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Inspiring everyone to grow

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# Why worms are great

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These wriggly fellows are well known to gardeners all over. At first glance they might not seem particularly special, but they're essential for our soils and for wildlife. Charles Darwin called them the most important animal in the history of the world! He dubbed them 'nature's ploughs' for the way they mix soil layers and enable plants – the basis of all terrestrial life – to grow.

# Engineers of the earth

**Earthworms are true engineers** – they specialise in moving through the soil, creating networks of burrows and mixing the earth. This means oxygen and water can flow through the soil, allowing water to drain away after heavy rain. They also break down and recycle decaying plants, releasing nutrients to increase soil fertility, which helps soil microorganisms and fungi to thrive.

## It's in the poo!

So how do earthworms do all this? **First**, **they eat the organic matter in the soil**, **such as dead leaves and plants.** This breaks it down into smaller pieces, which they then pass out as 'casts', or worm poo. These casts are very high in nutrients that improve the quality of the soil, helping plants to grow.

## **Smooth movers**

Earthworms can move smoothly through even very dense soil due to the mucus covering their bodies. **They move by contracting the muscles surrounding their body**, forcing their way through the soil. This moves air through the burrows, further mixing the soil.

## Cutting a worm in half

doesn't give you two worms! It just gives you one unhappy worm, or one dead worm

#### The longest worm in the world is the giant Gippsland worm from southern

from southern Australia, reaching **more than 2m long!** 

> Earthworms don't have eves.

Did you

know?

but find their way by sensing light and soil vibrations

A worm can eat its own weight in soil in one day

## Not all earthworms are **brown or pink**.

In the UK they can be **deep red**, **black headed**, **green**, **grey** and even a **bit stripy**, while one tropical worm is **bright blue** 

Earthworms are hermaphrodites – so each worm has **both male** and female parts

> The largest earthworm in the UK can grow to **more than 30cm long!**

It's known as **the nightcrawler** 

Worms absorb OXYZEN through their skin

The slow worm is actually **a lizard,** while the glow worm found in the UK is a **type of beetle** 

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# Welcoming worms into your garden



Feed you<u>r soil</u>

Whenever planting, take the opportunity to work a little peat-free garden compost into the soil.



Collect leaves in the autumn for leaf mould and use it to mulch acid-loving plants like rhododendrons, or add to a home potting compost mix.



Let plants die down naturally in winter and don't be too quick to clear fallen dead leaves from the soil – unless they are diseased.





Conserve soil moisture by mulching borders with peat-free garden compost or composted bark once a year, or on a rotating basis in larger gardens. This can be done at any time provided the ground is moist.

### Let your earth breathe

Reduce the amount of hard surfacing; lift unnecessary paving and plant up instead. This will give worms somewhere to live.

### Avoid chemicals

Minimise pesticide use, including metaldehyde-based slug pellets.

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Lay small stacks of logs or woody prunings directly on the soil. They will eventually decompose into worm food.











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# Worms as **food**

Worms are an important part of food chains and many other animals rely on them as part of their diet. Here are just some of the animals that feed on earthworms...

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Blackh

Hedgel

Robin

© Neil Aldbridge

sood mous

hrew

Nole © Steve Bottom

# Know your worms

#### There are no less than 29 earthworm species in the UK

A gardener's friend, worms are a good indication of soil fertility. Here are a few of the most common species working away beneath our feet.

A sure ID will need a microscope, but you should be able to tell which one of the four ecological groups your worm belongs to:

#### **Composter worms**

These are usually found in garden compost and rotting vegetation. They make excellent recyclers of green waste. Generally bright red and stripy.

#### **Endogeic worms**

These live in soil, eating and aerating the earth. They are grey, pink, green or blue.

# Black

Black-headed worm

#### • anecic • common

This black-headed worm reaches up to 20cm long. Can be found when digging in lawns.

#### These live at the soil surface

and help to break down leaf litter. They are often bright red or reddy-brown but not stripy.

**Epigeic worms** 

#### Anecic worms

These live in the soil, pulling down leaves from the surface. They usually have red or black heads and a paler tail.



#### **Tiger worm**

#### 🔴 composter 🕚 very common

These surface dwellers like to live in rich organic matter, so you may find them in decaying leaves, under logs or in your compost.



#### Grey worm

#### 🗕 endogeic 🛛 🗕 very common

This pale pinky-grey worm is known by many gardeners. In high numbers across the UK, this is one of the powerhouses of the earthworm world.



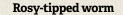
#### **Red-headed worm**

#### 🛛 epigeic 🕒 common

This is a deep red-headed worm that comes in all sizes – from 2cm to 20cm! Frequently found hiding beneath plants pots or compost bags.

#### Green worm

• endogeic • common There are different colour forms of this worm, one pink and one green.



#### endogeic e common

This worm is small and pinky-grey. It has a flared band beneath its often orange saddle.

