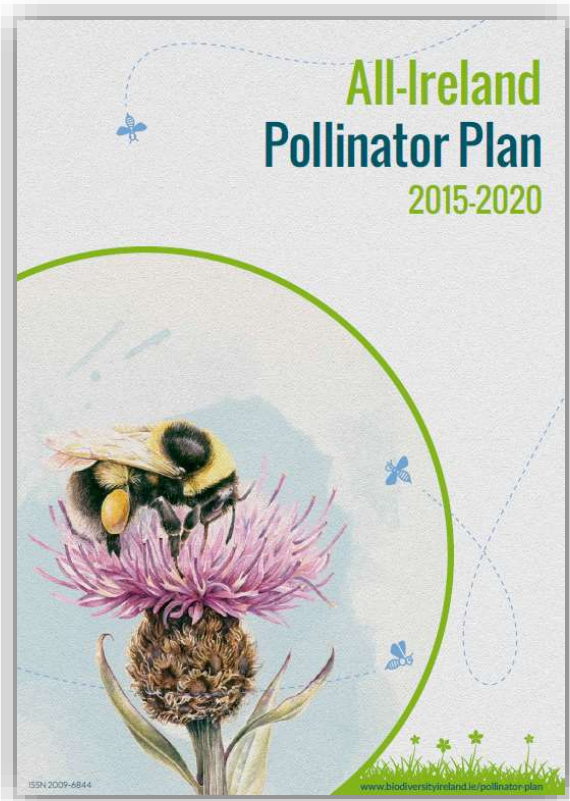


All-Ireland Pollinator Plan



Dr Úna FitzPatrick
Steering Group Chair; Project co-ordinator

Dr Erin Jo Tiedeken
Project officer

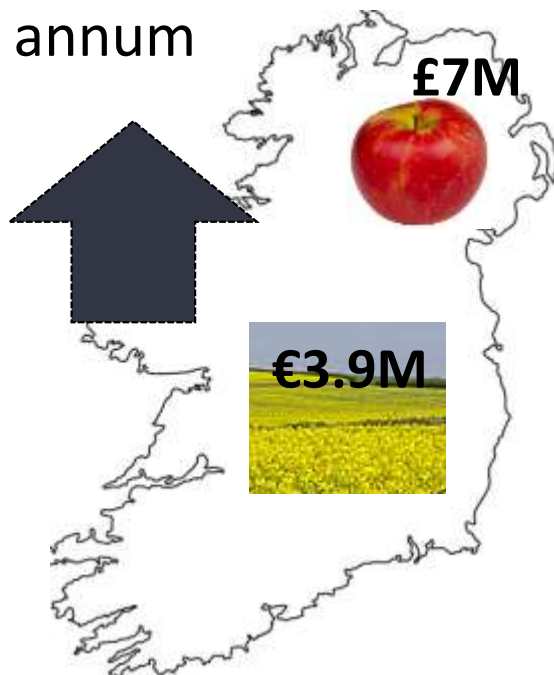


WHY IS POLLINATION IMPORTANT?

Economy & Wealth



€53million/
annum



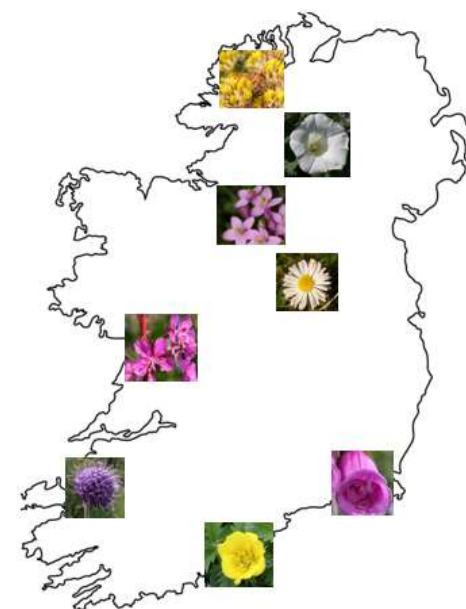
Health & Wellbeing



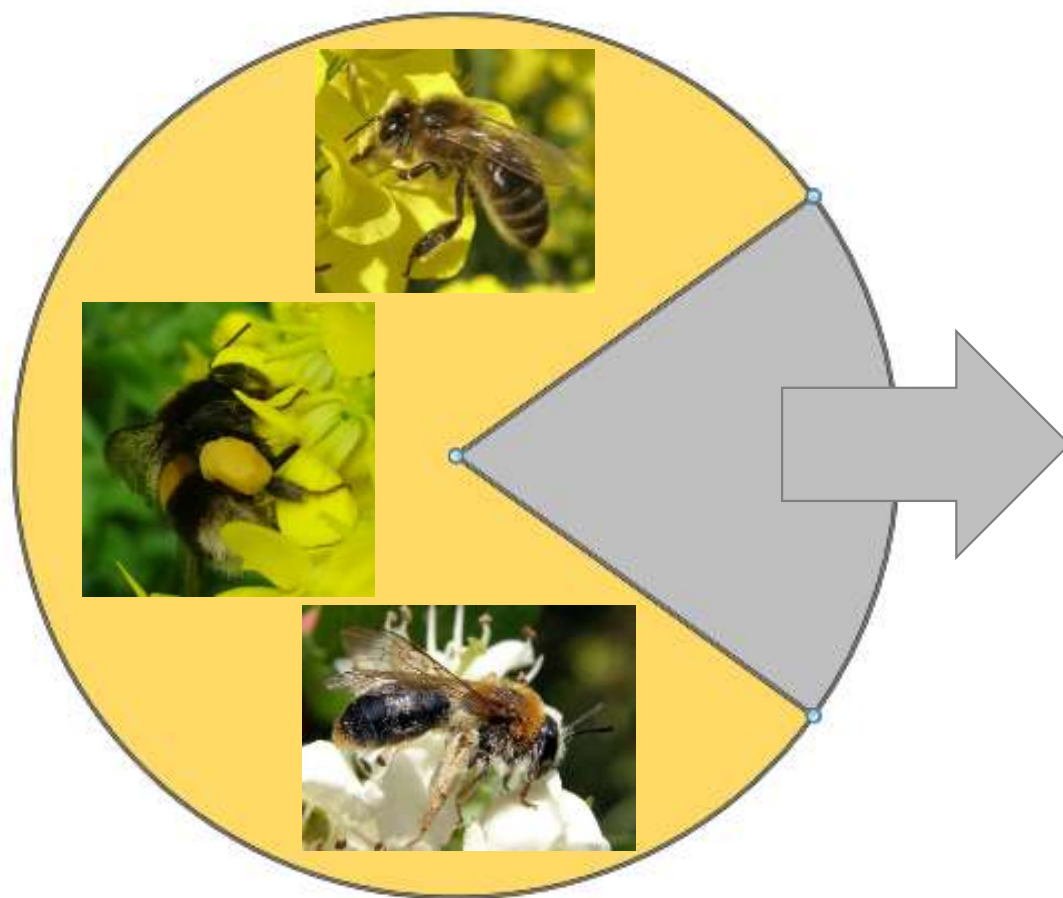
**Without bees they'll
all be off the menu**

manukahoneyusa.com

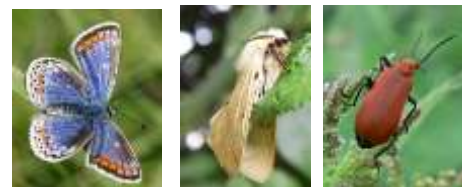
Wildlife & Landscape



WHO ARE THE POLLINATORS IN IRELAND?



