

Fermanagh and Omagh District Council Biodiversity Strategy and Action Plan 2022 – 2027



Fermanagh & Omagh
District Council
Comhairle Ceantair
Fhear Manach agus na hÓmaí



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1.0

Executive Summary



1.0 Executive Summary

This document sets out Fermanagh and Omagh District Council's Biodiversity Strategy and Action Plan from 2022 - 2027. It explores the **unique biodiversity** of the District, the biodiversity crisis that is unfolding worldwide, and the practical steps the Council can take to restore biodiversity locally. This will help us to move towards the UN's shared vision of **'living in harmony with nature by 2050'**.

Our District is renowned for its beautiful scenery and wild, open landscapes of hills, lakes, rivers, caves, woodlands and bogs. This diverse mosaic is home to a vast array of priority and protected habitats and species.

Biodiversity is fundamental to both planet and people, whilst providing a host of services and functions that bring value to our lives. Biodiversity is under increasing threat at global, regional and local levels. Urban development, invasive non-native species, intensive agricultural practices and climate change are just some of the drivers of biodiversity loss in Northern Ireland.

The Council acknowledges the role of its partners within the Biodiversity Steering Group and their commitment to working in partnership to protect and enhance local biodiversity. This approach has served our District well, through the implementation of Local Biodiversity Action Plans (LBAPs) and will continue to be a feature of our work going forward. The complexity and scale of the challenges we face will require commitment from many stakeholders, extending well beyond the remit of the Steering Group. Central to this will be a role for residents and visitors of our District to contribute positively to local biodiversity.

Fermanagh and Omagh District Council seeks to champion and promote biodiversity and be an exemplar of good practice across our operations.

Our aims are simple:

- **Protect, enhance and restore biodiversity on Council managed estate**
- **Increase awareness and action for local biodiversity in the District**
- **Work in partnership with others to deliver biodiversity action in the District.**

Through the delivery of seven thematic action plans based on evidenced needs, the Council will contribute to the wider outcomes linked to principles contained within the legislation, which places a legal duty and responsibility on Council to act, namely:

- Protection of biodiversity
- Maintenance of biodiversity
- Enhancing biodiversity
- Restoring biodiversity
- Promoting the understanding of biodiversity.

"To restore stability to our planet, we must restore its biodiversity, the very thing that we've removed. It's the only way out of this crisis that we have created. We must re-wild the world."

David Attenborough, Life on our Planet, 2020

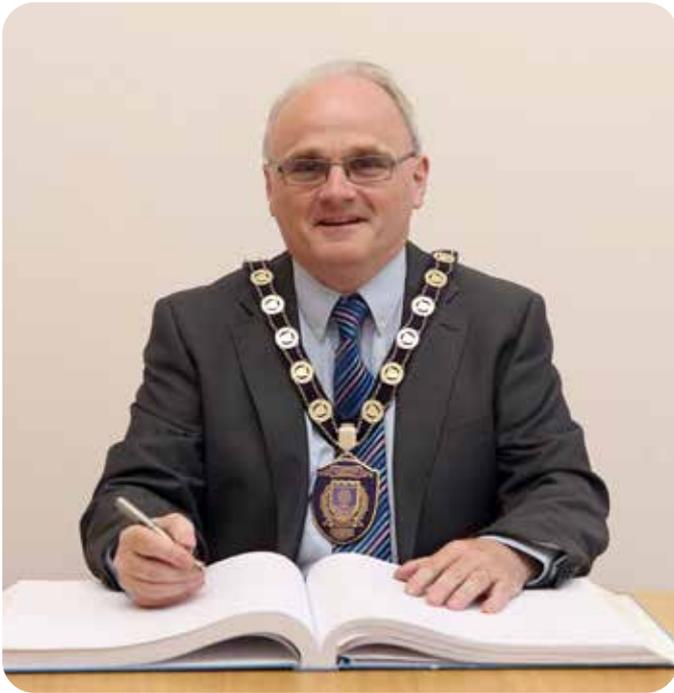
This Strategy does not sit in isolation; it has synergy and complementarity with several key strategic commitments made by the Council. By taking action to deliver on the aims of the Biodiversity Strategy, progress is made towards improving the environment, mitigating against and adapting to climate change, and promoting/supporting health and wellbeing. By protecting and enhancing our natural assets in a sustainable way, we are also developing the tourism potential of the District.

2.0

Forewords



2.0 Forewords



Cllr Barry McElduff

Chair of Fermanagh and Omagh District Council

Our District is renowned for its unique and beautiful scenery, featuring wild, open landscapes of mountains, hills, lakes, rivers, caves, woodlands and bogs 'ar fud na tíre' (throughout the country). These are underpinned by healthy ecosystems, rich with wildlife. The biodiversity of the District showcases everything from rare bog plants to common garden birds, which is why we must act now at a global, regional and local level to tackle the threats facing our natural environment.

Fermanagh and Omagh District Council recognises its responsibilities towards biodiversity and has been working for many years with schools, communities and stakeholders, raising awareness and supporting projects that aim to increase protection for local biodiversity.

The Fermanagh and Omagh District Council Biodiversity Strategy and associated Action Plan will build on existing partnerships. It will also seek to develop new partnerships and commit to more action for local biodiversity, setting out how we will follow best practice. In addition, it will deliver on legislative requirements and lead by example.

The Council (FODC) is rightly proud of the natural heritage of our District and we hope our residents and visitors will work with us as we implement the Biodiversity Strategy and Action Plan. This way, together we can protect, enhance and restore our local environment and biodiversity.

Bígí linn. Join with us on this journey.

2.0 Forewords



Alison McCullagh

**Chief Executive,
Fermanagh and Omagh District Council**

Fermanagh and Omagh District Council values the unique biodiversity of our District and endeavours to reflect a sustainable approach through our services, including homes, food and water for wildlife, support for pollinators and healthy soils, recreational benefits and improved health and wellbeing for our residents. A rich and diverse biodiversity is critical to ensure that our ecosystems remain healthy and are able to help us mitigate the impact of Climate Change, through carbon storage and adaptation.

The Council's first Climate Change and Sustainable Development Action Plan was launched in October 2021 and within it we recognise the vital role that protecting our environment plays for the future of planet and people.

Fermanagh and Omagh District Council's Biodiversity Strategy has three overarching aims:

1. Protect, enhance and restore biodiversity on Council managed estate
2. Increase awareness and action for local biodiversity in the District
3. Work in partnership with others to deliver biodiversity action in the District.

The implementation of our Biodiversity Strategy, and its associated Action Plan, will support the Council's wider Climate Change commitments through a series of actions across key themes such as Pollinators, Trees and Woodland and Education and Outreach.

We invite you to work with us to help protect and restore our local environment and its biodiversity for the benefit of current and future generations.

3.0

Biodiversity - An Introduction



3.0 Biodiversity - An Introduction

Biodiversity encompasses the whole variety of life on Earth. It includes all species of plants, fungi, animals, their genetic variation and the complex ecosystems of which they are part. It is not restricted to rare or threatened species, but includes the whole of the natural world, from the commonplace to the critically endangered (DAERA, 2021). Fermanagh and Omagh District Council (FODC) supports a wide range of ecosystems, from those relatively undisturbed in character to ecosystems intensively managed and modified by humans, such as agricultural land and urban areas.

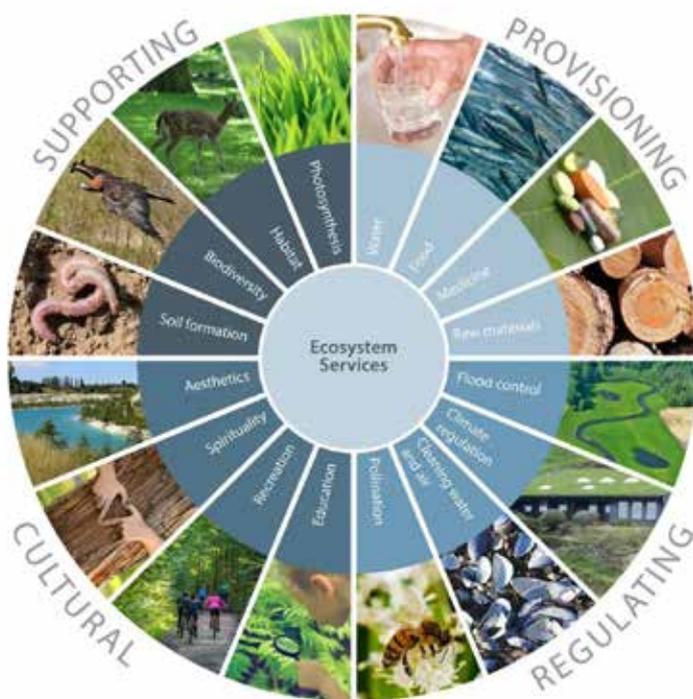
Biodiversity is fundamental to both planet and people. In addition to its key importance, biodiversity also provides a host of services and functions that bring value to our lives, including:

- Provision of food, water, timber and fibre (**provisioning services**).
- Helping to regulate climate change, floods, disease, waste and water quality (**regulating services**).
- Providing recreational, aesthetic and cultural benefits (**cultural services**).
- Supporting soil formation, pollination, photosynthesis, and nutrient cycling (**supporting services**).

These free **Ecosystem Services** are often taken for granted and are simply defined in the UK National Ecosystem Assessment.

“Ecosystem services are the benefits provided by ecosystems that contribute to making human life both possible and worth living”
(UK National Ecosystem Assessment, 2011)¹

The concept of valuing biodiversity through the ecosystem services it provides, emphasises its importance to economic, social and environmental sectors of society. The finite nature of biodiversity means that its resources must be used and managed in a sustainable way. This makes biodiversity a vital indicator of the success of sustainable development.



Ecosystem Services Diagram by UK National Ecosystem Assessment.

¹ UK National Ecosystem Assessment (2011) *The UK National Ecosystem Assessment: Synthesis of the Key Findings*. UNEP-WCMC, Cambridge.

4.0

Delivering on Our Existing Commitments



4.0 Delivering on Our Existing Commitments

The Biodiversity Strategy does not sit in isolation. It has been developed to meet existing commitments within key Council Strategies and is fundamental to the delivery of key priorities and high-level outcomes for the District. A summary is provided below which highlights the significant role and importance of this Strategy.

Biodiversity is weaved throughout both the Corporate and Community Plan as standalone actions and as part of more holistic actions to address additional issues such as mental health and well-being, access to the countryside and a green recovery.

Fermanagh and Omagh 2030

The Biodiversity Strategy will help contribute to the vision of our Community Plan which is of, 'a welcoming, shared and inclusive Fermanagh and Omagh, where people and places are healthy, safe, connected and prosperous, and where our **outstanding natural, built and cultural heritage is cherished and sustainably managed.**'



There are many links and crossovers for biodiversity action in the Community Plan, but in its current phase, biodiversity action relates directly to the following actions:

- Working in partnership with communities to build environmental awareness and activities

- Promote the protection and enhancement of biodiversity and raise awareness of the value of our natural environment

The Council's Corporate Plan 2020 - 2024

"Our Vision for Fermanagh and Omagh is of a welcoming, shared and inclusive district, where people and places are healthy, safe, connected and prosperous; and where our outstanding natural, built and cultural heritage is cherished and sustainably managed".



Specific outcomes include:

Outcome 1: Our people are healthy and well – physically, mentally and emotionally

Outcome 3: Our communities are inclusive, safe, resilient and empowered

Outcome 6: Our outstanding and culturally rich environment is cherished, sustainably managed and appropriately accessible

- **Action 23: Commit to a Climate Change Agenda which will reduce our carbon emissions through:**
 - Sustainable management of the Council's estates and assets
 - Enhancement and promotion of biodiversity

4.0 Delivering on Our Existing Commitments

- **Action 24: Conserve and promote the natural, built and cultural heritage of our district:**
 - Development and delivery of a Heritage Action Plan.

Performance Improvement Plan

- The Council's Performance Improvement Plan outlines five **Improvement Priorities** which will be the focus of its improvement activity over the 2020-24 Council term. Three of these have direct relevance to this Biodiversity Strategy, namely:
 - Positive Climate Action.
 - Promoting and Supporting Health and Well-being.
 - Developing Our Tourism Potential.



Local Development Plan 2030

The Local Development Plan (LDP) sets out the spatial strategy for the future planning and sustainable development of the District until 2030. Sustainable development is at the heart of the LDP, with the natural environment and biodiversity a key element of this.

Locally, our natural environment contributes towards our growing tourism market, economic development and the associated health benefits it affords. The objectives and policies of the LDP seek to protect, conserve, enhance, restore and halt the loss of biodiversity and habitats.



Policies in the LDP which seek to protect open spaces will help to develop and enhance biodiversity. This ensures the protection and provision of green and blue infrastructure within towns and villages with links to the surrounding countryside. Natural open spaces provide opportunities for recreation, assist in flood management and help improve biodiversity in and around settlements.

Climate Change and Sustainable Development Strategy 2020-2030 and Climate Change and Sustainable Development Action Plan 2021-2024

The Climate Change and Sustainable Development Strategy and Climate Change and Sustainable Development Action Plan 2021 – 2024 have set out the practical steps the Council can take over the coming years to minimise the impacts of climate change, but also suggests ways we can counter the severity of the Climate Emergency. The Strategy sets out how the Council will work towards the achievement of the United Nations' 17 Global Sustainable Development Goals by moving closer to building an inclusive, sustainable and resilient future for our people, our environment and our economy. This includes a range of actions to mitigate climate change impacts through carbon sequestration and to help in building biodiversity resilience, covering

4.0 Delivering on Our Existing Commitments

action areas such as tree planting and tree care, bog protection and restoration, habitat management and restoration, and education. These themes in the Climate Change and Sustainable Development Action Plan will cross over into actions emerging from this Biodiversity Strategy and help to deliver local actions for UN Sustainable Development Goals No. 14 *Life below water*, No. 15 *Life on land and others*.

In addition to the aforementioned documents, the Biodiversity Strategy also complements the work of the Council's Estates Strategy (2020 - 2030), Cuilcagh Lakelands UNESCO Global Geopark Development Plan 2022 - 2032, the Council's Play Park Strategy 2021 - 2030 (principle no. 6 and 8) and the forthcoming Council Visitor Experience Development Plan.



