





Bourne, Lincolnshire 2016

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# **BOURNE WOOD**

A portrayal of a wood in Kesteven

Richard G Jefferson



# INTRODUCTION

Bourne Wood is situated immediately west of the town of Bourne in the District of South Kesteven in the County of Lincolnshire. It is contiguous with Pillar Wood immediately to the east and in the north incorporates Fox Wood and to the south, Auster Wood. The woodland complex (including Pillar Wood) covers an area of around 300 hectares (741 acres) but for the purposes of this booklet, the focus is on the Forestry Commission (FC) owned Bourne/Fox Wood which amounts to around 225 ha (556 acres). It overlooks the town and the reclaimed fens to its east. It lies at altitudes between 20 and 50 metres with the land generally rising in an east to west direction. The wood is owned by the FC who manage it for timber production, wildlife and informal recreation. A voluntary group, the Friends of Bourne Wood ('The Friends'), organise an annual programme of guided walks and events in the wood and promote its amenity and educational value.





HISTORY & ARCHAEOLOGY	8
GEOLOGY AND SOILS	10
FLORA AND HABITATS	13
FORESTRY	26
CONSERVATION AND AMEN	I <b>ITY</b> 30
SOURCES OF INFORMATION	36



# **HISTORY & ARCHAEOLOGY**

There is evidence that the current wood formed part of a larger area of woodland and forest around Bourne and in Morton and Edenham parishes referred to in the Domesday Book of c.1086. This in turn formed part of a much larger expanse of woodland and forest stretching as far as Northamptonshire known as Brunneswald or Bromswold. Around this time, the major landowner in Bourne was Ogier the Breton whose holding was likely to have included most of Bourne Wood.

Reference to woodland in Bourne appears in charters and surveys throughout the medieval period although it is difficult to attribute these to areas of the current Bourne Wood with any certainty.

Bourne Wood passed into the hands of the Marquis of Exeter possibly soon after the dissolution of the monasteries in the mid-16th Century.

Various relics of mediaeval wood banks can be still be seen in the wood with the best-preserved bank and ditch system following the parish boundary between Edenham (Pillow Wood) and Bourne Wood. This is 3 metres wide and up to 0.7 metres high with a slight ditch, to the west (Figure 2). The purpose of these wood banks was usually to demarcate ownership or to exclude deer.

The earliest map of Bourne Wood is the 1770 Inclosure award. Whilst this map is limited in its depiction of the wood, it does show the eastern boundary but with no internal detail (LAO Bourne Par. 17/1). The Morton Inclosure plan names Fox Wood, referring to it as 'woods in Morton Lordship', though no owner is given, unlike Nab Wood, adjacent to Fox Wood, which was owned by the Earl of Exeter (LAO Kesteven Award 54).

No early maps of Edenham parish, apart from Grundy's book map that does not depict Auster or Pillow Woods (Grundy 1753), are available.

There are references from the 18th Century to Bourne, Auster and Pillow Woods producing annual rental income for the respective landlords.

From 1815 onwards, the successive Ordnance Survey maps indicate that the outline of the wood has hardly changed to the present day.

There is little by way of information on the management of the wood prior to the 1930s. There is no doubt it would have been an important source of timber (for charcoal, building, thatching spars, tool-making) from early times and, prior to its acquisition by the Forestry Commission, it was thought to have been managed as coppice-with-standards. Various other activities are likely to have been carried out at various times in history such as the keeping of pigs (pannage) and the collection of foodstuffs and the hunting of game. Since acquisition by the Forestry Commission in 1926, it has been managed as a mixed coniferous and broadleaved plantation. Further details are provided in the section on Forestry.

#### Hereward the Wake

Hereward the Wake (c. 1035 - c.1072) was an 11th-century leader of local resistance to the Norman conquest of England. The existence of Hereward is not generally disputed, though accounts of his life and deeds almost certainly contain exaggerations and some outright fictions.



Hereward's base, when leading the rebellion against the Norman rulers, was in the Isle of Ely, and according to legend, he roamed The Fens, covering north Cambridgeshire, southern Lincolnshire and west Norfolk, leading popular opposition to William the Conqueror.

The earliest references to his parentage make him the son of Edith, a descendent of Oslac of York, and Leofric of Bourne, nephew of Ralph the Staller. Alternatively, it has also been argued that Leofric, Earl of Mercia and his wife Lady Godiva were Hereward's real parents. There is no evidence for this, and Abbot Brand of Peterborough, stated that his place of birth is supposed to be in or near Bourne in Lincolnshire. However, it is now thought that Hereward was the nephew of Abbot Brand of Peterborough and his father was Asketil, one of the Abbot's brothers.

The Domesday Book shows that a man named Hereward held lands in the parishes of Witham-on-the-Hill and Barholm with Stow in the south western corner of Lincolnshire as a tenant of Peterborough Abbey, prior to his exile. Since the holdings of abbeys could be widely dispersed across parishes, the precise location of his personal holdings is uncertain but was certainly somewhere in south Lincolnshire.

Charles Kingsley's 1865 novel Hereward the Wake: the Last of the English elevated Hereward to the position of a national hero. Hereward the Wake, around 1071, sought refuge in the Brunneswald forest, and it is rumoured that he may have found sanctuary in Bourne Wood.



# **GEOLOGY AND SOILS**

The ridge (the Kesteven Plateau) upon which Bourne Wood stands above the fens is composed of rocks laid down during the Middle Jurassic (176 to 161 million years ago). The sediments that form these rocks were deposited in shallow, tropical seas. Evidence for such a climate may be seen in some of the fossils that occur in the field brash in the area surrounding the woods. Apart from fossil oysters, the remains of extinct animals such as ammonites and belemnites, corals are also present. Coral reefs are today generally restricted to areas where sea-water temperatures are greater than 25-29°C or between latitudes 30°N and 30°S. The Jurassic sediments that directly underlie Bourne Wood consist (in ascending order) of the Cornbrash Formation (ironrich limestones), the Kellaways Clay (mudstone) and Kellaways Sand (sands and silts with seams of shells) Members of the Kellaways Formation and the Oxford Clay Formation (a stiff blue-grey mudstone).

Boulder clay (or till) forms a discontinuous blanket that rests on the Jurassic sediments, particularly on the Oxford Clay along the top of the ridge. It consists of ground up rock and larger rock fragments formed by the erosion of the bedrock that took place below the ice sheet or glacier. This material was transported by the ice sheet to other locations where, if the ice was wasted (melted), the rock flour and fragments were deposited as boulder clay. The boulder clay in and around Bourne Wood may be seen in the roots of fallen trees, ditches, and ploughed field, where pebbles of red sandstone, flint and chalk may be found. The red sandstones are Triassic sandstones, the nearest outcrops of which are in Nottinghamshire, whilst the nearest chalk is on the Lincolnshire and Yorkshire Wolds. This particular till is probably attributable to the Wolstonian Stage of the late Middle Pleistocene, approximately 350,000-130,000 years ago.

Together, these rocks influence the nature of the soils and the drainage of the woods in ways that are reflected in the vegetation and land-use of the woods and surrounding area. The other factor is that Bourne Wood is situated in an area of England with low rainfall; around 24 inches (610mm) per annum.

Approximately two-thirds of the area of the woods rest on Oxford Clay and boulder clay. This is reflected in soils that are clayey or loamy, slowly permeable, seasonally wet and slightly acid, although they may be base rich in composition. The Oxford Clay is particularly impermeable, and generates thin soils that may be water-logged in winter and concrete in summer. Where they have been disturbed (such as around the ponds) the soils are very slow to recover. Where the boulder clay is thickest on the ridge, the soils may be better drained, and the presence of chalk in the till makes them base-rich and suitable for agriculture. A significant portion of the woodlands (particularly ancient woodlands) in South Kesteven appear to be associated with the distribution of boulder clay and Oxford Clay. This is likely to reflect the poor agricultural properties of the soils (particularly on the Oxford Clay). These woodlands may have survived because of the poor agricultural value of the soils they rest on.

The eastern side of the woods are largely underlain by the Kellaways Sand Member, which generates free draining, slightly acid, permeable soils. Parts of this area support a ground flora dominated by bluebell and wood anemone with occasional wood sorrel. Beyond the woods, the fields to the east and north are underlain by the Cornbrash Formation. This iron-rich limestone produces freely draining, lime-rich, loamy soils, and as indicated by its name, this rock and its associated soils are good for arable and cereals in particular.





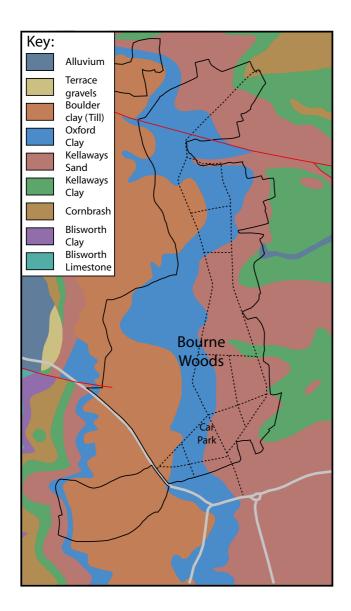


Figure 1: Generalised geology of the Bourne Wood area.

Reproduced with permission of the British Geological Survey

# FLORA AND HABITATS

# Woodland and ponds

Bourne Wood is listed on the Ancient Woodland Inventory for England as a Planted Ancient Woodland site (PAWS).

Ancient woodland is defined as an area that has been continuously wooded since at least 1600 AD.

'Continuously wooded' in the definition does not require there to have been a continuous physical cover of trees. For example, many woods will have been subject to felling and replanting and coppicing as part of regular woodland management. Planted ancient woodlands are ancient woodlands where the former native tree cover has been felled and replaced by planted trees. These will include conifers such as Corsican pine or European larch but also broadleaves such as pedunculate oak and wild cherry.

The wood is one of the largest ancient woods in Lincolnshire. It occurs on the South Kesteven plateau which is one of 3 main concentrations of ancient woodland in Lincolnshire. Lincolnshire has some of the lowest cover of ancient woodland in England.

Although the Wood has been substantially modified in the 20th Century by silviculture, most notably by replanting of some blocks with conifers, it has nonetheless retained much of the wildlife typical of less modified ancient woods.

### **Ponds**

In 1972, the ponds were constructed in the northern part of Bourne Wood. The ponds were instigated by the then forester, Mr Parker, who was a keen fisherman and naturalist. The original plan was to construct one large pond. However, this would have required a large dam and there was a concern that if this gave way it might flood Bourne! Hence two smaller ponds were constructed.

#### **Flora**

Bourne Wood has a very rich flora and 283 species of flowering plants and ferns have been recorded over the last 40 years including trees, shrubs, herbs, grasses, sedges and rushes. The full list of species can be found at Appendix 1. This includes introductions, such as the various trees that have been planted for commercial forestry purposes.

Of these, 72 are so-called Ancient Woodland Indicators (AWIs) and II species are scarce or rare in Lincolnshire (Appendix I). The herbaceous AWIs are species that are usually long-lived perennials which spread very slowly, often having heavy seeds. They are thus poor colonists of more recently established woodlands due to their poor powers of dispersal and their inability to tolerate the competition from more vigorous plants that are typical of newly planted woodland on more fertile soils.

These include relatively widespread species such as the iconic bluebell, dog's mercury, wood sorrel, wood anemone, pignut, wild garlic, yellow archangel and the grasses, wood melick and wood millet. Rarer species include herb paris, early purple orchid, wood vetch, wood spurge and nettle-leaved bellflower.

Trees and shrubs of particular note include wild service, small-leaved lime, aspen, Midland hawthorn and spindle.



The wood is also important for its rich assemblage of plant species typical of semi-natural dry grasslands and damp habitats such as marshes and wet grasslands associated with the rides. The former include species such as devil's bit-scabious, betony, common knapweed, yellow meadow vetchling, tormentil and beautiful St John's-wort. Marsh species include bugle, wild angelica, greater bird's-foot trefoil, marsh bedstraw, meadowsweet, ragged robin and creeping jenny.

Many of these plants are now rare in the surrounding countryside due to the large losses of wildflower-rich grasslands and marshes over the last 60 years.

The ponds have added additional new habitat to the wood supporting wetland and aquatic plants and invertebrates including dragonflies and damselflies. At the time of writing, the ponds are gradually silting up and reedmace is increasing.

### Mosses and liverworts

Although not fully documented, the wood supports a diverse range of mosses and liverworts. Typical species associated with ancient woodland include common striated feather-moss (*Eurhynchium striatum*), hart's-tongue thyme-moss (*Plagiomnium undulatum*) greater featherwort (*Plagiochila asplenioides*) and common tamarisk-moss (*Thuidium tamariscinum*).

# **National Vegetation Classification**

The wood has not been mapped using the National Vegetation Classification, although it would appear that two NVC types are present, W8 Acer campestre-Fraxinus excelsior- Mercurialis perennis woodland associated with clay soils over Oxford

Clay and Till deposits, and W10 *Quercus robur-Pteridium aquilinum-Rubus fruticosus* woodland associated with soils over the Kellaways sand.

### Small-leaved lime or Pry tree

This is one of our most beautiful trees and has a fascinating history and ecology and a long association with human activities. It is tolerant of a wide range of soil conditions ranging from acid to alkaline. In its heartland, in parts of eastern England, it can be so abundant as to justify the use of 'lime' as an epithet. An example would be the Lincolnshire limewoods to the east of Lincoln. In Bourne Wood it is only occasionally found. The Anglo-Saxon word Linde refers to the tree and has given rise to place names such as Linwood near Market Rasen. Lime is a longlived tree and has been managed for coppice, producing poles and charcoal, and the light but strong even-grained wood was used for furniture, panelling, wooden objects such as food containers, toys and piano and organ keys. The bast from this tree has been used since ancient times for making low grade string and cordage. Lime flowers were important in honey production. Lime wood was frequently used by the 17th-century master carver Grinling Gibbons who produced decorative carvings for Burghley House, Blenheim Palace, Hampton Court and St Paul's Cathedral.





#### Wood vetch

Wood vetch is a robust, sprawling or climbing perennial of the pea family. It is a handsome plant with whitish flowers with purplish veins reaching 5 or 6 feet in height (to 200 cm). The fruit is like a small black peapod. It occurs in wood borders, scrub and cliffs throughout Great Britain but is rather uncommon. It is rare in eastern and south eastern England including Lincolnshire (Appendix 1).

### Early purple orchid

Early purple orchid is strongly associated with ancient woodlands and limestone grassland. It is one our earliest flowering orchids and is in flower from April until early June. It has a large number of local names, including Goosey ganders and Adder's meat, suggesting that it was once very widespread and abundant.

### Wood spurge

A perennial plant with evergreen leaves topped by yellowish-green flowers. It is known as Devils cup and saucer in south-west England. This plant reaches the northern edge of its British distribution in south Lincolnshire. It prefers the lighter parts of woods especially along the edge of woodland rides and thrives in woods managed by coppicing. It is strongly associated with ancient woodland. Like most members of the spurge family, it contains a poisonous milky white latex-like sap. It is sometimes cultivated in gardens.