Most pollination of crops and wild plants is carried out by bees



The rest is provided by various other flower visiting insects, particularly flies

BEES IN IRELAND

Ireland has **98** bee species:

Honeybee



Bumblebees



Solitary bees



WILD POLLINATORS

POLLINATION SERVICE CANNOT BE PROVIDED BY HONEYBEES ALONE

UK - if all honeybee hives were used for crop pollination, they could only provide about **one third** of the service required by crops. The rest is provided free of charge by wild pollinators.

The economic contribution of pollination by wild bees was recently assessed as £1,800 or €2,400 per hectare.

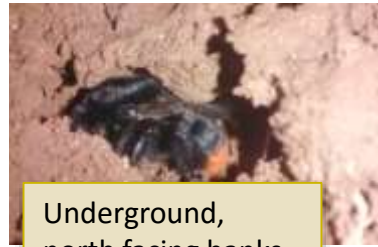
To maintain pollination you need healthy honeybees in combination with a diversity and abundance of wild pollinators



BUMBLEBEES – 20 DIFFERENT TYPES IN IRELAND



BUMBLEBEES - LIFECYCLE



Underground,
north facing banks

Food
source

Nest site

Feeds &
finds a nest

Queen emerges from
hibernation in early spring

Prepares a pollen loaf and a nectar
pot and starts laying eggs fertilised
with sperm stored from previous year



Long grass, hedgerows

Hibernation
site

Mated new queen feeds to build
up reserves before hibernation.
Workers, males and old queen die

Food
source

New queens and males
leave the nest to find mates

In mid-late summer the
queen lays unfertilised eggs
which will become males.
She also allows some new
queens to develop

Female workers emerge
and take over nest duties

Queen remains in
the nest laying eggs

Food
source



BUMBLEBEES NEED FOOD SOURCES THROUGHOUT THE YEAR

EARLY SPRING: queens are establishing nests

In the early days of the nest it is estimated that a *Bombus terrestris* queen may have to visit as many as 6000 flowers/day to get enough nectar to maintain the heat needed to brood her eggs



SPRING – SUMMER: nests are growing, workers are active



AUTUMN: queens are fattening up ready for hibernation

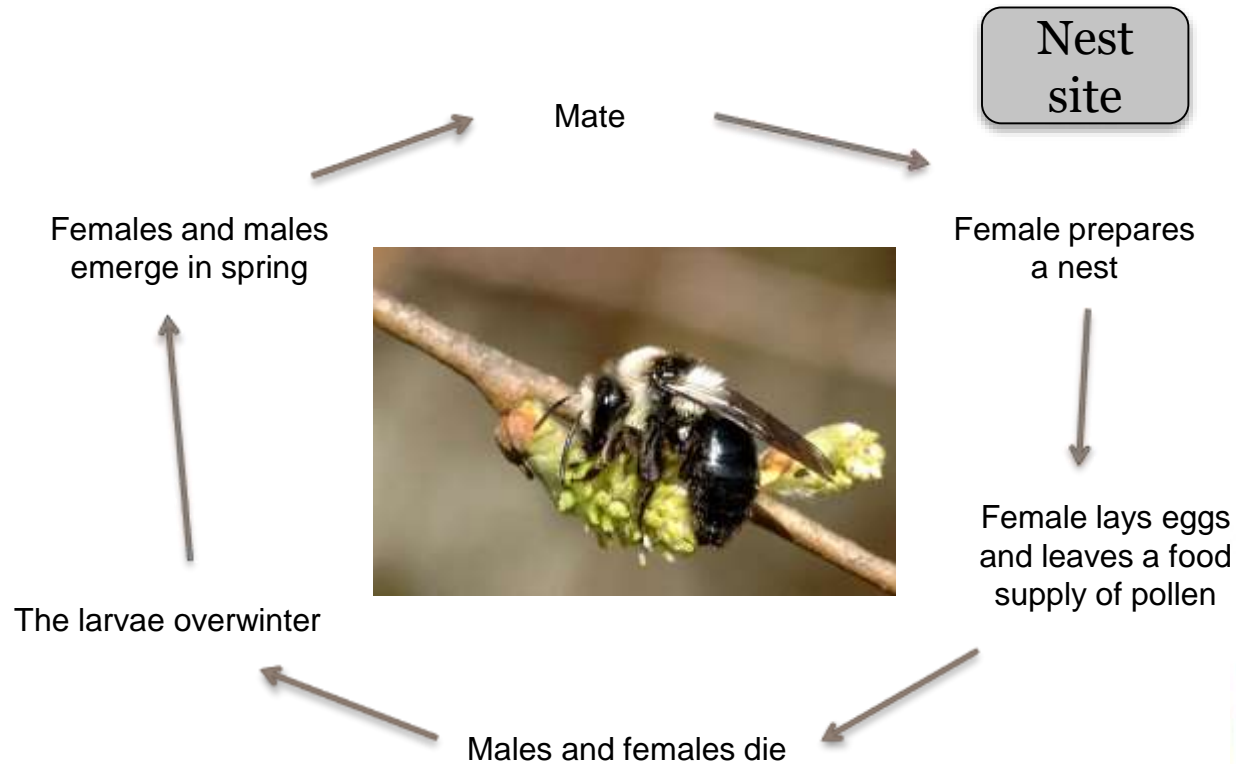
Bombus terrestris queens need to weigh at least 0.6 g to successfully hibernate and emerge next spring.



