

**Managing your Golf Course for Wildlife**

**Kent Wildlife Trust**

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Golf courses present a wide array of habitats, ranging from heathland and woodland to ponds, bare ground and grassland. They can act as stepping stones for wildlife in intensively managed farmland or urban landscapes. The following recommendations are designed to complement the work already being done by many golf course managers and to create a diversity of wildlife-friendly micro-habitats, such as woodland edge, grass margins and habitat piles.

Golf courses can support different habitats ranging from highly managed greens and tees, through less intensively managed fairways and roughs, to non-playing areas of natural habitat. Older courses which were developed from natural areas may support some habitats that have been present for 100 years or more. Even modern courses that have been built on reclaimed or ex-agricultural land contain areas that can be developed to enhance local biodiversity. Such areas can act as 'stepping stones' and provide corridors through which wildlife can move to adjoining natural habitats – acting as part of a wider local landscape and ecosystem.

Many species have quite specific requirements as to food, shelter from predators and nesting habitat. They also each have particular ways of dispersing through the landscape. Therefore, one of the key factors in having a biodiverse-rich site is to create or maintain a wide variety of habitats. Ideally, these should be linked by ditches, hedgerows, woodland shaws, lines of trees and margins of taller grass (what are sometimes referred to as linear corridors). For example, some bat species use hedgerows as flight lines and avoid flying out in open landscape where they are more vulnerable to predation.

Try to link the habitats of your golf course to the wider landscape. Find out what native habitats and species are established in the surrounding area, and formulate your management plan to encourage these. Depending on the soil and geology and drainage, you may get some species and not others.



Grassland strip providing a wildlife corridor. Whitstable and Seasalter Golf Club © KWT

### Grasslands

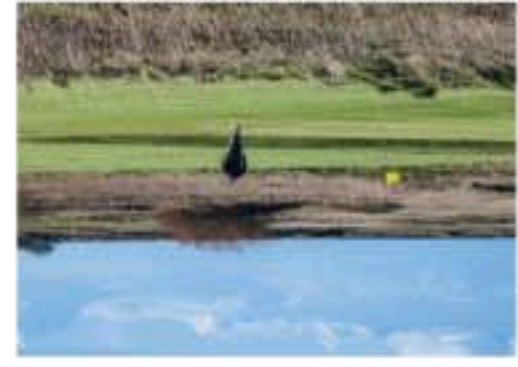
Grassland types will vary hugely throughout the county, depending on management history, current nutrient inputs, soil types, drainage, aspect and many other factors. Many of our species-rich grasslands have disappeared since the Second World War, mainly as a result of agricultural intensification. As a result, not only have many woodland species suffered dramatic declines, but so have the species associated with those habitats such as bumblebees.

Where possible, the aim should be to provide a variety of grassland types, ranging from short to tall vegetation, since this will suit a diverse range of species. Birds such as skylarks may prefer shorter grass where they can detect predators; small mammals might opt for tussocky grass (which provides an excellent hunting ground for barn owls) and some butterfly species will lay their eggs on tall grasses. Cutting should be carried out often enough to prevent succession to scrub, but should allow time for wildflowers to flower and set seed, and not disrupt ground nesting birds. Always remove cuttings to prevent build-up, as this will smother other less competitive grasses and wildflowers and will increase nutrient levels. Compost heaps can be created and provide habitat for reptiles such as grass snakes and slow worms.

Management for tussocky grassland can include the roughs, with cutting carried out on a rotational basis so that some portion of the grassland is cut each year, other parts only every two or three years.

Options to recreate a wildflower meadow will depend on the soil type since Bare ground tends to be warmer than surrounding grassland and is attractive to burrowing insects, which in turn provide a food source for other species. Sand pits, bare ground at the foot of hedgebanks, unsurfaced tracks, paths and parking areas for buglies can all provide suitable habitat.

Grasslands will ensure there is always a mosaic of vegetation available. Standing and fallen deadwood (or woodpiles) provides a valuable resource for many species, including lichens, fungi and invertebrates, which in turn provide a source of food for birds and small mammals. It also provides good hibernating and sheltering sites for invertebrates, reptiles and amphibians so, unless it presents a safety hazard, be sure to leave some in the woodland and on the woodland edge, near scrub and tall vegetation, and in shady and sunny areas. Non-native species such as sycamore and rhododendron will take over so it is important to control them. Failure to do so will mean that species such as rhododendron and cherry laurel (both evergreen) will eventually shade out any understory and ground flora.



Leiston Golf Club, a first port of call for migrant birds every autumn © S. Humphreys

### Woodlands



Buff-tailed bumblebee © R. Moyse

Most woodlands will require some degree of management as many woodland plants rely on sunlight reaching the ground and the loss of those plants from the woodland floor and understory will, in turn, result in a loss of the species which depend on them for food and shelter. Thus some management will be required to let the light back in and this may be carried out through a mixture of thinning and coppicing. Other less drastic means of letting some light back include introducing or restoring paths and rides. Woodland provides a sheltered habitat for a wide variety of plants and animals, including many rarer species, such as the early purple orchid, the hazel dormouse and the serotina bat.