### The Wild service or Chequer tree

A widespread but rather uncommon medium-sized deciduous tree (up to 25m) that is largely confined to ancient woodland. It has a marked preference for woods on heavy clays or soils over limestone. It is most abundant in southern and central England and reaches its northern limit in Cumbria. In Lincolnshire, it is generally rare except in its two main centres in south Kesteven (including around Bourne) and the Bardney Forest area, east of Lincoln. It is easily overlooked as it usually occurs as single individuals but these can form suckers giving rise to a group of stems. The tree has distinctive maple-like leaves with sharply pointed triangular lobes.

The creamy-white flowers appear in May and are pollinated by insects. The orange-brown egg-shaped fruits develop in September. They were formerly used as a flavouring for beer and as a herbal remedy for indigestion. The patterned fruits are thought to be the reason why it is known as the chequer tree. The fruits are edible when they have been allowed to over-ripen by storage (bletting). Birds such as song thrush and redwing will feed on the fruits while marsh tits have been observed extracting the seeds.

# **Fungi**

The fungi of the wood have been reasonably well documented. A species list, however, has not been included here as there are many species and very few fungi have English names. A list is available on request. The text box gives a selection of species some showy, some familiar and others with

# Some Bourne Wood fungi

**Chicken in the woods** (*Laetiporus sulphureus*) A bright yellow to orange bracket fungus on the trunks of a wide range of trees. Strips of the dried fleshy brackets were used in the past as tinder known as amadou.

**Fly agaric** (*Amanita muscari*) A familiar toadstool with a scarlet to orange-red cap flecked with small white patches. Poisonous and used as an intoxicant alcohol substitute. Associated with birch but sometimes with pines, spruce and beech.

**Puff balls** (*Lycoperdon* species) Often pear-shaped or sack-like spheres which are white or pale brown in colour. At maturity the 'sack' ruptures and spores are propelled into the air when touched or when hit by rain drops.

**Honey fungus (***Armillaria mellea* agg) Cap yellow-brown. A destructive root parasite. On deciduous and coniferous trees. The mycelium is luminescent and infected wood will glow in the dark.

Parasol mushroom (Lepiota procera) Cap greyish-brown with dark brown scales. Edible.

**Shaggy cap (Coprinus comatus)** Cap white at first with shaggy scales. Gills pink- white at first turning black with age. Edible when young.

**Dog's stink horn (***Phallus impudicus***)** The fungus initially develops as a pale brown egg-like structure which then develops a long hollow cylinder topped by a black, slimy mass of spores smelling of rotting flesh which attracts flies. These then spread the spores.

**Sulphur tuft** (*Hypholoma fasciculare*) Cap sulphur-yellow, gills yellow-green. On tree stumps.

**Horse mushroom** (*Agaricus arvensis*) A close relative of the field and wood mushrooms. Grassy rides. Edible.

**Earth star (Geastrum striatum)** A curious brown fungus with arm-like segments which support a central 'head' which is a puff ball containing the spores.



## **Fauna**

#### Birds

Appendix 2 lists the birds recorded from Bourne Wood. The bird fauna is fairly typical of a large wood in the eastern English lowlands. The Lincolnshire Bird Club undertakes regular bird ringing in the Wood. This activity provides an insight into bird movements in the UK and Europe. Some bird species are surprisingly mobile. Common and lesser redpolls and siskins ringed in the wood breed further north in Scotland and Scandinavia. Siskins ringed in Bourne Wood have been recovered in various places in the UK such as Scotland and from Sweden and the Low countries.

#### Buzzard

The buzzard is a medium-sized bird of prey or raptor that may be seen soaring above woods and farmland looking for prey. It has a distinctive flying shape, with broad wings and a fanned tail, and a very distinctive call, which sounds like the mewing of a cat.

This species has undergone a major expansion over recent decades and is now widespread across Great Britain. This has been primarily due to a reduction in persecution. It nests mostly in mature trees in woodland. It feeds on a wide range of mammals and smaller birds but also on carrion and invertebrates. Rabbits, rodents and small birds often make up a high proportion of the diet in many areas. Bourne Wood has several nesting pairs.

#### Eurasian woodcock

This secretive wader is primarily a woodland species. It relies on its cryptic camouflage to avoid detection. It is beautifully coloured to resemble the dead leaves and bracken found in its typical woodland habitat. The male display during the breeding season (commencing in late February) is called 'roding' where it flies low above the tree tops with a series of grunt and whistle calls searching for a female in the woods below. Woodcock feed on invertebrates, especially earthworms. In winter, woodcock may feed at night on pastureland and roost there during the day.

The resident British population is supplemented in winter by an influx of continental birds from Eastern Europe and Scandinavia. It is a widespread British breeding species but it has declined since the 1980s possibly due to increased deer numbers, recreational disturbance, loss of permanent pasture and changes in woodland management.

# Nightingale

A migrant, insectivorous species, whose breeding range is south of a line from the Severn to the Humber. Birds tend to arrive in mid to late April and begin nesting in May. Nightingales nest on or near the ground. They leave in late August or early September. It is well towards the northern edge of range in Lincolnshire but is now only sporadically recorded in Bourne Wood. This is possibly due to lack of suitable habitat (it likes dense young coppice) and possibly increases in deer but other factors that might have contributed to its decline include pressures on migration and loss of wintering habitats in west Africa. It is famed for its rich and varied song delivered from dense cover and best heard around dawn.





### **Mammals**

Appendix table 3 list all the mammals that have been recorded from the wood. It includes 9 species of bat. Of particular note are the colonies of the scarce Leisler's bat and Barbastelle bat, the latter is a rare species of conservation priority under the England Biodiversity Strategy and European Community Habitats and Species Directive.

#### Noctule

The Noctule is the largest British bat with a wingspan of up to 45cm. It is a fast flier capable of travelling long distances. The Noctule is one of the earliest to emerge in spring and summer evenings. It forages over lakes, ponds, marshland and meadows where it feeds on flies, beetles and moths. It mostly roosts and hibernates in tree holes. While it remains widely distributed in England and Wales, it is becoming more localised especially in intensively farmed areas lacking suitable roosting and feeding habitats.

### Leisler's bat

This bat, formerly known as the hairy-armed bat, is rather scarce in Britain and is absent from Wales, rare in Scotland but widespread in Ireland. It is similar to the noctule but smaller (wing span 26-34 cm) but, like its bigger relative, the noctule, it is a fast flier and can forage over long distances from the roost. In Bourne Wood it has used bat boxes. It prefers to forage over open habitats such as wood margins and pastures and roosts in trees and buildings. Leisler's bat feeds mostly on flies but also on moths and beetles. It probably hibernates in tree holes.

There are 3 species of deer occurring in and around the wood. Fallow deer tend to be most often seen whereas the introduced muntjac and native roe deer are more elusive. The muntjac has increased greatly in recent years and has spread across much of central England.

Although people enjoy seeing and watching deer, unfortunately their growing numbers are of increasing concern across Great Britain and are having negative impacts on woodland wildlife reducing the abundance and mixture of the characteristic woodland plants, birds, small mammals and invertebrates.

# **Amphibians and reptiles**

Six species of amphibians and reptiles have been recorded from Bourne Wood (Appendix 4), all generally widespread and common species.

#### Grass snake

The grass snake is Britain's largest snake reaching up to 130 cm in length. It is non-venomous and harmless. Grass snakes are wary, fast moving reptiles which are difficult to observe. It occurs in rough grassland and other tall vegetation and usually stays fairly close to water. The top and flanks are olive green, grey or brown with a row of black bars along each flank. The underside is white or cream with black chequers. It has a distinctive yellow/cream/white and black neck collar. Eggs (up to 40) are laid in June and July and the hatchlings emerge in autumn. It feeds mostly on amphibians but may occasionally eat small fish.



### Invertebrates

#### **Butterflies**

Twenty six species of butterflies have been recorded from Bourne Wood (Appendix 5). This includes some species which are confined to woodland or woodland edge habitats such as purple hairstreak, white-letter hairstreak and white admiral. The adults of the first-named species, whose caterpillars feed on pedunculate oak, are rarely seen as they spend most of their time in the tree tops feeding on honeydew, especially on sunny summer evenings. White letter hairstreak adults are elusive for similar reasons. White admiral is a southern species and reaches the northern limit of its British distribution in Lincolnshire, where it is rather local.

#### White admiral

This attractive black and white butterfly of woodlands is on the wing in early July until mid-August. It has a distinctive flight with short periods of wing beats followed by long glides. The caterpillars feed on honeysuckle (*Lonicera pericyclamen*) which is abundant in the wood as is bramble, which provides nectar for the adults.





### Moths

Appendix 6 lists the moths recorded from the wood. This is likely to be only a partial reflection of the wood's moth diversity. The text box provides information on two scarcer species.

## Light orange underwing

A rather scarce day-flying moth appearing orangebrown in flight. The adults may be seen flying high around aspen trees, the larval food plant, in open woodland in March and April. It is confined to southern England and reaches the northern limit of its distribution in Lincolnshire.

### **Angle-striped Sallow**

A scarce species with two main areas of scattered distribution, in central England and central Scotland. It inhabits heaths and open woodland and is on the wing in August and September. The larvae feed on silver birch (*Betula pendula*) and downy birch (*B. pubescens*) and occasionally aspen. It is closely associated with large sites where there has been a long continuity of the presence of its larval food plants.

# **Dragonflies**

Appendix 7 lists the dragonflies and damselflies recorded from the Wood.

Some species recorded will no doubt be breeding in the ponds or other water bodies in the Wood while others will be 'wanderers' from nearby habitats. It is known that some species can range over distances of more than a kilometre (0.6 mile).

### The four-spotted Chaser

This dragonfly has a brown, black-tipped, broad and stout abdomen. The larvae occur in a wide variety of water bodies including ponds and slow-flowing streams. The adults are strong fliers and may be encountered far from their usual breeding sites. The male dragonflies are strongly territorial. The species is on the wing from late May until mid-August. They may often be seen perching on tall plants near their breeding habitats. The species is widespread in Great Britain and, in midsummer the population is supplemented by migrants from the Continent.

### Other invertebrates

There has been some limited recording of other invertebrate groups in Bourne Wood especially flies and beetles. However, it is probable that the wood is of value for other invertebrates given its size and botanical richness but its heavy modification by planting, lack of structural variation and lack of old trees and standing dead wood has reduced its overall value.

Several species of long horn beetles and the malachite beetle have been recorded from Bourne Wood. The adults of these beetles feed on flowers whereas the larvae occur in decaying wood. A number of hoverflies have also been recorded including the rather local species Helophilus hybridus, the adults of which may be seen around the ponds or ditch margins and Melangyna quadrimaculata, which can be found on blackthorn blossom and the catkins of willows and hazel in spring.

# **FORESTRY**

The Forestry Commission was established in 1919 and charged with the single aim of establishing a strategic reserve of timber. This move was a reaction to the problem of importing sufficient timber to satisfy our wartime demands as a direct result of the U-boat blockade. In establishing the FC the government of the day decided that replanting woodlands devastated by the war effort and expanding productive forests to create this home grown reserve was of such national importance that it would be achieved irrespective of cost. Many private land owners whose own financial security had been undermined by both the war and the social changes which followed were only too pleased to avoid the costs of replanting woodland by leasing or selling their land to the newly formed FC. As part of the drive to acquire land for planting in 1926 the FC acquired the freehold and leaseholds of Bourne Wood from the Grimsthorpe estate.

Felling during the war had left the woodland as mainly scrub or sapling cover that included re-generating hazel, pedunculate oak, silver birch, small-leaved lime, wild service, aspen and hawthorn but also much ash.

During the 1920s, there was an overwhelming demand for softwood from coniferous species and the smaller demand for hardwood could already be met from existing woods. Over the next decade in Bourne Wood, a substantial restocking program began. Mainly light-demanding species were chosen including Sitka spruce and European larch, although some moderately shade-tolerant Douglas fir was also planted. This would have seen much of the woodland scrub cover removed to allow the light demanding species to establish and it appears from

looking on the ground today, that a proportion of ash regeneration was also accepted into the plantations. In the case of Douglas fir, a common practice was to leave a light overstorey to assist its establishment and ash would have been considered a suitable 'nurse' for Douglas fir in this way. In the 1930s, labour shortages were commonplace with both migrant workers and also contractors used to assist. The contractors would purchase the standing wood with fencing materials reaching a premium price and the rest generally being sold as firewood.

During this time attempts were made to kill the remaining oak by introducing herbicide into the stems using the Jim Gem hatchet. This had mixed results with some trees forming a protective zone along the medullary rays so preventing further spread of the herbicide and thereby surviving the ordeal.

The majority of the restocking/conversion to high forest took place between 1927 and 1932. The work appears to have been done in a systematic fashion starting at the northernmost point, Fox Wood and working south and east. By 1932, 80% of Bourne Wood would have been young conifer plantation and would have looked very different to today.

From 1932 to 1949 there appears to have been a break in the planting works and one can only assume that this was down to the Second World War, or at least the latter part would have been. It is not clear if tending operations such as weeding and cleaning continued during the war years when land girls often took on this role, but it can be assumed that between 1932 and at least 1938/9 weeding and cleaning would have taken place otherwise it is very doubtful that the young trees would have

established so well. These establishment operations and the lack of labour would have certainly meant a switch in the works focus. It is also very likely that at this point much of the invasive ash and broadleaves present would have gained more of a foot hold in the wood.

Planting work recommenced in 1950 through until 1960 with a large restocking program being undertaken. However, interestingly, European larch did not feature in this program and, in some areas, it appears that some of the original larch planting was removed and replanted with a different tree species, including Norway spruce. An example of this is the strip of Douglas fir planted close to the

car park that exists today. This crop change may well have been a result of the excellent growth and form the original Douglas fir plantation had shown as can still be seen today. What is clear however, is that both Sitka spruce and European larch had fallen from favour in the second tranche of plantings. The systematic plantings continued with the western side of the woodland receiving the lion's share of the works. It is interesting to speculate on the effects of the cold winds from the east on the original plantings on that side. Both the north and eastern sides of the wood had been planted first and one assumes this was deliberate in order to establish shelter for subsequent plantings but this may have led to poor form for these original trees.



On the western side species choice was again fastgrowing conifers but some areas were a mixture of oak and Norway spruce. The oak remains today and has just been thinned. However, the Norway spruce was removed in the late 1990s as it was deemed to be suffering from stress induced by drought and therefore was under threat from pests entering the eastern ports in containers of timber, being close to the Al this could act as a staging post for these pests to work their way north to the Sitka plantations of Scotland. The removal of the Northamptonshire Forest District blocks would give a significant gap to this movement, the main concern coming from the European spruce bark beetle (Ips typographus) one of which had been caught in pheromone traps in the port of Felixstowe the previous year. Interestingly the Germans had suffered the same problems with their spruce some 100 or so years previously and this had been one of the triggers for them to adopt continuous cover systems of management as they realised the problem was largely man-made.

As previously mentioned, the species choice was mainly conifer and this time the planting included Western red cedar and Corsican pine, both plantations can still be seen on the western edge of the wood and both are of very good form. More Douglas fir was planted as was some Western Hemlock. There is also mention of under planting hazel with oak, direct seeding of pasture with acorns and also beech plantations being established but these could be in the wider Bourne Wood area, a triangle stretching from Bourne to Grantham to Stamford.