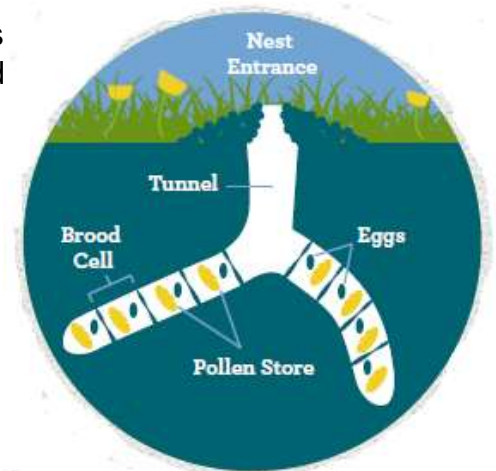
SOLITARY BEES – 77 DIFFERENT TYPES IN IRELAND



SOLITARY BEES - LIFECYCLE



Food
source



WHERE DO SOLITARY BEES NEST?

62 species (**80%**) are mining bees who nest in bare ground or south/east facing banks of bare earth (soil, sand, clay, peat)



15 species are cavity nesting bees who nest in south facing stone walls, masonry wooden structures or commercially available nest boxes



To ensure pollination of Irish crops and wild plants we need:

Healthy honeybee colonies in combination with high abundance and species richness in wild bee populations, as well as other wild pollinators

ARE POLLINATORS DECLINING IN IRELAND?



More than half of Ireland's bee species have undergone substantial declines in their numbers since 1980.

Two species have become extinct

One third of our 98 bee species are threatened with extinction from Ireland

6 species are critically endangered,
10 endangered
14 vulnerable



WHY ARE POLLINATORS DECLINING?

Bees are declining because we've drastically reduced the areas where they can nest and the amount of food our landscape provides for them.

We've also inadvertently introduced pests and diseases that negatively impact their health, and we subject them to levels of pesticides that make it difficult for them to complete their life cycles.

HABITAT LOSS: **HOMELESSNESS**

GENERAL DECLINE IN WILDFLOWERS: **HUNGER**

PESTS AND DISEASE: **SICKNESS**

PESTICIDES: **POISONING**

CLIMATE CHANGE: **CHANGING ENVIRONMENT**



WHAT CAN WE DO?

HABITAT LOSS: **HOMELESSNESS**

GENERAL DECLINE IN WILDFLOWERS: **HUNGER**

PESTS AND DISEASE: **SICKNESS**

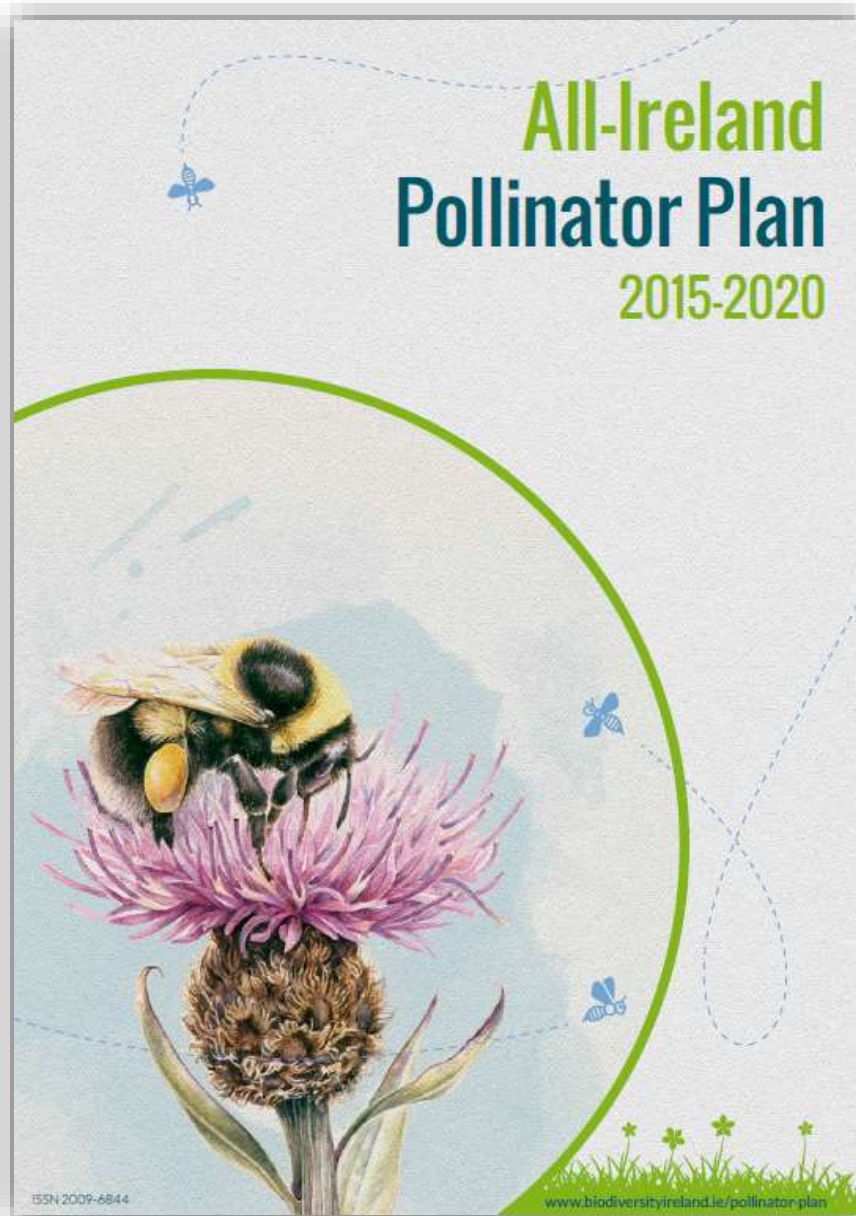
AGROCHEMICALS: **POISONING**

CLIMATE CHANGE: **CHANGING ENVIRONMENT**



John Fogarty

1. Accept that pollination is important
2. Recognise there is a problem
3. Start to build a framework for positive action



- Published on 17th September 2015
- Developed by a 15 member steering group
- Included a consultation phase which involved both public & stakeholder engagement
- **68** governmental and non-governmental organisations have agreed the shared Plan
- Identifies **81 actions** to make Ireland pollinator friendly

www.biodiversityireland.ie/pollinator-plan

The Plan is supported by 68 organisations



The number of supporting organisations is continuing to increase since publication of the Plan

All-Ireland Pollinator Plan 2015-2020

Creating an Ireland where pollinators can survive and thrive

**Raising awareness of
pollinators and how to
protect them**

11

**Managed pollinators –
supporting beekeepers
& growers**

7

MAKING IRELAND POLLINATOR FRIENDLY

*Provide food and shelter across all types of land
so that our pollinators can survive and thrive*

**Farmland
Public land
Private land**

42

**Expanding our knowledge
on pollinators and
pollination service**

11

**Collecting evidence to
track change and measure
success**

6

+ 4 general actions

Steering group oversees the implementation which is coordinated by the National Biodiversity Data Centre