5.0

Our District's Biodiversity - At a Glance

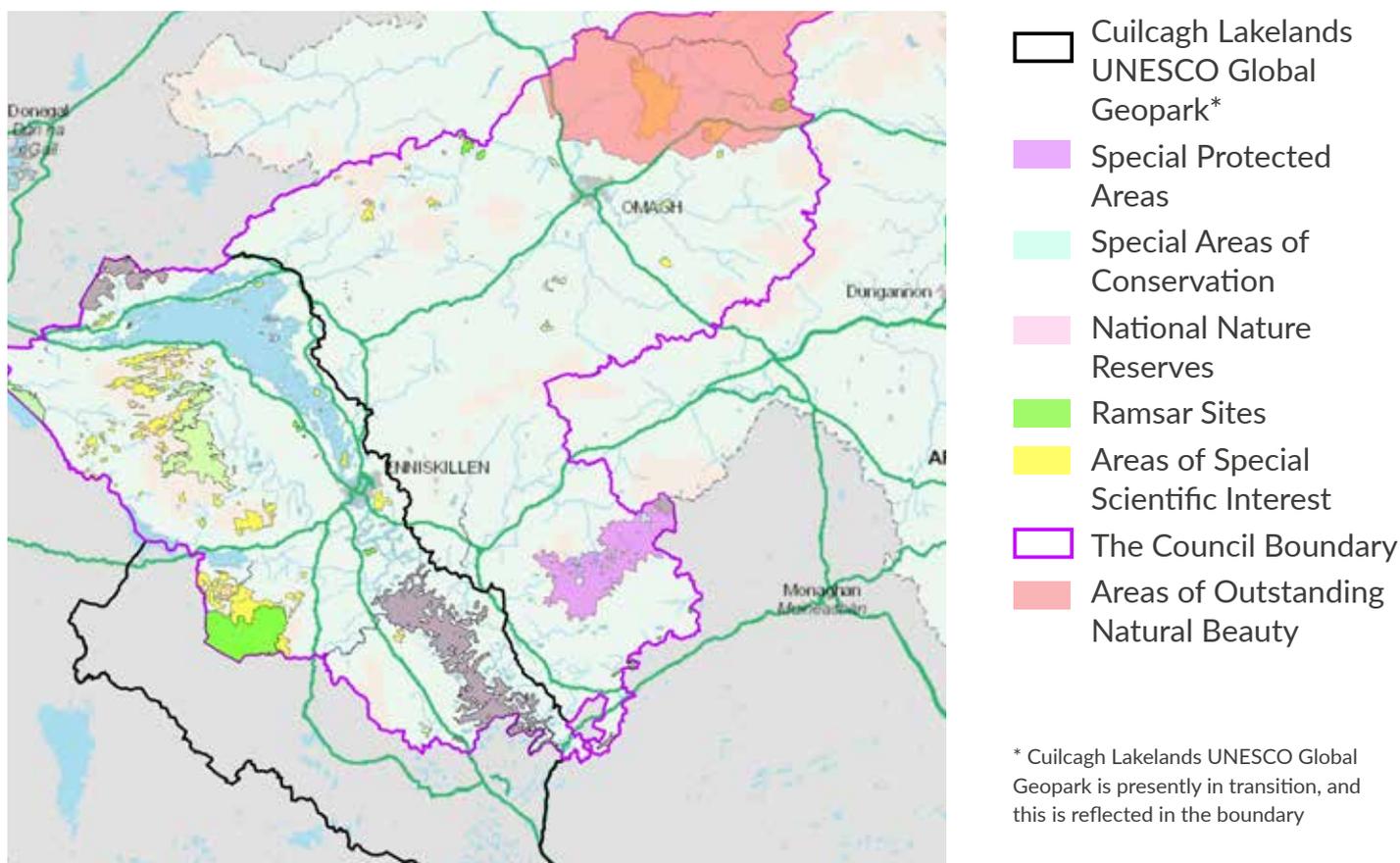


5.0 Our District's Biodiversity – At a Glance

The Fermanagh and Omagh District is renowned for its beautiful scenery and wild and open landscapes of hills, lakes, rivers, woodlands and bogs. This diverse mosaic of habitats is home to a vast array of priority and protected habitats and species, showcased in Figure 1. These numbers show just how important our District is in terms of biodiversity and in turn, the ecosystem services and natural

benefits it provides us. However, the habitats and wildlife corridors between these protected sites are equally important in supporting healthy, functioning ecosystems, rich in variety and abundant in wildlife. More detail on specific characteristics of the District is included in: **Appendix 1 Biodiversity in Fermanagh and Omagh.**

Figure 1: Map of protected sites and landscapes in the Council area.



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1 Area of Outstanding Natural Beauty (AONB)

3 Local Nature Reserves (LNR)

1 UNESCO Global Geopark

133 Areas of Special Scientific Interest (ASSI)

3 Special Protected Areas (SPA)

20 Special Areas of Conservation (SAC)

12 National Nature Reserves (NNR)

8 RAMSAR areas

5.0 Our District's Biodiversity – At a Glance

Our District boasts a rich array of natural habitats which are home to a range of diverse species.

Famous Rivers and Lakes

Notable examples include (but not limited to) Lough Erne, Owenkillew River, River Strule, Erne River, Lough Melvin, Murrins NNR, Killyfole, Gortin Lakes and Loughmacrory.



Precious Bogs & Heath

Notable examples of Lowland Raised Bog include Black Bog (SAC), Fairywater Bogs (SAC), Moninea; Blanket Bog in Bessy Bell, Sperrins, Pettigo Plateau & Cuilcagh Mountain; Upland Heathland in Mullaghcarn, Brougher Mountain, Slieve Beagh and Cuilcagh.



Unique Geodiversity and Calcareous Habitat

Unique geodiversity (rocks, landforms and processes) including notable calcareous habitats and karst (limestone) formations dominate the Cuilcagh Lakelands UNESCO Global Geopark.



Urban Gardens

Examples such as our urban & rural gardens, public parks and open space & school grounds.



Our Diverse Grasslands

Notable examples include lowland meadows, purple moor grass, rush pastures and roadside verges.



Woodlands

Notable examples include oak woodland (e.g. Drumlea), wet woodland (e.g. fringes around Castle Caldwell Forest, Castle Archdale Country Park), parkland (e.g. Castle Coole), ashwoods (e.g. Hanging Rock - coniferous forests throughout the district and many species rich hedgerows.



6.0

The Biodiversity Crisis



6.0 The Biodiversity Crisis

Whilst our District is host to many unique, common and important habitats and species, they are continually under threat and have suffered declines, just as biodiversity has suffered regionally and worldwide. There are several issues that are acknowledged as key drivers of biodiversity loss.

The biggest threat to biodiversity at a global, regional and local scale, is the loss of natural habitats and fragmentation of existing habitat. Since the 1950s, 41,000 hectares of countryside in Northern Ireland has been lost to urban development, with an unquantified loss of biodiversity. Pressures associated with intensive agriculture have had major impacts on habitats and species, with over 70% of the number of habitats of EU interest reported to be negatively impacted by agriculture (State of Nature 2019, 2019).



Drivers of Biodiversity Change in Northern Ireland based on State of Nature 2019 Report.

6.0 The Biodiversity Crisis - Globally and Locally

Non-native species are a significant threat to biodiversity and our local economy. Invasive species within the Fermanagh and Omagh District include zebra mussel, Japanese knotweed, giant hogweed, rhododendron, Himalayan balsam, and diseases such as ash dieback; a fungal disease introduced on imported trees, which is having a devastating impact on native ash trees throughout the UK and Ireland.

There is strong evidence that climate change is already affecting UK biodiversity and research indicates that this is happening at a faster rate than ever before. Some habitats are particularly vulnerable to climate change; the risks are clearest for montane habitats (increased temperature), wetlands (changes in water availability) and coastal habitats (sea level rise). Impacts are expected to increase in magnitude as climate change worsens.



According to the UK government's own review of its progress towards its biodiversity goals, 14 out of 42 biodiversity indicators show a long-term decline, including continued deterioration of the UK habitats and species of European importance, as well as a decline in priority species. The State of Nature 2019 report has revealed that 41% of UK species studied have declined, 26% have increased and 33% show little change since 1970. Furthermore, the State of Nature 2019 report found that populations of the UK's most important wildlife have fallen by 60% over the last 50 years.

CLIMATE CHANGE IS HAVING AN INCREASING IMPACT ON NATURE IN THE UK



40% of moth decline is due to climate change.



60% of aphid increase is due to climate change.

The UK's kittiwake population has declined by **70%** since 1986 as climate change has reduced the availability of sandeels, a key food source in breeding season.



Migratory birds are arriving and laying eggs earlier.



Swallows are arriving in the UK **15 days earlier** and breeding **11 days earlier** than they did in the 1960s.

Great tits lay their eggs on average **11 days earlier** than they did in 1968.

6.0 The Biodiversity Crisis - Globally and Locally

Wild animal populations have fallen by more than two-thirds since 1970 and have continued to decline since 2010. Whilst some species groups have made positive improvements in recent years, most are still declining and show no signs of population recovery.

Examples of worrying trends can be seen in declining populations of indicator species groups. An abundance indicator based on nine butterfly species has decreased by 43% since 2006. Additionally, an indicator of average abundance in 36 wintering waterbird species has declined by 25% since 1988, and by 24% over the past 10 years (State of Nature 2019, 2019).

6.1 Consequences of Inaction

On the current path, biodiversity and ecosystem services will continue to decline. The decline of biodiversity will risk the achievement of the Sustainable Development Goals (SDGs).

“In ‘business as usual’ scenarios, this trend is projected to continue until 2050 and beyond, due to the increasing impacts of land and sea use change, overexploitation, climate change, pollution and invasive alien species. These pressures are in turn being driven by current unsustainable patterns of production and consumption, population growth and technological developments. The projected decline in biodiversity will affect all people, but it will have a particularly detrimental effect on indigenous peoples and local communities, and the world’s poor and vulnerable, given their reliance on biodiversity for their wellbeing.”
(Global Biodiversity Outlook, 2022)²

Northern Ireland’s Biodiversity is Declining



11% of 2,450 species assessed are threatened with extinction from the island of Ireland

Since 1970...

more species in the UK have seen their populations decrease than increase:

41%	33%	36%
Have decreased	Little change	Have increased

We have seen big changes in where the UK’s wildlife is found:

27%	52%	21%
Found in fewer places	Little change	Found in more places

² Secretariat of the Convention on Biological Diversity (2020) *Global Biodiversity Outlook 5 – Summary for Policy Makers*. Montréal

7.0

Biodiversity: It's Our Duty & Our Responsibility



7.0 Biodiversity: It's Our Duty & Our Responsibility

In 2011, the Wildlife and Natural Environment Act (WANE)³ in Northern Ireland came into force, amending the Wildlife Order (NI) 1985 and introducing new species to protected lists. The WANE Act also tightened controls on invasive species and increased penalties for wildlife crime. The Act included a significant change for public bodies with the introduction of a new Biodiversity Duty for all public bodies.

"It is the duty of every public body, in exercising any functions, to further the conservation of biodiversity so far as is consistent with the proper exercise of those functions."

Wildlife and Natural Environment Act (NI) 2011

What's involved?

The aim of the duty is to raise the profile and visibility of biodiversity and to make it an integral part of policy and decision making. Public bodies, including councils, must consider the following five areas:

- Protection of biodiversity
- Maintenance of biodiversity
- Enhancing biodiversity
- Restoring biodiversity
- Promoting the understanding of biodiversity both within and outside the organisation

These 5 areas will guide our action and become the 5 Governing Principles of our Biodiversity Strategy and Action Plan.

"To restore stability to our planet, we must restore its biodiversity, the very thing that we've removed. It's the only way out of this crisis that we have created. We must re-wild the world."

David Attenborough, Life on our Planet, 2020

7.1 Other Legislation

Whilst many of the Council's actions for biodiversity have been delivered to help meet the above legislative requirement, our work also impacts on other key obligations, namely:

- The Wildlife Order (NI) 1985, as amended by the Wildlife and Natural Environment Act (NI) 2011 (WANE Act)
- The Conservation (Natural Habitats etc.) Regulations (NI) 1995, amended in 2012
- The Nature Conservation and Amenity Lands Order (NI) 1985, amended in 1989
- The Environment Order (NI) 2002
- The Invasive Alien Species (Enforcement and Permitting) Order (NI) 2019

7.2 Responsibility for Delivery

Our approach to action for biodiversity in the District depends on partnership working and collaboration internally in Council and externally with stakeholders and the community. Fermanagh and Omagh District Council has worked alongside partners within the Biodiversity Steering Group, local communities and neighbouring Councils in developing and delivering actions within the Local Biodiversity Action Plans (LBAPs), to promote, protect and improve biodiversity within the District.

The scale and complexity of the prevailing global issues impacting biodiversity mean that the Council alone cannot do everything that is needed. The Council recognises and depends on the critical role played by statutory partners, community and voluntary organisations, and residents, in protecting and enhancing biodiversity within the District.

³Legislation.gov.uk (2011) Wildlife and Natural Environment Act (Northern Ireland) 2011. <http://www.legislation.gov.uk/2011/15/contents>. Accessed 27/08/2021.

7.0 Biodiversity: It's Our Duty & Our Responsibility

It is important that all sectors accept responsibility for ensuring that action for biodiversity is integrated fully into their work.

The Council can continue to provide **leadership and direction**, acting as an exemplar of good practice. The Council will seek to embed best practice across all of its operations, ensuring that we play our part in enhancing local biodiversity in everything we do. We already collaborate internally by working across all relevant departments on key service areas and as such have an internal officer working group e.g. Biodiversity Team, Parks Team, Cuilcagh Lakelands UNESCO Global Geopark.

The Council acknowledges the contribution and commitment of each of our partners. Each have made great strides in their respective work for biodiversity and further information about the Steering Group's work and other organisations can be found via the links provided in **Appendix 3 - Finding out more about Biodiversity Action in Northern Ireland**.

7.3 Our Biodiversity Story So Far

The previous LBAP covering the 2016-20 period outlined over 100 actions divided across Habitat and Species Action Plans, collectively aiming to:

- Help conserve and enhance local habitats and species
- Raise awareness and knowledge of local biodiversity
- Involve local people and develop partnerships in the delivery of the Fermanagh and Omagh Local Biodiversity Action Plan

The delivery of the Fermanagh and Omagh LBAP saw many practical actions for habitats and species on Council estate as well as a significant rise in awareness and engagement. Highlights include new woodland planting, meadow management, habitat and species surveys, red squirrel conservation, protection and mitigation for bat roosts, mitigation for smooth newts and invasive species control.

