



School grounds are gardens



How many species live in gardens ??

Exercise

Name any species of animal!

British Gardens contain only about

Forty species of birds

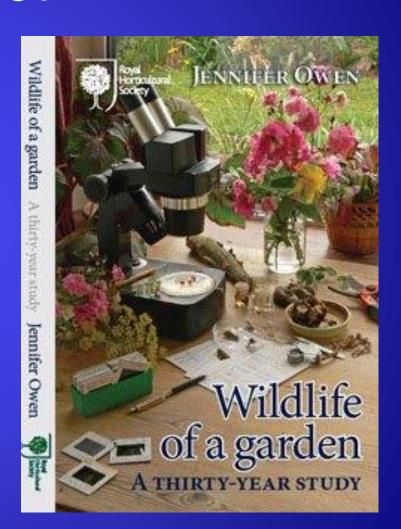
Five or six species of mammals

Six species of amphibians and reptiles

So why are gardens thought important for wildlife?



Jennifer Owen
Studies 1972-2009



Jenny Owen studied wildlife in her ordinary detached garden in Leicester



Jenny Owen studied wildlife in her ordinary detached garden in Leicester

In the groups she could study she found

- 422 species of plants
- 364 species of butterflies and moths
- 251 species of beetles
- A total of 2,204 species in 34 groups

Allowing for the many obscure groups she *couldn't* study, she estimated that about 8,450 species of *insects alone* could be found in gardens.

Invertebrates

These are the little things that run the world

They are important and fascinating in their own right

And they are the food for everything else in the garden





In plant species alone, gardens contain more per unit area than the African rainforest

The garden habitat contains between 5 and 40% of all our animal species (by group).

No other British habitat type is so diverse

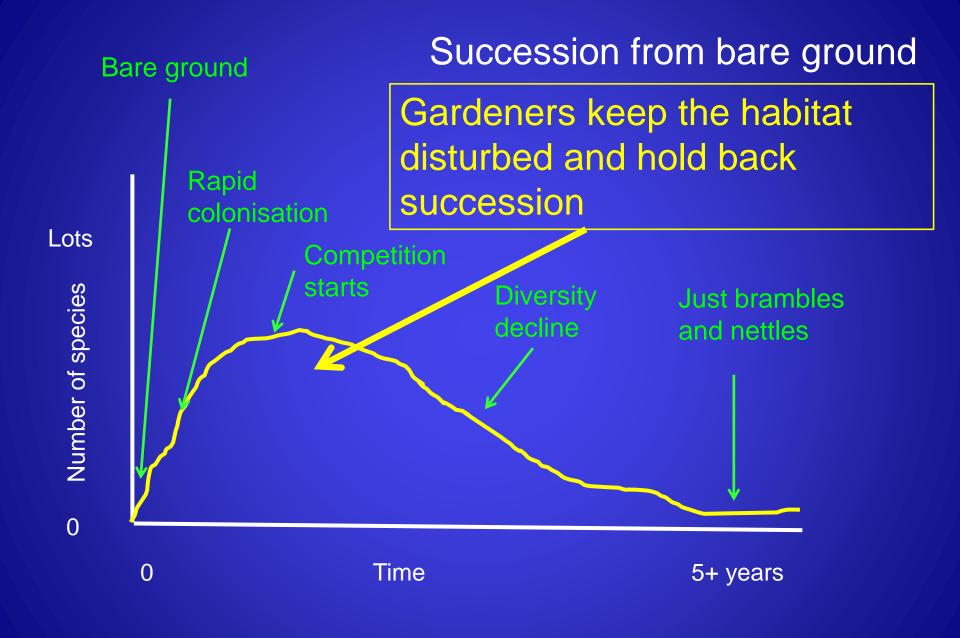
WHY | ??

Gardens are biodiverse because:

Contrived plant diversity

Permanent succession





Gardens are biodiverse because:

Contrived plant diversity

Permanent succession

Variety of structure

Domestic lawns

Food supply and food webs



Gardens reproduce many important British habitats

Mature trees

Shrubs and hedges

Lawns

Veggie patch and borders

Ponds

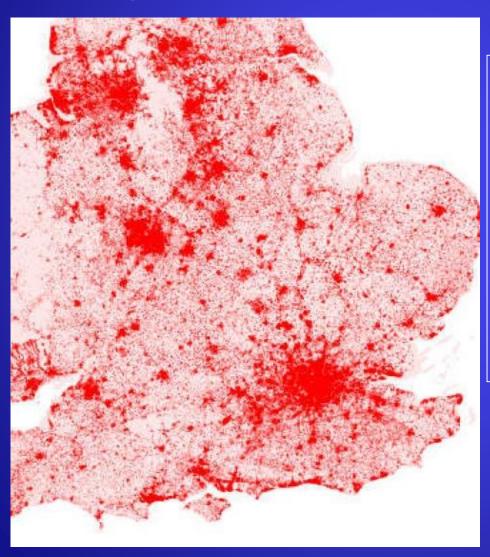
Compost heap

Rockery



Mountain, rubble, scree, sand-dune habitats

But surely gardens don't offer a significant amount of habitat?