Steering Group 2017

1. Úna FitzPatrick (chair) – Data Centre
2. Jane Stout (deputy chair) - TCD
3. Catherine Bertrand - Butterfly Conservation
4. Ken Bradley - DOE Environmental Policy
5. Gerry Clabby - Local Authorities
6. Susie Hill - Ulster Beekeepers Association
7. Catherine Keena - Teagasc
8. Damian McFerran - CEDaR
9. Mary Montaut - FIBKA
10. Archie Murchie – AFBI
11. Tomás Murray – Data Centre
12. Brian Nelson – NPWS
13. Vincent O'Malley - TII
14. Melina Quinn - NIEA
15. Veronica Santorum – Limerick's Buzzing
16. Jerome Walsh - DAFM



If you want to help implement the All-Ireland Pollinator Plan it is important to think about how your site can provide **food, shelter & safety** for pollinators

Your site could be any piece of land you have responsibility for e.g., local area, a school, campus, farm, park, allotment, business property, roadside verge, OPW historic property, National Trust property, golf course, garden ...

How your site can provide **food, shelter & safety** for pollinators



Bumblebees (20 species)



Long grass, base of hedgerow

Mining solitary bees (62 species)



Bare ground, south/east facing banks

Cavity nesting solitary bees (15 species)



Hollow stems, holes in wood, bee nest boxes



Eliminate or reduce the use of pesticides



Spring

Autumn



Willow



Dandelion



Clover



Knapweed



Bramble



Ivy

Hawthorn (5-6)
 Ivy (9-11)
 Bird's foot trefoil (6-9)
 Knapweed (6-9)
 Scabious (7-8)
 Senecio (6-9)
 Thistle (7-9)
 Vetch (5-9)
 Achillea (7-9)
 Bluebell (4-6)
 Brassica (4-8)
 Butterbur (3-5)
 Charlock (4-7)
 Coltsfoot (3-4)
 Daucus carota (6-8)
 Dead-nettle (2-11)
 Fleabane (7-8)
 Forget-me-not (4-9)
 Foxglove (6-9)
 Geranium sp (5-9)
 Goldenrod (7-10)
 Hawksbeard (6-9)
 Heathers (8-9)
 Hogweed (6-9)
 Melilotus (6-9)
 Mignonette (5-9)
 Mustard (5-9)
 Radish (6-7)
 Rape (4-6)
 Red bartsia (6-9)
 Rosebay willowherb (7-9)
 Stachys (7-9)
 Turnip (5-8)
 Veronica (3-9)
 Vetchling (5-8)
 Wild marjoram (7-9)



- Food from spring through to autumn
- A range of plants – balanced diet

Horse chestnut (4-6)
 Lime (6-7)
 Sycamore (4-6)
 Apple (4-5)
 Plum (4-5)
 Currant (4-5)
 Cherry (4-5)
 Raspberry (6-8)
 Firethorn (5-6)
 Berberis (4-5)
 Borage (4-10)
 Rosemary (4-6)
 Thyme (5-8)
 Lavender (6-8)
 Sage (6-8)
 Basil (7-9)
 Oregano (6-8)
 Aster (7-10)
 Allium (6-8)
 Comfrey (3-6)
 Crocus (2-3)
 Bellflower (6-9)
 Calamint (5-9)
 Catmint (5-9)
 Coneflower (7-10)
 Delphinium (6-7)
 Gaillardia (6-9)
 Globe thistle (7-8)
 Heathers (8-9)
 Phacelia (4-12)
 Poppy (5-10)
 Pulmonaria (3-5)
 Rock rose (5-7)
 Salvia (6-9)
 Stonecrop (7-9)
 Sunflower (8-10)
 Verbena (7-10)
 Viper's bugloss (6-7)

Native plants



Hedgerows, grassy verges/banks

Meadows or areas of long grass

Edges of tracks that are not sprayed

Wilder corners that are not sprayed

Hawthorn (5-6)
Ivy (9-11)
Daucus carota (6-8)
Goldenrod (7-10)
Hogweed (6-9)
Melilotus (6-9)
Mignonette (5-9)
Rosebay willowherb (7-9)
Stachys (7-9)

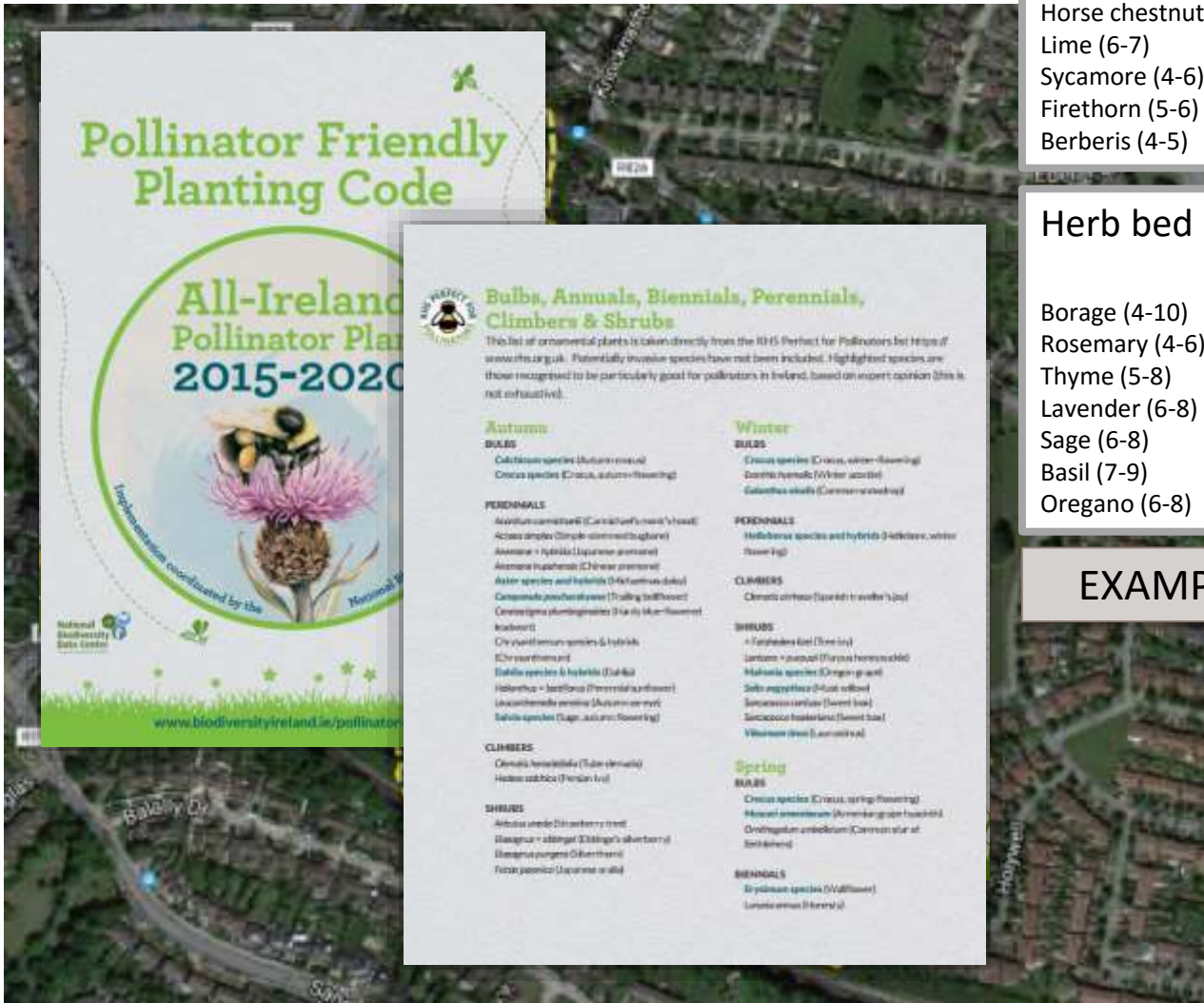
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Rape (4-6)
Turnip (5-8)
Fleabane (7-8)
Charlock (4-7)
Red bartsia (6-9)