A full summary of Biodiversity Actions and Best Practice achieved to date are displayed in **Appendix 2 – Our Biodiversity Story so far**.

A section from the Fermanagh and Omagh Local Biodiversity Action Plan 2016 -2020.

<https://www.fermanaghomagh.com/app/uploads/2016/07/Fermanagh-and-Omagh-Local-Biodiversity-Map.pdf>

8.0

Global and National Commitments to Biodiversity



8.0 Global and National Commitments to Biodiversity

There are various international and national commitments to biodiversity, and some are highlighted below. The Council will work to ensure that this Strategy is reviewed while considering any new or additional recommendations arising from such commitments, as and when required to do so.

International

COP15

The Convention of Parties for CBD (COP15) Part 1 met virtually in October 2021 and is scheduled to meet in person in spring 2022 at Kunming, China, at which bold and challenging global targets and milestones will be launched. This post-2020 global biodiversity framework will set out an ambitious plan to implement broad-based action to bring about a transformation in society's relationship with biodiversity, ensuring that by 2050 the shared vision of 'living in harmony with nature' is fulfilled.

COP26

The COP26 summit brings parties together to accelerate action towards the goals of the Paris Agreement and the UN Framework Convention on Climate Change.

Some of the major goals of COP26:

- Secure global net zero by mid-century and keep 1.5 degrees warming within reach.
- Adapt to protect communities and natural habitats from climate change.
- Mobilise finance so that developed countries contribute at least \$100bn in climate finance per year by 2020.

National – UK And Europe

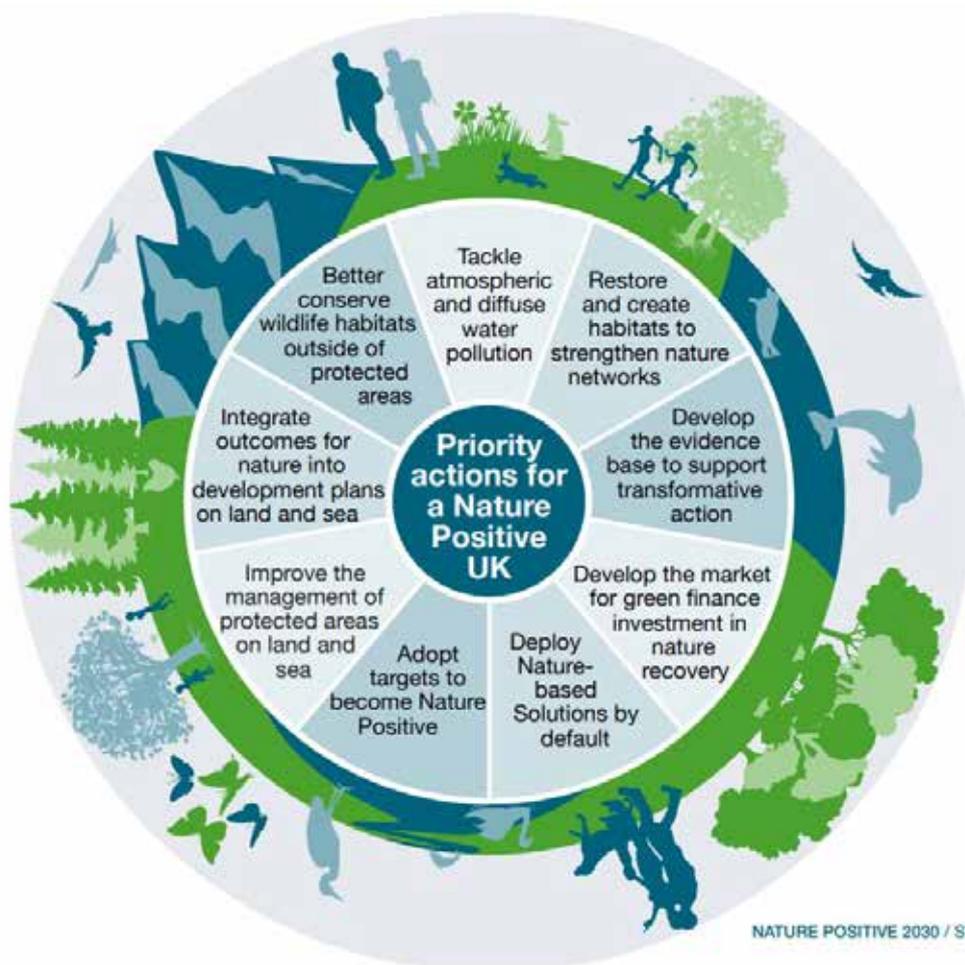
Nature Positive 2030 Report

Five statutory nature conservation bodies of the UK have come together to identify how the UK can succeed in achieving these commitments along with ensuring that nature recovery plays its critical role in achieving net zero. 'Becoming Nature Positive by 2030 means reversing the current decline of biodiversity so that ecosystem restoration is underway and species are increasing in abundance and fewer are threatened with extinction. This is a critical step on the way to recovering nature by 2050' (Nature Positive 2030 Evidence Report, 2021).

2030 EU Biodiversity Strategy

The biodiversity strategy aims to put Europe's biodiversity on the path to recovery by 2030 for the benefit of people, climate and the planet.

8.0 Global and National Commitments to Biodiversity



Regional

Pending Biodiversity Strategy for NI 2022 +

A review of the Biodiversity Strategy for NI to 2020 has been complete and consultation on a new strategy for NI is anticipated in 2022 in conjunction with COP15 and reflecting the Nature Positive 2030 report.

Other Key Strategies including NI Climate Change Bill, NI Environment Bill, Draft NI Peatland Strategy and NI IAS Strategy.

9.0

A Positive Plan for Biodiversity - Our Next Steps



9.0 A Positive Plan for Biodiversity

– Our Next Steps

The Council requires a plan which is realistic, achievable and measurable. We are one of many stakeholders involved in efforts to protect and enhance biodiversity. Each will play an important role to deliver better outcomes for biodiversity. The Council recognises its obligations and responsibility to contribute positively and, as such, has developed a series of plans which aim to:

- **Protect, enhance and restore biodiversity on Council managed estate**
- **Increase awareness and action for local biodiversity in the District**
- **Work in partnership with others to deliver biodiversity action in the District.**

The Council manages approximately 112 hectares of green space across the District. This natural capital provides spaces for people and biodiversity as well as acting as a carbon sink, removing approximately 400 tonnes of CO₂ per year, based on average benchmarks for carbon sequestration from municipal green space. This carbon capture capability can be increased through appropriate habitat management and innovative thinking, such as planting the right trees in the right places or changing how we manage our grass cutting regime.

The Council managed estate includes over 850 individual property assets. This includes 130+ play and amenity areas, 35 playing fields/multi-use games areas, 10 community centres, 2 theatres, 4 leisure centres, 50+ public convenience facilities and 5 cemeteries. There are also assets reflecting the rural heritage of the district, including caves, castles, islands, loughs, jetties, bridges, forests and an extensive walkways network.

Using the Framework for Biodiversity Action, this **Biodiversity Strategy and Action Plan** will focus our work for the next 5 years through 7 key themes. The Council aims to deliver on the core principles of the Biodiversity Duty, utilising these as our **Biodiversity Strategy Outcomes**. The scope of this document outlines opportunities to protect, manage and restore biodiversity on Council managed estate where possible. However, there is further potential to work in partnership beyond our own estate, which may be an excellent way to promote and raise awareness of the importance of ‘**living in harmony with nature**’ and meeting our Biodiversity commitments.

The following sections provide more detail on the seven themes that form part of the Biodiversity Strategy. This includes some context on each area, an overview of work already undertaken and Council’s intentions going forward to help deliver on the aims of the Biodiversity Strategy.



9.0 A Positive Plan for Biodiversity – Our Next Steps

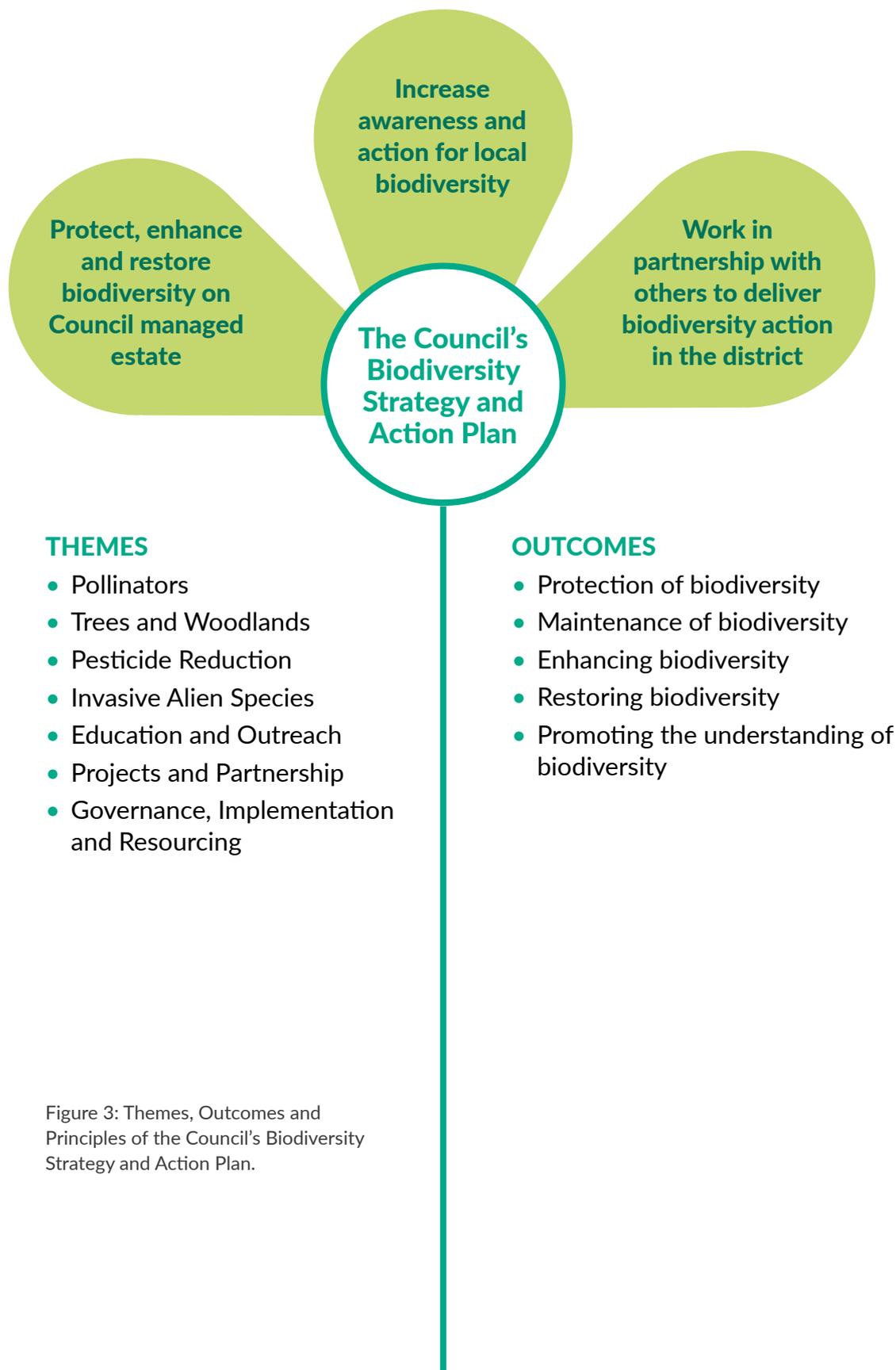


Figure 3: Themes, Outcomes and Principles of the Council's Biodiversity Strategy and Action Plan.

9.1 Theme 1: Pollinators

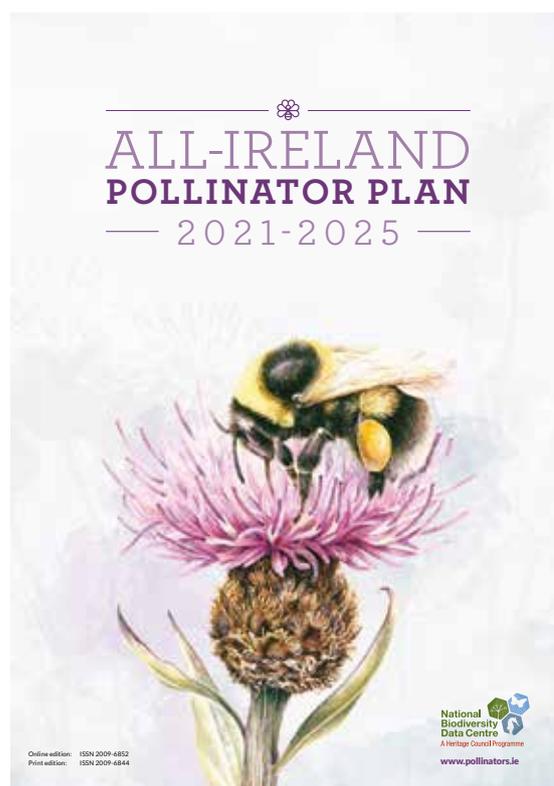
Pollinating insects such as bumblebees, solitary bees, hoverflies and other insects, play a vital role in our environment, ensuring that many crops and wild plants can produce fruit and set seed. People depend on pollinators and the important **ecosystem services** they provide. However, our pollinators are in decline with almost one third of the 99 different types of bees on the island of Ireland, threatened with extinction. Pollinators require flowering habitats like wildflower meadows, hedgerows, woodlands and agricultural areas to survive. Habitat loss, fragmentation, degradation, decline in wildflowers, pesticides, pests and diseases, have resulted in a decline in pollinators, resulting in biodiversity and economic loss. **The annual value of pollinators is at least €53 million in the Republic of Ireland and £603 million in the UK.**

The Council has been undertaking a significant amount of positive work for pollinators such as our annual 'Trees for Bees' programme, delivering annual pollinator workshops with schools, and continuing commitment to the "Don't Mow, Let It Grow" initiative. This initiative has allowed 35 Council sites to be managed as meadows and many more informal sites have been created across the district on roadside verges in partnership with the Department for Infrastructure.

The Council is a formal partner in the All-Ireland Pollinator Plan; a shared plan of action that aims to help pollinators survive and thrive. The Council also supports the wide range of work being undertaken by the Pollinator Monitoring and Research Partnership (PMRP), who aim to establish how insect pollinator populations are changing.

