic areas and two car parks.   Gleensk, Glenbeigh, Co. Kerry		
fishermen, one of which has a timber boardwalk circuiting the perimeter, a river walk, plonic area, multi-access trall, pionic areas and two car parks.  Gleensk, Glenbeigh, Co. Kerry  Glenbeigh, Glenbeigh, Co. Kerry  Freland's oldest Forest Park, located behind the oratory of Guagan Barra. This park has 6 waymarked trails ranging from multi-access to strenuous. There are also 2 car parks, toilet facilities and many picnic areas and information panels.  Freland's oldest Forest Park, located behind the oratory of Guagan Barra. This park has 6 waymarked trails ranging from multi-access to strenuous. There are also 2 car parks, toilet facilities and many picnic areas and information panels.  Freland's oldest Forest Park, located behind the oratory of Guagan Barra. This park has 6 waymarked trails ranging from multi-access to strenuous. There are also 2 car parks, toilet facilities and many picnic areas and information panels.  Filipic facilities  Beara Way  Kilbrittain (close to Bandon)  Kilbrittain (close to Bandon)  Killitum, Co. Kerry  Apopular with walkers. There is an old mass rock on site. A mass is celebrated here annually. Signage recently upgraded and there is also a way marked trail.  Filipic facilities and in the parking area with sunning views of the Atlantic. Old peat tower (protected structure) is a main point of interest here.  Facilities include lay-by parking with a picnic area opposite the Glencar GAA grounds. There are a number of picnic tables and up-to-date signage in place also.  Facilities include lay-by parking with a picnic area opposite the Glencar GAA grounds. There a	~	
a river walk, picnic area, multi-access trail, picnic areas and two car parks.  Glenbeigh, Co. Kerry Glenbeigh, Glenbeigh, Co. Kerry Glenbeigh, Glenbeigh, Co. Kerry Glenbeigh, Glenbeigh, Co. Kerry Guagan Barra Forest Park, Ballingeary, Co. Cork Ballingeary, Co. Cork Guagan Barra Forest Park, Ballingeary, Co. Cork Ballingeary, Co. Cork Glenbeigh, Glenbeigh, Co. Kerry Guagan Barra Forest Park, Ballingeary, Co. Cork B	Castlegregory, Co. Kerry	
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Glenbeigh, Co. Kerry Glenbeigh, Co. Kerry Glenbeigh, Glenbeigh, Co. Kerry Glender, Co. Cork Glender, Co. Kerry Glender, Glender, Co. Kerry Glender,		·
Glenbeigh, Glenbeigh, Co. Kerry  Glenbeigh, Glenbeigh, Co. Kerry  Imposing forest overlooking the town of Glenbeigh. Kerry way passes through it. Looped walks intersect with it. 3ºº party picnic area at the base.  Guagan Barra Forest Park, Ballingeary, Co. Cork  Ireland's oldest Forest Park, located behind the oratory of Guagan Barra.  This park has 6 waymarked trails ranging from multi-access to strenuous. There are also 2 car parks, toilet facilities and many picnic areas and information panels.  Island Wood (close to Newmarket)  Island Wood (close to Sand Information panels.  Island Wood (close to Newmarket)  Island Wood (close to Ne	Classel, Classesiah Ca Karry	
Imposing forest overlooking the town of Glenbeigh. Kerry way passes through it. Looped walks intersect with it. 3" party picnic area at the base.	Greensk, Grenbergh, Co. Kerry	
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Lyracrumpane Castleisland, Co. Kerry This site consists of a waymarked walk that includes both Coillte and private land. There are a number of picnic tables and up-to-date signage in place also.  Mount Hillary (close to Banteer)  - 2 National Looped Walks - Parking at forest entrances Maintained in conjunction with Integrated Resource Development Duhallow (IRD Duhallow).  Mullinhassig (close to Aghabullogue)  - Parking spot - Popular unmarked riverside walk to waterfall  Oldcourt (fringes of Cork City)  - Woodland walks  Pike Wood,  - A picnic area on the outskirts of Killarney town.	Glencar, Co. Kerry	