Good for all bees, or particularly important for honeybees, bumblebees or solitary bees

Deliberate planting



Trees/shrubs

- Horse chestnut (4-6)
- Lime (6-7)
- Sycamore (4-6)
- Firethorn (5-6)
- Berberis (4-5)

Trees/shrubs

- Horse chestnut (4-6)
- Lime (6-7)
- Sycamore (4-6)
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- Berberis (4-5)

Fruit trees/bushes

- Apple (4-5)
- Plum (4-5)
- Currant (4-5)
- Cherry (4-5)
- Raspberry (6-8)

Fruit trees/bushes

- Apple (4-5)
- Plum (4-5)
- Currant (4-5)
- Cherry (4-5)
- Raspberry (6-8)

Herb bed

Borage (4-10)
Rosemary (4-6)
Thyme (5-8)
Lavender (6-8)
Sage (6-8)
Basil (7-9)
Oregano (6-8)

Herb bed

Borage (4-10)
Rosemary (4-6)
Thyme (5-8)
Lavender (6-8)
Sage (6-8)
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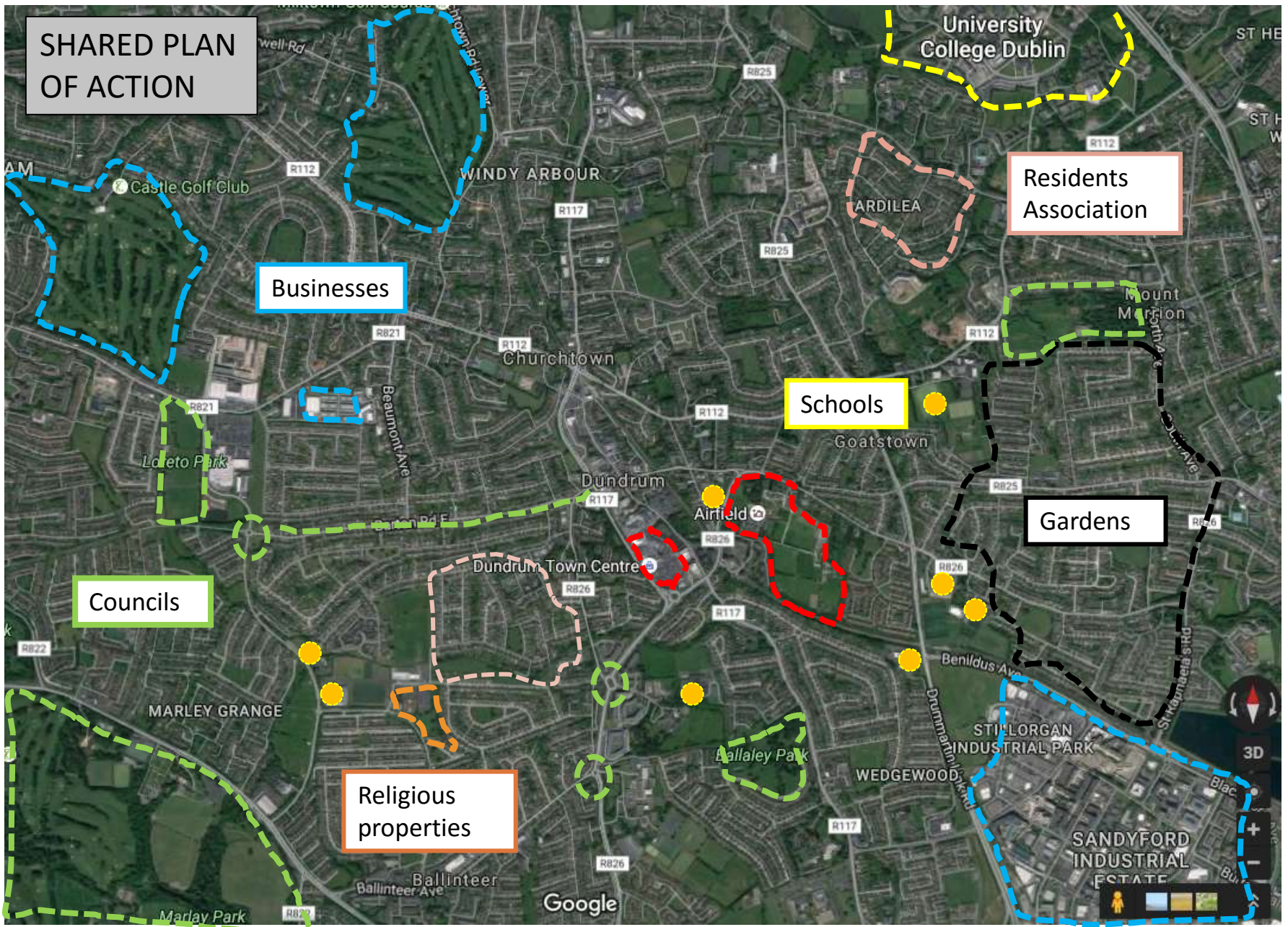
Planted beds – perennial is best

- Aster (7-10)
- Allium (6-8)
- Comfrey (3-6)
- Crocus (2-3)
- Bellflower (6-9)
- Calamint (5-9)
- Catmint (5-9)
- Coneflower (7-10)
- Delphinium (6-7)
- Gaillardia (6-9)
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- Sunflower (8-10)
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- Viper's bugloss (6-7)

EXAMPLES



Example – we are developing a publicly available mapping system that will track and recognise the actions being taken

The Pollinator Plan is producing a series of guidelines with actions on how you can help provide **food, shelter and safety** for pollinators:



In preparation:

- ✓ **Farmers (2017)**
- ✓ **Transport Authorities (2017)**

- ✓ **Actions are all evidenced based**
- ✓ **Relevant sectors feed into the development**
- ✓ **Communication is tailored to each sector**



Action 3:
Create a short flowering '6-week meadow'
 Identify areas of grass that could be cut on a 6-weekly rotation to allow Clovers and Bird's-foot-trefoil to flower. This will provide food for pollinators where shortly mown grass does not. Such areas could be beside areas of shortly mown grass, a path or a meadow.