The Council will continue to work in partnership to deliver action for pollinators, rolling out annually the 'Don't Mow, Let it Grow' programme, continuing to deliver pollinator workshops and training for schools and communities and engaging with the wider public through pollinator initiatives and advice giving. Council will seek out other opportunities to protect pollinators on Council managed estate such as creating or managing invertebrate earth banks or including bee bricks in building projects.

To find out more about pollinators, actions you can take in your garden, farm or community, and plans to support biodiversity, visit www.pollinators.ie and ukpoms.org.uk.



All Ireland Pollinator Plan 2021-2025

9.2 Theme 2: Trees and Woodlands

Trees are essential as they provide many services for people, wildlife, the environment, and are often taken for granted. These **Ecosystem Services** range from carbon sequestration, producing oxygen, providing homes and food for wildlife, flood alleviation, soil stability and improvement, producing fruit, inspiring people, providing natural play areas and more.

Despite the many services that trees provide, our landscape is still one of the least wooded regions in Europe.

“Northern Ireland ranks badly as one of the least-wooded regions in Europe, with just 8% woodland cover compared with the European average of 37%. In addition, almost 60% of our woodland is in the form of recent conifer plantations.”

(Woodland Trust, 2021).⁴

As humans have settled over the years, we have cleared trees for harvesting and to create farmland. But worsening climate change and the biodiversity crisis in the last 40 years has led to a realisation of the need to replant and allow natural regeneration to occur. Without interference, the landscape would naturally rewild itself to achieve its natural climax vegetation of native woodland. This would halt and reverse the devastating impacts on biodiversity that woodland and tree loss has caused to date.

Right Tree, Right Place, Right Reason

The Council have been working in partnership to plant trees, native woodland and native hedgerows for several years on Council managed estate and where possible, with community groups and schools. The Council have also consistently replanted larger standard trees as replacements when required. Since 2019, we have also planted over 200 heritage apple trees in partnership with schools and the Lough Erne Landscape Partnership (LELP), through the Trees for Bees initiative.

Fermanagh and Omagh District Council has already committed to additional tree planting through the Climate Change and Sustainable Development Strategy and the following key action:

‘Develop a Tree Plan to increase tree cover on council-owned land, using appropriate species to store carbon, support nature, improve soils and water quality, and aid flood protection and urban design.’



A tree displaying all the services they provide.

Copyright - <https://rootsforthefuture.co.uk/>

⁴ Woodland Trust (2021) *Our Work in Northern Ireland*. <https://www.woodlandtrust.org.uk/about-us/where-we-work/northern-ireland/>. Accessed 31/08/2021.

9.2 Theme 2: Trees and Woodlands

Furthermore, it is our aim to assist in protecting, increasing and maintaining native woodland and tree cover in our District, through partnership working, promotion of woodland creation schemes to landowners and the farming community, protecting existing woodlands and Ancient Woodland Sites on our estate, and raising awareness to others. We are currently and will continue to work with organisations such as the Woodland Trust, to identify sites in our District that are appropriate for native tree planting, availing from schemes such as the 'More Woods More Good' scheme and where possible, Department of Agriculture, Environment and Rural Affairs (DAERA) woodland grants. We will also promote the growing of local provenance native trees to meet the growing demand and seek to support initiatives that align with this.

The Cuilcagh Lakelands UNESCO Global Geopark will have an additional role to play, given their long established and on-going partnership with Forest Service NI. Council shall continue to work in partnership to promote the sustainable management of all Geopark sites, including woodland creation, protection of existing woodlands and ancient woodland sites, and education and awareness raising where appropriate.

We will follow the **Right Tree in the Right Place** principle, evaluating each site and situation to determine the most appropriate tree species to be planted for biodiversity, amenity and climate action reasons. We will also seek to ensure other priority and important habitats such as species rich grassland, peatlands and heathlands are not used for new woodland planting in Council estate.

Ecclesville Demesne

In 2022, Council will embark with a plan to gradually change coniferous forest at Ecclesville Demesne, Fintona, to mainly native deciduous woodland, whilst protecting existing natural heritage features in the Demesne, including raths, mature and veteran trees, ancient woodland and protected species. This scheme, when complete, will add significantly to our native tree planting efforts and help to meet our commitments to Nature Positive 2030 and climate action in the District.

Ash Dieback

Chalara dieback of ash, also known as Chalara or ash dieback, is a disease of ash trees caused by a fungus called *Hymenoscyphus fraxineus*. It is now widespread and causing many ash trees to lose their leaves and eventually die. Landowners including Council now have a responsibility to monitor ash trees on land they manage for potential heightened health and safety implications that dead or dying trees can pose, especially those positioned close to or near roads and public spaces.

It is not known yet what the full impact of ash dieback will be in Northern Ireland. Evidence from continental Europe suggests that older, mature ash trees can survive infection and continue to provide their landscape and wildlife benefits for some time. The best hope for the long-term future of Northern Ireland's ash trees lies in identifying the genetic factors which enable some ash trees to tolerate or resist infection and using these to breed new generations of tolerant ash trees for the future. Scientists (including Agri-Food and Biosciences Institute) and regulators (e.g. DAERA) are working closely to screen indigenous ash trees for tolerance to the pathogen to help create and maintain diverse and resilient woodlands in the future.

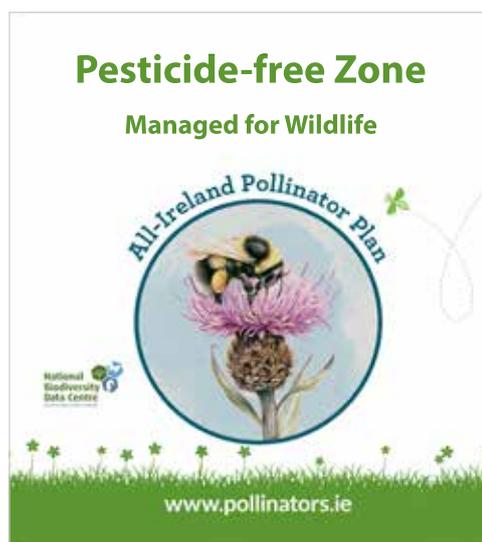
9.3 Theme 3: Pesticide Reduction

Pesticides are chemicals that may be used to control organisms such as fungi, bacteria, insects, plant diseases or weeds, among others. Pesticides can be categorised into insecticides and herbicides, which are specifically used to target and control certain species. Their use has been a longstanding option used by public bodies and many landowners. However, in recent times, Council has begun to review its use and the impacts pesticides have on our environment. The Council currently uses glyphosate-based herbicides for the targeted control of weeds in public areas, such as streets, paths and cemeteries. Other types of herbicide are used for the control of moss on play parks and weeds on sports pitches.

The Council has identified the need for action on protecting our soils, insects and wider biodiversity through our progress in action for pollinators. Whilst the desire and need is clear to reduce pesticide use (where possible) on Council managed estate, the challenge is to find alternative ways of managing weed control successfully and viably. Many alternative treatments for weed control are available. Research has shown only some alternatives may provide acceptable results in line with current service levels. A switch to any of these may incur significant additional costs, not only in the purchase of equipment and additional fuel costs, but also through human resources, as some applications require significant additional time.

The Council is currently collating data to measure the reduction of pesticide use across our estate. Research is ongoing as we search for the best measures to reduce pesticide use. We have identified the need to continue to control weeds in key priority areas, but we also recognise the importance of developing an Integrated Pesticide Control Management Plan (IPCMP).

The IPCMP, in combination with GIS mapping, will identify areas that need to be managed sensitively. It will also allow us to identify opportunity areas for a changed approach (such as in our Green Flag Parks, Grange Park and Broadmeadow, where no chemicals are used), select locations where a change in approach can be trialled, and identify problem areas where weed control is challenging. The IPCMP will also address the need to design out weed control through appropriate infrastructure design and manage the public's perception of 'well kept' areas, versus the need to leave areas wild for the benefit of pollinators and biodiversity. Indeed, changing the perception of what 'well kept' is, will be a key outcome from the Biodiversity Strategy and Action Plan.



Pesticide-free Zone section from the All Ireland Pollinator Plan 2021- 2025

Control of Invasive Alien Species

Where invasive alien species are identified for management, pesticides (likely glyphosate based) may still be required. A treatment plan will be developed for each case identified. The application of glyphosate pesticides on invasive species will be targeted and managed to avoid cross contamination on other vegetation and surfaces.

9.4 Theme 4: Invasive Alien Species

Invasive alien species (IAS) are defined as harmful non-native species, whose introduction or spread threatens the environment, economy or society, including human health. After habitat destruction, IAS are the second biggest threat to biodiversity. Once established, IAS are extremely difficult to control and costly to eradicate, and their ecological effects are often irreversible. A report on the economic impact of invasive species (published in 2013) showed the then-current estimate of the annual cost of invasive species to the Irish economy was approximately £161 million, and an estimate of the annual cost of invasive species to the Northern Ireland economy was £46.5 million (Kelly et al, 2013).⁵

The challenge of dealing with the spread and impact of IAS is well recognised as a key threat to biodiversity loss, which will only be exacerbated by climate change, unless intervention is successful.

Legal Position

The Council and any landowner is legally obliged to **prevent the spread** of key IAS on its land under The Wildlife Order (NI) 1985. Article 15 of this legislation confirms that it is an offence to cause to grow in the wild, any species of plant listed under Schedule 9 part II of the order. This includes Japanese knotweed, giant hogweed and Himalayan balsam. Article 15 also confirms that it is an offence to introduce or allow to escape into the wild, any of the above species.

Wildlife and Natural Environment (WANE) Act (NI) 2011 - amendments to the Wildlife Order 1985 - details the relevant methods of prosecution for breaches of the 1985 order. It also includes the Biodiversity Duty,

"It is the duty of every public body, in exercising any functions, to further the conservation of biodiversity so far as is consistent with the proper exercise of those functions."

The Council and any landowners are legally obliged to **put in place management measures** for 66 Widely Spread Species through The Invasive Alien Species (Enforcement and Permitting) Order (NI) 2019. This recent legislation (brought into force on the 1st December 2019) delivers stronger sanctions for introduction and control of IAS. A list of these Widely Spread 'Species of Union Concern,' can be found on the DAERA website⁶ with more information on each species and their distribution on www.invasivespeciesireland.com.

The Council has been surveying IAS on Council managed estate, recording and mapping IAS through GIS, managing and controlling key species such as Japanese knotweed and giant hogweed, and raising awareness of IAS through in-house training and public awareness campaigns. We have worked in partnership with Lough Erne Landscape Partnership (LELP) through funding from the National Lottery Heritage Fund, to produce and distribute over 5,000 IAS ID swatch cards and have delivered Lantra Award IAS training to multiple stakeholders.

Council will continue to follow and implement the legislative requirements as they evolve and increase our efforts to engage widely to help reduce the impact Invasive Alien Species are having on our native biodiversity. We will deliver more engaging awareness campaigns to spread information to as many people as possible.

⁵ Kelly, J., Tosh, D., Dale, K., & Jackson, A. (2013) *The economic cost of invasive and non-native species in Ireland and Northern Ireland*. A report prepared for the Northern Ireland Environment Agency and National Parks and Wildlife Service as part of Invasive Species Ireland. ⁶ Department of Agriculture, Environment and Rural Affairs (daera-ni.gov.uk) (2021) **EU Invasive alien species**. <https://www.daera-ni.gov.uk/articles/eu-invasive-alien-species>. Accessed 31/08/2021.

9.5 Theme 5: Education and Outreach



Delivering a pollinator workshop at a local primary school.

Connecting people to nature is key to the delivery of the Council's Biodiversity Strategy and Action Plan, along with wider biodiversity targets nationally and internationally. Learning about local wildlife and gaining skills in conservation empowers people to work together, and getting a wide range of people involved will foster a fundamental understanding of why action is required to benefit current and future generations.

*"Education is essential for the sustainable and equitable use of biodiversity and its conservation. It is also crucial for mainstreaming biodiversity...Lack of awareness of biodiversity and its importance is common, with biodiversity sometimes perceived as a resource to be exploited, for example through unsustainable logging or poaching of wild animals. Communication on biodiversity is a crucial issue that must be addressed to achieve the objectives of the SDGs and the CBD ."*⁷
(UNESCO, 2021)

Biodiversity Education at Schools

The Council already delivers biodiversity education to local schools through the Biodiversity Team, Cuilcagh Lakelands UNESCO Global Geopark staff and the Marble Arch Caves Team.

The service offered to schools by the Council Biodiversity Team is seasonal and the number of sessions delivered annually is dependent on staff availability. However, in a normal year, Council delivers workshops on pollinators, autumn and hibernation, and winter wildlife to over 60 schools and 1000+ pupils.

The Cuilcagh Lakelands UNESCO Global Geopark and Marble Arch Caves staff provide a range of formal education opportunities and initiatives for school children and young people throughout the year, focusing on a range of environmental issues, including biodiversity and geodiversity.

⁷ UNESCO (2021) UNESCO's Commitment to Biodiversity: Education and Awareness. <https://en.unesco.org/themes/biodiversity/education>. Accessed 12/10/2021

9.5 Theme 5: Education and Outreach



Eco-Schools

The Council Biodiversity Team help schools achieve their Green Flag award in the **Eco-Schools programme**, coordinated by Keep NI Beautiful, through bespoke advice, site visits, workshops

and signposting to materials and resources they require to use the topics Biodiversity and Outdoor Learning towards their award. We aim to continue to work closely with Keep NI Beautiful and their local Field Officer to strengthen our links and deliver an excellent environmental education service for the District's schools and communities in the District.

"No one will protect what they don't care about; and no one will care about what they have never experienced."

Sir David Attenborough

Forest Schools

The Biodiversity Team began coordinating the Forest Schools programme in partnership with Lough Erne Landscape Partnership and Cuilcagh Lakelands UNESCO Global Geopark in 2020 and have delivered this through the Northern Ireland Forest School Association (NIFSA) to over 20 schools so far, reaching over 400 pupils directly. The Council plan to continue outdoor based learning programmes for groups in the District, as we recognise the important role this has in connecting people with nature.



Biodiversity outreach – events, training and awareness raising

The Council; through the Biodiversity Team, Cuilcagh Lakelands UNESCO Global Geopark and Marble Arch Caves, already hosts and coordinates biodiversity themed events, training opportunities and activities for the public and community groups. From annual events like red squirrel awareness days, bat nights and the Big Garden Bird Watch, to seasonal interests like the Big Butterfly Count or forage walks, biodiversity education for the public is available in the District. We aim to continue and improve this essential service to increase awareness, understanding and appreciation of the environment. We want to encourage new participants in our sessions and assure the public that they don't need to be an expert to take part!