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<ul> <li>Parking at forest entrances         Maintained in conjunction with Integrated Resource Development         Duhallow (IRD Duhallow).</li> <li>Mullinhassig (close to         Aghabullogue)         <ul> <li>Parking spot</li> <li>Popular unmarked riverside walk to waterfall</li> </ul> </li> <li>Oldcourt (fringes of Cork City)         <ul> <li>Woodland walks</li> </ul> </li> <li>Pike Wood,         <ul> <li>A picnic area on the outskirts of Killarney town.</li> </ul> </li> </ul>	Mount Hillow (along to Double)	
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Duhallow (IRD Duhallow).  Mullinhassig (close to Aghabullogue)  Oldcourt (fringes of Cork City)  Pike Wood,  Duhallow (IRD Duhallow).  Parking spot  Popular unmarked riverside walk to waterfall  Woodland walks  A picnic area on the outskirts of Killarney town.		
Mullinhassig (close to Aghabullogue)  Oldcourt (fringes of Cork City)  Pike Wood,  Parking spot Popular unmarked riverside walk to waterfall  Woodland walks A picnic area on the outskirts of Killarney town.		
Aghabullogue)  Popular unmarked riverside walk to waterfall  Oldcourt (fringes of Cork City)  Woodland walks  Pike Wood,  A picnic area on the outskirts of Killarney town.	Mullinhassig (close to	
Oldcourt (fringes of Cork City)  • Woodland walks  Pike Wood,  A picnic area on the outskirts of Killarney town.	~	9 1
Pike Wood, A picnic area on the outskirts of Killarney town.		
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Site Name	General Description
Pooleen, Glengarriff, Co. Cork	This site is located at the edge of Glengarriff Nature Reserve. Facilities include a car park and picnic area. The main attraction is the pool and associated rock formations created by the Glengarriff River.
Rineen, Union Hall, Leap, Co. Cork	Car park & looped walk at the edge of Castlehaven bay. Park Run 5km held here every Saturday.
Rossacroo, Kilgarvan, Co. Kerry	This is principally a Millennium Forest site with car parking, up-to-date signage and way marked trails.
Tracton Wood (close to Minane Bridge)	<ul><li>Parking area</li><li>woodland walks</li><li>Permit with MTB Club Cork</li></ul>
Warrenscourt (close to Kilmurry/Macroom)	<ul> <li>Car park</li> <li>Picnic facilities</li> <li>Woodland walks</li> <li>Links with Kilmurry Recreation Area</li> </ul>
Dromore, Kenmare, Co. Kerry	Dromore is located adjacent to Templenoe village, c. 11km to WSW of Kenmare. The forest area is a long, narrow strip of forestry situated on lands of the former Dromore Estate, adjacent to S of the N70 Sneem to Kenmare road. The area of existing plantation (KY12) is located on a steady SE-facing slope ranging from 0m OD along the shores of Kenmare Sound and rising to c. 70m OD where it is defined to N by the N70. The recorded monuments and protected structures are located within 4km of each other with the tower house (KE092-030) located at the ENE-end, just outside Templenoe and the children's burial ground (KE101-001) located at the WSW-end, near Blackwater Bridge. The sites can be accessed via existing forest roads and trackways. The Kerry Way runs through the property. There is a holy well on site also.  The Lobster was filmed in the property in Feb / March 2014 which stars Colin Farrell and Rachel Weisz.
National Waymarked Ways	The following long distance walking routes traverse the BAU's forests. They are; Kerry Way Beara Way Sheeps Head Way Sli Gaeltacht Mhúscraí