Small scale restocking can again be seen in the 1970s when European larch began to be replaced

by Corsican pine and this could well be in response to the form the earlier plantings had shown.

The access roads and tracks were mostly built between the two world wars except the one linking the A151 with 5 ways. This was constructed in the 1970s to facilitate timber removal which was increasingly by lorry.

The last 60 years have seen significant changes in the methods of ground preparation, planting and timber extraction. In the 1950s and 1960s trees were manually felled and the timber taken out by tractor. In contrast, today, the timber is sold standing and buyers employ contactors who use large wheeled or tracked harvesting machines to fell and process the trees into logs. A forwarder then transports the timber to a landing place for subsequent uplift and haulage to the saw mill by lorry. There has also been a shift over this time frame from small local contractors supplying mostly local markets to the larger contractors of today supplying timber to saw mills for pulp, building materials and fence panels.

Bourne Wood is also featured in an FC publication on forest design; a book written by Dr Simon Bell who, during the 1990s was a leading light in forest design.

During the 1980s in response to the FC broadleaf policy some of the larch plantations were felled and sessile oak was planted to replace it.

During the 1990 and early 2000s the district undertook to remove much of the Norway spruce from its woodlands including Bourne, as mentioned above.

In 2001, as a direct response to this and the issues surrounding restocking on heavy clay soils of the area along with the serious problems caused to woodland regeneration by the high and increasing deer population the Ancient Woodland Project was launched. Leading on from this the FC launched its Keepers in time policy and both introduced a change of emphasis in management towards more native species. During this period large scale removal of conifers took place throughout Northamptonshire Forest District to encourage the regeneration of native broadleaves. The current decade may well be remembered for being the one when we started to understand the way that climate change would impact on our woods and forests and when our thinking and management became more clearly focussed on maintaining viable woods for the future rather than on a nostalgic search for the past.

Growing trees is a long term business and woodlands are complex and dynamic 'creatures' with many, often conflicting, demands placed on them. They are a home to wildlife and places we all like to visit for a whole range of different reasons, they are important features in the landscape and alongside all of this, they also produce a vital renewable resource which we all use every day. As a result a good forester needs to have sound judgement, the ability to plan and steer a steady course through many constantly changing factors, and a crystal ball to be sure that the decisions made today will still be the right ones in decades and centuries to come. It has been said that a forester needs a cold heart and a sharp axe as cutting down a tree which has stood for decades is no easy thing to do (spiritually or physically) but the ongoing process of removing a proportion of the

mature trees to make way for the next generation is essential to maintain the health and vigour of our woods and preserve them for the future.

# **CONSERVATION AND AMENITY**

# **Conservation of biodiversity**

Bourne Wood is included on the national inventory of Ancient Woodlands and is designated as a Local Wildlife Site (LWS). Both of these provide some protection from inappropriate changes in land use, particularly development. However, the overall richness of flora and range of other wildlife interests point to the wood being of national wildlife importance despite it currently lacking any statutory conservation designation.

Local Authorities have a vital role in ensuring the conservation of Ancient Woodland especially through the planning system. The National Planning Policy Framework (NPPF) 2012 contains policies that aim to prevent the loss or damage to Ancient Woodland and other important habitats and species and states that:

'Planning permission should be refused for development resulting in loss or deterioration of important habitats including ancient woodland... unless the need for, and benefits of, the development in that location clearly outweigh the loss'

The South Kesteven District Council (SKDC) Core Strategy Development Plan replaces the Local Plan adopted in 1995 and sets out the long term spatial vision for the District, and the spatial objectives and strategic policies to deliver that vision. This contains a policy ENI for the protection of wildlife, geological and archaeological sites as consistent with the NPPF.

Lowland mixed deciduous woodland (of which Bourne Wood is an example) is also a priority habitat under the Biodiversity Action Plan listed in section 41 of the Natural Environment and Communities Act where every public body must in exercising its functions have regard to the purpose of conserving biodiversity.

From the 1970s onwards, conservation and amenity considerations became a higher priority in forestry. Concern about the continuing loss of area and character of ancient woods contributed to the Government's decision to introduce the Broadleaves Policy in 1985. The Broadleaves Policy aims to maintain and increase the broadleaved woodland by encouraging good management for a wide range of objectives and giving special attention to ancient semi-natural woodlands to maintain their special features. It has generally been very successful in encouraging the expansion and better management of broadleaved woodland and in preventing further losses of ancient semi natural broadleaved woodland. The long-term goal for Bourne Wood is to restore it to broadleaved woodland.

### **Public access and facilities**

Figure 2 provides details of the location of the various facilities described in detail in the following sections.

Bourne Wood receives a large but unquantified number of visitors annually. A rough estimate is that the wood receives in excess of 100, 000 visitors annually. A recent questionnaire survey by FC in 2008 revealed that a large proportion of visitors travel less than 25 miles to visit the wood. The majority of these are from Bourne and its surrounding villages and, to a lesser extent from Sleaford, Spalding and the Deepings. The majority of visitors come by car and the main activity is to obtain 'fresh air and exercise' often combined with walking a dog. Other activities include cycling, running and horse riding.





### Car parking

The growth in visitors to Bourne Wood and the increasing emphasis by FC on catering for recreation and amenity led to the construction of a new car park and recreational complex in the early 1990s. This replaced an original car parking facility which had limited capacity. The large car park, constructed of compacted stone, is situated at Grid reference TF079203. Access to the car park, which is signposted, is via the A151 Bourne to Colsterworth Road opposite Auster Wood.

#### Pedestrian access

Public access is confined to the FC owned Bourne Wood. There is no public access to the adjacent Pillar Wood which is privately owned.

The wood is criss-crossed by many paths and tracks of varying widths and surfaces. A few are composed of compacted stone and are thus more suitable for walking with regular footwear and for access with wheelchairs and pushchairs. The remainder are grass or rough tracks. For example, there is a circular easy access route through the wood of about 0.75 mile which is marked on a map on a sign board at the five crossroads (see Figure 2). There is also a picnic table along this trail and a bench.

### Cycling

There is an off road cycle route that runs from the Forest Lodge off Beech Avenue continuing north through the wood and on to Hanthorpe.

### **Public footpaths**

In addition to the informal paths, there are 3 public footpaths that run through the wood:

- From Cawthorpe village running east and cutting through the northern 'neck' of the wood and ending up in Edenham. Part of the footpath is an unsurfaced 'road' between Cawthorpe and Bourne Wood and is known as Wood Lane
- From Beech Avenue running westwards through the southern sector of the wood to the AI51 just north of Auster Wood
- From the western edge of Bourne (Hazelwood Drive, off Beech Avenue) through the pasture field with the Blind (Chalybeate) Well then through the central part of the wood and on to Edenham.

#### **Toilets**

Toilets are situated in the main car park. At the time of writing, the toilets are not routinely open for use. Organisations or groups planning events in the wood can apply to the Friends of Bourne Wood to use the toilets for a small charge.

### Benches and picnic tables

The car park has a number of picnic tables. There are also four other benches situated along some of the main paths (Figure 2).

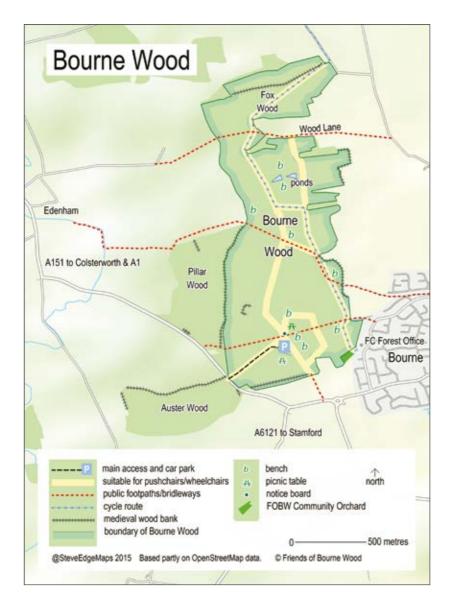


Figure 2: Map of Bourne Wood showing main facilities and access.

# **Sculpture in Bourne Wood**

In 1991, Bourne Wood was selected for a woodland sculpture Project which was supported by FC, South Kesteven District Council, Lincolnshire County Council and The Eastern Arts Board (now Arts Council, England). A number of sculptures were crafted by resident sculptors and children from Bourne Grammar School over a number of years and a sculpture trail was established. The sculptures used a variety of materials, mostly wood but also turves, limestone and concrete.

Some of the sculptures can still be seen but some have since been removed and some are gradually decaying, as was originally envisaged.

Clare Wilks who did the original willow weaving went on to spend a summer living with John Malcovitch the American actor, director, producer, and fashion designer and his family in southern France. Clare created a whole series of sculptures for him in his gardens.





# **Voluntary**

The Friends of Bourne Wood ('the Friends') are a small voluntary group whose objectives are to promote the Wood as a recreational and educational resource for the people of Bourne and surrounding areas. The Friends were formed in 1992 but it wasn't until 1997 that a formal committee was established. Each year, the Friends run a programme of guided walks and events for the local community (see website for further details). The Friends are currently establishing a new community orchard in a field adjacent to the wood near the Forest Office off Beech Avenue.

The Friends have sited woodcrete bird and bat boxes at various locations which have been funded by grants from the Len Pick Trust. The woodcrete boxes are more durable and are woodpecker and squirrel proof. They are well used by species such as blue and great tit and more recently, nuthatch. In addition, there are some tawny owl boxes which normally result in the successful rearing of successful broods of owls.

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## Glossary

## Ammonite

Ammonites are an extinct group of marine invertebrate animals that are more closely related to living octopuses, squid, and cuttlefish. The earliest ammonites appeared during the Devonian geological epoch, and the last species died out during the Cretaceous period.

The name 'ammonite', from which the scientific term is derived, was inspired by the spiral shape of their fossilized shells, which somewhat resemble tightly coiled ram's horns.

#### **Bast**

Bast is the fibrous inner bark or phloem of a plant used as fibre in matting, cord, etc

#### **Belemnite**

Belemnites are an extinct group of marine animals similar in many ways to the modern squids and also closely related to modern cuttlefish. Belemnites were numerous in the Jurassic and Cretaceous periods.

## Coppice, coppicing

Coppicing is a traditional method of woodland management which takes advantage of the fact that many broad-leaved trees make new growth from the stump or roots if cut down. In a coppiced wood, young tree stems are repeatedly cut down to near ground level on a set cycle (e.g. every 7 years). Many broadleaved tree species will coppice, some better than others, but favoured species are hazel, ash, oak and sweet chestnut. Coppicing is a highly effective method of producing a great deal of fast growing, sustainable timber without the need to replant. Coppice timber has been used for thatching spars, turnery (e.g. brush heads, chair legs), fencing, tool handles and firewood.

### Coppice-with-standards

Areas of coppice where a scatter of larger trees, known as standards, were left. These would be cut when they were larger (around 70-80 years of age) and used for building.

## Honeydew

Honeydew is a sugar-rich, sticky liquid secreted by aphids as they feed on the sap of plants. Honeydew is collected by certain species of birds and insects

#### Enclosure/Inclosure

Enclosure (sometimes referred to as Inclosure) is a term used to describe various means of consolidating or extending land-holdings into

larger units. This can include the partition of large areas of land communally farmed under the open field system into small fields farmed by individuals, the conversion of arable land to pasture and the occupation of commons by large landowners, excluding other users. Enclosure awards are legal documents recording the ownership and distribution of the lands enclosed.

#### **Local Wildlife Site**

Local Wildlife Sites (LWSs) are wildlife-rich sites selected for their local nature conservation value. They vary in shape and size and can contain important, distinctive and threatened habitats and species. In many parts of the UK, they are the principal wildlife resource but their designation is non-statutory and their only protection comes via the planning system. They are not legally-protected like SSSIs or National Nature Reserves. Many are owned by private individuals.

## Medullary ray

A thin, vertical band or plate composed of cells that run radially through the trunk/stem of a tree from the pith to the bark and perpendicular to the growth rings. Medullary rays store and transport food materials.

## Mycelium

A mass of underground, branching, thread-like hyphae (long filamentous cells of a fungus) which is the vegetative part of a fungus.

## National Vegetation Classification

The British National Vegetation is a classification of the vegetation of Great Britain published in 5 volumes by Cambridge University Press (British Plant Communities) and edited by John Rodwell

formerly of the University of Lancaster. Vegetation is divided into 256 different types or plant communities. These are grouped into 12 broad groupings or habitats such as woodlands and scrub, heaths, saltmarshes and several types of grassland.

#### Semi-natural

A term used in relation to wildlife habitats which have had some modification by man by traditional but low intensity management practices such as grazing or coppicing, but are composed of mostly of wild native plant and animal species. Examples might include coppiced ancient woodland or chalk grassland or downland and heathland.

## Thinning

In addition to the felling and extraction of the final timber/tree 'crop' at harvestable age in managed forests, a selection of trees are removed at intervals after their initial establishment to reduce the density of trees in a plantation, improve the quality and growth of the remaining trees and produce a saleable final product. This is known as thinning. Normally the first thinning is undertaken when trees have reached between 10 and 14 metres in height but the exact timing is dependent on the tree species, the nature of the local environment and financial and marketing considerations.

## Appendix 1 Bourne Wood vascular plant species list

Acer campestre \*E Acer pseudoplatanus Achillea millefolium Adoxa moschatellina \*C Aegopodium podagraria Aesculus hippocastanum Agrimonia eupatoria Agrimonia procera Agrostis stolonifera Ajuga reptans Alliaria petiolata Allium ursinum \*C Alnus cordata P Alnus glutinosa Alopecurus pratensis Anagallis arvensis Anemone nemorosa + \*B Angelica sylvestris Anthoxanthum odoratum Anthriscus sylvestris Arctium lappa Arctium minus agg Arrhenatherum elatius Artemisia vulgaris Arum maculatum Athyrum felix-femina Azolla filiuloides Ballota nigra Barbarea vulgaris Bellis perennis Betula pendula Betula pubescens Brachypodium sylvaticum Bromus ramosa \*E Bryonia dioica Calamagrostis canescens \*B Calamagrostis epigejos \*E Callictriche stagnalis?