9.5 Theme 5: Education and Outreach



Citizen Science & Research

'Citizen science' is defined as '**scientific work undertaken by members of the general public**', often in collaboration with or under the direction of professional scientists and scientific institutions. The Council and Cuilcagh Lakelands UNESCO Global Geopark staff champion various citizen science initiatives throughout the year, enabling schools and communities to take part. We also signpost and alert the public of easy and interesting-to-do activities, often taking place in their garden or local area. We will continue to support and encourage people to become citizen scientists through facilitating training and volunteering, by raising awareness of these schemes through social media, and by taking part in these schemes by recording wildlife on Council estate. Cuilcagh Lakelands UNESCO Global Geopark staff also actively facilitate, engage and promote environmental research at all levels within the Global Geopark area.



Engagement

Council is keen to explore offering more opportunities for learning and engagement through conservation volunteer programmes, teacher training programmes, landowner guidance on nature friendly farming and pesticide reduction advice for the public. This could be implemented through in-house support, through funded projects or through partnership working.

9.5 Theme 5: Education and Outreach

Communication

Communication about biodiversity to the wider public through websites, social media, local newspapers, community newsletters, interpretation panels onsite and various online platforms is central to the key outcome, 'promoting biodiversity' of the Biodiversity Duty, and is integral throughout all our Biodiversity Action Themes. Information about biodiversity in the District and how people can engage/help locally is readily available on the Council, Global Geopark and partner websites,

throughout social media platforms and periodically through Council newsletters such as 'in-FO'. More efforts are needed to promote 'Nature Positive' messages to the wider public in collaboration with championing climate action through the Council's implementation of the FODC Climate Change and Sustainable Development Action Plan. Influencing change in behaviours to deliver an improved environment is essential to tackle both the climate and biodiversity crises.

Sloughan Glen *(known locally as Slavin Glen)*

Explore the hidden world of Sloughan Glen, following the winding paths underneath this oak woodland to discover the breath-taking waterfalls. Home to a wide range of birds, wildflowers, insects and mammals, this woodland is a biodiversity haven. It is part of the Sloughan and Willmount Glens Area of Special Scientific Interest (ASSI), which are protected areas that represent the best of Northern Ireland's wildlife and geological sites.

What can you spot today?

Oak *Quercus petraea*
In Sloughan Glen you will find sessile oak trees, deciduous broadleaved trees which can reach up to 40 metres tall. Squirrels, jays and badgers love their acorns and caterpillars flock to eat the leaves. In fact, 326 species of wildlife are found only on oak, making them one of the best native trees for biodiversity.

Cuckoo *Cuculus canorus*
A bird in decline, the cuckoo arrives from North Africa from April onwards, which is when the male 'cuck-oo' call can be first heard. The females lay their eggs in other birds' nests such as meadow pipits on bog or dunnocks in woodland. The host parents then look after and raise the cuckoo chicks as their own, leaving the cuckoo to lay eggs in other nests and then return home in July.

Ferns
Sloughan Glen's high humidity, along with the seepage of water over the rock faces, provides ideal conditions for a diverse range of ferns like hart's tongue to grow and include the nationally rare species, beech fern.

Woodland flowers
Visit in spring through to summer and see an explosion of colour. You could spot wildflowers like greater wood-rush and bluebell, or in some spots, wood anemone, lesser celandine and opposite-leaved golden-saxifrage.

Walk information
This short woodland walk leads up the glen to a spectacular waterfall. From here retrace your steps back to the car park. There are some steep steps along this walk. For more information on this and other walks within the Fermanagh and Omagh District Council area and to view this panel in different formats, please visit the Council website at www.fermanaghomagh.com

Red Squirrel *Sciurus vulgaris*
The red squirrel, a protected species, has a reddish-brown coat, large ear tufts and bushy tail and are smaller than the introduced non-native grey squirrel. Red squirrels make a nest from twigs, leaves and moss called a 'dreys' which looks like a football in the trees and usually located close to the tree trunk. They can be easily spotted in winter when the leaves have fallen.

Hazel *Corylus avellana*
Hazel rarely grows above 6 metres and is found in woodland understorey or in hedgerows. Hazel leaves are vital food for some moth caterpillars. Their catkins or lambs' tails in spring feed hungry bees with nectar and in autumn produce hazelnuts, loved by both animals and humans!

PHOTO CREDITS: Waterfall photo is copyright to Liam McClean and all remaining photos are copyright to Louise Campbell

Sloughan Glen walk was upgraded and reopened in 2020 and was part funded by DAERA's Environmental Challenge Fund and Fermanagh and Omagh District Council.

Please remember to practice the principles of 'Leave No Trace' when enjoying the outdoors. For more information, visit www.leaveonotraceireland.org

An example of interpretive signage at Sloughan Glen containing information about the biodiversity of the area.

9.6 Theme 6: Projects and Partnerships

Fermanagh and Omagh District Council has worked alongside partners within the Biodiversity Steering Group, local communities and neighbouring Councils in developing and delivering actions within the Local Biodiversity Action Plans (LBAPs), to promote, protect and improve biodiversity within the District. This partnership approach is essential to continue with our collaborative efforts for biodiversity action in the District.

Whilst our key themes or areas of work have been identified in the previous 5 themes, there are many other upcoming, ongoing and previous projects, programmes and actions which will or have already helped to protect, enhance, restore or promote biodiversity. To this end, our approach to projects and partnerships will cover these additional actions we aim to deliver, recognise the ongoing potential that comes from partnership working, and allow for aspirational action through exploration of new and innovative approaches. These partnerships are also being utilised to help deliver many of the environment commitments in our Fermanagh and Omagh Community Plan. We will seek to strengthen existing and develop new partnerships across public, private and third sectors.

Surveying and Mapping

The processes of surveying and mapping are key to protecting valuable biodiversity on Council managed estate. We aim to complete a comprehensive suite of habitat surveys across Council owned land; prioritising first, our most important spaces for wildlife, such as meadows and woodlands, and following with surveying of natural heritage features throughout. As with the process for implementing a capital works programme, we first need to know what wildlife or habitats are present in an area in order to protect it. The same applies to the development of Park Management Plans on the remainder of our estate.



An example of surveying on Council managed estate.

Council Capital Works Investment and Play Park Strategy Implementation

Council Capital Works Investment and Play Park Strategy Implementation With Council commitment to significant investment through our Capital Works Programme and Play Park Strategy, it is essential we follow all existing and new legislation on wildlife protection to conserve biodiversity as a priority on our estate and where possible, enhance and restore biodiversity with the resources available to meet the Biodiversity Duty.



9.6 Theme 6: Projects and Partnerships

Park Management Plans

Council is developing Park Management Plans for key parks across the District, which will support our commitment to obtaining and maintaining Green Flag status in several parks, including the Grange Park, Omagh and in Broadmeadow, Enniskillen. An essential element of Park Management Plans will be to identify existing habitats and species that require protection and management. Such Plans will also seek out opportunities to enhance, restore and promote biodiversity to meet the Biodiversity Duty.

Protecting Peatlands

As recognised in this Strategy, peatlands are an important priority habitat in Fermanagh and Omagh and represent a significant portion of valuable peatlands for Northern Ireland. Through this Strategy, Council's Climate Change and Sustainable Development Action Plan and through effective partnership working, the Council aims to protect and restore peatlands and degraded soils on Council estate where possible across the District. Existing projects which are making early strides to lead the way in peatland restoration are the joint initiatives with Collaboration Action Natura Network (CANN) ([http:// thecannproject.org](http://thecannproject.org)). It includes 6 sites in the Council area and works closely alongside the Global Geopark on peatland restoration at Cuilcagh Anierin Mountain.



© Ulster Wildlife

We aim to eliminate the use of peat products for growing shrubs and flowers, and replace with **peat free** alternatives by 2024, as guided by national policy. As part of our ongoing biodiversity awareness raising, we will continue to encourage people to use peat free compost or to make their own compost at home, which complements our drive to reduce food waste.

Local Nature Reserves (LNR's)

Local Nature Reserves are areas set aside for biodiversity, where people can enjoy wildlife. They offer impressive natural resources, making an important contribution to biodiversity. Local authorities have the sole power to declare Local Nature Reserves in Northern Ireland through the Nature Conservation and Amenity Lands Order (NI) 1985, amended in 1989. So far, there are 3 LNRs in the District: Killyfole LNR, An Creagan Bog LNR and Tully Castle LNR. Each LNR site requires management and promotion. Council can have a role to play in this through assistance in their declaration, guidance in their management if required, and in some cases, responsibility for their management. However, in all cases, promotion of LNRs to the wider public is essential.

Nature Recovery Networks

Nature Recovery Networks or ecological networks are simply a connected grid of areas identified as important for wildlife and where potential exists to either restore or create habitats. Such areas can then be 'linked up' at local, national and international levels. Since September 2020, with generous funding from the National Heritage Lottery Fund, Ulster Wildlife has been working in partnership with RSPB NI, National Trust and Woodland Trust on a project to build capacity to deliver NRNs in Northern Ireland. With assistance from key stakeholders, including the Council, the project will be producing the first set of national

9.6 Theme 6: Projects and Partnerships

NRN maps for Northern Ireland. This project advocates to central and local government, and other stakeholders for the adoption of this landscape-scale approach towards looking after our environment. These maps can strategically direct investment to where it will make the biggest impact for wildlife and humans alike (Ulster Wildlife, 2021).⁸

The Council aims to explore this partnership and the concept of NRNs, seeking out opportunities to incorporate this landscape-scale thinking into our own maintenance and restoration of Council managed estate.

Action for Flagship Species

In previous Local Biodiversity Action Plans, key species of importance or uniqueness to the Council area were highlighted and action plans created specifically for them. However, very often a key organisation or NGO will have a lead role in the conservation of such species and the direct responsibility for them lies outside of the Council's reach. We propose to reassess this model, and in partnership with

the Biodiversity Steering Group and post-completion of the 2022 Biodiversity Audit of the District, we will be able to annually select Flagship Species or Habitats for celebration through one-off awareness raising campaigns or plans of action. This shall highlight the importance, uniqueness, rareness or beauty of selected species and habitats.

Exploring partnerships with landowners

Council will explore how to support our farming community more effectively through advice, signposting and partnership working. This may also involve the promotion of existing and new DAERA schemes, partnership opportunities with other organisations, sharing best practice approaches or provision of free training programmes. Here, there are many topics that cross-over with this Strategy's other themes, such as native tree planting along river corridors or influencing pesticide reduction on third party land.

Council is exploring how we engage with third party graziers on Council estate to put conservation of priority habitat to the fore.



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⁸ Ulster Wildlife (2021) Nature Recovery Networks. <https://www.ulsterwildlife.org/nature-recovery-networks>. Accessed 12/20/2021.

9.7 Theme 7: Governance, Implementation and Resourcing

Council recognises the need to ensure a consistent and robust approach to governance, implementation and resourcing. This will enable us to deliver on legal duties and responsibilities, and the ambitions set out within this document, namely:

- Protection of biodiversity
- Maintenance of biodiversity
- Enhancing biodiversity
- Restoring biodiversity
- Promoting the understanding of biodiversity.

This is a cross-cutting theme that will be embedded within and aligned to other Council strategies, systems, structures and processes. SMART (Specific, Measurable, Achievable, Realistic, Time-bound) targets for the Biodiversity Strategy and Action Plan will align with outcomes and objectives identified in other documents, such as our Corporate Plan, the Fermanagh and Omagh Community Plan and the Climate Change and Sustainable Development Strategy. Development of these targets will enable Council to track, monitor and report performance through established structures. This scrutiny and challenge will ensure a focus on continuous improvement, alongside efficient and effective deployment of resources. Council recognises the regional and global context for biodiversity and will review and update the Strategy and Action Plans as appropriate in response to changes and challenges in that wider strategic and legislative environment.



10.0

Appendices



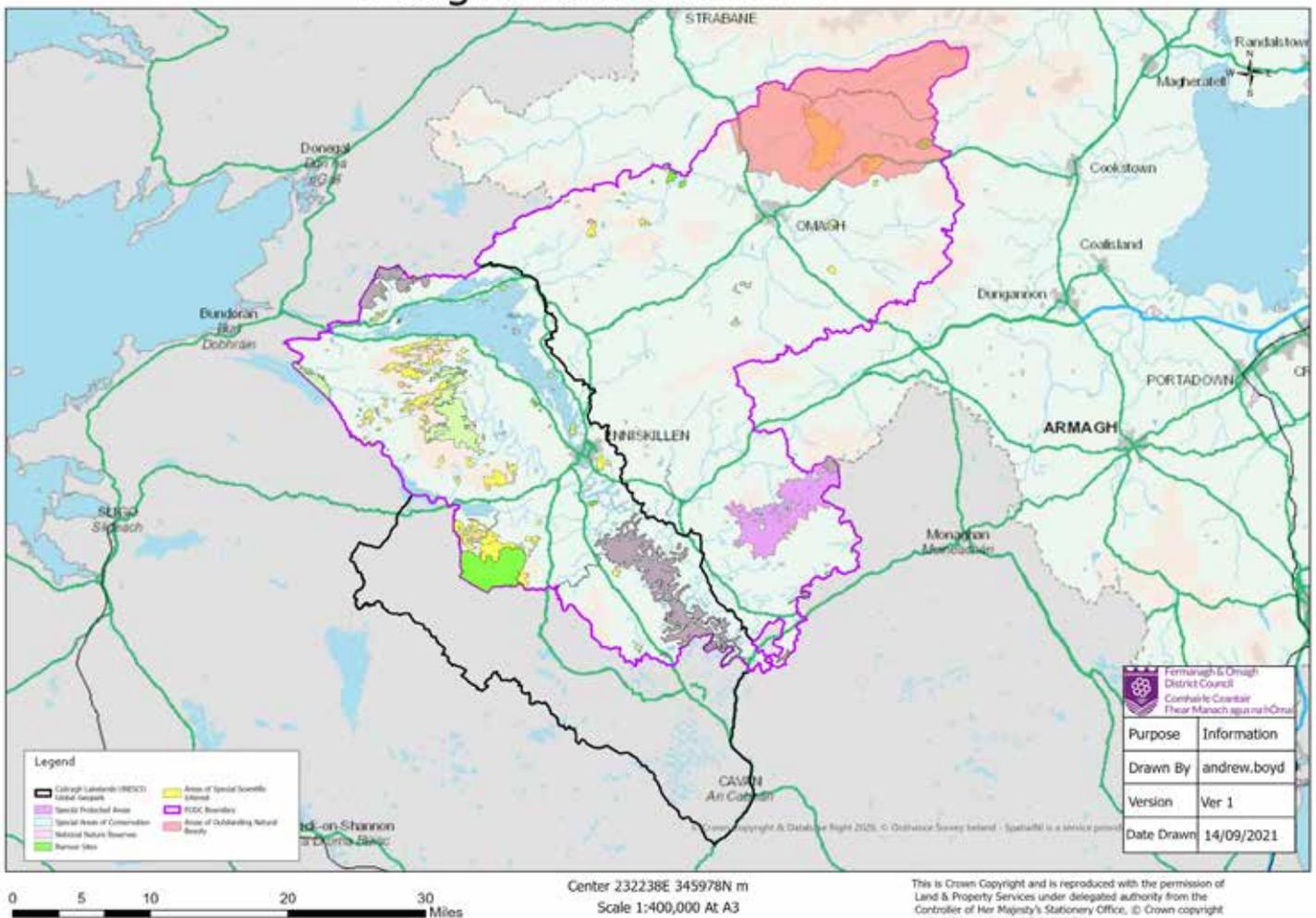
10.0 Appendices

Appendix 1 - Biodiversity in Fermanagh and Omagh

The Fermanagh and Omagh District is renowned for its beautiful scenery and wild and open landscapes of hills, lakes, rivers, woodlands and bogs. This diverse mosaic is home to a vast array of priority and protected habitats and species, showcased by high

numbers of protected areas: 1 Area of Outstanding Natural Beauty (Sperrins AONB), 1 Global UNESCO Geopark (Cuilcagh Lakelands), 12 National Nature Reserves (NNR), 3 Local Nature Reserves (LNR), 8 RAMSAR areas, 20 Special Areas of Conservation (SAC), 3 Special Protected Areas (SPA) and 133 Areas of Special Scientific Interest (ASSI).