Action 4:
Let the Dandelions bloom!
 Identify areas that will be mown under existing regimes, but aim to carry out the first grass cut of the year in April after the first flush of Dandelions, but before they set seed. Dandelions are a vital food source for bees in spring.



Pollinator friendly planting

Traditionally, a lot of deliberate planting in public spaces has been with annuals such as Begonia, Primula or Busy Lizzie. Unfortunately these are not good sources of pollen or nectar (as they have been bred to be very 'showy') and do not provide food for bees and other insects. There are many other plants that can look similarly attractive but will also support our pollinators.

Areas where these actions might apply in a local community are: community gardens, roundabouts, road verges, parks or squares, housing estates, areas surrounding sports pitches, schools, car parks, shopping centres etc.

Action 5:
Clover lawn
 Identify small areas where grass could be entirely replaced with a permanent clover mix. Red and white clovers will provide colour, and are a very important food source for bees.

Action 6:
Flowering trees and shrubs
 Incorporate a mix of pollinator friendly trees and shrubs into the local community that will flower throughout the season (list in appendix). An orchard can be a wonderful addition for pollinators and the community.



Action 7:
Perennial flowers for pollinators
 Incorporate pollinator friendly perennial plants into the local community to provide food for pollinators from spring through to autumn (list in appendix).



Action 8:
Annual flowers for pollinators
 Work with local authorities to ensure a component of annual planting in parks is with pollinator friendly annual plants - single rather than double flowered varieties (list in appendix).



Action 9:
Pollinator friendly urban planters
 Identify some urban planters or hanging baskets where the standard annual bedding mix could be replaced by perennial pollinator friendly plants (list in appendix).

Action 10:
Pollinator friendly roundabouts
 Work with local authorities to identify some roundabouts that could be planted in a pollinator friendly way e.g., bulbs (Crocus, Alliums) or pollinator friendly perennial plants in centre.



Action 11:
Plant a native wildflower meadow
 Identify areas where it may be possible to create a native wildflower meadow using commercially purchased seed. This would be more flower-rich than the meadow in Action 2 but it is also more costly and requires careful planning and management. Please be aware that **most sites will be unsuited to the immediate wildflower meadow** due to high mowing (and therefore...)

Info Box:

All the flowers in our gardens belong to the Island Waterways Association (IWA). An annual list of native plants and animals is available from the IWA. An annual list of native plants and animals is available from the IWA. An annual list of native plants and animals is available from the IWA.



- ✓ Pollinator friendly actions, each very clearly explained
- ✓ Lots of **options**
- ✓ All actions are pragmatic & low cost

www.biodiversityireland.ie/pollinator-plan



A separate **How-to-guide series** provides additional information on more complex actions – developed in partnership with relevant organisations



In preparation:

- ✓ Creating and managing a wildflower meadow (late spring 2017). In collaboration with Ecoseeds

TRACKING CHANGE & MEASURING SUCCESS

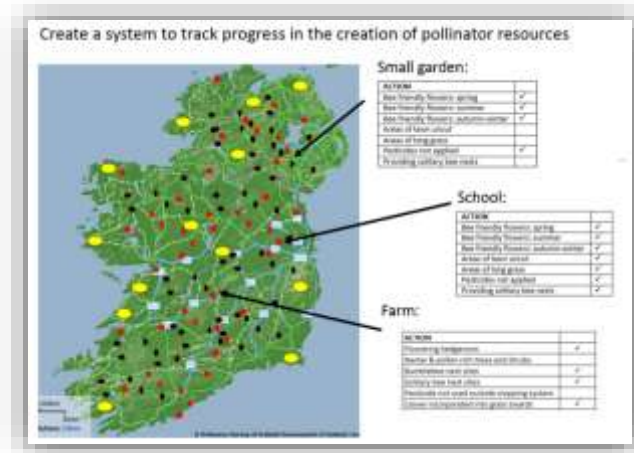
The publication of the All-Ireland Pollinator Plan isn't a box-ticking exercise
– measuring success is a crucial part of the Plan

1. Track implementation of the 81 actions in the Plan



Those who have responsibility for actions have to report their progress once a year. These annual reviews will be publicly available.

2. Track creation of pollinator habitat/resources



Publicly available online mapping system

3. Track changes in pollinators within the landscape





www.biodiversityireland.ie/pollinator-plan

All-Ireland Pollinator Plan

Junior All-Ireland Pollinator Plan (English)

Junior All-Ireland Pollinator Plan (Irish)

+ Guideline documents

+ How-to-guides

+ Signage templates

+ Presentations for use

+ Tracking progress

All-Ireland Pollinator Plan – Year 1 review (2016)

Year 1 review (2016) – summary infographic

+ Other



YEAR 1 REVIEW (2016)

An Chomhairle Oidhreachta
The Heritage Council



Funding project officer position based
in National Biodiversity Data Centre:

Dr Erin Jo Tiedeken (April 2016-)



An initiative by

Bord Bia
Irish Food Board



Department of
**Agriculture,
Food and the Marine**

An Roinn
**Talmhaíochta,
Bia agus Mara**

Funding for design of resources
(2016-2017)



*An Roinn
Ealaíon, Oidhreachta agus Gaeltachta*
**Department of
Arts, Heritage and the Gaeltacht**

Funded print run of resources at
end 2016

YEAR 1 REVIEW (2016)