Calystegia sepium Campanula trachelium \*B♦ Capsella bursa-pastoris Cardamine flexuosa Cardamine hirsuta Cardamine pratensis Carduus acanthoides Carex flacca Carex divulsa subsp leersi

Field maple Sycamore Yarrow Moschatel Ground elder Horse chestnut Common agrimony Fragrant agrimony Creeping bent Bugle Garlic mustard Wild garlic Italian alder Alder Meadow foxtail Scarlet pimpernel Wood anemone Wild angelica Sweet vernal grass Cow parsely Greater burdock Burdock False oat grass Mugwort Cuckoo pint Lady fern Water fern Stinking horehound Winter-cress Daisy Silver birch Downy birch Wood false brome Hairy brome White bryony Purple small reed Wood small reed Water starwort Hedge bindweed Nettle-leaved bellflower Shepherd's purse Wavy bitter-cress Hairy bitter-cress Cuckooflower Welted thistle

Glaucous sedge

Grey sedge

Carex otrubae Carex remota \*B Carex spicata Carex strigosa \*A◆ Carex sylvatica \*C Carpinus betula Castanea sativa P Centaurea nigra Centaurium erythraea Cerastium fontanum Chamerion angustifolium Chenopodium album Circaea lutetiana Cirsium arvense Cirsium palustre Cirsium vulgare Clinopodium vulgare Conopodium majus + \*B Cornus sanguinea \*C Corylus avellana \*C Crataegus laevigata \*D Crataegus monogyna Crepis capillaris Cynosurus cristatus Dactylis glomerata Dactylorhiza fuchsii \*B Daucos carota Deschampsia cespitosa Digitalis purpurea Dipsacus fullonum Dryopteris affinis Dryopteris dilatata Dryopteris felix-mas Echium vulgare Elymus caninus \*C Elytrigia repens Epilobium ciliatum Epilobium hirsutum Epilobium montanum Epilobium parviflorum Epipactis helleborine \*B♦ Equisetum telmateia Euonymous europaeas \*B Eupatorium cannabinum \*C Euphorbia amygaloides ♦ ■ \*□ Euphrasia nemorosa agg Fagus sylvatica P

False fox-sedge Remote sedge Spiked sedge Thin-spiked wood-sedge Wood sedge Hornbeam Sweet chestnut Common knapweed Common centaury Mouse-ear chickweed Rose-bay willowherb Fat hen Enchanter's nightshade Creeping thistle Marsh thistle Spear thistle Wild basil Pignut Dogwood Hazel Midland hawthorn Hawthorn Smooth hawk's-beard Crested dog's-tail Cocksfoot Common spotted orchid Wild carrot Tufted hair grass Foxglove Teasel Scaly male fern Broad buckler fern Male fern Viper's bugloss Bearded couch Couch American willowherb Great hairy willowherb Broad-leaved willowherb Hoary willowherb Broad leaved helleborine Great horsetail Spindle Hemp agrimony Wood spurge Eyebright Beech

Festuca gigantea \*E Festuca rubra Filipendula ulmaria Fragaria vesca \*C Fraxinus excelsion Galeopsis tetrahit Galium aparine Galium odoratum \*A Galium palustre Geranium dissectum Geranium pratense Geranium robertianum Geum rivale + \*C Geum urbanum Glechoma hederacea Glyceria fluitans Gnaphalium uliginosum Hedera helix Hieracium spp Heracleum sphondylium Hippurus vulgaris Holcus lanatus Holcus mollis Humulus lupulus \*C Hypericum x desetangsii Hypericum hirsutum + \*B Hypericum maculatum Hypericum perforatum Hypericum pulchrum + \*C Hypericum tetrapterum \*C Ilex aquilifolium \*E

Iris pseudocorus
Juncus acutiflorus
Juncus conglomeratus
Juncus effusus
Juncus inflexus
Knautia arvensis
Koeleria macrantha+
Lactuca serriola
Lamiastrum galeobdolon \*B
Lamium album
Lamium purpureum
Lapsana communis
Larix decidua P
Lathyrus pratensis

Giant fescue Red fescue Meadowsweet Wild strawberry Ash Common hemp

Common hemp nettle Cleavers

Sweet woodruff
Marsh bedstraw
Cut-leaved cranesbill
Meadow cranesbill
Herb Robert
Water avens
Wood avens
Ground ivy

Flote grass Marsh cudweed Ivy

Hawkweed Hogweed Mare's-tail Yorkshire fog Creeping soft grass

Hop Bluebell

Des etangs St John's wort Hairy St John's wort Imperforate St John's-wort Perforate St John's wort Beautiful St John's wort Square stemmed St John's wort

Holly
Yellow flag iris
Sharp-flowered rush
Compact rush
Soft rush
Hard rush
Field scabious
Crested hair-grass
Prickly lettuce

Prickly lettuce
Yellow archangel
White dead nettle
Red dead nettle
Nipplewort
European larch

Yellow meadow vetchling

Lathyrus sylvestris ♦
Leontodon autumnalis
Leucanthemum vulgare
Ligustrum vulgare
Linum catharticum
Listera ovata

Lithospermum officinale
Lolium perenne
Lonicera pericyclamen
Lotus corniculatus
Lotus pedunculatus

Lunaria annua
Luzula campestris
Luzula pilosa \*B
Luzula sylvatica \*A
Lychnis flos cuculi \*B
Lycopus europaeus
Lysimachia nemorum \*A

Lysimachia nummularium \*C Lysimachia vulgaris \*A Lythrum salicaria Malus pumila P Malus sylvatica \*E Malva moschata Malva sylvestris

Matricaria discoidea Medicago lupulina Melica uniflora \*A Melilotus altissimus Mentha aquatica Mentha arvensis Mercurialis perennis \*C Milium effusum \*A

Moehringia trinerva \*E Myosotis arvensis Myosotis sylvatica \*D

Nymphaea alba

Myrhiophyllum spicatum Narcissus pseudonarcissus P

Odontites verna
Ophiglossum vulgatum \*C
Ophrys apifera
Orchis mascula + \*B

Ophrys apifera
Orchis mascula + \*B
Oxalis acetosella + \*B
Papaver rhoeas
Paris quadrifolia \*A◆
Persicaria hydropiper

Narrow-leaved everlasting pea

Autumn hawkbit
Ox-eye daisy
Wild privet
Fairy flax
Twayblade
Common gromwell

Common gromwell
Perennial rye-grass
Honeysuckle
Bird's foot trefoil

Greater bird's foot trefoil Honesty Field wood rush

Field wood rush
Hairy wood-rush
Great wood-rush
Ragged robin
Gipsywort
Yellow pimpernel
Creeping jenny
Yellow loosestrife
Purple loosestrife

Common mallow Pineappleweed Black medick Wood melick Tall Melilot Water mint Corn mint Dog's mercury Wood millet

Apple

Crab apple

Musk mallow

Three-nerved sandwort
Field forget-me-not
Wood forget-me-not
Water milfoil

Daffodil (Daffodil cultivars)

White water lily Red bartsia Adder's tongue fern Bee orchid Early purple orchid

Early purple orchid Wood sorrel Common poppy Herb Paris Water-pepper Persicaria maculosum Petasites hybridus Phalaris arundinacea Picea abies Picea sitchensis P

Pimpinella major ■ \*E Pinus nigra P Pinus sylvestris P Plantago lanceolata

Plantago major Plantanthera chlorantha + \*A ◆

Phleum pratense Pilosella aurantiaca Poa annua Poa nemoralis \*B Poa trivialis Polygonum aviculare

Polystichum aculeatum \*E ◆
Populus balsamifera? P

Populus tremula \*B

Potamogeton lucens Potamogeton natans Potentilla anserina

Potentilla erecta +
Potentilla reptans

Potentilla sterilis \*B

Primula veris P
Primula vulgaris \*B
Prunella vulgaris
Prunus avium \*C, P
Prunus cerasifera P
Prunus spinosa
Pseudotsuga menziesii P
Pteridium aquilinum

Pyrus communis P Quercus cerris P Quercus petraea P Quercus robur PN

Ouercus rubra P

Pulicaria dysenterica

Ranunculus acris Ranunculus ficaria Ranunculus repens Reseda luteola

Reseda luteola Rhamnus catharticus Ribes sanguineum P Rorippa palustris Redshank Butterbur Reed canary grass Norway spruce

Sitka spruce Greater burnet saxifrage

Corsican pine
Scots pine
Ribwort plantain
Greater plantain

Greater butterfly orchid

Timothy
Fox-and-cubs
Annual meadow grass
Wood meadow-grass
Rough stalked meadow grass
Common knotgrass
Hard shield fern

Balsam poplar Aspen Shining pondweed

Broad-leaved pondweed

Silverweed
Tormentil
Creeping cinquefoil

Barren strawberry

Cowslip
Primrose
Self heal
Wild cherry
Cherry Plum
Blackthorn
Douglas fir
Bracken
Fleabane
Pear
Turkey oak
Sessile oak

Red oak Meadow buttercup Lesser celandine

Pedunculate oak

Creeping buttercup Weld Buckthorn Flowering currant Marsh yellow-cress Rorippa sylvestris Rosa arvensis Rosa canina Rubus caesius

Rubus fruticosus agg Rumex acetosa Rumex obtusifolius Rumex sanguineus Salix caprea

Salix cinerea subsp oleifolia Salix x sepulcralis? P

Sambucus nigra
Sanicula europaea \*C
Scrophularia auriculata
Scrophularia nodosa \*B
Senecio aquaticus
Senecio jacobaea
Senecio sylvaticus
Senecio vulgaris
Sherardia arvensis
Silene dioica
Sison amomum

Sonchus arvensis
Sonchus asper
Sorbus aria P
Sorbus aucuparia PN
Sorbus torminalis \*B
Sparganium erectum

Sisymbrium officinale

Stachys officinalis + ■ \*C
Stachys sylvatica
Stellaria graminea
Stellaria holostea \*C
Stellaria media
Stellaria neglecta \*E ◆

Succisa pratensis +
Symphoricarpos albus P
Tamus communis \*E

Taraxacum officinale agg

Taxus baccata P Thuja plicata P Tilia cordata \*B Tilia platyphyllos? P Torilis japonica Tragopogon pratensis

Trifolium campestre

Creeping yellow-cress

Field rose
Dog rose
Dewberry
Bramble
Common sorrel
Broad-leaved dock

Goat willow Grey willow Weeping willow?

Wood dock

Weeping willov Elder Sanicle Water figwort Figwort

Marsh ragwort Hoary ragwort Common ragwort Wood groundsel Groundsel

Wild madder
Red campion
Stone parsley
Hedge mustard
Corn sow thistle
Prickly sow thistle
Whitebeam
Rowan
Wild service

Betony Hedge woundwort Lesser stitchwort Greater stitchwort

Bur reed

Chickweed

Greater chickweed Devil's bit scabious Snowberry Black bryony Dandelion

Yew
Western red cedar
Small leaved lime
Large leaved lime
Hedge parsely
Goat's beard
Hop trefoil

Lesser trefoil Trifolium dubium Trifolium medium Zig-zag clover Trifolium pratense Red clover Trifolium repens White clover Tripleurospermum inodorum Scentless mayweed Western hemlock Tsuga heterophylla Coltsfoot Tussilago farfara Reedmace Typha latifolia Ulex europaeus Gorse Ulmus glabra \*E Wych elm Urtica dioica Stinging nettle Valeriana officinalis \*B Common valerian Veronica arvensis Wall speedwell Veronica chamaedrys Germander speedwell Veronica montana \*B Wood speedwell Thyme-leaved speedwell Veronica serpyllifolia Viburnum lantana \*E♦ Wayfaring tree Viburnum opulus \*C Guelder rose Tufted vetch Vicia cracca Vicia sativa Common vetch Bush vetch Vicia sepium \*E Wood vetch Vicia sylvatica \*A♦ Vicia tetrasperma Smooth tare Viola reichenbachiana \*B Pale dog violet Viola riviniana Dog violet Viscum album Mistletoe

A, B, C = Ancient woodland indicator (AWI) plants in central Lincolnshire

\*A 90-100% of occurrences in ancient woods = 10 species \*B 70-89% of occurrences in ancient woods = 24 species \*C 50-69% of occurrences in ancient woods = 21 species

Total A + B + C = 55

\*D = (Other species with strong or moderate affinity for ancient woods in eastern England (Rackham 2003) not listed by Peterken = 3

\*E = listed by Rose (1999) for eastern England but not by Peterken (2000) or Rackham (2003) = 14

Total AWI = 72

■ Circumboscal species mentioned by Rackham (2003). These are species that occur exclusively or mostly in the immediate vicinity of ancient woods including grassland rides.

+ = Grassland Indicators of Long Continuity (RGJ) = 2 (excluding those which are also AWI's) ♦ = Scarce Lincolnshire native species – either  $\leq$  15 10 km squares in the 2 Lincolnshire Vice Counties (53 & 54) or  $\leq$  3 10 km squares in VC 53. Post-1987 records = 11

P = Planted /introduced

PN = Planted and/or native

? = Some doubt over specific identity

Peterken (2000)

#### Mosses and Liverworts

Amblystegium serpens Atrichum undulatum Aulacomnium androgunum Brachythecium rutabulum Bryum capillare Campylopus introflexus Cirriphyllum piliferum Dicranella heteromalla Dicranella varia Dicranum tauricum Didymodon fallax Eurhynchium striatum Homalia trichomanoides Hypnum cupressiforme Hypnum resupinatum Isothecium alopecurioides Kindbergia praelonga Lophocolea bidentata Lophocolea heterophylla Mnium hornum Orthodontium lineare Orthotrichum affine Plagiochila asplenioides Plagiomnium rostratum Plagiomnium undulatum Plagiothecium nemorale Plagiothecium succulentum Pseudotaxiphyllum elegans Rhytidiadelphus squarrosus

Thuidium tamariscinum

# Appendix 2 List of birds recorded in Bourne Wood

Species	Status and notes
Barn owl	R
Barn swallow	S
Blackcap	S (B)
Blue tit	R (B)
Brambling	W
Canada goose	R
Carrion crow	R (B)
Chiffchaff	S (B)
Coal tit	R (B)
Collared dove	R
Common blackbird	R (B)
Common buzzard	R (B)
Common chaffinch	R (B)
Common crossbill	Р
Common cuckoo	S
Common kestrel	R
Common kingfisher	R
Common magpie	R (B)
Common moorhen	R
Common nightingale	S (B)
Common pheasant	R (B)
Common raven	R
Common redpoll	W
Common redstart	V/P
Common snipe	W
Common starling	R (B)
Common swift	S
Common teal	R
Common whitethroat	S
Dunnock	R (B)
Eurasian bullfinch	R (B)
Eurasian jay	R (B)
Eurasian nuthatch	R (B)
Eurasian sparrowhawk	R (B)
Eurasian treecreeper	R (B)

Eurasian woodcock	R (B)
European goldfinch	R
European greenfinch	R (B)
European green woodpecker	R (B)
European robin	R (B)
European siskin	W
Fieldfare	W
Hobby	S
House sparrow	R
Garden warbler	S (B)
Goldcrest	R (B)
Grasshopper warbler	S
Great spotted woodpecker	R (B)
Great tit	R (B)
Grey heron	R
Lesser redpoll	W
Lesser spotted woodpecker	R – no recent record
Lesser whitethroat	S
Little owl	R – around the edges of the wood
Long-eared owl	R – not been recorded for over 20 years
Long-tailed tit	R (B)
Mallard	R
Marsh tit	R (B)
Mistle thrush	R (B)
Northern goshawk	Р
Pied wagtail	R
Red kite	R
Redwing	W
Rook	R
Song thrush	R (B)
Spotted flycatcher	S-rare
Tawny owl	R (B)
Tree pipit	S
Turtle dove	S-rare
Western jackdaw	R
Willow tit	R – rare

Willow warbler	S (B)
Winter wren	R (B)
Woodpigeon	R (B)
Wood warbler	Р
Yellowhammer	R – around the edges of the wood

- R = Resident all year round
- S = Spring/summer visitor
- W = Winter visitor
- P = Passage temporary stopover on migration
- V = Vagrant
- (B) = confirmed or likely to be breeding in the wood

NB Some resident species may be supplemented by birds from the continent often during winter e.g. blackbird