# Appendix IV – BAU 6 Monitoring

BAL	3 – Monitoring 2016-2020				
Ecor	nomic Parameters				
No	Parameter	Output			
Esta	ablishment				
1	Afforestation (Hectares)	83			
2	Restocking (Hectares)	6,402			
3	Later Manuring Area Aerially Fertilised (Hectares)	70			
Har	vesting				
4	Clearfelled area (Hectares)	3,857			
5	Thinning Area (Hectares)	8,703			
Silvi	icultural Systems				
6	LISS*Areas including OWS** (Hectares)	9,119			
Spe	cies Composition				
7	Primary species	50% area of BAU			
8	Secondary species***	15% area of BAU			
9	Broadleaves	26% area of BAU			
10	Open Space	9% area of BAU			
Che	micals				
11	Chemical usage (kgs active ingredient/ha)	Please refer to Section 4.3 for national figures			
Lan	d Transactions				
12	Area sold by BAU (Hectares)	501.31			
Envi	ronmental Parameters				
No	Parameter	Output			
Biod	liversity				
13	Biodiversity area identified	20%			
14	Biodiversity sites identified	10,196			
15	Biodiversity management plans completed	15			
16	Biodiversity features recorded	10,196			
17	Deadwood: Standing	Please refer to Section 3.6.3			
18	Deadwood: Fallen	Please refer to Section 3.6.3			
19	Forest roads constructed	82,731m			
20	Forest road upgrades	448,517m			
Fore	est Health				
21	BAU Forest Health Survey - Results	No damage recorded			
22	BAU Forest Health Survey - Actions	No action required			
Abic	tic Damage				
23	Fires – area damaged (Hectares)	682.49			
24	Windthrow area (Hectares)	344.14			
Dee	r Culls				
25	Deer Cull Returns	788			
Soci	al Parameters				
No	Parameter	Output			
Culi	Cultural Heritage				
26	Protected archaeological monuments identified	387			

Rec	reation						
27	No of Deer Licences Issued 58						
28	Hunting (Game) Licences Issued	121					
29	Recreation Licences Issued	628					
30	Visitors to forest parks in BAU	1,169,574					
Con	sultation						
31	Stakeholder Queries 782						
Con	Community						
32	32 Community partnerships 12						
Неа	Health and Safety						
33	33 Dumping & Litter Refer to Section 1.5.4						

<sup>\*</sup> Low Impact Silvicultural Systems

<sup>\*\*</sup> Old Woodland Sites

\*\*\*Secondary species are all other conifers outside of Sitka spruce, e.g. DF, LAR, LP, LPS, NS, OC, SP.

## Appendix V - Forest Details

### (A) Actual Volumes 2016-2020

BAU	2016	2017	2018	2019	2020	Grand Total
B6	498,857	489,243	468,374	416,368	172,135	2,044,976