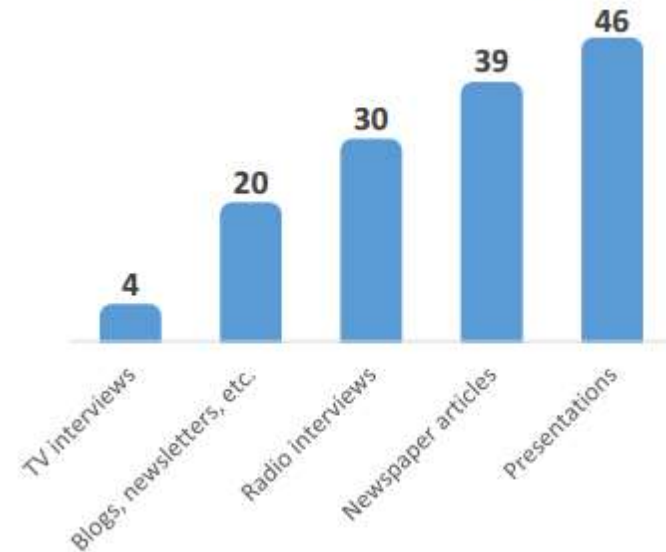
Major Pollinator Plan resources released



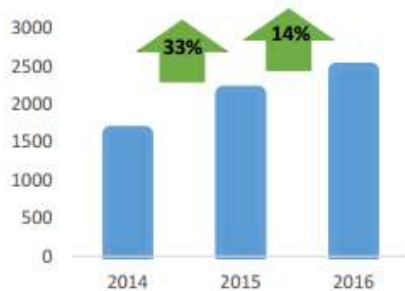
- ✓ Junior Pollinator Plan, English and Irish Language version
- ✓ FOUR sets of Pollinator-friendly Sectoral Guidelines
- ✓ THREE How-to-Guides
- ✓ Pollinator-friendly signage templates and educational posters



Year 1 Pollinator Plan media engagement



Casual bee records submitted



Bumblebee monitoring scheme walks performed

| | |
|------|-----|
| 2014 | 92 |
| 2015 | 92 |
| 2016 | 101 |



How much progress has been made on the 81 actions in the Plan?

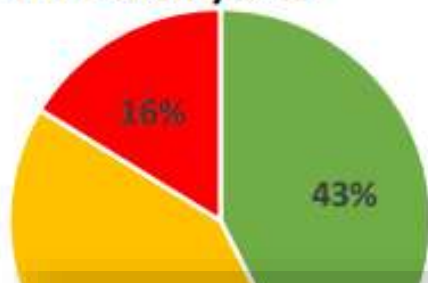
Status and progress of the Pollinator Plan's original 81 actions at the end of year 1

■ Action complete

■ Action in train

■ Action not yet progressed

*Some actions not yet progressed are



| ACTION | PROGRESS MEASURE | RESPONSIBILITY | | |
|--|--|---|--|--|
| A13. Encourage pollinator friendly management of State and public-owned Nature Reserves and National Parks and, where this is appropriate, Natura 2000 and nationally designated sites (NHAs, ASSIs) | ❖ Uptake where appropriate on a site basis | NPWS, NIEA, Local Authorities | <p>NPWS: This action has not yet been progressed</p> <p>NIEA: This action has not yet been progressed</p> | |
| A14. Encourage pollinator friendly management of public parks and green spaces | ❖ Integration of the Pollinator Plan into future county/city development or biodiversity plans (where appropriate and when reviewed) | Steering Group to consult Local Authorities/Councils (in conjunction with Heritage & Biodiversity Officers) | Guidelines for actions Local Authorities/Councils can take to protect pollinators will be published in late 2016, and this action actively progressed in 2017. | |
| | ❖ Incorporate pollinator prescriptions into the An Taisce Green Parks Initiative | An Taisce | Pollinators will be considered within the Green Parks Initiative. A special pollinator award for parks has also been established and will be part of the Initiative from 2017. The award (in the form of pollinator friendly plants) is being sponsored by Young Nurseries | |

[Home](#)[Sign up](#)[Sign in](#)

Actions for Pollinators

Total polygon area: 0.09 km²

--- Polygon type ---

--- Attribute name ---

Show All



DEVELOPING PARTNERSHIPS ACROSS SECTORS TO DELIVER ACTIONS



Tidy Towns Local Authority Pollinator Award



- ✓ Total number of applications received in first year: **59**
- ✓ At least one application was received from every ROI county
- ✓ Year 1 national winners: **Monaghan and Birr Tidy Towns**

?



An initiative by
Bord Bia
Irish Food Board

**BUSINESS
IN THE
COMMUNITY**





THANKS:

Heritage and Biodiversity
Officers

Erin Jo Tiedeken

Melina Quinn (NIEA)

Niamh Lennon
(Wexford County Council)

Orla Maguire
(Belfast City Council)

Actions to provide **food, shelter and safety** for pollinators on Council land

Actions Councils can take to help pollinators - providing food, shelter and safety

Please select some actions you could take and help us work together to protect pollinators

We know that each Council is different, so we have suggested a range of pollinator friendly actions to choose from. Step-by-step instructions on each action are provided.

A Protect what you have

The easiest and most important thing you can do is identify and protect existing areas that are already good for pollinators

Action 1 Manage and restore semi-natural habitats and their native plants

Action 2 Identify and protect existing sources of food and shelter for pollinators on general council land

B Alter the frequency of mowing

Changing the frequency of mowing allows wildflowers (food) to flower among the longer grass. This is the most cost-effective way to provide food for pollinators

Action 3 Identify at least 10 locations that are mown under a pollinator friendly regime (5 cut & lifts per year)

Action 4 Aim to create at least 5 meadows (one cut & lift per year)

Action 5 Identify at least 10 flagship roadside verges that are managed to be pollinator friendly (one cut & lift per year)

Action 6 Introduce a layered mowing approach to other roadside verges

C Pollinator friendly planting

Take the actions below to ensure you have flowers blooming that can provide food for pollinators from March-October

Action 7 Plant a native perennial wildflower meadow

Action 8 Plant a native hedgerow

Action 9 Replace grass with a dense clover sward

Action 10 For future ornamental tree planting select from pollinator friendly species

Action 11 For ornamental tree planting select from pollinator friendly species

Action 12 In future main street select from pollinator friendly species

Action 13 Make pollinator friendly planting a requirement for all new planting

Action 14 Make pollinator friendly planting a requirement for all new planting

Actions Councils can take to help pollinators - other

Please select some actions you could take and help us work together to protect pollinators

F Raise awareness

Action 21 Build actions on pollinators into existing frameworks and initiatives

Action 22 Fund pollinator projects on council land to demonstrate best practise to other sectors (reference sites)

Action 23 Put up signage to identify pollinator friendly habitats on council land

Action 24 Promote & distribute pollinator friendly guidelines to other sectors locally

G Tracking progress

Action 25 Promote & distribute the Junior Pollinator Plan to local schools

Action 26 Facilitate or deliver training on pollinators and how to take action to protect them

Action 27 Fund a special pollinator award in the Tidy Towns or Ulster in Bloom competition

Action 28 Promote and get involved in other pollinator related initiatives

G Tracking progress

Action 29 Log your 'Actions for Pollinators' on the mapping system to ensure your efforts are recognised