# Appendix 3 List of mammals

# Appendix 4 List of amphibians and reptiles

American mink

Badger

Bank vole

Barbastelle bat

Brown hare

Brown long-eared bat

Brown rat

Common pipistrelle bat

Common shrew

Daubenton's bat

Fallow deer

Field vole

Grey squirrel

Hedgehog

Leisler's bat

Natterer's bat

Noctule bat

Common mole

Rabbit

Red deer

Reeves' muntjac

Roe deer

Red fox

Soprano pipistrelle bat

Stoat

Water vole

Weasel

Western house mouse

Whiskered bat

 $\mathsf{Wood}\,\mathsf{mouse}$ 

Common frog Common lizard

Common toad Grass snake

Great-crested newt

Slow worm

Smooth newt



# Appendix 5 Butterflies recorded from Bourne Wood

English name	Scientific name	Larval foodplant	Habitat
Brimstone	Gonopteryx rhamni	Buckthorn	Woodland edge, hedgerows
Brown Argus	Aricia agestis	Annual cranesbill's e.g. dove's-foot cranesbill	Short dry grassland
Clouded yellow	Colias croceus	Clovers, Bird's-foot trefoil	Grassland, farmland
Comma	Polygonia c-album	Stinging nettle	Woodland edge
Common blue	Polyommatus icarus	Bird's-foot trefoil, greater bird's-foot trefoil,black medick, lesser trefoil, common restharrow	Grassland, woodland rides, coastal dunes
Essex Skipper	Thymelicus lineola	Various grssses	Tall dry grassland including woodland rides
Gatekeeper	Pyronia tithonus	Fine-leaved grasses	Tall dry grassland, woodland/ scrub edge
Green-veined white	Pieris napi	Hedge mustard, cuckoo flower, garlic mustard	Virtually anywhere but particularly mixed farmland, moorland and woodland rides
Holly Blue	Celestrina argiolus	Holly, ivy	Mixed farmland, gardens, woodland rides
Large Skipper	Ochlodes venata	Various grasses	Grassland, woodland rides, wet heath, parks and churchyards
Large white	Pieris brassicae	Wild or cultivated species of the cabbage family	Virtually anywhere but particularly gardens, allotments, mixed farmland
Marbled white	Melanargia galathea	Various grasses	Grassland and woodland rides
Meadow Brown	Maniola jurtina	Fine-leaved grasses	Grassland
Orange tip	Anthocaris cardamines	Hedge mustard, cuckoo flower, garlic mustard	Grassland, wetlands, hedgerows, woodland rides
Painted Lady	Vanessa cardui	Thistles	Virtually anywhere – wide ranging migrant
Peacock	Inachis io	Stinging nettle	Virtually anywhere
Purple hairstreak	Neozephyrus quercus	Pedunculate oak, Sessile oak	Woodlands, oak trees away from woodland
Red Admiral	Vanessa atalanta	Stinging nettle	Virtually anywhere
Ringlet	Aphantopus hyperantus	Various grasses	Tall grassland
Silver-washed Fritillary	Arygnnis paphia	Common dog violet	Woodland
Small Copper	Lycaena phlaeas	Common and sheep's sorrel	Grassland, heathland, moorland, dunes and woodland rides
Small Heath	Coenonympha pamphilus	Fine-leaved grasses	Short dry grassland
Small Skipper	Thymelicus silvestris	Various grasses	Grassland and woodland rides

Small Tortoiseshell	Aglais urticae	Stinging nettle	Virtually anywhere
Small White	Pieris rapae	Various brassicas e.g. hedge mustard, charlock, garlic mustard	Virtually anywhere but particularly gardens, mixed farmland
Speckled Wood	Pararge aegeria	Various grasses	Grassland, woodland edge, farmland
Wall Brown	Lasiommata megera	Various grasses	Grassland, farmland
White Admiral	Limentis camilla	Honeysuckle	Woodland edges and rides
White-letter hairstreak	Satyrium w-album	Elms	Woodland edge, hedgerows

# Appendix 6 Moths

Common Name	Taxon Name
Angle Shades	Phlogophora meticulosa
Angle-striped Sallow	Enargia paleacea
Apple Ermine	Yponomeuta malinellus
Apple Leaf Miner	Lyonetia clerkella
Ash-bark Knot-horn	Euzophera pinguis
Barred Fruit-tree Tortrix	Pandemis cerasana
Barred Red	Hylaea fasciaria
Barred Rivulet	Perizoma bifaciata
Barred Yellow	Cidaria fulvata
Base-spotted Pigmy	Stigmella basiguttella
Beautiful Golden Y	Autographa pulchrina
Beautiful Hook-tip	Laspeyria flexula
Bee Moth	Aphomia sociella
Bent-barred Pigmy	Ectoedemia angulifasciella
Birch Bell	Epinotia demarniana
Birch Marble	Apotomis betuletana
Bird-cherry Ermine	Yponomeuta evonymella
Black Arches	Lymantria monacha
Black-headed Pigmy	Stigmella atricapitella
Black-spot Sallow Pigmy	Ectoedemia intimella
Blood-Vein	Timandra comae
Bordered Carl	Emmetia marginea
Brassy Twist	Eulia ministrana
Bright-Line Brown-Eye	Lacanobia oleracea
Brimstone Moth	Opisthograptis luteolata
Brindled Pug	Eupithecia abbreviata
Broad-bordered Yellow Underwing	Noctua fimbriata
Brown Ash Ermel	Zelleria hepariella
Brown China-mark	Elophila nymphaeata
Brown Plume	Stenoptilia pterodactyla
Brown Rustic	Rusina ferruginea
Brown-barred Twist	Epagoge grotiana
Brown-dotted Clothes Moth	Niditinea fuscella
Brown-spot Flat-body	Agonopterix alstromeriana
Brown-spot Pinion	Agrochola litura

Bud Moth	Spilonota ocellana
Buff Arches	Habrosyne pyritoides
Buff Footman	Eilema depressa
Buff-tipped Marble	Hedya ochroleucana
Bulrush Cosmet	Limnaecia phragmitella
Bulrush Veneer	Calamotropha paludella
Burnished Brass	Diachrysia chrysitis
Carnation Tortrix	Cacoecimorpha pronubana
Centre-barred Sallow	Atethmia centrago
Chequered Fruit-tree Tortrix	Pandemis corylana
Chequered Grass-veneer	Catoptria falsella
Cherry Midget	Phyllonorycter cerasicolella
Chinese Character	Cilix glaucata
Chocolate tip	Clostera curtula
Clay	Mythimna ferrago
Cloaked Minor	Mesoligia furuncula
Clouded Border	Lomaspilis marginata
Clouded Brindle	Apamea epomidion
Clouded Drab	Orthosia incerta
Clouded Silver	Lomographa temerata
Clouded-bordered Brindle	Apamea crenata
Coarse Hazel Pigmy	Stigmella floslactella
Common Carpet	Epirrhoe alternata
Common Case-bearer	Coleophora serratella
Common Cloaked Shoot	Gypsonoma dealbana
Common Emerald	Hemithea aestivaria
Common Footman	Eilema lurideola
Common Grass-veneer	Agriphila tristella
Common Grey	Scoparia ambigualis
Common Marble	Celypha lacunana
Common Marbled Carpet	Chloroclysta truncata
Common Oak Case-bearer	Coleophora lutipennella
Common Pug	Eupithecia vulgata
Common Purple & Gold	Pyrausta purpuralis
Common Quaker	Orthosia cerasi
Common Rustic	Mesapamea secalis

Common Spruce Bell	Epinotia tedella
Common Sweep	Psyche casta
Common Thorn Midget	Phyllonorycter oxyacanthae
Common Wainscot	Mythimna pallens
Common Wave	Cabera exanthemata
Common White Wave	Cabera pusaria
Common Yellow Conch	Agapeta hamana
Copper Underwing	Amphipyra pyramidea
Coronet	Craniophora ligustri
Coxcomb Prominent	Ptilodon capucina
Dark Arches	Apamea monoglypha
Dark Fruit-tree Tortrix	Pandemis heparana
Dark Marbled Carpet	Chloroclysta citrata
Dark Pine Knot-horn	Dioryctria abietella
Dark Sword-grass	Agrotis ipsilon
Dark-barred Twin-spot Carpet	Xanthorhoe ferrugata
Dark-barred Twist	Syndemis musculana
Deep-brown Piercer	Grapholita tenebrosana
Diamond-back Moth	Plutella xylostella
Dot Moth	Melanchra persicariae
Dotted Clay	Xestia baja
Dotted Oak Knot-horn	Phycita roborella
Double-square Spot	Xestia triangulum
Drinker	Euthrix potatoria
Dull Red Groundling	Bryotropha senectella
Dun-bar	Cosmia trapezina
Dusky Pearl	Udea prunalis
Dusky Sallow	Eremobia ochroleuca
Dwarf Pug	Eupithecia tantillaria
Early Grey	Xylocampa areola
Early Thorn	Selenia dentaria
Elephant Hawk-moth	Deilephila elpenor
Elm Midget	Phyllonorycter tristrigella
Engrailed	Ectropis bistortata
Fan-foot	Zanclognatha tarsipennalis
Fiery Oak Midget	Phyllonorycter lautella

Flame	Axylia putris
Flame Shoulder	Ochropleura plecta
Flax Tortrix	Cnephasia asseclana
Flounced Rustic	Luperina testacea
Frosted Green	Polyploca ridens
Garden Grass-veneer	Chrysoteuchia culmella
Ghost Moth	Hepialus humuli
Gold Juniper Argent	Argyresthia aurulentella
Gold Triangle	Hypsopygia costalis
Gold-dot Slender	Eucalybites auroguttella
Golden Argent	Argyresthia goedartella
Golden Pigmy	Stigmella aurella
Golden-brown Tubic	Crassa unitella
Gold-ribbon Argent	Argyresthia brockeella
Green Long-horn	Adela reaumurella
Green Oak Tortrix	Tortrix viridana
Green Pug	Pasiphila rectangulata
Green Silver-lines	Pseudoips prasinana
Grey Dagger	Acronicta psi
Grey Poplar Bell	Epinotia nisella
Grey Tortrix	Cnephasia stephensiana
Hawthorn Midget	Phyllonorycter corylifoliella
Hawthorn Slender	Parornix anglicella
Hazel Slender	Parornix devoniella
Heart & Dart	Agrotis exclamationis
Hebrew Character	Orthosia gothica
Hoary Belle	Eucosma cana
Honeysuckle Moth	Ypsolopha dentella
Hooked Smudge	Ypsolopha nemorella
Iron Prominent	Notodonta dromedarius
July Highflyer	Hydriomena furcata
Knot Grass	Acronicta rumicis
Lackey	Malacosoma neustria
Larch Case-bearer	Coleophora laricella
Large Beech Argent	Argyresthia semitestacella
Large Emerald	Geometra papilionaria

	1
Large Fruit-tree Tortrix	Archips podana
Large Yellow Underwing	Noctua pronuba
Least Black Arches	Nola confusalis
Least Yellow Underwing	Noctua interjecta
Leopard Moth	Zeuzera pyrina
Lesser Broad-bordered Yellow Underwing	Noctua janthe
Lesser Cream Wave	Scopula immutata
Lesser Swallow Prominent	Pheosia gnoma
Lesser Yellow Underwing	Noctua comes
Light Arches	Apamea lithoxylaea
Light Emerald	Campaea margaritata
Light Grey Tortrix	Cnephasia incertana
Light orange underwing	Archiearis notha
Lime-speck Pug	Eupithecia centaureata
Long-horned Flat-body	Carcina quercana
Lunar Marbled Brown	Drymonia ruficornis
Lunar Underwing	Omphaloscelis lunosa
Magpie	Abraxas grossulariata
Maiden's Blush	Cyclophora punctaria
Maple Button	Acleris forsskaleana
Maple Midget	Phyllonorycter acerifoliella
Maple Prominent	Ptilodon cucullina
Marbled Beauty	Cryphia domestica
Marbled Bell	Eucosma campoliliana
Marbled Minor	Oligia strigilis
Marbled Piercer	Cydia splendana
Marbled White Spot	Protodeltote pygarga
Meadow-sweet Button	Acleris shepherdana
Mere Wainscot	Chortodes fluxa
Miller	Acronicta leporina
Mint Bent-wing	Pseudopostega crepusculella
Mother of Pearl	Pleuroptya ruralis
Mottled Beauty	Alcis repandata
Mouse Moth	Amphipyra tragopoginis
Nut Bud Moth	Epinotia tenerana
Nut Leaf Blister Moth	Phyllonorycter coryli