### (B) Forecast Volumes 2021-2025

Forest	Forest Gross Area	Clearfell Volume m³				Thinning Volume m <sup>3</sup>				Clearfell Area (ha)						
101631	(ha)	2021	2022	2023	2024	2025	2021	2022	2023	2024	2025	2021	2022	2023	2024	2025
CK01 - Mullaghareirks	2,167	9,876	0	5,651	7,336	11,463	658	978	632	514	376	20	0	14	13	25
CK02 - Scrahan	438	6,081	2,206	0	8,136	6,735	0	0	0	0	0	13	5	0	21	18
CK03 - Rockchapel	1,343	9,818	1,419	7,775	2,741	0	0	741	311	539	402	18	3	21	4	0
CK04 - Newmarket	2,219	15,024	17,486	29,558	15,464	13,726	2,322	1,619	311	3,142	594	37	37	63	38	22
CK05 - Charleville	165	0	0	0	0	0	734	0	0	0	734	0	0	0	0	0
CK09 - Bweeng	2,447	4,007	24,424	36,172	9,590	23,044	2,564	3,173	2,840	5,544	3,923	8	57	92	24	45
CK10 - Banteer	1,402	2,581	3,317	8,033	5,360	3,950	73	1,376	299	2,504	697	5	6	16	9	5
CK11 - Glendav	1,390	20,252	13,248	25,632	22,889	11,361	3,515	979	1,675	1,385	767	43	26	53	38	17
CK12 - Macroom	4,734	17,034	47,232	27,780	10,727	26,974	2,851	3,969	1,271	7,292	4,265	34	96	67	30	57
CK13 - Killavullen	4,591	35,895	23,249	23,400	24,915	38,769	5,785	10,957	6,954	7,729	12,124	68	45	46	49	80
CK16 - Kilmurry	1,245	7,197	3,681	8,024	2,573	2,697	2,950	1,333	6,515	2,747	2,925	19	9	15	9	10
CK17 - Lee Valley	1,874	9,266	3,707	8,572	6,464	5,619	2,292	906	3,405	478	1,689	24	7	18	14	10
CK18 - Reinanaree	1,098	5,871	6,462	4,272	2,152	2,612	228	1,573	433	842	214	17	15	12	4	6
CK19 - Bantry	1,277	5,625	9,723	6,102	3,034	9,372	1,545	0	1,700	0	194	11	20	20	9	14
CK20 - Beara	1,378	21,355	1,425	5,167	3,152	631	0	0	0	118	168	37	3	13	4	1
CK21 - Ballydehob	1,344	2,691	0	6,896	17,082	626	466	1,154	1,420	2,386	115	6	0	14	44	1
CK22 - Skibbereen	1,366	4,903	4,590	0	4,585	2,928	838	2,422	5,292	2,245	2,895	9	15	0	6	12
CK23 - Rosscarbery	685	6,308	706	1,975	1,756	6,394	789	2,750	500	1,066	1,348	12	2	5	2	29
CK24 - Dunmanway	2,288	38,828	5,087	16,453	14,584	25,642	2,152	4,162	2,240	1,207	1,095	87	11	37	34	73
CK25 - Bandon	907	3,475	2,035	2,083	12,400	12,028	1,324	594	965	1,263	6,228	9	6	3	30	34

	Forest			CI	earfell Vo	lume m³			TI	ninning Vo	lume m³			С	learfell A	rea (ha)
Forest	Gross Area (ha)	2021	2022	2023	2024	2025	2021	2022	2023	2024	2025	2021	2022	2023	2024	2025
CK26 - Rowls	911	261	12,168	322	0	3,660	414	1,872	1,463	1,825	1,202	0	22	1	0	7
CK27 - Gougane Barra	137	1,586	0	0	0	0	0	0	0	0	0	5	0	0	0	0
CK28 - Ballingeary	506	7,805	0	900	0	447	587	366	1,009	748	1,964	18	0	2	0	1
CK29 - Coolea	1,314	10,135	12,211	19,263	753	5,546	471	991	100	1,338	814	23	26	38	1	9
KY01 - Ballylongford	190	0	0	0	0	0	0	338	0	937	0	0	0	0	0	0
KY02 - Cashen River	115	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KY03 - Stack Mountains	4,455	13,716	13,813	8,676	6,458	13,577	2,229	963	1,276	432	672	28	30	18	15	30
KY04 - Brosna	1,817	4,694	25,222	8,988	14,638	8,486	1,470	38	836	186	0	12	50	19	31	15
KY05 - Cordal	1,039	7,462	21,565	6,842	10,285	3,450	0	398	0	0	0	13	45	18	20	5
KY06 - Castlisland	158	0	0	0	0	1,758	0	407	18	80	0	0	0	0	0	6
KY07 - Castlegregory	934	6,638	2,515	3,057	1,466	3,342	0	0	0	0	0	15	5	5	2	5
KY08 - Annascaul	225	1,558	0	0	0	1,315	64	192	0	56	219	5	0	0	0	3
KY09 - Killorglin	1,129	3,085	608	1,741	1,188	12	0	0	1,137	300	1,053	6	2	3	2	0
KY10 - Iveragh	3,590	29,202	25,956	8,884	17,302	8,568	97	375	97	509	0	53	54	18	38	15
KY11 - Sneem	1,067	1,842	10,510	12,299	18	5,809	0	0	0	0	0	4	21	23	0	9
KY12 - Blackwater	1,624	3,392	7,473	936	8,109	11,201	1,891	872	1,343	0	0	8	22	2	16	27
KY13 - Killarney	1,407	9,481	6,412	5,399	3,727	3,288	0	0	0	0	0	18	16	10	5	4
KY14 - Kilgarvan	1,860	19,429	0	4,983	27,860	9,108	3,884	847	1,526	582	256	44	0	9	85	13
KY15 - Clydagh	1,703	28,887	38,681	17,541	50,858	52,157	0	0	109	0	342	70	94	38	107	118
LK01 - Newcastle West	4,243	9,899	20,994	14,277	22,958	7,879	6,045	4,281	5,091	1,831	3,567	21	51	34	53	20
LK02 - Curragh Chase	362	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LK08 - Deel River	334	0	0	2,166	0	11	0	145	772	56	759	0	0	10	0	0
LK09 - Tournafulla	922	0	3,624	174	0	821	944	844	179	1,848	271	0	8	0	0	4