Action 30 Take part in the Bumblebee Monitoring Scheme to help track changes in wild pollinator numbers on council land

Pollinator friendly roadside verge in NI - Don't Mow Let it Grow

Pollinator friendly roundabout - Fingal

Raise awareness of pollinators in the local area

COUNCILS: actions to help pollinators

A. Identify and protect existing areas that are good for pollinators

Action 1:

Promote the management and restoration of semi-natural habitats and their native plants on council land



Action 2:

Identify and protect existing sources of food and shelter for pollinators on general council land



B. Alter the frequency of mowing of grassy areas to allow more native plants to flower

Action 3:

At least 10 locations mown under a pollinator friendly regime (5 cut & lifts per year)

Info box:

| Mowing Regime | Approximate costs per HA (2016) |
|---|---|
| 22 Cuts per year, grass mulched back in | €2,464.00+vat Cost inclusive of equipment, labour and fuel |
| 5 Cuts per year with cuttings lifted | €2,437.00+vat Cost inclusive of equipment, labour, fuel and waste disposal |

Cost benefit analysis based on prices from a large landscaping company in ROI. Prices are based on flat ground accessible with ride on equipment and within a 40km radius of Dublin, rates would reduce for larger areas.

B. Alter the frequency of mowing of grassy areas to allow more native plants to flower



Action 3:

At least 10 locations mown under a pollinator friendly regime (5 cut & lifts per year)



Action 4:

At least 5 meadows (one cut and lift per year)



Action 5:

10 flagship roadside verges that are managed to be pollinator friendly (one cut and lift per year)



Action 6:

Introduce a layered mowing approach to other roadside verges



C. Pollinator friendly planting



Action 7: Replace grass with a dense clover sward



Action 8: For future tree planting select from pollinator friendly species



Action 11: Make some urban planters pollinator friendly

Action 9: For new works ensure 75% of ornamental planting is pollinator friendly

Action 10: In future ornamental maintenance planting select pollinator friendly species



Info box: Pollinator friendly perennial planting versus annual bedding

| Planting regime | Approximate costs per m ² (2016) | Typical replacement |
|--------------------------------|---|--|
| Pollinator friendly perennials | €10-13 (9 x 9cm pots) | Life span of 10-12 years if well planted and well maintained. Small amount of annual replacement may be required depending on the site |
| | €17-19 (6 x 2L pots) | |
| Annual bedding | €10-29 | Twice per year |

Based on prices from a large Irish perennial plant nursery. Typical annual bedding costs were provided by a Council in ROI.

C. Pollinator friendly planting



Action 7: Replace grass with a dense clover sward



Action 8: For future tree planting select from pollinator friendly species

Action 9: For new works ensure 75% of ornamental planting is pollinator friendly

Action 10: In future ornamental maintenance planting select pollinator friendly species



Action 11: Make some urban planters pollinator friendly



Action 12: Make some urban roundabouts pollinator friendly



Action 13: Deliberately plant a native wildflower meadow

**USE NATIVE
LOCAL
PROVENANCE
SEED**

D: Provide wild pollinator nesting habitat: hedgerows, earth banks and hotels



Action 14: Manage hedgerows for pollinators



Action 15: Bare earth/sand banks for wild pollinator nesting



Action 16: Holes in wood or concrete for wild pollinator nesting



Action 17: Bee hotels for wild pollinators

E. Reduce the use of pesticides

Action 18: Reduce or eliminate the use of pesticides

Action 19: Ensure best practice where they cannot be avoided

- ✓ Aim to eliminate in some locations
- ✓ Turf - spray only sports pitches, bowling greens, cricket squares
- ✓ Adopt a policy of not spraying paths until the 15th April
- ✓ Have spraying buffer zones around important pollinator habitat
- ✓ Adopt the pesticide best practice code



F: Raise public awareness of pollinators within the local area

Action 20: Build actions on pollinators into existing frameworks and initiatives

Action 21: Fund pollinator projects on council land to demonstrate best practice to other sectors

Action 22: Put up signage to identify pollinator friendly habitats on council land

Action 23: Print & distribute pollinator friendly guidelines to other sectors

Action 24: Promote & distribute the Junior Pollinator Plan to local schools

Action 25: Facilitate or deliver training on pollinators and how to take action to protect them

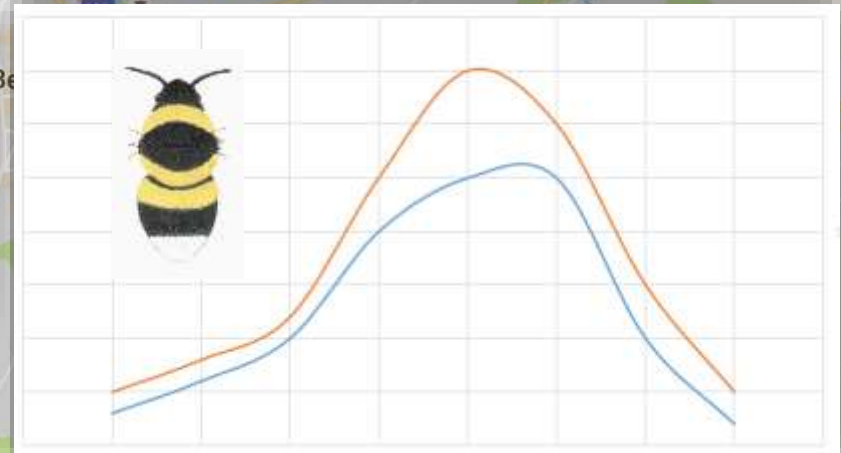
Action 26: Promote and get involved in other pollinator related initiatives



G. Tracking progress and recognition for efforts

Action 27: Log your 'Actions for Pollinators' on the mapping system to ensure your efforts are recognised

Action 28: Take part in the Bumblebee Monitoring Scheme



How can you help?



**BUSINESS
IN THE
COMMUNITY
IRELAND**



MAKING IRELAND POLLINATOR FRIENDLY

*Provide food and shelter across all types of land so
that our pollinators can survive and thrive*

Farmland

Public land

Private land

**Raising awareness of
pollinators and how to
protect them**

**Managed pollinators –
supporting beekeepers**

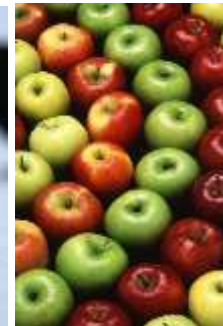
**Expanding our
knowledge on
pollinators**

**Collecting evidence to
track change and
measure success**



CALL TO ACTION

www.biodiversityireland.ie/pollinator-plan



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Thank You