Nut-tree Pigmy Stigmella microtheriella Dak Bent-wing Bucculatrix ulmella Tischeria ekebladella Oak Carl Tischeria ekebladella Oak Nycteoline Nycteoline Nycteola revayana Oak Satin Lift Heliozela sericiella Olive Pearl Udea olivalis Orange Swift Hepialus sylvina Orange-spotted Shoot Rhyacionia pinicolana Orchard Ermine Yponomeuta padella Pale Prominent Pale Prominent Pales Traw Pearl Udea lutealis Olive Pearl Udea lutealis Pale Thistie Case-bearer Coleophora peribenanderi Pale Tussock Calliteara pudibunda Peach Blossom Thyatira batis Pearl Grass-veneer Catoptria pinella Pebble Hook-tip Drepana falcataria Pebble Prominent Notodonta ziczac Peppered Moth Biston betularia Pinch-barred Pigmy Ectoedemia atricollis Pine Beauty Panolis flammea Pine Cosmet Batrachedra pinicolella Pine Hawk-moth Hyloicus pinastri Pine Leaf-mining Moth Clavigesta purdeyi Pine Marble Poplar Grey Arconicta megacephala Poplar Grey Poplar Grey Poplar Grey Anacampsis populella	Nutmeg	Discestra trifolii
Oak Carl Tischeria ekebladella Oak Hook-tip Watsonalla binaria Oak Nycteoline Nycteola revayana Oak Satin Lift Heliozela sericiella Olive Pearl Udea olivalis Orange Swift Hepialus sylvina Orange Swift Hepialus sylvina Orange-spotted Shoot Rhyacionia pinicolana Orchard Ermine Yponomeuta padella Pale Prominent Peterostoma palpina Pale Straw Pearl Udea lutealis Pale Thistle Case-bearer Coleophora peribenanderi Pale Tussock Calliteara pudibunda Peach Blossom Thyatira batis Pearl Grass-veneer Catoptria pinella Pebble Hook-tip Drepana falcataria Pebble Prominent Notodonta ziczac Peppered Moth Biston betularia Pinch-barred Pigmy Ectoedemia atricollis Pine Beauty Panolis flammea Pine Bell Epinotia rubiginosana Pine Cosmet Batrachedra pinicolella Pine Hawk-moth Hyloicus pinastri Pine Marble Piniphila bifasciana Poplar Grey Acronicta megacephala Poplar Hawk-moth Laothoe populi	Nut-tree Pigmy	Stigmella microtheriella
Oak Hook-tip       Watsonalla binaria         Oak Nycteoline       Nycteola revayana         Oak Satin Lift       Heliozela sericiella         Olive Pearl       Udea olivalis         Orange Swift       Hepialus sylvina         Orange-spotted Shoot       Rhyacionia pinicolana         Orchard Ermine       Yponomeuta padella         Pale Prominent       Pterostoma palpina         Pale Prominent       Pterostoma palpina         Pale Straw Pearl       Udea lutealis         Pale Thistle Case-bearer       Coleophora peribenanderi         Pale Tussock       Calliteara pudibunda         Peach Blossom       Thyatira batis         Pearl Grass-veneer       Catoptria pinella         Pebble Hook-tip       Drepana falcataria         Pebble Prominent       Notodonta ziczac         Peppered Moth       Biston betularia         Pinch-barred Pigmy       Ectoedemia atricollis         Pine Beauty       Panolis flammea         Pine Beauty       Panolis flammea         Pine Beauty       Panolis rlammea         Pine Cosmet       Batrachedra pinicolella         Pine Hawk-moth       Hyloicus pinastri         Pine Leaf-mining Moth       Clavigesta purdeyi         Pine Marble	Oak Bent-wing	Bucculatrix ulmella
Oak Nycteoline Nycteola revayana Oak Satin Lift Heliozela sericiella Olive Pearl Udea olivalis Orange Swift Hepialus sylvina Orange-spotted Shoot Rhyacionia pinicolana Orchard Ermine Yponomeuta padella Pale Prominent Petrostoma palpina Pale Straw Pearl Udea lutealis Pale Thistle Case-bearer Coleophora peribenanderi Pale Tussock Calliteara pudibunda Peach Blossom Thyatira batis Pearl Grass-veneer Catoptria pinella Pebble Hook-tip Drepana falcataria Pebble Prominent Notodonta ziczac Peppered Moth Biston betularia Pinch-barred Pigmy Ectoedemia atricollis Pine Beauty Panolis flammea Pine Bell Epinotia rubiginosana Pine Cosmet Batrachedra pinicolella Pine Hawk-moth Hyloicus pinastri Pine Marble Pine Marble Pine Marble Pine Marble Pine Mark-moth Laothoe populi	Oak Carl	Tischeria ekebladella
Oak Satin Lift Olive Pearl Olive Pearl Udea olivalis Orange Swift Hepialus sylvina Orange-spotted Shoot Rhyacionia pinicolana Orchard Ermine Yponomeuta padella Pale Prominent Pale Straw Pearl Udea lutealis Pale Thistle Case-bearer Coleophora peribenanderi Pale Tussock Calliteara pudibunda Peach Blossom Thyatira batis Pearl Grass-veneer Catoptria pinella Pebble Hook-tip Drepana falcataria Pebble Prominent Notodonta ziczac Peppered Moth Biston betularia Pinch-barred Pigmy Ectoedemia atricollis Pine Beauty Panolis flammea Pine Bell Epinotia rubiginosana Pine Cosmet Batrachedra pinicolella Pine Hawk-moth Clavigesta purdeyi Pine Marble Pine Marble Pine Marble Poplar Grey Acronicta megacephala Poplar Hawk-moth Laothoe populi	Oak Hook-tip	Watsonalla binaria
Olive Pearl Orange Swift Hepialus sylvina Orange-spotted Shoot Rhyacionia pinicolana Orchard Ermine Yponomeuta padella Pale Prominent Peterostoma palpina Pale Straw Pearl Udea lutealis Pale Thistle Case-bearer Coleophora peribenanderi Pale Tussock Calliteara pudibunda Peach Blossom Thyatira batis Pearl Grass-veneer Catoptria pinella Pebble Prominent Notodonta ziczac Peppered Moth Biston betularia Pinch-barred Pigmy Ectoedemia atricollis Pine Beauty Pine Beauty Pine Bell Epinotia rubiginosana Pine Cosmet Batrachedra pinicolella Pine Hawk-moth Clavigesta purdeyi Pine Marble Piniphila bifasciana Poplar Grey Acronicta megacephala Poplar Hawk-moth Laothoe populi	Oak Nycteoline	Nycteola revayana
Orange Swift Orange-spotted Shoot Orchard Ermine Pale Prominent Pale Prominent Pale Straw Pearl Udea lutealis Pale Thistle Case-bearer Coleophora peribenanderi Pale Tussock Calliteara pudibunda Peach Blossom Thyatira batis Pearl Grass-veneer Catoptria pinella Pebble Hook-tip Drepana falcataria Pebble Prominent Notodonta ziczac Peppered Moth Biston betularia Pinch-barred Pigmy Ectoedemia atricollis Pine Beauty Pine Beauty Pine Hawk-moth Hyloicus pinastri Pine Leaf-mining Moth Clavigesta purdeyi Pine Marble Poplar Grey Acronicta megacephala Poplar Hawk-moth Laothoe populi	Oak Satin Lift	Heliozela sericiella
Orange-spotted Shoot Orchard Ermine Yponomeuta padella Pale Prominent Pale Straw Pearl Udea lutealis Pale Thistle Case-bearer Coleophora peribenanderi Pale Tussock Calliteara pudibunda Peach Blossom Thyatira batis Pearl Grass-veneer Catoptria pinella Pebble Hook-tip Drepana falcataria Peppered Moth Biston betularia Pinch-barred Pigmy Ectoedemia atricollis Pine Beauty Pine Bell Epinotia rubiginosana Pine Cosmet Batrachedra pinicolella Pine Hawk-moth Pine Marble Poplar Grey Acronicta megacephala Poplar Hawk-moth Laothoe populi	Olive Pearl	Udea olivalis
Orchard Ermine Pale Prominent Pale Prominent Pale Straw Pearl Udea lutealis Pale Thistle Case-bearer Coleophora peribenanderi Peach Blossom Thyatira batis Pearl Grass-veneer Catoptria pinella Pebble Hook-tip Peppered Moth Biston betularia Pinch-barred Pigmy Ectoedemia atricollis Pine Beauty Pine Bell Epinotia rubiginosana Pine Cosmet Batrachedra pinicolella Phyloicus pinastri Pine Leaf-mining Moth Clavigesta purdeyi Poplar Hawk-moth Laothoe populi	Orange Swift	Hepialus sylvina
Pale Prominent Pale Straw Pearl Udea lutealis Pale Thistle Case-bearer Coleophora peribenanderi Pale Tussock Calliteara pudibunda Peach Blossom Thyatira batis Pearl Grass-veneer Catoptria pinella Pebble Hook-tip Drepana falcataria Pebble Prominent Notodonta ziczac Peppered Moth Biston betularia Pinch-barred Pigmy Ectoedemia atricollis Pine Beauty Panolis flammea Pine Bell Epinotia rubiginosana Pine Cosmet Batrachedra pinicolella Pine Hawk-moth Hyloicus pinastri Pine Marble Pine Marble Pine Marble Pine Marble Poplar Grey Acronicta megacephala Laothoe populi	Orange-spotted Shoot	Rhyacionia pinicolana
Pale Straw Pearl  Pale Thistle Case-bearer  Coleophora peribenanderi  Pale Tussock  Calliteara pudibunda  Peach Blossom  Thyatira batis  Pearl Grass-veneer  Catoptria pinella  Pebble Hook-tip  Drepana falcataria  Pebble Prominent  Notodonta ziczac  Peppered Moth  Biston betularia  Pinch-barred Pigmy  Ectoedemia atricollis  Pine Beauty  Panolis flammea  Epinotia rubiginosana  Pine Cosmet  Batrachedra pinicolella  Pine Hawk-moth  Hyloicus pinastri  Pine Leaf-mining Moth  Clavigesta purdeyi  Pine Marble  Poplar Grey  Acronicta megacephala  Poplar Hawk-moth  Laothoe populi	Orchard Ermine	Yponomeuta padella
Pale Thistle Case-bearer  Coleophora peribenanderi  Pale Tussock Calliteara pudibunda  Peach Blossom Thyatira batis  Pearl Grass-veneer Catoptria pinella  Pebble Hook-tip Drepana falcataria  Pebble Prominent Notodonta ziczac  Peppered Moth Biston betularia  Pinch-barred Pigmy Ectoedemia atricollis  Pine Beauty Panolis flammea  Pine Bell Epinotia rubiginosana  Pine Cosmet Batrachedra pinicolella  Pine Hawk-moth Hyloicus pinastri  Pine Leaf-mining Moth Clavigesta purdeyi Pine Marble Poplar Grey Acronicta megacephala Poplar Hawk-moth Laothoe populi	Pale Prominent	Pterostoma palpina
Pale Tussock Calliteara pudibunda Peach Blossom Thyatira batis Pearl Grass-veneer Catoptria pinella Pebble Hook-tip Drepana falcataria Pebble Prominent Notodonta ziczac Peppered Moth Biston betularia Pinch-barred Pigmy Ectoedemia atricollis Pine Beauty Panolis flammea Pine Bell Epinotia rubiginosana Pine Cosmet Batrachedra pinicolella Pine Hawk-moth Hyloicus pinastri Pine Leaf-mining Moth Clavigesta purdeyi Pine Marble Pine Marble Poplar Grey Acronicta megacephala Poplar Hawk-moth Laothoe populi	Pale Straw Pearl	Udea lutealis
Peach Blossom Pearl Grass-veneer Catoptria pinella Pebble Hook-tip Drepana falcataria Pebble Prominent Notodonta ziczac Peppered Moth Biston betularia Pinch-barred Pigmy Ectoedemia atricollis Pine Beauty Panolis flammea Pine Bell Epinotia rubiginosana Pine Cosmet Batrachedra pinicolella Pine Hawk-moth Hyloicus pinastri Pine Leaf-mining Moth Clavigesta purdeyi Pine Marble Pine Marble Pine Jarobie Acronicta megacephala Poplar Grey Acronicta megacephala Laothoe populi	Pale Thistle Case-bearer	Coleophora peribenanderi
Pearl Grass-veneer Catoptria pinella Pebble Hook-tip Drepana falcataria Pebble Prominent Notodonta ziczac Peppered Moth Biston betularia Pinch-barred Pigmy Ectoedemia atricollis Pine Beauty Panolis flammea Pine Bell Epinotia rubiginosana Pine Cosmet Batrachedra pinicolella Pine Hawk-moth Hyloicus pinastri Pine Leaf-mining Moth Clavigesta purdeyi Pine Marble Pine Marble Pine Jahwk-moth Poplar Grey Acronicta megacephala Poplar Hawk-moth Laothoe populi	Pale Tussock	Calliteara pudibunda
Pebble Hook-tip       Drepana falcataria         Pebble Prominent       Notodonta ziczac         Peppered Moth       Biston betularia         Pinch-barred Pigmy       Ectoedemia atricollis         Pine Beauty       Panolis flammea         Pine Bell       Epinotia rubiginosana         Pine Cosmet       Batrachedra pinicolella         Pine Hawk-moth       Hyloicus pinastri         Pine Leaf-mining Moth       Clavigesta purdeyi         Pine Marble       Piniphila bifasciana         Poplar Grey       Acronicta megacephala         Poplar Hawk-moth       Laothoe populi	Peach Blossom	Thyatira batis
Pebble Prominent       Notodonta ziczac         Peppered Moth       Biston betularia         Pinch-barred Pigmy       Ectoedemia atricollis         Pine Beauty       Panolis flammea         Pine Bell       Epinotia rubiginosana         Pine Cosmet       Batrachedra pinicolella         Pine Hawk-moth       Hyloicus pinastri         Pine Leaf-mining Moth       Clavigesta purdeyi         Pine Marble       Piniphila bifasciana         Poplar Grey       Acronicta megacephala         Poplar Hawk-moth       Laothoe populi	Pearl Grass-veneer	Catoptria pinella
Peppered Moth Biston betularia  Pinch-barred Pigmy Ectoedemia atricollis  Pine Beauty Panolis flammea  Pine Bell Epinotia rubiginosana  Pine Cosmet Batrachedra pinicolella  Pine Hawk-moth Hyloicus pinastri  Pine Leaf-mining Moth Clavigesta purdeyi  Pine Marble Piniphila bifasciana  Poplar Grey Acronicta megacephala  Poplar Hawk-moth Laothoe populi	Pebble Hook-tip	Drepana falcataria
Pinch-barred Pigmy Ectoedemia atricollis Pine Beauty Panolis flammea Pine Bell Epinotia rubiginosana Pine Cosmet Batrachedra pinicolella Pine Hawk-moth Hyloicus pinastri Pine Leaf-mining Moth Clavigesta purdeyi Pine Marble Piniphila bifasciana Poplar Grey Acronicta megacephala Poplar Hawk-moth Laothoe populi	Pebble Prominent	Notodonta ziczac
Pine Beauty Panolis flammea Pine Bell Epinotia rubiginosana Pine Cosmet Batrachedra pinicolella Pine Hawk-moth Hyloicus pinastri Pine Leaf-mining Moth Clavigesta purdeyi Pine Marble Piniphila bifasciana Poplar Grey Acronicta megacephala Poplar Hawk-moth Laothoe populi	Peppered Moth	Biston betularia
Pine Bell Epinotia rubiginosana Pine Cosmet Batrachedra pinicolella Pine Hawk-moth Hyloicus pinastri Pine Leaf-mining Moth Clavigesta purdeyi Pine Marble Piniphila bifasciana Poplar Grey Acronicta megacephala Poplar Hawk-moth Laothoe populi	Pinch-barred Pigmy	Ectoedemia atricollis
Pine Cosmet Batrachedra pinicolella Pine Hawk-moth Hyloicus pinastri Pine Leaf-mining Moth Clavigesta purdeyi Pine Marble Piniphila bifasciana Poplar Grey Acronicta megacephala Poplar Hawk-moth Laothoe populi	Pine Beauty	Panolis flammea
Pine Hawk-moth Hyloicus pinastri Pine Leaf-mining Moth Clavigesta purdeyi Pine Marble Piniphila bifasciana Poplar Grey Acronicta megacephala Poplar Hawk-moth Laothoe populi	Pine Bell	Epinotia rubiginosana
Pine Leaf-mining Moth Clavigesta purdeyi Pine Marble Piniphila bifasciana Poplar Grey Acronicta megacephala Poplar Hawk-moth Laothoe populi	Pine Cosmet	Batrachedra pinicolella
Pine Marble     Piniphila bifasciana       Poplar Grey     Acronicta megacephala       Poplar Hawk-moth     Laothoe populi	Pine Hawk-moth	Hyloicus pinastri
Poplar Grey Acronicta megacephala Poplar Hawk-moth Laothoe populi	Pine Leaf-mining Moth	Clavigesta purdeyi
Poplar Hawk-moth Laothoe populi	Pine Marble	Piniphila bifasciana
	Poplar Grey	Acronicta megacephala
Poplar Sober Anacampsis populella	Poplar Hawk-moth	Laothoe populi
	Poplar Sober	Anacampsis populella
Privet Hawk-moth Sphinx ligustri	Privet Hawk-moth	Sphinx ligustri
Privet Twist Clepsis consimilana	Privet Twist	Clepsis consimilana
Purple Argent Argyresthia albistria	Purple Argent	Argyresthia albistria
Purple Thorn Selenia tetralunaria	Purple Thorn	Selenia tetralunaria
Red Birch Midget Phyllonorycter ulmifoliella	Red Birch Midget	Phyllonorycter ulmifoliella
Red Chestnut Cerastis rubricosa	Red Chestnut	Cerastis rubricosa