In woodlands which are big enough and where there is a history of coppicing, re-introduce rotational coppicing in areas of no less than 0.25 acres. In smaller woodlands, creating scallops along the edge or along woodland paths will have a similar benefit without having quite such a visual impact.

Woodland edge is known to be particularly species-diverse and creating a more gradual edge with a wide transition from shorter, rough grassland to taller grassland to scrub, shrubs and finally woodland will be very beneficial. Creating scallops on rotation will ensure there is always a mosaic of vegetation available. Woodland edge is known to be particularly species-diverse and creating a more gradual edge with a wide transition from shorter, rough grassland to taller grassland to scrub, shrubs and finally woodland will be very beneficial. Creating scallops on rotation will ensure there is always a mosaic of vegetation available.

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Bluebells in a newly coppiced area © A. Warrle

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### Involving members

Enhancing a golf course for wildlife involves not just the course managers and their staff but also the management committee and the club members. Below are some suggestions for ways in which to bring everyone on board:

- a programme of guided walks and evening talks with local wildlife enthusiasts. Spring dawn chorus walks are popular and avoid disruption to players.
- well designed interpretation boards situated at strategic points on the course, leaflets and a noticeboard with species records in the clubhouse
- grants are sometimes available for management work such as coppicing, including the Environmental Stewardship and England Woodland Grant Schemes. Kent Wildlife Trust can provide help with applying for these grants.
- a number of awards for environmental best practice are available. Why not enter your golf course and show everyone what a wonderful place for wildlife it is? Details are available from the R&A website.
- keep a record of what species have been seen, when and where. In this way, staff can get a sense of how well the local wildlife is responding to any changes in management and can adjust management regimes if need be. Records can be sent to the Kent and Medway Biological Records Centre.
- create a conservation task group, which could include keen members who enjoy practical outdoor work but could also include some other local volunteers. Tasks such as making bat or bird boxes, scything, raking up cuttings, coppicing by hand and creating log piles are all popular activities. However, the group could also do some wildlife monitoring such as breeding bird surveys or butterfly transects.
- there are sometimes opportunities around the clubhouse for wildlife gardening, including putting in ponds, native-species hedges, bird feeders and bird boxes. Fruit trees and pollen and nectar-rich wildflower borders can contribute to a wildlife-rich environment and still provide an elegant backdrop to the buildings.



Bat evening at Nizels Golf Club © A. Cheeseman



Kent Wildlife Trust workshop at Wilderness Club © KWT



Award winning wildlife garden © C. Blackburn

### Veteran trees

Veteran trees may be found in habitats including hedgerows, woodland and pasture. They constitute a micro-habitat in their own right by providing features such as song posts and nesting sites for birds including owls, roosting sites for reptiles and amphibians. It also provides a good source of berries for overwintering and migrating birds. Some coppicing on rotation every 2 to 20 years will vary the scrub structure and ensure that some habitat is always left undisturbed. It will also prevent it from turning into woodland or encroaching onto other areas. It is important to do management work outside of the breeding season and to always check for species such as reptiles before starting the work.



Veteran tree, Knole Park © C. Blackburn

Scrub can include anything from bramble to Hawthorn and nettles and is a habitat in its own right which provides vital food, shelter and nesting sites for species such as nightingales, dormice and groups such as reptiles and amphibians. It also provides a good source of berries for overwintering and migrating birds. Some coppicing on rotation every 2 to 20 years will vary the scrub structure and ensure that some habitat is always left undisturbed. It will also prevent it from turning into woodland or encroaching onto other areas. It is important to do management work outside of the breeding season and to always check for species such as reptiles before starting the work.



Middle thrush © A. Lewis

### Ponds and other waterbodies

Ponds are highly beneficial for wildlife and it is unfortunate that many have disappeared from our countryside. Species such as frogs, toads and newts cannot complete their lifecycle without access to ponds or other standing water. A series of ponds across the golf course will act as stepping stones and enable species to disperse across the local landscape.



Pond in the Weald of Kent © KWT

Ponds should only ever be fed from a natural ground source or rainwater. If possible, the pond should have at least some shallow edges since these provide a wider range of habitats for wildlife. The temperature of the water in the shallow areas will be warmer and in dry periods, when the water level drops, there will be a wider area of bare ground exposed which invertebrates will use (the drawdown zone). Different species of plant will colonise the deeper and shallower areas, thus providing a wide range of vegetation for the larvae of species such as dragonflies to shelter in.

A buffer strip of tall grass around ditches, streams and ponds will provide food and shelter for reptiles, amphibians and invertebrates and should link in to nearby wildlife areas such as woodland edge and scrub. It can also act as a filter and prevent run-off from herbicide or fertiliser from entering the water. If possible, make the margin several metres wide.



Four-spot chaser © S. Weeks

If the pond is silting up, then ensure that only one third of the pond is cleared in any one year and only in the winter months. The cleared material should be left beside the pond to enable any animals to return to the water. Check for the presence of great crested newts before doing any management work as these are protected by law.



Boggy area at Whitstable and Seasalter Golf Club © KWT

Invasive species such as New Zealand pigmyweed, Himalayan balsam and Japanese knotweed can be a particular problem and need to be controlled.

ARCADIA Southern Gas Networks

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