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Suffolk is home to lots of different wildlife species, but some are in danger of becoming extinct if we don't care about their conservation for the future!

Learn here about the lifestyles, habitats and threats to the continued wellbeing of those animals, birds and invertebrates which are of most concern.

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Suffolk Owl Sanctuary & Nature Centre is concerned with the preservation and conservation of our British wildlife, and is proud to present to you this compilation of our local treasures.

Part of our remit as a registered charity is to commit to educating and enthusing youngsters, not only about the beauty of our native birds of prey, but also the necessity and value of ensuring a safe environment for future generations of *all* British wildlife.

Aimed primarily at our younger enthusiasts, this handbook can be used to support Key Stage 1 and Key Stage 2 studies.

Suffolk Owl Sanctuary & Nature Centre is grateful to Suffolk Wildlife Trust for providing the information on which this booklet is based.

Status Protected...

...in the UK under the Wildlife and Countryside Act, 1981.



All UK bats are nocturnal, feeding on midges, moths and other flying insects that they find in the dark.

Despite it's size the tiny pipstrelle bat can easily eat 3,000 a night!



The common pipistrelle is so small, it can fit into a matchbox!

Breeding



Did you know?

They hibernate over winter. usually between November and April.



Build a Bat Box

- Use untreated wood. Bats are sensitive to smells and preservative chemicals may be harmful to them.
- Use rough sawn wood.
- Ensure joints are tight bats hate a draught.
- Provide a narrow slit at the back with a rough piece of clamber wood attached.
- Two or more internal compartments.
- Make the box as large as possible a deep cavern makes bats feel safe and keeps the air temperature constant.
 - Locate under the eaves of your house or on the trunk of a mature tree in a large garden.

A bat box gives these night-time creatures somewhere safe to roost, raise their pups and sleep during the day.

BAKN OWI



...in the UK under the Wildlife and Countryside Act, 1981.

Threats



Roads are the largest cause of mortality. New highways fragment habitat, and faster traffic leaves owls flying at hunting height unable to avoid collisions.

The loss of traditional farming methods has caused oss of habitat for both owls and their prey.



With soft feathers which quickly become saturated in the rain, Barn Owls need shelter.

Mice, voles, shrews and some larger mammals and small birds.

As one of the UK's driest counties, Suffolk is a natural stronghold.

Breeding 2



The population crashed to a dangerously low level in the 1990s and by 2000 it was estimated that there were less than 4,000 breeding pairs in Britain. Changes in agricultural practices have helped halt this, and favourable weather patterns have contributed towards breeding,

Build a nest box

✓ Locate where there is little risk of disturbance.

The greatest known age of

a Barn Owl in

Europe is more

than 21 years!

- Provide a permanent and visible means of access (Barn Owls look for holes, not boxes).
- A front shelf or tray allows fledglings to exercise their wings before first flight.
- The minimum dimensions of the box should be 36cm x 32cms x 60cms.



- Widespread across the UK
- Field edges, the edges of watercourses and grass strips alongside woodland





DORMOUSE ...in the UK under Status the Wildlife and Countryside Act, 1981. Protected ... Habitat In the UK the species tends to be more closely associated with old coppice woodland but they also occur in scrub habitat, old hedgerows and are sometimes found in conifer plantations. After emerging from hibernation, they feed on flowers and insects. In autumn, dormice prepare for hibernation by eating nuts, seeds and berries, putting on the fat Dormice hibernate through

needed to survive the winter. the winter and may spend as much as seven months of the year asleep.

birth to a litter of four to five young each

The loss and

degradation of

woodland and

hedgerows is

Conservation

methods include

woodland and

driving it's

decline

If you find a hazel nut with a smooth circular hole in the shell, the chances are it was made by a feeding dormouse!







just one night!

HONEA

Honey



- Honey is made in a nest in the wild, or a man-made hive.
- Female workers forage for nectar in a 4 mile radius.
- Nectar is then mixed with an enzyme in the bee's mouth.
- It is depostited in a wax honeycomb back at the hive.
- Once the honeycomb is full, the bees seal it with wax.



Honey therefore acts as a winter food supply for these bees.

It is very important that bee keepers only harvest surplus honey.

Did you know?

Honey bees fly at a speed of around 25kmph and beat their wings 200 times per second!



You can spot honey bees throughout the garden, in parks, woods, orchards and in meadows.



Honey bees are foragers and gather nectar and pollen from a wide variety of flowering plants, using their hairy tongues to lap up the liquid.

We are important!

- Over the past 15 years workers have been leaving their colonies - the reason remains unknown.
- It is referred to as 'Colony collapse disorder'.
- As the number of colonies decreases, so does the rate of crop pollination, threatening the food supply for humans.

How can you help?