Designated Areas FODC



10.0 Appendices

These numbers show just how important our District is in terms of biodiversity, and in turn, the ecosystem services we benefit from. The habitats and wildlife corridors between these protected sites are equally important in supporting healthy, functioning ecosystems, rich and abundant in a wide variety of wildlife.

Wetlands

Wetlands are a widespread and important feature within the Fermanagh and Omagh landscape. The Fermanagh Lakelands are known for their biodiverse, scenic and recreational value. The Lakelands are central to the character of the area and form much of the landscape. The diversity of the habitats and species found across the Council area, owe much to the presence of these lakes, as 11 NI priority habitats are associated with wetlands. The reedbeds, muddy banks, their associated flood plains and wet meadows, provide a host of invaluable transition zone opportunities for wildlife, including plants, insects and wildfowl. Wet woodlands frequently fringe the Lakeland shores, offering more habitat opportunities to other groups of wildlife, such as mammals. Wetlands are perhaps the most under threat, due to their sensitivities to drainage, water pollution and infilling.

Lakes and Ponds

There are many wonderful examples of loughs in our Council area, such as the magnificent Upper and Lower Lough Erne, unique Lough Melvin, the Seven Sister cluster at The Murrins, and the many smaller loughs dotted around Fermanagh and Omagh. There are also Local Nature Reserves (LNRs), such as Killyfole, Gortin Lakes and Loughmacrory. Lough Erne is particularly important for wildfowl, including species such as the tufted duck, great crested grebe and mute swan. In winter, populations of whooper swan and goldeneye arrive to avoid the harsher climates of northern latitudes. Breeding waders and a delightful sandwich tern colony also thrive on some islands within Lower

Lough Erne. Forty of Lough Erne's islands are managed by the RSPB for their benefit. The pollan, which is Northern Ireland's only native species of whitefish, is found in Lower Lough Erne. This is one of only a few locations this fish has been recorded on the island of Ireland. Lough Melvin is particularly noteworthy, as there are three races of brown trout present: namely, sonaghan, gillaroo and ferox. Arctic charr are also found in these waters, representing Northern Ireland's only location for this species.

Rivers and Streams

From mammals to birds and insects to plants, rivers and streams provide vital resources for all wildlife. The smallest stream will have huge importance for localised biodiversity and a cumulative importance for the catchment area, as each tributary feeds larger rivers downstream. Fermanagh and Omagh's rivers are important for many species, including the European protected otter, freshwater pearl mussel, Atlantic salmon, native brown trout and white-clawed crayfish. Notable rivers that occur in the area include the Cladagh River, Erne River, Sillees River, Colebrooke River, the River Strule, Owenreagh River and Owenkillew River. Scrub patches and strips of woodland often follow river corridors, as do belts of wildflower meadows, further enhancing the value of catchment and riverbank areas.

Calcareous Habitats

The Council area hosts a significant quantity of Northern Ireland's calcareous habitat. The underlying carboniferous limestone of the Fermanagh area gives rise to several interesting and notable habitat types, many of which are only found in this area. The rarity of these calcareous habitats, along with their significant contribution to biodiversity, means they are afforded protection through statutory designation. The Cuilcagh Lakelands UNESCO Global Geopark is an excellent network of wildlife sites across the Fermanagh area

10.0 Appendices

and beyond. This area showcases not only calcareous habitats like caves and limestone pavements, but bogs, forests, lakes and more.



Geodiversity

Geodiversity can be described as a variety of rocks and minerals, landforms, soils and geological process. Geodiversity makes the link between landscape, people and their culture, and is one of an area's most important natural resources. Geodiversity has not only shaped the natural and built environment but influences our biodiversity and historical and cultural heritage. It can have positive impacts for the economy and the environment, as well as on our health and wellbeing, meaning geodiversity provides essential benefits for society.

An understanding of our past geological processes is critical in gaining a better understanding of the world today, as well as helping to predict what may happen in the future. These processes continue to shape the world we live in and make a significant contribution to sustainable development. Northern Ireland's geodiversity contains nearly 1 billion years of geological history. It tells the story of a landmass that began deep in the southern hemisphere, before slowly moving northwards over time to its current position on the globe. A vast array of environments and climates, dramatic sea-level changes, erosion and deposition, changing continents and

oceans, mountain building, volcanic activity and icy wastelands, all make up the pages of this long and multifaceted story book that allowed the diversity of Northern Ireland's landscapes to become legendary. The geodiversity of our District tells a similar story and this is most well narrated, interpreted and celebrated at many sites in counties Fermanagh and Cavan within the Cuilcagh Lakelands UNESCO Global Geopark.

Bogs and Heath

Bogs and heath continue to be one of the most characteristic features of the Council area. There are three distinctive types of peatland ecosystems, namely: **lowland raised bog**, **blanket bog and fens**, and two **heathland** types in our area - upland heathland and montane heath. They were historically viewed as vast, desolate places that were used for afforestation (conifer plantations), sheep grazing and peat cutting. However, in recent years, the importance of bogs and heath for biodiversity,



their value as carbon sinks and their key benefit as flood alleviation systems has been widely recognised.

Bogs are also an intrinsic part of our cultural heritage and have harboured some of our most significant archaeological finds over the decades, from treasure hoards and bog bodies to ancient track ways and ritual monuments.

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Lowland Raised Bog

Lowland raised bogs occur in low-lying areas, usually in river valleys, old lake basins or between drumlins, and are largely fed by rainfall. The acidic, waterlogged, oxygen-deficient conditions found in bogs, mean only a specialised range of plants and animals can live there. Key plant species typically found are sphagnum mosses, sundews, cranberry, lichens and cotton grasses. Lowland raised bogs also support a distinctive range of animals, including breeding waders, skylark and a variety of invertebrates. From Black Bog Special Area of Conservation (SAC), Fairywater Bogs SAC, Tonnagh Beg Bog and Deroran Bog in the Omagh area, to Tattynamona and Moninea in Fermanagh, we have many protected sites across the Council District.

Blanket Bog

Blanket bogs are found on higher ground as a layer of peat and vegetation covering the hillsides like a blanket. Within Fermanagh and Omagh, wide expanses of blanket bog are found to the north at Bessy Bell and in the Sperrins, to the west around Lough Bradan, Pigeon Top, Pettigo Plateau, and in the south west at Cuilcagh Mountain. Again, blanket bog often occurs as a mosaic with other habitats, such as heathland, and on lower slopes with purple moorgrass, rush pasture and fens. Important plant and animal species found on blanket bogs include sphagnum mosses, sundew, hare's tail cotton grass, tall bog-sedge, green hairstreak butterfly, golden plover, skylark and Irish hare.



Upland Heathland

Upland heathland often forms in a mosaic with other habitats, including blanket bog and acid grasslands. This means that upland heath can be very rich in species diversity. Typical species include bell heather, ling heather, many macro moths, Irish hare, hen harrier, red grouse and skylark, among many others. In the Fermanagh and Omagh area, there are notable populations of hen harrier, red grouse and lower plants, such as mosses and liverworts. The rare argent moth, sable moth and sword grass moth have also been recorded here. The main areas of upland heath are restricted to the upper slopes of Mullaghcarn, Bessy Bell, Glenlark, Brougher Mountain, Slieve Beagh, Cuilcagh and Correl Glen NNR within Lough Navar.

Grassland and Roadside Verges

Grasslands are naturally diverse ecosystems, and many different types of grassland can be found in the District, including lowland meadows, calcareous grassland, coastal and floodplain grazing marsh, lowland dry acid grassland, purple moor-grass, rush pasture and roadside verges. Whilst most of our biodiverse grasslands have been lost to modern farming practices, development etc., a significant proportion of what remains occurs in west Fermanagh and south Tyrone (currently highlighted by an Ulster Wildlife project, 'Saving our Magnificent Meadows'). Outside of these meadows, roadside verges have inadvertently become a refuge for grassland habitats. Low nutrient levels, minimum disturbance and/or limestone substrates have contributed to their development as a habitat for wildflowers and invertebrates.

Lowland Meadow

Lowland meadows, or hay meadows, have all but disappeared in Northern Ireland with some remnant fields still found in Fermanagh and a few south of Omagh. These meadows are important habitats for many wildflowers, such

as meadow vetchling, yellow rattle, the rare blue-eyed grass and a wide diversity of other grasses, which in turn, support butterflies and bees. This seed source and long grass habitat was once home to the corncrake and other ground nesting birds. However, the decline in quantity and quality of lowland meadow habitat has contributed to their disappearance. Yet, lowland meadows continue to be important for breeding waders.

Purple Moor-grass and Rush Pasture

This is a complex wet grassland, composed of many types of grass, such as quaking grass, sedges (e.g., carnation sedge) and rushes, as well as flowering plants like wild angelica. Purple moor-grass is always present in the mix. Purple moor-grass and rush pasture often occur as a patchwork with other habitat types, such as fens, floodplains, grazing marsh and lowland raised bog, which increases their value for biodiversity. You will see rush pasture habitat throughout Fermanagh, typically in field corners, wet hollows and as parts of other habitats. The best quality pastures are protected, which includes Moneendogue ASSI. The marsh fritillary butterfly is reliant on good pastures where devil's bit scabious is present, as this is the only food plant of the butterfly. Our District is vitally important for this European protected species.

Roadside Verges

Roadside verges extend the value of hedgerows and adjacent farmland by acting as wildlife corridors between fields. When they are rich



with grasses, such as sweet vernal grass, and wildflowers such as bird's foot trefoil and ox-eye daisies, they add to the overall biodiversity value of the countryside. Roadside verges can provide seed heads for birds, nectar plants for butterflies and bees, and natural coverage for many insects, mammals and birds. Rural roadside verges in Fermanagh are of particular interest, as the rare blue-eyed grass and dingy skipper butterfly, both Priority Species in Northern Ireland, have been recorded here.

Woodlands and Hedges

Woodland is the climax vegetation for our area, meaning that if most habitats were left to progress with no interference from humans, some form of woodland would develop. However, as humans have settled over the years, many of our woodlands have been cleared for harvesting and to create farmland. Today, Northern Ireland is one of the least wooded areas in Europe, with only 1% of land under native tree cover.



Coniferous Forests

There are an estimated 37,500 hectares of woodlands in the Council area. Coniferous forests represent around 60% of that total woodland area and are normally found in upland areas. They consist largely of non-native species, such as Sitka spruce, Norway spruce, lodgepole pine and larch. Such forests play a significant role in the conservation of various priority species, such as the red squirrel and hen harrier. Key examples of coniferous woods include Lough Navar, Ely Lodge Forest, Castle Caldwell Forest, Gortin Glen Forest Park and An Creagan Forest.

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Oak Woodland

Oak woodlands are mainly dominated by oak trees, but they also contain a diverse mix of other native tree species, such as downy birch, hazel, holly and rowan. Their understorey and ground flora are normally quite diverse, with common plants including bluebells, wood anemone, bramble, ferns, lichens, mosses, liverworts, and not forgetting the important fungi.



Most of Fermanagh and Omagh's important oak woods, including Drumlea and Mullan Woods, Owenkillev and Glenelly Woods, Largalinny and Florencecourt, are all protected as ASSIs. However, many other pockets of important woodland exist throughout the District and are often associated with river corridors. Upper Lough Erne Crom ASSI is a 'Mecca' for wildlife and showcases a wide range of habitats, including oak woodland. It is the perfect place to visit in the hope of catching a glimpse of the wonderful purple hairstreak butterfly, a cheeky red squirrel or any one of the eight species of bat that occur in NI. Even the more common, but rarely sighted pine marten or otter may be spotted here.

Wet Woodland

Wet woodland is normally located around lake shores, streams, or on wet flushes where the soils are poorly drained or waterlogged. Typically, wet woodlands are dominated by willow, alder or downy birch, which are highly water-tolerant. The high humidity in wet woodlands also favours the growth of a variety of mosses and liverworts. Wet woodlands in the Fermanagh area are important for the rare alder buckthorn, which in turn, supports the regionally rare dark umber and brown scallop moths. Good examples of wet woodland are present in Castle Caldwell Forest, Castle Archdale Country Park and on the shores of Lower Lough Erne.