## Appendix VI – Catchments and Sub-Catchments in BAU 6

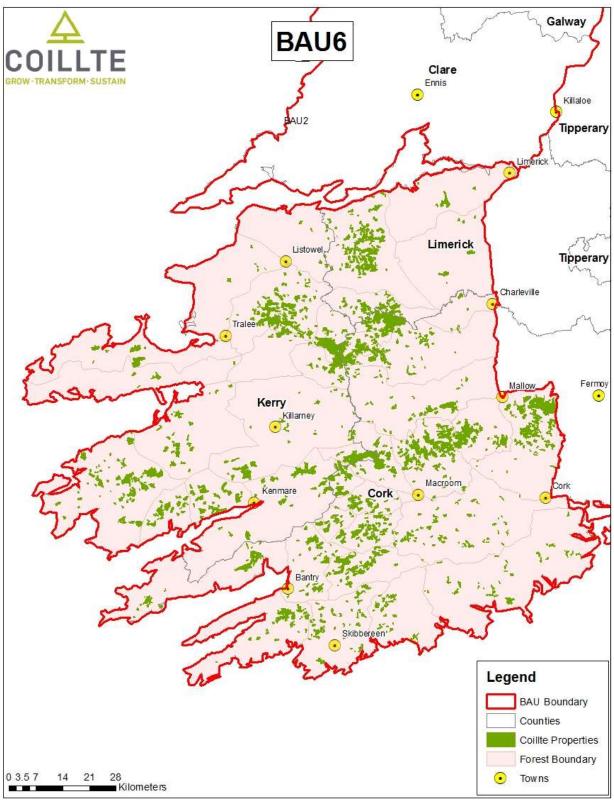
DALLNI	WED Catalan and Na	WED Oatal accept Name	WFD Sub_Catchment	WED Cub. Cottoburget Name
BAU No.	WFD Catchment No.	WFD Catchment Name	No.	WFD Sub_Catchment Name
6	18	Blackwater (Munster)	18_9	Blackwater[Munster]_SC_040
6	18	Blackwater (Munster)	18_3	Blackwater[Munster]_SC_030
6	18	Blackwater (Munster)	18_7	Blackwater[Munster]_SC_070
6	18	Blackwater (Munster)	18_12	Blackwater[Munster]_SC_010
6	18	Blackwater (Munster)	18_18	Dalua_SC_010
6	18	Blackwater (Munster)	18_2	Blackwater[Munster]_SC_060
6	18	Blackwater (Munster)	18_6	Blackwater[Munster]_SC_020
6	18	Blackwater (Munster)	18_23	Blackwater[Munster]_SC_080
6	18	Blackwater (Munster)	18_26	Dalua_SC_020
6	18	Blackwater (Munster)	18_4	Blackwater[Munster]_SC_050
6	18	Blackwater (Munster)	18_1	Brogeen_SC_010
6	19	Lee, Cork Harbour and Youghal Bay	19_18	Lee[Cork]_SC_040
6	19	Lee, Cork Harbour and Youghal Bay	19_5	Manin_SC_010
6	19	Lee, Cork Harbour and Youghal Bay	19_9	Lee[Cork]_SC_050
6	19	Lee, Cork Harbour and Youghal Bay	19_14	Lee[Cork]_SC_010
6	19	Lee, Cork Harbour and Youghal Bay	19_15	Owenboy[Cork]_SC_010
6	19	Lee, Cork Harbour and Youghal Bay	19_4	Foherish_SC_010
6	19	Lee, Cork Harbour and Youghal Bay	19_7	Sullane_SC_020
6	19	Lee, Cork Harbour and Youghal Bay	19_3	Lee[Cork]_SC_020
6	19	Lee, Cork Harbour and Youghal Bay	19_8	Lee[Cork]_SC_060
6	19	Lee, Cork Harbour and Youghal Bay	19_10	Sullane_SC_010
6	19	Lee, Cork Harbour and Youghal Bay	19_6	Lee[Cork]_SC_030
6	20	Bandon-llen	20_6	Bandon_SC_010
6	20	Bandon-llen	20_9	Ilen_SC_020
6	20	Bandon-llen	20_14	Stick_SC_010
6	20	Bandon-llen	20_12	Argideen_SC_010
6	20	Bandon-Ilen	20_2	Bandon_SC_040