- Seek to develop a pollinator garden. This is a garden that is planted predominately with flowers that provide nectar or pollen.
- Keep your own hive this a way to raise healthy honeybees and ensure that the plants and crops surrounding you are being pollinated.
- Insecticides that are used to control garden pests like aphids, are harmful to bees. By gardening without pesticides we can help minimise bees' exposure to these substances.
- Report a swarm to a beekeeper's association; they may relocate them to a safer new home.



- Otter distribution has increased significantly in Suffolk over the last 15 years. They are now widespread in rivers and coastal waters.



pesticide pollution and oil spills.

There has been concern from fishery owners about the increase in otter predation. Otters are a fully protected species, so access to fisheries must be prevented by the installation of otter-proof fencing.

The Wildlife Trusts manage many wetland nature reserves for the benefit of the wildlife they support.

Mainly fish, also waterbirds, amphibians and crustaceans.

Breeding

- 1-4 cubs are born in underground burrows, known as 'holts'.
- They are excellent swimmers; the young are in the water by 10 weeks old.

Otters are well suited to a life on the water as they have webbed feet...

...dense fur to keep them warm, and can close their ears and nose when underwater.



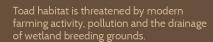


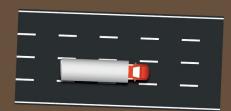
- Parks, scrubby areas, woods and fields, ditches, lakes and slow-moving rivers.
- In and around ponds and damp, wooded areas of the garden during breeding season.

Did you know?

Toads tend to crawl rather than hop!







Toads have a strong migratory instinct, following the same route back to their breeding ponds each spring.

This can sadly result in considerable road deaths as streams/water courses flow underneath roads.



Glands
in the toad's
skin contain
powerful
toxins to deter
predators.

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TAWNY OWL



...in the UK, under the Birds of Conservation Concern List.

Breeding

Nesting usually takes place in spring in hollow trees or an old crow's nest.

There are thought to be about 50,000 breeding pairs in the UK, but...

> ...Tawny Owls only breed when there is sufficient prey.

Numbers of field voles - a main food source - are thought to have declined recently.

Threats

Urbanisation and habitat loss are thought to be threatening the species.



- Extremely varied diet which includes small mammals and rodents, small birds, frogs, fish, insects and worms.
- Tawnies are perch and pounce hunters, dropping on prey as it passes the nest site.



The tawny owl is nocturnal, so it is often heard calling at night.



- Widespread throughout England, Wales and Scotland
- Farmland, woodland, parks, towns and large gardens

Did you know?

The famous
'twit-twoo' call, is
actually made up of
a 'ke-wick' sound
from a female and
an answering
'hoo-hoo-ooo'
from a male







Tawny owls can famously turn their head through 270 degrees and are able to look behind them!





- ✓ Provides a safe space for breeding
- An upright box, 90cm long, can be fixed to a tree trunk or large branch
- Chimney nestboxes which replicate the hollow ends of large broken branches - can be longer, up to 150cm in length
- Chicks start to explore their surroundings well before fledging, so the box needs to have nearby branches they can climb over
- Tawny Owls are sensitive to disturbance when on eggs so do not approach!







WHO AM 1?

It's time to test your knowledge! If you're unsure, have a flick through this booklet and you'll find the answer. But if you get stuck, have a peek at page 19 ...

I can turn my head 270 degrees.

I have black spots on my belly.

am the UK's fastest declining bird species.

display my antler-like jaws to fight off

5. I am the UK's only venomous snake.

My eggs camouflage bare soil.

I have webbed feet and am suited to a life in water.



eat 3000 insects a

leat 80% of my bodyweight every day.

can easily night!

My feathers are soft and can become saturated in heavy rain.

nut with a small circular hole, the made it!

can travel 2km in a typical day.

Honey is my winter food supply.

l am a forager and gather nectar and pollen from flowers using my long hairy tongue.

I have glands in my skin which help to scare off predators.

Milk-parsley is my favourite food.

roost at an altitude of over 3000 metres.

My hairy legs let me sit on the water's surface.

See our website for details on how to WIN a visit to Suffolk Owl Sanctuary & Nature Centre for your whole class! www.owl-help.org.uk





...in the UK under the Wildlife and Countryside Act, 1981.

If you find a stag beetle, please record it with Suffolk Biodiversity Information

Habitat

- South East England, particularly in South and West London
- Oak woodlands, gardens, hedgerows and parks
- Stag beetles are increasingly under pressure from intensive agriculture and commercial housing developments, meaning that private gardens are becoming even more important as safe havens.

Did you know?

The jaws of the male Stag Beetle look fearsome, but are actually quite weak, making this beetle pretty harmless to humans.

Extinct?

Although still familiar in South Suffolk, the stag beetle is now a priority Biodiversity Action Plan species, and it's feared the beetle may soon become extinct at the edge of its range.



R.I.P.

Wood piles

There are two main requirements for stag beetles; dead wood and minimal disturbance.