Red Hazel Midget Phyllonorycter nicellii Red Roller Ancylis mitterbacheriana Red Twin-spot Carpet Xanthorhoe spadicearia Red-haeded Pigmy Stigmella ruficapitella Riband Wave Idaea aversata Rised China-mark Parapoynx stratiotata Rose Leaf Miner Stigmella anomalella Rosy Tabby Endotricha flammealis Ruby Tiger Phragmatobia fuliginosa Rustic Shoulder-knot Apamea sordens Sallow Xanthia icteritia Sallow Yanthia icteritia Sallow International Processor Stigmella salicis Sallow Pigmy Stigmella salicis Sallow Pigmy Stigmella salicis Sallow Pigmy Stigmella salicis Sallow Corcallis elinguaria Scalloped Hazel Odotopera bidentata Scalloped Hook-tip Falcaria lacertinaria Scalloped Hook-tip Falcaria lacertinaria Scalloped Hook-tip Falcaria lacertinaria Scarce Solver-lines Bena bicolorana Scarce Silver-lines Bena bicolorana Scarce Silver-lines Bena bicolorana Scarched Wing Pigmy Stigmella plagicolella Seraphim Lobophora halterata Setaceous Hebrew Character Xestia c-nigrum Short-barred Pigmy Stigmella luteella Shuttle-shaped Dart Agrotis puta Silver Y Autographa gamma Silver Y Autographa gamma Silver Gund Carpet Silver-lined Apamea scolopacina Small Birch Bell Epinotia ramella Small Bortoted Wave Idaea dimidiata Small Birch Bell Epinotia ramella Small Elem Midget Phyllonorycter schreberella Small Fan-foot Herminia grisealis Small Fan-foot Herminia grisealis Small Fan-foot Herminia grisealis	Pad Elm Diamy	Stigmella lemniscella
Red Roller Ancylis mitterbacheriana Red Twin-spot Carpet Xanthorhoe spadicearia Red-headed Pigmy Stigmella ruficapitella Idaea aversata Ringed China-mark Parapoynx stratiotata Rose Leaf Miner Stigmella anomalella Rose Leaf Miner Stigmella anomalella Rose Leaf Miner Stigmella anomalella Rose Leaf Miner Phragmatobia fuliginosa Rustic Shoulder-knot Apamea sordens Sallow Xanthia icteritia Sallow Xanthia icteritia Sallow Stitten Furcula Furcula Sallow Stigmella salicis Sandy Long-horn Nematopogon schwarziellus Scalloped Hazel Odontopera bidentata Scalloped Hook-tip Falcaria lacertinaria Scalloped Hook-tip Falcaria lacertinaria Scarce Footman Eilema complana Scarce Footman Eilema complana Scarce Silver-lines Bena bicolorana Scorched Wing Plagodis dolabraria Scrubland Pigmy Stigmella plagicolella Seraphim Lobophora halterata Setaceous Hebrew Character Xestia c-nigrum Short-barred Pigmy Stigmella luteella Silver Y Autographa gamma Silver-ground Carpet Xanthorhoe montanata Silver-ground Carpet Xanthorhoe montanata Silver-ground Garpet Salmella Epinotia ramella Small Bran-foot Herminia grisealis Small Fan-foot Small Fan-foot Small Fan-footed Wave Idaea biselata	Red Elm Pigmy	
Red Twin-spot Carpet     Xanthorhoe spadicearia       Red-headed Pigmy     Stigmella ruficapitella       Riband Wave     Idaea aversata       Ringed China-mark     Parapoynx stratiotata       Rose Leaf Miner     Stigmella anomalella       Rosy Tabby     Endotricha flammealis       Ruby Tiger     Phragmatobia fuliginosa       Rustic Shoulder-knot     Apamea sordens       Sallow     Xanthia icteritia       Sallow Ritten     Furcula furcula       Sallow Pigmy     Stigmella salicis       Sandy Long-horn     Nematopogon schwarziellus       Scalloped Hazel     Odontopera bidentata       Scalloped Hook-tip     Falcaria Iacertinaria       Scalloped Hook-tip     Falcaria Iacertinaria       Scarce Footman     Eilema complana       Scarce Silver-lines     Bena bicolorana       Scorched Wing     Plagodis dolabraria       Scrubland Pigmy     Stigmella plagicolella       Seraphim     Lobophora halterata       Setaceous Hebrew Character     Xestia c-nigrum       Short-barred Pigmy     Stigmella luteella       Shuttle-shaped Dart     Agrotis puta       Silver Y     Autographa gamma       Silver Y     Autographa gamma       Silver Y     Autographa gamma       Silver -ground Carpet     Xanthorhoe montanata		
Red-headed Pigmy Stigmella ruficapitella Riband Wave Idaea aversata Ringed China-mark Parapoynx stratiotata Rose Leaf Miner Stigmella anomalella Rosy Tabby Endotricha flammealis Ruby Tiger Phragmatobia fuliginosa Rustic Shoulder-knot Apamea sordens Sallow Sallow Xanthia icteritia Sallow Pigmy Stigmella salicis Sallow Pigmy Stigmella salicis Sandy Long-horn Nematopogon schwarziellus Scalloped Hazel Odontopera bidentata Scalloped Hook-tip Falcaria Iacertinaria Scalloped Ook Scarce Silver-lines Bena bicolorana Scarce Silver-lines Bena bicolorana Scroched Wing Plagodis dolabraria Scroched Wing Plagodis dolabraria Setaceous Hebrew Character Xestia c-nigrum Short-barred Pigmy Stigmella apamea Silver Y Autographa gamma Silver-ground Carpet Xanthorhoe montanata Silver Grothed Bell Lead ad imidiata Senal Birch Bell Epinotia ramella Small Fan-foot Herming grisealis Small Fan-footed Wave Idaea biselata		,
Riband Wave Ringed China-mark Rose Leaf Miner Rosy Tabby Ruby Tiger Ruby Tiger Phragmatobia fuliginosa Rustic Shoulder-knot Apamea sordens Sallow Ritten Sallow Kitten Sallow Figry Sandy Long-horn Nematopogon schwarziellus Scalloped Hazel Odontopera bidentata Scarce Footman Eilema complana Scarce Footman Eilema complana Scarce Footman Scarce Wing Stigmell a plagicolella Seraphim Lobophora halterata Setaceous Hebrew Character Xestia c-nigrum Short-barred Pigmy Stigmell a gamma Silver-ground Carpet Xanthorhoe montanata Single-dotted Wave Slende Bull Fan-foot Small Fan-foot Hermina grisealis Small Fan-foot Manthos Apamea sordese Stigmell a plagicolella Eilema complana Serare Silver-lines Sean bicolorana Setaceous Hebrew Character Xestia c-nigrum Silver-ground Carpet Xanthorhoe montanata Idaea dimidiata Sende Bell Small Fan-foot Hermina grisealis Small Fan-foot Small Fan-foot Small Fan-foot Small Fan-foot Small Fan-foot Small Fan-foot Small Fan-footed Wave Idaea biselata		
Ringed China-mark Rose Leaf Miner Stigmella anomalella Rosy Tabby Endotricha flammealis Ruby Tiger Phragmatobia fuliginosa Rustic Shoulder-knot Apamea sordens Sallow Xanthia icteritia Sallow Kitten Furcula furcula Sallow Pigmy Stigmella salicis Sandy Long-horn Nematopogon schwarziellus Scalloped Hazel Odontopera bidentata Scalloped Hook-tip Falcaria lacertinaria Scalloped Hook-tip Falcaria lacertinaria Scarce Footman Eilema complana Scarce Silver-lines Bena bicolorana Scarce Silver-lines Bena bicolorana Scorched Wing Plagodis dolabraria Scrubland Pigmy Stigmella plagicolella Seraphim Lobophora halterata Setacous Hebrew Character Xestia c-nigrum Short-barred Pigmy Stigmella luteella Shuttle-shaped Dart Agrotis puta Silver Y Autographa gamma Silver-ground Carpet Xanthorhoe montanata Silver-ground Carpet Xanthorhoe montanata Silver-ground Garpet Single-dotted Wave Idaea dimidiata Small Birch Bell Epinotia ramella Small Fan-foot Herminia grisealis Small Fan-footed Wave Idaea biselata		
Rose Leaf Miner Stigmella anomalella Rosy Tabby Endotricha flammealis Ruby Tiger Phragmatobia fuliginosa Rustic Shoulder-knot Apamea sordens Sallow Xanthia icteritia Sallow Kitten Furcula furcula Sallow Pigmy Stigmella salicis Sandy Long-horn Nematopogon schwarziellus Scalloped Hazel Odontopera bidentata Scalloped Hook-tip Falcaria lacertinaria Scalloped Hook-tip Falcaria lacertinaria Scalloped Oak Crocallis elinguaria Scarce Footman Eilema complana Scarce Silver-lines Bena bicolorana Scarce Silver-lines Bena bicolorana Scarcebuland Pigmy Stigmella plagicolella Seraphim Lobophora halterata Setaceous Hebrew Character Xestia c-nigrum Short-barred Pigmy Stigmella luteella Shuttle-shaped Dart Agrotis puta Silver Y Autographa gamma Silver-ground Carpet Xanthorhoe montanata Silver-ground Carpet Xanthorhoe montanata Silender Brindle Apamea scolopacina Small Birch Bell Finotia ramella Small Brich Bell Finotic Herminia grisealis Small Fan-footed Wave Idaea biselata		Idaea aversata
Rosy Tabby Endotricha flammealis Ruby Tiger Phragmatobia fuliginosa Rustic Shoulder-knot Apamea sordens Sallow Xanthia icteritia Sallow Kitten Furcula furcula Sallow Pigmy Stigmella salicis Sandy Long-horn Nematopogon schwarziellus Scalloped Hazel Odontopera bidentata Scalloped Hook-tip Falcaria lacertinaria Scarce Footman Eilema complana Scarce Silver-lines Bena bicolorana Scorched Wing Plagodis dolabraria Scrubland Pigmy Stigmella plagicolella Seraphim Lobophora halterata Scharce Pigmy Stigmella luteella Short-barred Pigmy Stigmella luteella Shuttle-shaped Dart Agrotis puta Silver Y Autographa gamma Silver-ground Carpet Xanthorhoe montanata Single-dotted Wave Idaed dimidiata Small Birch Bell Epinotia ramella Small Em Midget Phyllonorycter schreberella Small Fan-foot Hermina grisealis Small Fan-footed Wave Idaea biselata	Ringed China-mark	Parapoynx stratiotata
Ruby Tiger     Phragmatobia fuliginosa       Rustic Shoulder-knot     Apamea sordens       Sallow     Xanthia icteritia       Sallow Kitten     Furcula furcula       Sallow Pigmy     Stigmella salicis       Sandy Long-horn     Nematopogon schwarziellus       Scalloped Hazel     Odontopera bidentata       Scalloped Hook-tip     Falcaria lacertinaria       Scalloped Oak     Crocallis elinguaria       Scarce Footman     Eilema complana       Scarce Silver-lines     Bena bicolorana       Scorched Wing     Plagodis dolabraria       Scrubland Pigmy     Stigmella plagicolella       Serachina     Lobophora halterata       Setaceous Hebrew Character     Xestia c-nigrum       Short-barred Pigmy     Stigmella luteella       Short-barred Pigmy     Stigmella luteella       Shuttle-shaped Dart     Agrotis puta       Silver Y     Autographa gamma       Silver-ground Carpet     Xanthorhoe montanata       Single-dotted Wave     Idaea dimidiata       Slender Brindle     Apamea scolopacina       Small Birch Bell     Epinotia ramella       Small Fan-foot     Herminia grisealis       Small Fan-foot dWave     Idaea biselata	Rose Leaf Miner	Stigmella anomalella
Rustic Shoulder-knot     Apamea sordens       Sallow     Xanthia icteritia       Sallow Kitten     Furcula furcula       Sallow Pigmy     Stigmella salicis       Sandy Long-horn     Nematopogon schwarziellus       Scalloped Hazel     Odontopera bidentata       Scalloped Hook-tip     Falcaria lacertinaria       Scalloped Oak     Crocallis elinguaria       Scarce Footman     Eilema complana       Scarce Silver-lines     Bena bicolorana       Scorched Wing     Plagodis dolabraria       Scrubland Pigmy     Stigmella plagicolella       Seraphim     Lobophora halterata       Setaceous Hebrew Character     Xestia c-nigrum       Short-barred Pigmy     Stigmella luteella       Shuttle-shaped Dart     Agrotis puta       Silver Y     Autographa gamma       Silver-ground Carpet     Xanthorhoe montanata       Single-dotted Wave     Idaea dimidiata       Slender Brindle     Apamea scolopacina       Small Birch Bell     Epinotia ramella       Small Elm Midget     Phyllonorycter schreberella       Small Fan-foot     Herminia grisealis       Small Fan-footed Wave     Idaea biselata	Rosy Tabby	Endotricha flammealis
Sallow Xanthai citeritia  Sallow Kitten Furcula furcula  Sallow Pigmy Stigmella salicis  Sandy Long-horn Nematopogon schwarziellus  Scalloped Hazel Odontopera bidentata  Scalloped Hook-tip Falcaria lacertinaria  Scarce Footman Eilema complana  Scarce Footman Bena bicolorana  Scarce Silver-lines Bena bicolorana  Scorched Wing Plagodis dolabraria  Scrubland Pigmy Stigmella plagicolella  Seraphim Lobophora halterata  Setaceous Hebrew Character Xestia c-nigrum  Short-barred Pigmy Stigmella luteella  Shuttle-shaped Dart Agrotis puta  Silver Y Autographa gamma  Silver-ground Carpet Xanthorhoe montanata  Single-dotted Wave Idaea dimidiata  Slender Brindle Apamea scolopacina  Small Birch Bell Epinotia ramella  Small Dotted Buff Photedes minima  Small Elm Midget Phyllonorycter schreberella  Small Fan-foot Herminia grisealis  Idaea biselata	Ruby Tiger	Phragmatobia fuliginosa
Sallow Kitten Furcula furcula Sallow Pigmy Stigmella salicis Sandy Long-horn Nematopogon schwarziellus Scalloped Hazel Odontopera bidentata Scalloped Hook-tip Falcaria lacertinaria Scalloped Oak Crocallis elinguaria Scarce Footman Eilema complana Scarce Silver-lines Bena bicolorana Scorched Wing Plagodis dolabraria Scrubland Pigmy Stigmella plagicolella Seraphim Lobophora halterata Setaceous Hebrew Character Xestia c-nigrum Short-barred Pigmy Stigmella luteella Shuttle-shaped Dart Agrotis puta Silver-ground Carpet Xanthorhoe montanata Single-dotted Wave Idaea dimidiata Slender Brindle Apamea scolopacina Small Birch Bell Epinotia ramella Small Elm Midget Phyllonorycter schreberella Small Fan-foot Herminia grisealis Small Fan-footed Wave Idaea biselata	Rustic Shoulder-knot	Apamea sordens
Sallow Pigmy       Stigmella salicis         Sandy Long-horn       Nematopogon schwarziellus         Scalloped Hazel       Odontopera bidentata         Scalloped Hook-tip       Falcaria lacertinaria         Scalloped Oak       Crocallis elinguaria         Scarce Footman       Eilema complana         Scarce Silver-lines       Bena bicolorana         Scorched Wing       Plagodis dolabraria         Scrubland Pigmy       Stigmella plagicolella         Seraphim       Lobophora halterata         Setaceous Hebrew Character       Xestia c-nigrum         Short-barred Pigmy       Stigmella luteella         Short-barred Pigmy       Stigmella luteella         Shuttle-shaped Dart       Agrotis puta         Silver Y       Autographa gamma         Silver-ground Carpet       Xanthorhoe montanata         Single-dotted Wave       Idaea dimidiata         Slender Brindle       Apamea scolopacina         Small Birch Bell       Epinotia ramella         Small Elm Midget       Phyllonorycter schreberella         Small Fan-foot       Herminia grisealis         Small Fan-footed Wave       Idaea biselata	Sallow	Xanthia icteritia
Sandy Long-horn  Nematopogon schwarziellus  Scalloped Hazel  Odontopera bidentata  Scalloped Hook-tip  Falcaria lacertinaria  Scalloped Oak  Crocallis elinguaria  Scarce Footman  Eilema complana  Scarce Silver-lines  Bena bicolorana  Scorched Wing  Plagodis dolabraria  Scrubland Pigmy  Stigmella plagicolella  Seraphim  Lobophora halterata  Setaceous Hebrew Character  Xestia c-nigrum  Short-barred Pigmy  Stigmella luteella  Shuttle-shaped Dart  Agrotis puta  Silver Y  Autographa gamma  Silver-ground Carpet  Xanthorhoe montanata  Single-dotted Wave  Idaea dimidiata  Slender Brindle  Apamea scolopacina  Small Birch Bell  Epinotia ramella  Small Cotted Buff  Photedes minima  Small Elm Midget  Phyllonorycter schreberella  Small Fan-foot  Herminia grisealis  Small Fan-footed Wave  Idaea biselata	Sallow Kitten	Furcula furcula
Scalloped Hazel Scalloped Hook-tip Falcaria lacertinaria Scalloped Oak Crocallis elinguaria Scarce Footman Eilema complana Scarce Silver-lines Bena bicolorana Scorched Wing Plagodis dolabraria Scrubland Pigmy Stigmella plagicolella Seraphim Lobophora halterata Setaceous Hebrew Character Xestia c-nigrum Short-barred Pigmy Stigmella luteella Shuttle-shaped Dart Agrotis puta Silver Y Autographa gamma Silver-ground Carpet Xanthorhoe montanata Single-dotted Wave Idaea dimidiata Slender Brindle Small Birch Bell Epinotia ramella Small Elm Midget Phyllonorycter schreberella Small Fan-foot Herminia grisealis Small Fan-footed Wave Idaea biselata	Sallow Pigmy	Stigmella salicis
Scalloped Hook-tip  Scalloped Oak  Crocallis elinguaria  Scarce Footman  Eilema complana  Scarce Silver-lines  Bena bicolorana  Scorched Wing  Plagodis dolabraria  Scrubland Pigmy  Stigmella plagicolella  Seraphim  Lobophora halterata  Setaceous Hebrew Character  Xestia c-nigrum  Short-barred Pigmy  Stigmella luteella  Shuttle-shaped Dart  Agrotis puta  Silver Y  Autographa gamma  Silver-ground Carpet  Xanthorhoe montanata  Single-dotted Wave  Idaea dimidiata  Slender Brindle  Apamea scolopacina  Small Birch Bell  Small Dotted Buff  Photedes minima  Small Elm Midget  Herminia grisealis  Small Fan-footed Wave  Idaea biselata	Sandy Long-horn	Nematopogon schwarziellus
Scalloped Oak Crocallis elinguaria Scarce Footman Eilema complana Scarce Silver-lines Bena bicolorana Scorched Wing Plagodis dolabraria Scrubland Pigmy Stigmella plagicolella Seraphim Lobophora halterata Setaceous Hebrew Character Xestia c-nigrum Short-barred Pigmy Stigmella luteella Shuttle-shaped Dart Agrotis puta Silver Y Autographa gamma Silver-ground Carpet Xanthorhoe montanata Single-dotted Wave Idaea dimidiata Slender Brindle Apamea scolopacina Small Birch Bell Epinotia ramella Small Cotted Buff Photedes minima Small Elm Midget Phyllonorycter schreberella Small Fan-foot Hermina grisealis Idaea biselata	Scalloped Hazel	Odontopera bidentata
Scarce Footman  Eilema complana  Scarce Silver-lines  Bena bicolorana  Scorched Wing  Plagodis dolabraria  Scrubland Pigmy  Stigmella plagicolella  Seraphim  Lobophora halterata  Setaceous Hebrew Character  Xestia c-nigrum  Short-barred Pigmy  Stigmella luteella  Shuttle-shaped Dart  Agrotis puta  Silver Y  Autographa gamma  Silver-ground Carpet  Xanthorhoe montanata  Single-dotted Wave  Idaea dimidiata  Slender Brindle  Apamea scolopacina  Small Birch Bell  Epinotia ramella  Small Dotted Buff  Photedes minima  Small Elm Midget  Phyllonorycter schreberella  Small Fan-foot  Malea biselata	Scalloped Hook-tip	Falcaria lacertinaria
Scarce Silver-lines  Scorched Wing  Plagodis dolabraria  Scrubland Pigmy  Stigmella plagicolella  Seraphim  Lobophora halterata  Setaceous Hebrew Character  Xestia c-nigrum  Short-barred Pigmy  Stigmella luteella  Shuttle-shaped Dart  Agrotis puta  Silver Y  Autographa gamma  Silver-ground Carpet  Xanthorhoe montanata  Single-dotted Wave  Idaea dimidiata  Slender Brindle  Apamea scolopacina  Small Birch Bell  Epinotia ramella  Small Dotted Buff  Photedes minima  Small Elm Midget  Phyllonorycter schreberella  Small Fan-foot  Male a biselata	Scalloped Oak	Crocallis elinguaria
Scorched Wing Scrubland Pigmy Stigmella plagicolella Seraphim Lobophora halterata Setaceous Hebrew Character Xestia c-nigrum Short-barred Pigmy Stigmella luteella Shuttle-shaped Dart Agrotis puta Silver Y Autographa gamma Silver-ground Carpet Xanthorhoe montanata Single-dotted Wave Idaea dimidiata Slender Brindle Apamea scolopacina Small Birch Bell Epinotia ramella Small Dotted Buff Photedes minima Small Elm Midget Phyllonorycter schreberella Small Fan-foot Herminia grisealis Small Fan-footed Wave Idaea biselata	Scarce Footman	Eilema complana
Scrubland Pigmy Stigmella plagicolella Lobophora halterata Setaceous Hebrew Character Xestia c-nigrum Short-barred Pigmy Stigmella luteella Shuttle-shaped Dart Agrotis puta Silver Y Autographa gamma Silver-ground Carpet Xanthorhoe montanata Single-dotted Wave Idaea dimidiata Slender Brindle Apamea scolopacina Small Birch Bell Epinotia ramella Small Dotted Buff Photedes minima Small Elm Midget Phyllonorycter schreberella Small Fan-foot Herminia grisealis Small Fan-footed Wave Idaea biselata	Scarce Silver-lines	Bena bicolorana
SeraphimLobophora halterataSetaceous Hebrew CharacterXestia c-nigrumShort-barred PigmyStigmella luteellaShuttle-shaped DartAgrotis putaSilver YAutographa gammaSilver-ground CarpetXanthorhoe montanataSingle-dotted WaveIdaea dimidiataSlender BrindleApamea scolopacinaSmall Birch BellEpinotia ramellaSmall Dotted BuffPhotedes minimaSmall Elm MidgetPhyllonorycter schreberellaSmall Fan-footHerminia grisealisSmall Fan-footed WaveIdaea biselata	Scorched Wing	Plagodis dolabraria
Setaceous Hebrew Character  Short-barred Pigmy  Stigmella luteella  Shuttle-shaped Dart  Agrotis puta  Silver Y  Autographa gamma  Silver-ground Carpet  Xanthorhoe montanata  Single-dotted Wave  Idaea dimidiata  Slender Brindle  Apamea scolopacina  Small Birch Bell  Epinotia ramella  Small Dotted Buff  Photedes minima  Small Elm Midget  Phyllonorycter schreberella  Small Fan-foot  Herminia grisealis  Small Fan-footed Wave  Idaea biselata	Scrubland Pigmy	Stigmella plagicolella
Short-barred Pigmy Stigmella luteella Shuttle-shaped Dart Agrotis puta Silver Y Autographa gamma Silver-ground Carpet Xanthorhoe montanata Single-dotted Wave Idaea dimidiata Slender Brindle Apamea scolopacina Small Birch Bell Epinotia ramella Small Dotted Buff Photedes minima Small Elm Midget Phyllonorycter schreberella Small Fan-foot Herminia grisealis Small Fan-footed Wave Idaea biselata	Seraphim	Lobophora halterata
Shuttle-shaped Dart Agrotis puta Silver Y Autographa gamma Silver-ground Carpet Xanthorhoe montanata Single-dotted Wave Idaea dimidiata Slender Brindle Apamea scolopacina Small Birch Bell Epinotia ramella Small Dotted Buff Photedes minima Small Elm Midget Phyllonorycter schreberella Small Fan-foot Herminia grisealis Small Fan-footed Wave Idaea biselata	Setaceous Hebrew Character	Xestia c-nigrum
Silver Y Autographa gamma Silver-ground Carpet Xanthorhoe montanata Single-dotted Wave Idaea dimidiata Slender Brindle Apamea scolopacina Small Birch Bell Epinotia ramella Small Dotted Buff Photedes minima Small Elm Midget Phyllonorycter schreberella Small Fan-foot Herminia grisealis Small Fan-footed Wave Idaea biselata	Short-barred Pigmy	Stigmella luteella
Silver-ground Carpet  Xanthorhoe montanata  Single-dotted Wave  Idaea dimidiata  Slender Brindle  Apamea scolopacina  Small Birch Bell  Epinotia ramella  Small Dotted Buff  Photedes minima  Small Elm Midget  Phyllonorycter schreberella  Small Fan-foot  Herminia grisealis  Small Fan-footed Wave  Idaea biselata	Shuttle-shaped Dart	Agrotis puta
Single-dotted Wave Idaea dimidiata Slender Brindle Apamea scolopacina Small Birch Bell Epinotia ramella Small Dotted Buff Photedes minima Small Elm Midget Phyllonorycter schreberella Small Fan-foot Herminia grisealis Small Fan-footed Wave Idaea biselata	Silver Y	Autographa gamma
Slender Brindle Apamea scolopacina  Small Birch Bell Epinotia ramella  Small Dotted Buff Photedes minima  Small Elm Midget Phyllonorycter schreberella  Small Fan-foot Herminia grisealis  Small Fan-footed Wave Idaea biselata	Silver-ground Carpet	Xanthorhoe montanata
Small Birch Bell Epinotia ramella  Small Dotted Buff Photedes minima  Small Elm Midget Phyllonorycter schreberella  Small Fan-foot Herminia grisealis  Small Fan-footed Wave Idaea biselata	Single-dotted Wave	Idaea dimidiata
Small Dotted Buff Photedes minima  Small Elm Midget Phyllonorycter schreberella  Small Fan-foot Herminia grisealis  Small Fan-footed Wave Idaea biselata	Slender Brindle	Apamea scolopacina
Small Elm Midget     Phyllonorycter schreberella       Small Fan-foot     Herminia grisealis       Small Fan-footed Wave     Idaea biselata	Small Birch Bell	Epinotia ramella
Small Fan-foot     Herminia grisealis       Small Fan-footed Wave     Idaea biselata	Small Dotted Buff	Photedes minima
Small Fan-foot     Herminia grisealis       Small Fan-footed Wave     Idaea biselata	Small Elm Midget	Phyllonorycter schreberella
Small Fan-footed Wave Idaea biselata		Herminia grisealis
Small Phoenix Ecliptopera silaceata	Small Fan-footed Wave	
	Small Phoenix	Ecliptopera silaceata