6	20	Bandon-Ilen	20_8	Bandon_SC_020
6	20	Bandon-Ilen	20_10	Bandon_SC_030
6	20	Bandon-Ilen	20_4	Kilbrittain_SC_010
6	20	Bandon-Ilen	20_5	Bandon_SC_050
6	20	Bandon-Ilen	20_11	Clonakilty[Stream]_SC_010
6	20	Bandon-Ilen	20_17	Bawnaknockane_SC_010
6	20	Bandon-Ilen	20_13	Bandon_SC_060
6	20	Bandon-Ilen	20_16	Ilen_SC_030
6	20	Bandon-Ilen	20_1	EastCruary_SC_010
6	20	Bandon-Ilen	20_15	Roury_SC_010
6	20	Bandon-Ilen	20_7	Ilen_SC_010
6	20	Bandon-Ilen	20_3	EntrepriseCentreSkull_SC_010
6	21	Dunmanus-Bantry-Kenmare	21_12	Sneem_SC_010
6	21	Dunmanus-Bantry-Kenmare	21_6	Sheen_SC_010
6	21	Dunmanus-Bantry-Kenmare	21_20	Mealagh_SC_010
6	21	Dunmanus-Bantry-Kenmare	21_15	Owenshagh_SC_010
6	21	Dunmanus-Bantry-Kenmare	21_7	Roughty_SC_010
6	21	Dunmanus-Bantry-Kenmare	21_18	Glengarriff_SC_010
6	21	Dunmanus-Bantry-Kenmare	21_14	Dromoghty_SC_010
6	21	Dunmanus-Bantry-Kenmare	21_9	FANAHY_SC_010
6	21	Dunmanus-Bantry-Kenmare	21_1	COOM_SC_010
6	21	Dunmanus-Bantry-Kenmare	21_13	Finnihy_SC_010
6	21	Dunmanus-Bantry-Kenmare	21_8	Finglasriver[Waterville]_SC_010
6	21	Dunmanus-Bantry-Kenmare	21_11	FourMile[Water]_SC_010
6	21	Dunmanus-Bantry-Kenmare	21_17	Clashaduff_SC_010
6	21	Dunmanus-Bantry-Kenmare	21_10	Inny[Kerry]_SC_010
6	21	Dunmanus-Bantry-Kenmare	21_19	Coomhola_SC_010
6	21	Dunmanus-Bantry-Kenmare	21_2	BEHAGHANE_SC_010
6	21	Dunmanus-Bantry-Kenmare	21_16	Ownagappul_SC_010
6	21	Dunmanus-Bantry-Kenmare	21_4	Roughty_SC_020