Lob worm

#### 🔵 anecic worm 🥚 common

Also known as the nightcrawler, this worm emerges in the dark of night. It is the largest worm in the UK.

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# Let your **soil breathe**

Artificial turf and excess paving is pushing worms and wildlife out of gardens. But together we can bring nature back. With an estimated 24 million gardens in the UK, the amount of green space we can create makes a big difference to the natural world.

#### Grow your own gorgeous grass

#### Artificial turf causes habitat loss for wildlife and creates plastic pollution.

We love to feel the cool brush of grass between our toes. It's not quite the same when it's fake. Love your lawn and avoid artificial turf. In doing so you can create a home for worms, birds, butterflies and more.

A real lawn is muddy, motley and magic. It could help with urban cooling, improve your air quality and be loved by creatures great and small.

#### Your paving has potential

More than half of the total surface area of the UK's front gardens is hard surfacing, but you can help green the grey. Replace nonpermeable tarmac or concrete with a porous gravel drive or pull up some paving slabs to make mini flower beds.

Looking at plants rather than concrete is known to make us happier.<sup>1</sup> Not only that, but borders and lawns soak up the rain and help reduce flood risk.

Go for plants that will withstand a bit of impact if you are brightening a patio or drive area. For example thyme (*Thymus serpyllum*), creeping jenny (*Lysimachia nummularia*), bugle (*Ajuga reptans*) and grape hyacinths (*Muscari armeniacum*).

# Every tiny patch of planting benefits **wildlife and people**

#### How can I improve my lawn?

If you have a regularly mown lawn, leave grass clippings on the grass after mowing. This will provide a ready source of nutrients for the worms below. For part of your lawn, put the mower aside! Try leaving a patch or strip of your lawn to go wild and see what wildflowers and grasses grow there.

If you want to plant a wilder lawn, species-rich grass seed can be sourced from garden centres. You can also wild an existing lawn by planting wildflower plug plants.

## How can I make my neighbourhood greener?

Get in touch with your local Wildlife Trust to find out if there are any community conservation projects in your area. The nature reserves we look after are home to ancient undisturbed soils – become a member and help to protect them.

#### www.wildlifetrusts.org/your-local-trust

Grow your community with the RHS. Check out our website for inspiration to get you started, or join a Britain in Bloom or It's Your Neighbourhood group and help green and clean your local patch.

www.rhs.org.uk/communities

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<sup>1</sup> Wellbeing benefits of natural environments rich in wildlife: a literature review (2015) The University of Essex

# Peeling happy

## Worms love your veggie peelings, so cut down on your waste and enrich your soil at the same time.

Veggie gardens make a lovely

home for worms

# Grow your own **worms**

## Veggie beds and allotments are one of the richest habitats for earthworms.

The highest concentration of worms are often found here. All the good stuff gardeners add to these patches, such as manure and garden compost, give worms plenty to feed on. Happily the free-draining, moist soil, which suits our veggies, is a favourite of worms too. And, perhaps surprisingly, earthworms aren't too bothered by a bit of digging!

Get started with these easy-to-grow root veg and table staples, then return your peels, tops and tails to your garden compost bin or worm composter to help feed your soil and your worms. All these vegetables could be grown in a container, except parsnips which like nice deep soil.

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## **About Us**

The Wildlife Trusts and the RHS set up Wild About Gardens to celebrate wildlife gardening and to encourage people to use their gardens to take action to help support nature. Over the past 50 years we've seen declines in two thirds of the UK's plant and animal species. Many of our common garden visitors – including hedgehogs, house sparrows and starlings – are increasingly under threat.

To discover more ways to take action for the worms in your garden visit us online. You can also sign up to our monthly newsletter or follow us on social media to receive updates and ideas on all things wild about gardens.

wildaboutgardens.org.uk

facebook.com/WildAbtGardens

#### **The Wildlife Trusts**

No matter where you are in the UK, there is a Wildlife Trust inspiring people about the natural world and saving, protecting and standing up for wildlife and wild places near you. We believe that people are a part of nature; everything we value ultimately comes from it and everything we do has an impact on it.

Supported by more than 800,000 members, together The Wildlife Trusts care for 2,300 diverse and beautiful nature reserves. The nature reserves we look after are home to ancient undisturbed soils, and our members help us to protect them. We work to inspire and empower people to take action in their lives to help wildlife.

#### **The Royal Horticultural Society**

For more than 210 years, the RHS has been the force behind gardening in the UK. Our aim is to enrich everyone's life through plants, and to make the UK a greener and more beautiful place. We believe everyone in every village, town and city should benefit from growing – for stronger, healthier and happier communities.

Our work in education, science and communities is only possible thanks to the generous support of our visitors, members, partners, donors and sponsors. With your help we can harness the power of horticulture, one gardener at a time.

#### The Wildlife Trusts

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Thank you to the Natural History Museum and the Earthworm Society of Britain for images and expert advice. www.earthwormsoc.org.uk

wildlife



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Illustrations by Corinne Welch

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