Area of domestic gardens in England is 564,514 hectares

(1/5th size of Wales)

Up to 50% of urban greenspace

Gardens provide connectivity through a fractured countryside

Gardens are the main habitat for:



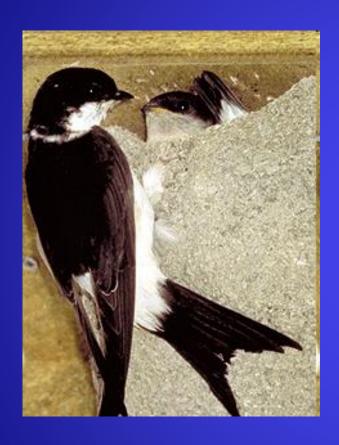
Welsh groundsel

Senecio cambrensis

Stag beetle *Lucanus cervus*



Gardens are the main habitat for:



House Martin



House sparrow

Gardens are the main habitat for:



Frogs – up to 70% of British frogs are now confined to gardens

Gardens are supermarkets



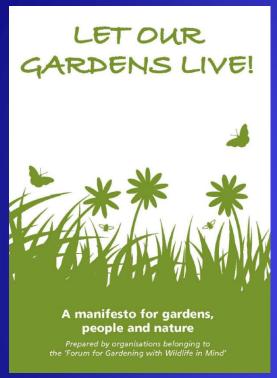








The Wildlife Gardening Forum



www.wlgf.org

Founded in 2005 by English Nature, now an independent Charity

Mission - To help everyone make their gardens better for wildlife

By:

Raising understanding of the importance of gardens for wildlife and people

Providing impartial evidence-based information and advice

Inspiring and supporting the wildlife gardening community

Free to join – no employees

c1400 members from >200 organisations



General wildlife gardening myths

Only "wildlife gardens" are any good for wildlife

Wildlife gardening can be in one small area of your plot

Wildlife gardens must be informal and scruffy

All wildlife gardens should follow (MY!) blueprint



Special wildlife gardening myths

"Only big suburban gardens are of value" "You must only plant native species"

"You must buy special homes for garden animals"

"Lawns must be replaced with flower meadows"

Magpies and pussy cats kill all the garden birds"

"You must feed garden birds"

"You must garden organically"

What is our interest in Education?

In our Manifesto we set out what we want to see:



All children having access to a garden rich in wildlife, at home and at school

Children using gardens to give them a richer environment for learning and play

People valuing and enjoying wildlife in their gardens, encouraging a deeper appreciation of biodiversity and the environment

Because:

School gardens can add a significant amount to the garden habitat available to wildlife



Because:

Being out of doors improves children's concentration, exercise and health



A third of 2-15 year-olds children in England are now overweight or obese, By 2050 > 50% of adults and a quarter of all children will be obese.



Children's ability to do physical tasks such as sit-ups has declined, and there has been a 10% drop in their cardiovascular fitness in a decade

Because:

Being out of doors improves children's concentration, exercise and health



The best way to get children to exercise is to give them opportunities to play outside



They miss out on building resilience through coping with the risks and challenges of outdoor play,

But especially Because:

If the next generation of adults is to care about and protect the natural environment, they must build a connection with it as a child.

As David Attenborough said:

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



Chris Packham Desert Island Disks 2013



What was your very first brush with nature?

My parents say it was crawling around on the lawn of our very small house in Southampton and picking up ladybirds and putting them into matchboxes.



Children watch television for 17 hours, and are online for 20 hours every week.

Our 11–15-year-olds spend half their waking lives in front of a screen.



This replacement of play in the real world with virtual play has been called 'the extinction of experience',

The over-protected life of children indoors has been called 'well-meaning, protective house arrest'.

Extinction of experience

Percentage of children playing in different areas	Modern children	Parents' generation	Grandparents' generation
At own or friends home	83%	78%	73%
In local streets	40%	74%	80%
School playground	40%	64%	58%
House garden	75%	78%	73%
Woods	10%	44%	52%
Heath, field, farmland	9%	39%	49%
Riverside, canalside, pond	7%	22%	33%
Mountains, moorland, wild places	4%	11%	18%

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Wildlife Gardening and Education

Although the bulk of the Wildlife Gardening Forum's work concerns ordinary private gardens and their significance for wildlife, from the beginning we have also been concerned with the health, social and especially education benefits of getting more "nature" into gardens, public space and school grounds. People cannot grow and develop healthily in modern nature-free environments, and we want to help policy makers understand these issues.