6	21	Dunmanus-Bantry-Kenmare	21_3	FAHANE_SC_010
6	21	Dunmanus-Bantry-Kenmare	21_5	Kealduff_SC_010
6	22	Laune-Maine-Dingle Bay	22_14	Laune_SC_010
6	22	Laune-Maine-Dingle Bay	22_2	Maine_SC_040
6	22	Laune-Maine-Dingle Bay	22_3	Gaddagh_SC_010
6	22	Laune-Maine-Dingle Bay	22_10	BOOLA_SC_010
6	22	Laune-Maine-Dingle Bay	22_4	Emlaghmore_SC_010
6	22	Laune-Maine-Dingle Bay	22_12	Laune_SC_030
6	22	Laune-Maine-Dingle Bay	22_19	BALLYNAHOW_COMMONS_SC_010
6	22	Laune-Maine-Dingle Bay	22_6	Flesk[Kerry]_SC_020
6	22	Laune-Maine-Dingle Bay	22_9	Maine_SC_020
6	22	Laune-Maine-Dingle Bay	22_18	Owenascaul_SC_010
6	22	Laune-Maine-Dingle Bay	22_8	Flesk[Kerry]_SC_010
6	22	Laune-Maine-Dingle Bay	22_7	Crinnagh_SC_010
6	22	Laune-Maine-Dingle Bay	22_17	Maine_SC_030
6	22	Laune-Maine-Dingle Bay	22_5	Maine_SC_010
6	22	Laune-Maine-Dingle Bay	22_1	Deenagh_SC_010
6	22	Laune-Maine-Dingle Bay	22_16	Quagmire_SC_010
6	22	Laune-Maine-Dingle Bay	22_15	Laune_SC_020
6	22	Laune-Maine-Dingle Bay	22_13	Caragh_SC_010
6	22	Laune-Maine-Dingle Bay	22_11	Ferta_SC_010
6	23	Tralee Bay-Feale	23_14	Brick_SC_020
6	23	Tralee Bay-Feale	23_4	Feale_SC_030
6	23	Tralee Bay-Feale	23_8	Lee[Tralee]_SC_010
6	23	Tralee Bay-Feale	23_6	Brick_SC_010
6	23	Tralee Bay-Feale	23_7	ARDFERT_OUGHTER_SC_010
6	23	Tralee Bay-Feale	23_10	Owenmore[Kerry]_SC_010
6	23	Tralee Bay-Feale	23_9	Owencashla_SC_010
6	23	Tralee Bay-Feale	23_13	Feale_SC_040
6	23	Tralee Bay-Feale	23_11	AnDunRua_SC_010

1				-   -
6	23	Tralee Bay-Feale	23_2	Feale_SC_010
6	23	Tralee Bay-Feale	23_1	Galey_SC_020
6	23	Tralee Bay-Feale	23_3	Galey_SC_010
6	23	Tralee Bay-Feale	23_12	GLOURIA_SC_010
6	23	Tralee Bay-Feale	23_5	Feale_SC_020
6	24	Shannon Estuary South	24_16	Greanagh_SC_010
6	24	Shannon Estuary South	24_7	Owvane[Limerick]_SC_010
6	24	Shannon Estuary South	24_15	Deel[Newcastlewest]_SC_010
6	24	Shannon Estuary South	24_5	Shanagolden[Stream]_SC_010
6	24	Shannon Estuary South	24_9	ASTEE_WEST_SC_010
6	24	Shannon Estuary South	24_4	Deel[Newcastlewest]_SC_030
6	24	Shannon Estuary South	24_18	Deel[Newcastlewest]_SC_050
6	24	Shannon Estuary South	24_1	Deel[Newcastlewest]_SC_040
6	24	Shannon Estuary South	24_14	Deel[Newcastlewest]_SC_020

## Appendix VII – BAU Map



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