Parkland

Parklands are important types of woodland characterised by veteran or mature trees, both native and non-native, as well as deciduous and coniferous, which are surrounded by grassland pasture. They are normally associated with grand old houses or demesnes such as Ecclesville Demesne in Fintona, and the National Trust's Castle Coole, Crom Estate and Florence Court. Parklands support a wide variety of species, including rare lichen species, many beetles, bugs, insects, and numerous

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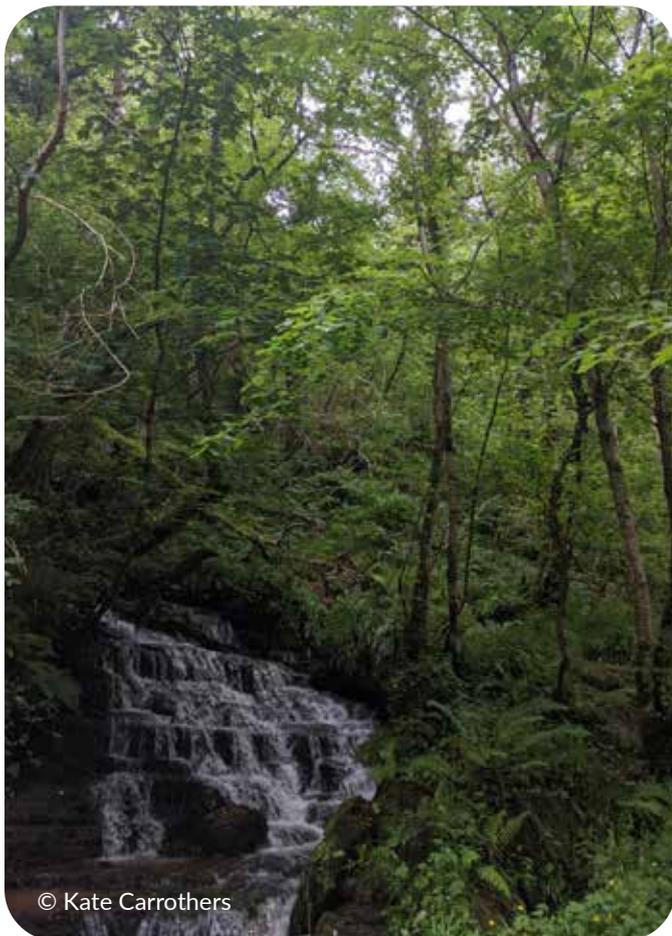
birds, such as song thrush and bullfinch. Other NI priority species that can be found in our parklands include red squirrel, many of the bat species and the spotted flycatcher.

Ash Woods

These habitats are distinguished by the dominance of ash trees in the woodland canopy, although other species such as oak and downy birch are also sometimes present. Mixed ash woods are renowned for the diverse range of plants present at ground level, including bluebell, primrose and wood anemone. As ash woods usually occur on base-rich soils, they are concentrated in the west of Fermanagh. Key woods include Hanging Rock and Rossaa NNR, Marble Arch Nature Reserve and Cladagh Glen.



© J Corry



© Kate Carrothers

Hedgerows

Hedgerows are defined as linear boundaries composed of planted shrubs, which are vital wildlife corridors within our fragmented landscape. A species-rich hedgerow should contain six or more woody species on average, within a 30-metre length. If the hedge has less than this but has a rich ground flora of grasses and wildflowers, such as primrose, common dog-violet, etc., then it can still be classified as 'species-rich'. Hedgerows resemble woodlands in their basic structure of trees with an understorey. They are very important for the movement of birds and mammals from one pocket of woodland to another, providing much needed refuge throughout the countryside. Hedgerows are vital habitats for wildlife, including plants such as primrose and herb-robert, birds such as the dunnock and yellowhammer, mammals such as bats, and many types of insects, such as butterflies and bumblebees.

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Urban

Urban habitats are vitally important for a wide range of wildlife and serve to introduce people to biodiversity. Most people first encounter wildlife in their back gardens, at the local park or even on local golf courses! From ladybirds to hedgehogs, blue tits to song thrushes and even bats; our urban habitats are a refuge and much-needed feeding ground for many native species.



Gardens

Gardens are where most people first experience wildlife. Whether it is a ladybird, a bumblebee or a robin; gardens are essential feeding points and homes for lots of wildlife. Both urban and rural gardens have equal importance in improving the biodiversity value of their surroundings. A row of town gardens with small trees, nectar-rich flowers and bird feeders will support many insects and garden birds in an otherwise sterile environment. Likewise, in the countryside, a larger garden with a wildlife pond, mature trees and many flowering plants will supplement adjacent farmland habitat, and provide extra food and shelter during the colder winter months.

Public Parks and Open Space

Public parks, government land and open spaces provide an opportunity for biodiversity to flourish in urban areas that would otherwise struggle to support wildlife. Typical species may also be found in gardens. In contrast, different management regimes often used in larger spaces have led to new and improved habitats to be created, including mini-woodlands, meadows and ponds. Urban habitats have a special importance for biodiversity, as it is where people and wildlife co-exist and where people are encouraged to relax and enjoy nature.



School Grounds

School grounds have the potential to be a biodiversity hotspot and valuable educational resource. Outdoor classrooms are perfect places for children to explore and learn from nature. Easy wildlife projects include planting hedges and native trees, creating a butterfly garden, making insect hotels, bird boxes and bug boxes, as well as surveying what wildlife already makes the school grounds their home.

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Appendix 2 - Our Biodiversity Story so far...

The Fermanagh and Omagh Local Biodiversity Action Plan (LBAP) 2016 - 2020 was launched in spring 2016. The Plan was developed in partnership with the Fermanagh and Omagh Biodiversity Steering Group.

Fermanagh and Omagh LBAP outlined a plan of action to:

- Help conserve and enhance local habitats and species.
- Raise awareness and knowledge of local biodiversity.
- Involve local people and develop partnerships in the delivery of the Fermanagh and Omagh Local Biodiversity Action Plan.

Whist many of the Council's actions for biodiversity have been delivered to help achieve and implement the previous LBAP,

many are also carried out to meet the needs of various wildlife legislation. This includes the Biodiversity Duty - a primary piece of legislation governing biodiversity action in Northern Ireland through the Wildlife and Natural Environment Act 2011 (WANE Act):

"It is the duty of every public body, in exercising any functions, to further the conservation of biodiversity so far as is consistent with the proper exercise of those functions."

Public bodies, when undertaking their functions, must take into account the following five areas:

- The protection of biodiversity
- The maintenance of biodiversity
- Enhancing biodiversity
- Restoring biodiversity
- Promoting the understanding of biodiversity both within and outside the organisation.

Wildlife in Your Garden

Everyone can help biodiversity a little by making a few changes to your garden, whether it's feeding the birds, planting a few trees, or sowing some wildflowers, you can do one thing for biodiversity.

Plants & Flowers

Go native! If you plant a tree or a hedge in your garden to support our native birds, insects and mammals, pick from berry rich rowan trees, near rich cherries or hawthorn did hawthorn to get natural food and important shelter into your garden. For more see see www.fermanagh.gov.uk/conservation

If you have little space, plant wildflowers in a border or in pots on a balcony to add a splash of colour to your garden. These native plants, such as poppies and buttercups, provide much needed nectar for bees and butterflies. There are many flowers and plants you can get from your local garden centre that will support bees and butterflies. Make sure to pick single-flowered plants to insects can reach the nectar more easily, grow night scented plants to attract bees and butterflies, and plant for both bees and butterflies to feed a long season of nectar-rich plants. See www.fermanagh.gov.uk/conservation for more information.

Ponds

Water is essential for all the... species of animal and plant need to be able to access it. Having a water feature in your garden will attract species that you would otherwise not get, or ensure the wildlife that does visit will stay around a bit longer! If you have space for a pond, great but be mindful of safety for young children. Or why not try to set up a bucket that it works into the ground? Every chance to provide freshwater in your garden is vital to species like frogs, toads and even dragonflies. For more advice and tips see www.fermanagh.gov.uk/conservation

Butterfly Conservation's Top Nectar Plants

- Lavender
- Aubergia
- Mibusham daisy
- Field scabious
- Omagh Impatiens
- Scabious
- Red valerian
- Brandywine

Watch the Birds

We all love to watch a robin hole for worms in a tree. It's a beautiful sight to see a bird of prey swooping over a field. But how many birds are there in your garden? You can find out by watching them for a week and make your garden bird friendly. Plant more trees and shrubs that provide shelter and nesting sites for birds. Don't forget that you can help by providing a home for birds. Look up www.fermanagh.gov.uk/conservation for more information.

Big Holes

Cracks & Gaps Home for Bugs In your garden and get the children enthusiastic about watching them at work. Dig natural materials, like hollowed out logs, twigs, stones, and other odds and ends, build a hole in a wall or under a flower bed, and leave it for the bugs to move in.

For many fantastic ways to help wildlife in your garden, you can find the birds to see every day. They bring back seeds, to old postcard scraps, hand drawn, painted apples and more. Why not make your own bird feeder? Download lots of ideas to help birds and other wildlife from www.fermanagh.gov.uk/conservation

Go Green

Using peat based compost is one of the most environmentally damaging activities that the garden can undertake. Our bags are a unique and important feature in this Fermanagh and Omagh LBAP 2016 for peat sales, go peat free! You can help delay the destruction of our precious bogs.

See the full Fermanagh and Omagh Local Biodiversity Action Plan online at:

fermanaghomagh.com/residential-services/biodiversity

Bumblebees

FACT FILE

- There are 20 species of bumblebees in the island of Ireland and only 2 species of honey bee
- Only get bees sting
- The bees favourite colour is purple
- Without bees, crops like tomatoes, aubergines, cucumbers, melons and courgettes, wouldn't grow
- Most species of bumblebees are different species in their gardens
- Red-tailed bumblebee, buff-tailed bumblebee, white-tailed bumblebee, garden bumblebee, early bumblebee and common carder bee
- Download your recording card for the end of the year to help you

Local Actions

- In partnership, manage lay road side verges to create better wildlife corridors
- Plant pollinator friendly plants in public parks and gardens
- Encourage the public to make their gardens more friendly
- Support the Pollinator Plan 2015-2020 and Junior Pollinator Plan 2015-2020 www.biodiversityireland.ie/projects/irish-pollinator-initiative/uk-ireland-pollinator-plan/summary/

MAKE YOUR GARDEN POLLINATOR FRIENDLY

Bats

FACT FILE

- There are 5 species of bats in Northern Ireland
- There are only two in our gardens
- Bats are not blind
- Bats use echolocation to navigate and find food
- Bats do not bite
- Bats are not a pest
- Bats can be seen in many habitats throughout the island, along rivers and dale, in woodlands, in your garden or along a hedgehog in the late evening

Local Actions

- Run bat walks and take away the dullest for value assessments
- Guide Council and other organisations on their legislative duties with regards bats and development
- Support public in aid of help if grounded or injured bats
- Survey public aware each year to identify road sites and key foraging areas

Swifts

FACT FILE

- Swifts have 100 feet
- They have been flying for over 100 million years
- They can fly for up to 100 hours a day
- They can fly for up to 100 hours a day
- They can fly for up to 100 hours a day

Local Actions

- Raise awareness and encourage the public to take part in swift recording each summer
- Monitor important nesting sites and identify new nest sites
- Encourage businesses and public organisations to erect swift boxes or swift bricks into new or existing buildings
- The use of swift sound systems to attract swifts to new sites
- Provide advice and signposting to projects that need swift mitigation during renovation works

Red Squirrels

FACT FILE

- Red Squirrels have found refuge in coniferous forests but can still be found in deciduous woodlands. Their food includes nuts, seeds, berries and fungi. They are an endangered species due to the threat that the grey squirrel poses to their survival.
- Red Squirrels are found in Gortin Glen Forest Park and Donaghadee area. Most single records of reds are being submitted closer to Omagh town, Enniskillen and other villages throughout.

Local Actions

- Support the work of local red squirrel groups including the Fermanagh Red Squirrel Group and West Tyrone Red Squirrel Group
- Calculate Red Squirrel Week each October
- Work in partnership with NGOs and public landowners to seek viable solutions to the grey squirrel threat
- Educate on best practice supplementary feeding reds

Do your bit for Biodiversity

There are a number of ways in which you can get involved and play a vital part in conserving and enhancing Fermanagh and Omagh's biodiversity.

Record Wildlife

Help build a better picture of local biodiversity and become a wildlife recorder! Record any sightings of important wildlife and report these directly to the Ulster Museum's recording centre, CEAD, www.fermanagh.gov.uk/conservation

Water Pollution Hotline

Report Wildlife Crime

Incidents such as destroying nests, dumping and water pollution should not be ignored as these have an impact on biodiversity. Contact the following please if you suspect a wildlife crime has been committed.

- Killing or disturbing protected species should be reported to your local PSNI office (ring 112 on a landline).
- Water Pollution Hotline for urgent incidents, tel: 0800 507000.
- Grounded or injured bats in your building please call CEAD Centre for Environmental Data and Recording. Email: cead@fermanagh.gov.uk telephone: 028 9037 5304.

Community Groups

The Fermanagh and Omagh LBAP Steering Group have provided invaluable advice throughout the development of the LBAP. There are extended to the many individuals who have been involved during the consultation phases.

Fermanagh & Omagh District Council
Cornish & Cusack
Peat Marsh (opposite Omagh)

Fermanagh and Omagh Local Biodiversity Action Plan

Support the work of local red squirrel groups including the Fermanagh Red Squirrel Group and West Tyrone Red Squirrel Group

- Calculate Red Squirrel Week each October
- Work in partnership with NGOs and public landowners to seek viable solutions to the grey squirrel threat
- Educate on best practice supplementary feeding reds

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Protecting Biodiversity

Deliver Biodiversity Duty and comply with legislation

- Delivered training on WANE Act and Duty to relevant staff.
- Carried out and commissioned ecological surveys including Biodiversity Checklists, nesting bird surveys, bat roost potential surveys, bat activity surveys, red squirrel surveys, otter surveys and more, to inform our wide range of capital works programmes and ongoing maintenance schedule.
- Carried out Habitats Regulation Assessments (HRAs) for projects and plans as required by Conservation (Natural Habitats etc.) Regulations (Northern Ireland) 1999.
- Projects including Grange Car Park lighting scheme, Sloughan Glen ASSI path works, Gortin Glen Forest Park, Ballinamallard Mill Race improvements, Necarne Castle stabilisation works and Ecclesville Pond management.

Implement The Council's Invasive Alien Species (IAS) policy IAS legislation

- Delivered training and provision of resources to horticulture and maintenance staff in the recognition and management of the most common IAS species.
- Created and updated IAS map database annually.
- Created and delivered treatment plans for key IAS on Council estate annually.
- Provided advice and signposted public when requested on IAS legislation and management.

