ALL-IRELAND POLLINATOR PLAN







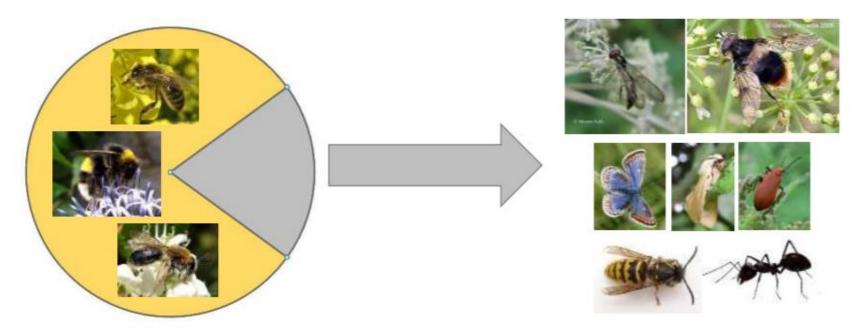
Dr Úna FitzPatrick Steering Group Chair; Project co-ordinator

Juanita Browne Project officer

Without pollinators we'd have less diversity on our dinner plates and less colour in the countryside



WHO ARE THE POLLINATORS IN IRELAND?

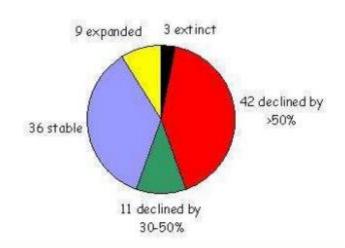


Most pollination of crops and wild plants is carried out by bees

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

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 wild bee species are threatened with extinction from Ireland

6 species are critically endangered,10 endangered

14 vulnerable





The Great Yellow Bumblebee is our most threatened bumblebee – it has recently been 'adopted' by Mayo County Council

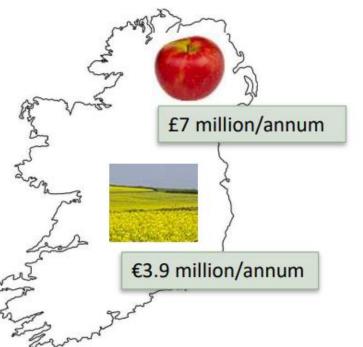
WHY IS POLLINATION IMPORTANT?

Economy & Wealth









Free service they provide is worth:

€53million/year

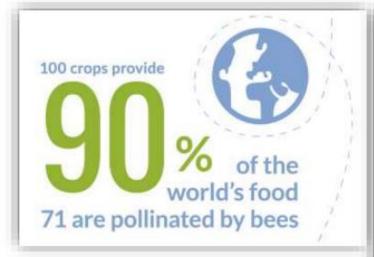


In Ireland within the last ten years the value of soft fruit, field vegetable, and apple production has increased by 17, 21 and 24% respectively









Without pollinators it would be extremely difficult to have a healthy balanced diet



BEES IN IRELAND



Ireland has 99 bee species:

Honeybee



Bumblebees



Solitary bees



WILD POLLINATORS

BUMBLEBEES – 21 DIFFERENT TYPES IN IRELAND



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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.





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











If you want to help implement the All-Ireland Pollinator Plan it is important to think about providing:

food, shelter & safety















B. Reduce the frequency of mowing of grassy areas

FOOD



Action 2: Reduce mowing and aim to create a wildflower meadow



Action 3: Create a short flowering '6-week meadow'



Action 4: Let the Dandelions bloom! Cut as normal, but first cut is not before April. This allows Dandelions to flower but not set seed

C. Pollinator friendly planting





Action 5: Clover lawn. Areas where grass is replaced with a permanent clover mix



Action 8: Annual flowers for pollinators. Ensure a component of annual planting is with pollinator friendly annual plants



Action 6: Plant a mix of pollinator friendly trees & shrubs to flower from spring-autumn



Action 9: Some urban planters or hanging baskets with perennial pollinator friendly plants

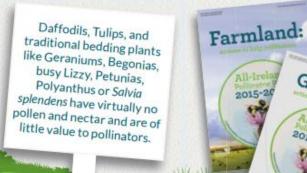


Action 7: Plant a mix of pollinator friendly perennial plants to flower from spring-autumn

How do you know if a plant is pollinator friendly?

- Do you see pollinators visiting? When choosing plants at a garden centre, you will quickly spot which flowers insects visit most.
- Choose single-flowered varieties or perennials (double-flowered or annuals are generally poor sources of pollen and nectar).

See our website for more actions you can take to help pollinators in your garden, business, farm, school or local community.



2015-2020



www.pollinators.ie

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Pollinator-friendly plants for **YOUR GARDEN**

Our pollinating insects are in decline. One third of our 99 bee species are at risk of extinction. By choosing pollen-rich flowers for your garden, you will help provide muchneeded food our Bumblebees and other pollinating insects as well as creating a beautiful colourful garden. There are lots of pollinator-friendly plants to choose from.