Make a wood pile

- ✓ Place logs in partial shade to prevent them drying out
- Fresh logs with bark attached provide ideal long-term habitat The larger the diameter of the ✓ logs, the better
- Partly bury the logs in soil ✓ so they retain moisture
- Place the logs vertically in the ✓ soil as this will further increase the number of visiting insects
- Don't pile logs too high as the timber on the top will dry out
 - Allow plants to grow over them to create shade and humidity



A stag beetle's jaws are large and may prevent it from eating. During it's short adult life it may just suck tree sap for sustenance.



The Stag Beetle is the UK's largest beetle!

Longevity

It can take up to seven years for stag beetle larvae to reach maturity. Adults then live for just a few months in order to breed.











ADDER

Status Protected...

...in the UK under the Wildlife and Countryside Act, 1981.

How to identify

The adder is a greyish snake, with a dark and very distinct zig-zag pattern down its back, and a red eye. Males tend to be more silvery-grey in colour, while females are lighter or reddish-brown.



The adder hunts small mammals such as mice, rats, voles and shrews as well as ground-nesting birds like skylarks and meadow pipit.

Habitat

- Found throughout Britain, from the south coast of England to the far north of Scotland.
- Common in grassland, woodland, moorland and coastal regions.



Adders hibernate from October, emerging in the first warm days of March.

The adder is the UK's only

venomous

Adders only bite when they are disturbed their poison is generally of little danger to humans.

Instead, they use their venom to immobilise and kill their prey.

Threats

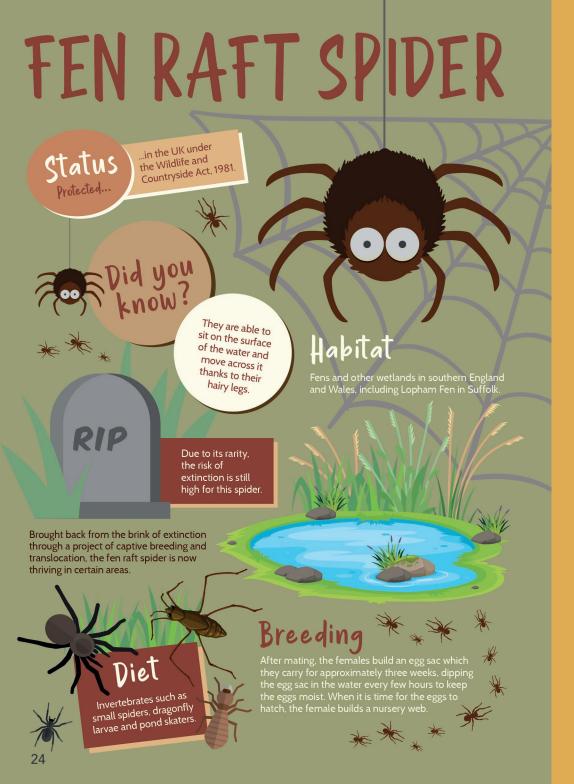
Adders suffer loss of habitat due to human activity such as building and agriculture. Deforestation and scrub encroachment on preferred habitat also impact populations negatively.

Whilst the population has a large range across the UK, a recent decline in numbers merits major conservation concern.





as crows, buzzards and owls



GREAT CRESTED NEWT



STONE CURLEW

...in the UK under the Wildlife and Countryside Act, 1981.

- The Stone curlew is a rare summer visitor to southern England and East Anglia.

- It inhabits dry, open places with bare, stony ground or very short vegetation.

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- Stone curlews nest on dry land with low vegetation, in order to see approaching danger clearly.
- where they are camouflaged

Stone curlews can easily be disturbed, especially by people with dogs, up to 500 metres away!

Threats

Lower levels of grazing by livestock and a decline in the rabbit population has left large tracts of grassland unsuitable for nesting due to taller vegetation.

> Modern intensive farming methods have destroyed much stone curlew habitat.

Many nests have been lost as a result of root crop hoeing and cereal rolling.

Bright vellow eyes, knobbly yellow legs and an eerie call have earned it the names...

Wailing Thick knees

eyed

plover

heath chicken Goggle

Bull nosed swollen knee

Small invertebrates such as beetles, grasshoppers, crickets, ants, earwigs and occasional small reptiles, frogs and rodents.

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TURTLE DOVE



scattered bushes.



Turtle doves are the only long distance migratory dove species in Europe. They
complete annual
migrations to
their wintering
grounds in
West Africa.

They typically return to their breeding grounds during April

Look out for ...

The turtle dove is distinctively mottled with chestnut and black, and its tail is black with a white edge.



Turtle doves are the UK's fastest declining bird species and they are listed as vulnerable on the IUCN Red List.



Population decline has resulted from changes in farming methods. Reduced food supply and less nesting habitat cause a much shorter breeding season.



In 2014 the
RSPB caught a
turtle dove in a
Suffolk garden
(named Titan) and
fitted it with a
satellite tag.

Titan returned in the summer of 2015 with new information about his migratory route and stop off points.



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