Delivering the Lough Erne Landscape Partnership IAS project. The following has been delivered to date via LELP funding:

- IAS awareness and management training delivered to 268 people over 6 events (2020 events cancelled due to COVID).
- Over 5000 IAS ID booklets and leaflets created.
- Over 8 key IAS sites managed annually.

Action for Pollinators

The Council has adopted the 'Don't Mow Let It Grow!' initiative created by the Causeway Coast and Glens Borough Council. This initiative is following on from the successful 'Saving Our Magnificent Meadows' scheme and has achieved the following to date:

- A formal maintenance programme where native grasses and wildflowers are encouraged to grow through a change in cutting times across 35 sites. This has amounted to 40 Ha on Council land, which includes mapping of sites using GIS and placement of 'Don't Mow' signage.
- Liaison with DfI Roads on the signage and cutting regimes which impact key roadside verges across the District.
- Setting up of an internal working group on pesticide reduction across Council land.

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Racecourse Lough meadow cutting.



IAS ID Swatch Card.



Ely Lodge layby meadow sign



Killyfole meadow sign

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Maintaining, Enhancing and Restoring Biodiversity

Action for Pollinators

Land Management

Through 'Don't Mow Let It Grow':

- The purchase of a grass cutting machine suitable for long grass cut and lift.
- Liaison with DfI Roads on signage and cutting regimes at key roadside verges.
- Setting up of internal working group on pesticide reduction across Council land.

Outreach and influencing

- In 2020, over 5000 packets of wildflower seeds freely given to the public.
- 200 packets have been distributed to schools through workshops, gifts and prizes.
- As part of the seasonal workshops for schools, pollinator workshops are delivered to 400 children annually.
- Over 120 heritage apple trees planted through 'Trees for Bees.'

Woodland and Tree Planting and Management

The Council has been working in partnership to plant trees and woodlands for several years on Council land and where possible, with community groups and schools.

Since 2017, over **7000** trees have been planted, of which 120 are heritage apple trees for the 'Trees for Bees' initiative. Through DAERA, we plan to apply for and plant new native woodlands in 2021-2022. As land is identified and deemed suitable, more tree planting will be planned annually.

Applications for Funding to Support Biodiversity

Funded projects applied for and delivered across many themes since 2016 include:

- Invasive Alien Species project through LELP and Heritage Fund (£19.8k).
- Sloughan Glen ASSI path works through NIEA Challenge Fund (£28k).
- Waterways Ireland Heritage Fund (£1600).
- 'Beelicious' from Heritage Fund (£7k), delivering land management changes and training for key sites.
- Forthill Park Tree Trail, interpretation, and planting.
- Enniskillen Workhouse heritage education on bats and swifts.

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GROW A 'BEE BED'

Invite wildlife into your garden this summer!

HOW TO GROW YOUR 'BEE BED'

- Sow in spring or autumn
- Find a sunny spot outside
- Rake the soil or fill a large container
- Sprinkle seeds evenly (don't bury)
- Keep plants watered in dry weather

This packet has enough seeds, 2gm to cover a 1m squared space.

Do not use in or near natural areas

UPDATE US ON YOUR PROGRESS!

We want to see how you're getting on! So help us brighten up our Facebook and Twitter with snaps of your 'Bee Beds'.

Send your photos to biodiversity@fermanaghomagh.com and keep an eye out for them online.

DID YOU KNOW?

So far in 2020 FODC have planted over 100 heritage apple trees in our Trees for Bees campaign and are re-sowing several roundabouts with our annual wildflower mix.

WHAT ARE POLLINATORS?

Pollinators are animals that transport pollen from one flower to another. By doing this the flowers are able to produce seeds so that we have more flowers every year, again and again. Bees aren't our only pollinators; Butterflies, moths, hoverflies and even beetles help too!



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Promoting The Understanding of Biodiversity

Biodiversity Education in Schools

Biodiversity Team School Visits

40 school visits delivering biodiversity sessions to 1000 pupils, including Autumn-watch, Birdwatch and Trees for Bees. Trees for Bees art competition successful with 580 entries from 23 schools across the District.

Forest Schools

The Biodiversity Team coordinated the Forest Schools programme in partnership with LELP and Cuilcagh Lakelands Geopark throughout 2020. The programme has been delivered through the NI Forest School Association to 10 schools in Spring 2021, with another 10 schools being delivered in Autumn 2021, reaching over 400 pupils. Each school receives:

- 6-week NIFSA led course through the programme and 4 practical sessions with the children.
- Teacher gains accredited Forest School Leader award to keep the project sustainable.
- Free Forest School Kit Bag.
- Forest School Award Plaque and certificate.

Biodiversity Outreach and Community Support

Events

Normally, the Biodiversity Team coordinate or attend at least 6 Biodiversity themed events annually.

In 2019-2020

- Bat Ambulance training.
- Bumblebee survey sessions.
- Wildflower planting at the Grange and Racecourse Lough.
- Bug house building at Omagh Library.
- Forage walk at Devenish Partnership Nature Reserve.
- Pollinator stand at Omagh and Fermanagh Shows.
- Hats off to Forthill, July (IAS and pollinators theme).
- Foraging at Gortin Glens.
- Community Group walk at Castle Archdale Country Park.
- Litter Pick at Hillview Woodland.
- Red Squirrel Event at Gortin Glens.

Communities

- Assist annually with development of 'Ulster in Bloom' and implement of Green Flag awards.
- Continue to support community groups with biodiversity projects through onsite advice.

Biodiversity Communication

Interpretation Panels

Collated content and organised the production of interpretation panels at key sites:

- Omagh Riverside Walk
- Sloughan Glen
- Forthill Park
- Grange Park

Assisted in providing text and images for Council and Community panels:

- Enniskillen Wide Awake Way
- Carrickmore RDP
- Ederney RDP
- Gortin Glen Forest Park

Social media and press releases

Pre-COVID-19, seasonal citizen science and national days were celebrated through social media and press releases. As outreach work moved online, the content levels became higher. From 'Backyard Biodiversity' content to 'Bitesize' posts, as well as videos of local wildlife and 'Did You Know' quizzes; from 1st April 2020 to current, there have been over 80 biodiversity-related posts reaching over **430,000** people.

The Council's Info Magazine

Biodiversity Team contribute annually to the info magazine and to other Council newsletters.

Forthill Park Tree Trail

A new tree trail is available at Forthill Park, accompanied by a workbook freely available to schools and visitors.

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Omagh Connect2 Riverside Walk and Cycle Path

Enjoy the wonders of wildlife throughout the changing seasons of every year along the River Bann. Get active while enjoying the best of what nature has to offer right on your doorstep from the dawn chorus in budding spring to stretching summer sunsets to golden autumn leaves and cold crisp winter mornings.

ATLANTIC SALMON *Salmo salar*
The River Bann is an important salmonid producing river. Atlantic salmon is an anadromous species, for adults migrating from the sea to freshwater. After spawning in shallow, gravelly areas of their streams and rivers, they return to the sea. The river is a vital part of the local economy and is a source of pride for the community. After 1-2 years at sea, returning mature salmon then back to the river, they spend a further 1-2 years in the river before returning to the sea to spawn.

OTTER *Lutra lutra*
The otter lives along rivers, their tributaries, lakes and larger ponds. It is a semi-aquatic mammal and is considered one of the most important mammals in the UK. It is a carnivorous mammal and feeds on fish, insects and waterbugs, frogs and amphibians. It is an important species for the conservation of the river and its habitat.

GREY HERON *Ardea cinerea*
The grey heron is a large wading bird. It is a common sight along the river and its tributaries. It is a carnivorous bird and feeds on fish, insects and waterbugs. It is an important species for the conservation of the river and its habitat.

DIPPER *Check for check*
The dipper is a small bird that lives in the river. It is a common sight along the river and its tributaries. It is a carnivorous bird and feeds on insects and waterbugs. It is an important species for the conservation of the river and its habitat.

BATS
There are several species of bat in Northern Ireland, all of which have legal protection. A species of bat has been recorded in the river and its tributaries. It is a common sight along the river and its tributaries. It is a carnivorous mammal and feeds on insects and waterbugs. It is an important species for the conservation of the river and its habitat.

INVASIVE ALIEN SPECIES
Invasive alien species are those that have been introduced to a new area and are causing harm to the environment. They can be plants, animals or insects. They are often introduced by humans, either intentionally or accidentally. They can cause significant damage to the environment and the economy. It is important to be aware of these species and to report any sightings to the relevant authorities.

LOCAL ACTION FOR BIODIVERSITY
Fermanagh and Omagh District Council is addressing a Local Biodiversity Action Plan and need your help! If you see or hear locally important species such as bats, otters, kingfishers, and squab and have any other sightings, please log on to www.fermanagh.gov.uk and report these sightings to the local biodiversity team.

Forest Schools

St Mary's Primary School, Fermanagh

Forest schools provide a range of activities for children in a natural environment. These activities are designed to help children develop their physical, social, emotional, and intellectual skills. They also help children to develop a love of nature and the outdoors.



Fermanagh and Omagh Local Biodiversity Action Plan

How to make your Garden more Wildlife Friendly

The smallest of changes in your garden can make a huge difference to attracting wildlife.

- Go native if you plant a tree or hedge. This will support our native insects, birds and mammals.
- Window boxes and planters can host much needed flowering plants to support bees and butterflies.

Wildlife Gardening Competition

Make your garden more bird friendly. Plant berry producing plants, erect nest-boxes, make a birdbath or your own bird-feeder.

Using natural materials such as straw, hollow stemmed plants, old pallets and bamboo sticks, make a slug hotel. Woodlice, bees, ladybirds and slugs won't be long at moving in!

Help make space for nature

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Appendix 3 – Finding out more about Biodiversity

If you would like to find out more about biodiversity, please visit the websites listed below or contact the organisation. Websites should redirect you, but if they don't, please contact the new department for details.

- An Creagan Visitor Centre - www.an-creagan.com/biodiversity.aspx
- Biodiversity in Northern Ireland - www.biodiversityni.com
- Botanical Survey for British Isles - www.bsbi.org.uk
- British Trust for Ornithology - www.bto.org
- Butterfly Conservation - www.butterfly-conservation.org
- Centre for Environmental Data and Recording (CEDaR) - www.nmni.com/cedar
- Cuilcagh Lakelands Geopark - www.cuilcaghlakelands.org
- Ecoschools - <http://www.eco-schoolsni.org/>
- Fermanagh Red Squirrel Group - www.fermanaghredsquirrelgroup.com
- Keep NI Beautiful - www.keepnorthernirelandbeautiful.org
- Habitas - www.habitas.org.uk
- Lough's Agency - www.loughs-agency.org
- Lough Erne Landscape Partnership - www.lelp.org.uk & find on Facebook and Twitter.
- Lough Erne Wildfowling Council - www.lewc.org.uk
- Marble Arch Caves - www.marblearchcaves.co.uk
- National Biodiversity Data Centre - <http://www.biodiversityireland.ie/>
- National Trust - www.nationaltrust.org.uk
- Northern Ireland Bat Group - www.bats-ni.org.uk
- Northern Ireland Environment Link - www.nienvironmentlink.org
- Northern Ireland Fungus Group - www.nifg.org.uk/
- Royal Society for the Protection of Birds - www.rspb.org.uk
- Saving Our Magnificent Meadows - <http://www.magnificentmeadows.org.uk/>
- The Conservation Volunteers - www.tcv.org.uk
- Ulster Wildlife - www.ulsterwildlife.org
- Walk NI - www.walkni.com
- Waterways Ireland - <http://www.waterwaysireland.org/>
- Woodland Trust - www.woodlandtrust.org.uk

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Appendix 4 – Glossary and Bibliography

Glossary:

Biodiversity – The variety of plant and animal life in the world or within a habitat.

Calcareous – Containing calcium carbonate, lime or being ‘chalky.’

Carbon sequestration – A natural or artificial process by which carbon dioxide is removed from the atmosphere and stored in solid or liquid form, such as in peat bogs.

Climate change – A change in global or regional climate patterns attributed largely to the increased levels of atmospheric carbon dioxide produced by using fossil fuels.

Coniferous – A tree that bears cones and needle-like or scale-like leaves that are typically evergreen.

Conservation – The preservation, protection or restoration of the natural environment and of wildlife.

Deciduous – Broadleaved trees and shrubs which shed their leaves seasonally, usually in autumn.

Ecosystem – A biological community of interacting organisms and their physical environment.

Ecosystem services – The benefits provided by ecosystems that contribute to making human life both possible and worth living.

Endangered – A species at high risk of becoming extinct in the near future.

Finite – Being limited in size or extent, i.e. will run out if not managed sustainably.

Flagship species – In conservation biology, a flagship species is a species chosen to raise support for biodiversity conservation in a given place or social context.

Geodiversity – The natural range or diversity of geological features (rocks, minerals, fossils,

structures), geomorphological features (landforms and processes), soil and water that compose and shape the physical landscape.

Habitat – The natural home or environment of an animal, plant or other organism, containing the resources, physical and biotic factors that support the survival and reproduction of a particular species.

Invasive species – A non-native species of plant or animal that does or is likely to cause economic or environmental harm to human, animal or plant health.

Net zero – A state in which the greenhouse gases going into the atmosphere are balanced by the greenhouse gases removed from the atmosphere. By achieving net zero, we can stop climate change.

Photosynthesis – The process by which green plants and some other organisms use sunlight to synthesize nutrients from carbon dioxide and water. Photosynthesis in plants generally involves the green pigment chlorophyll and generates oxygen as a by-product.

Pollination – The transfer of pollen from an anther of a plant to the stigma of a plant, later enabling fertilisation and the production of seeds, most often by an animal or by wind.

Priority species – Any animal species that were identified as being the most threatened and requiring conservation action under the UK Biodiversity Action Plan (UK BAP).

Restoration – The action of returning something to its former owner, place or condition.

Rewilding – Conservation efforts aimed at restoring and protecting natural processes and wilderness areas. This may include providing connectivity between important habitats and protecting or reintroducing apex predators and keystone species.

Sustainability – Avoidance of the depletion of natural resources in order to maintain ecological balance and preserve resources for future generations.

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This document is available online at www.fermanaghomagh.com
and on request in other languages and formats.

For more information on biodiversity or to contact a member of the
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Phone: **0300 303 1777**

Website: www.fermanaghomagh.com/biodiversity



Fermanagh & Omagh
District Council
Comhairle Ceantair
Fhear Manach agus na hÓmaí