In our Manifesto we set out what we want to change:

- all children to have access to a garden rich in wildlife, at home and at school
- use gardens to give children a richer environment for learning and play
- help people value and enjoy wildlife in their gardens, encouraging a deeper appreciation of biodiversity and the
 environment

Gardens are where many children make their first contact with the natural world. There is nothing more exciting for a small person than lying prone on the lawn, and watching ants busy about their inexplicable daily lives in the edge of the flower bed. Using their young-person's gift of close-up vision, they discover for themselves a new and extraordinary world that contains so much more than just boring people.

One of the best accounts of discovering nature in and around the garden was given by Chris Packham on "Desert Island Discs" in October 2013.



Chris's Desert Island Discs recording is available here. The most relevant section starts at 7.20 minutes in.







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Evidence base for engaging children in wildlife gardening

Ruth Staples-Rolfe (Learning Through Landscapes) and Steve Head



Wildlife gardening, nature and education – the evidence reviewed

Steve Head

There is now a tremendous body of evidence that children's development and education at all levels benefit greatly when some of it can be delivered in an outdoor semi-natural environment, where children are exposed to natural physical and biological influences, and can let their imaginations run free.

Relatively little evidence is *specific* to school or home wildlife gardening, but maintaining semi-natural wildlife friendly areas for teaching and/or informal play are providing precisely the conditions which have been shown to benefit behaviour, health, concentration and learning. Please read this document as evidence for the importance of outdoor play, experience and learning. School grounds and wildlife gardens are easily available, cost effective and practical places to provide it.

We review evidence at several levels:

- 1. Biophilia and poor human adaptation to cities
- 2. Loss of connection with nature
 - 2.1. "Nature deficit disorder"
 - 2.2. Changes in play
 - 2.3. Electronic media
 - 2.4. Disadvantaged children
 - 2.5. Loss of natural history skills
- 3. General benefits of outdoor play and experience to children
 - 3.1. Activity levels and physical health

28 pages, 80 references cited



Home > Public Benefits > Gardening & people > Education > Case studies

Case Studies in school wildlife gardening



Here is where we give you access to case studies of school wildlife gardens, written by the teachers themselves.

They tell of the inspirations, the hard work, the problems overcome and the responses of the children and staff. Seeing how other schools have approached school gardening can be an inspiration for you.

If you have created a school garden, improved the school grounds, or started a food growing project, please let us know through here, and we will publish your own experiences as a case study.



St Albans Church of England Primary School Havant.

Teacher Julie Newman describes the extraordinary success of this pupil-driven project which has created new and attractive borders, beds and pollinator planting.

The school children set up "Pollinator Promise", which has now become a national scheme, and helped win them a major national award



Home > Public Benefits > Gardening & people > Education > Case studies > Pooles Park

Case Study: Pooles Park School's Community Garden

By Sophia Ioannou

A Green Space for Wildlife and Us

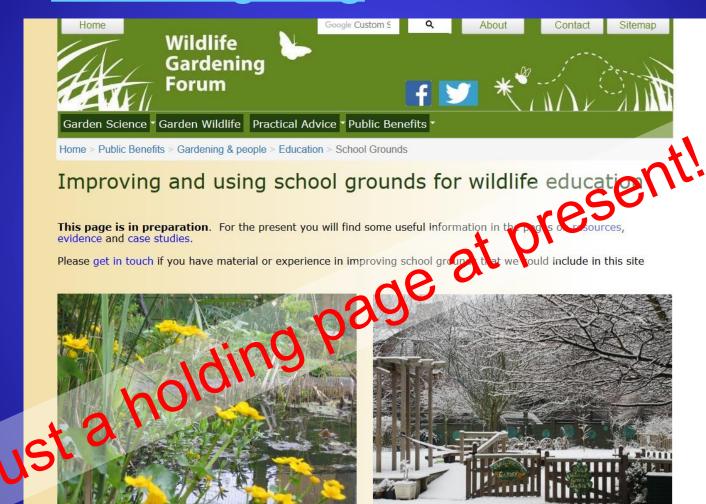
Pooles Park Primary School is in Islington, London and has a strong vision for the importance of the natural environment in education.



The school's Headteacher Greg Crawford writes:

- Pooles Park School recognises the importance of contact with nature, for pupils, staff and visitors.
- At Pooles Park we raise awareness of biodiversity and sustainable practices to educate future generations.

Just 4 so far!



We need Your help

More Case Studies of practice in schools – what works!

Web page material on:

- School grounds
- Parents and children
- Forest schools
- Training in wildlife gardening

Fun blogs about school gardening!

Become a Trustee of the Wildlife Gardening ForumNot such a big commitment!

Thanks for listening



Steve@wlgf.org