To learn more about the All-Ireland

Pollinator Plan, see

www.pollinators.ie

All-Ireland Pollinator Plan 2015-2020







































Native plants are best

Native plants can be

Native plants can be encouraged by making small changes to the management of a site to make it naturally more flower-rich

Flowering hedgerows

Grassy verges/banks

Meadows or areas of long grass

Edges of tracks that are not sprayed

Wilder corners that are not sprayed Hawthorn Willow Wild Cherry Crab Apple Bramble Ivy

Wild Carrot Goldenrod Hogweed Mignonette Rosebay willowherb Stachys

Bird's foot trefoil Knapweed Scabious Senecio Thistle Vetch Achillea Wild marjoram Vetchling

Dead-nettle Forget-me-not Geranium sp Hawksbeard Veronica

Bluebell Brassica Butterbur Coltsfoot Foxglove Radish Turnip Fleabane Red bartsia

E. Reduce the use of pesticides

SAFETY

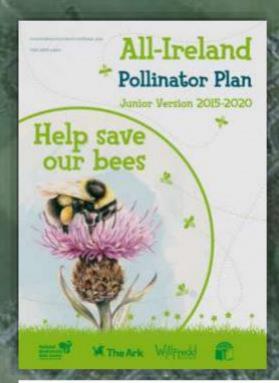
Action 16: Eliminate the use of pesticides

- ✓ Identify streets/areas where your group is willing to take responsibility for manual weed control
- Most pesticide use is along edging or tree bases that mowers can't access. Identify small areas of south facing edging that could not be sprayed to provide solitary bee nesting habitat

Action 17: Ensure best practise where the use of pesticides cannot be avoided

- ✓ Follow manufacturer guidelines exactly
- ✓ Spot treat rather than blanket spray
- Spray in dry conditions with low wind speed to prevent drifting
- ✓ Spray after sunset to avoid direct contact of pollinators with chemicals

F. Raise public awareness of pollinators within the local area



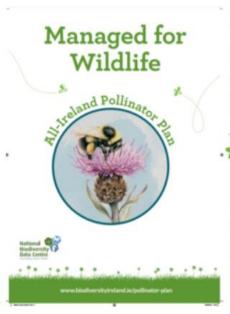
Action 18: Promote the Junior All-Ireland Pollinator Plan 2015-2020 to local schools or youth groups Action 19: Promote the Pollinator Plan to local businesses & encourage actions/sponsorship

Action 20: Put up signage explaining importance of pollinators and what is being done locally to support the Pollinator Plan

Action 21: Facilitate or deliver training workshops on pollinators and how to protect them











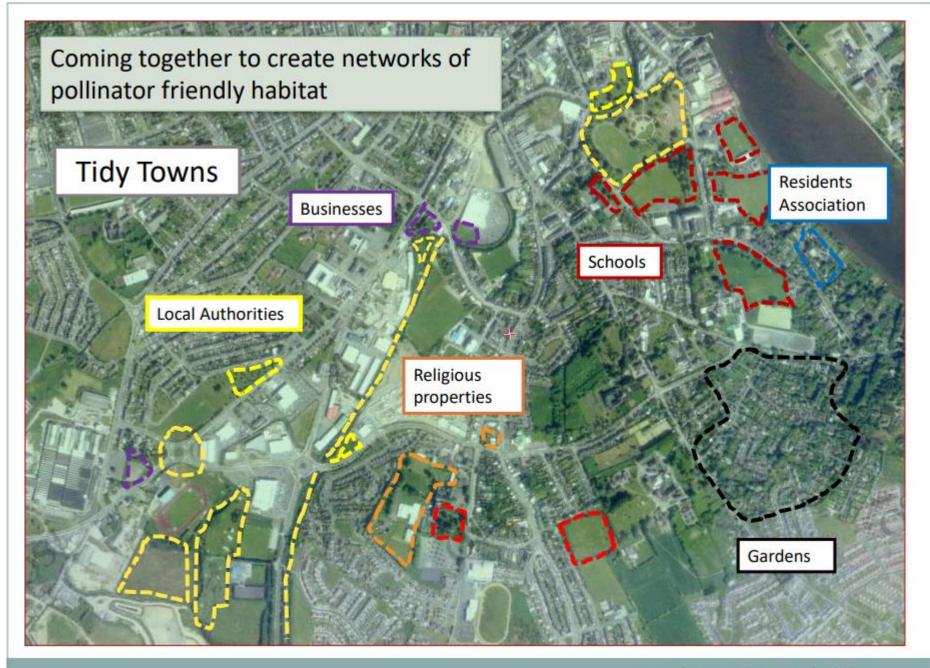
Pollinator























CALL TO ACTION



www.pollinators.ie











Thank You

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