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Small Purple & Gold	Pyrausta aurata	
Small Square-spot	Diarsia rubi	
Small Wainscot	Chortodes pygmina	
Smoky Wainscot	Mythimna impura	
Snout	Hypena proboscidalis	
Spectacle	Abrostola tripartita	
Spotted Black Pigmy	Ectoedemia subbimaculella	
Spruce Bud Moth	Zeiraphera ratzeburgiana	
Spruce Carpet	Thera britannica	
Square-spot Rustic	Xestia xanthographa	
Straw Dot	Rivula sericealis	
Straw Grass-veneer	Agriphila straminella	
Streamer	Anticlea derivata	
Svensson's Copper Underwing	Amphipyra berbera	
Swallow Prominent	Pheosia tremula	
Swallow-tailed Moth	Ourapteryx sambucaria	
Sycamore	Acronicta aceris	
Tawny-barred Angle	Macaria liturata	
Thistle Ermine	Myelois circumvoluta	
Tipped Oak Case-bearer	Coleophora flavipennella	
Triple-spotted Pug	Eupithecia trisignaria	
Turnip Moth	Agrotis segetum	
Twin-spot Carpet	Perizoma didymata	
Two-spotted Neb	Eulamprotes atrella	
Vapourer	Orgyia antiqua	
Variegated Golden Tortrix	Archips xylosteana	
Warted Knot-horn	Acrobasis repandana	
Water Carpet	Lampropteryx suffumata	
Water Veneer	Acentria ephemerella	
Waved Umber	Menophra abruptaria	
White Oak Case-bearer	Coleophora kuehnella	
Willow Beauty	Peribatodes rhomboidaria	
Woundwort Case-bearer	Coleophora lineolea	
Yarrow Conch	Aethes smeathmanniana	
Yellow Shell	Camptogramma bilineata	
Yellow-tail	Euproctis similis	
	<u>                                     </u>	

-	Coleophora flavipennella
-	Coleophera gryphipennella
-	Emmetia marginea
-	Acrobasis advenella
-	Dyseriocrania subpurpurella
-	Eudonia lacustrata
-	Notocelia trimaculana

# Appendix 7 Dragonflies and damselflies recorded from Bourne Wood 1979-2013

Scientific name	English Name	
Aeshna cyanea	Southern Hawker	
Aeshna grandis	Brown Hawker	
Aeshna mixta	Migrant Hawker	
Anax imperator	Emperor Dragonfly	
Calopteryx splendens	Banded Demoiselle	
Coenagrion puella	Azure Damselfly	
Enallagma cyathigerum	Common Blue Damselfly	
Erythromma najas	Red-eyed Damselfly	
Ischnura elegans	Blue-tailed Damselfly	
Libellula depressa	Broad-bodied Chaser	
Libellula quadrimaculata	Four-spotted Chaser	
Orthetrum cancellatum	Black-tailed Skimmer	
Platycnemis pennipes	White-legged Damselfly	
Pyrrhosoma nymphula	Large Red Damselfly	
Sympetrum striolatum	Common Darter	

Notes		





# **BOURNE WOOD**



# A portrayal of a wood in Kesteven

by Richard G Jefferson

This booklet provides an insight into the history and natural history of Bourne Wood, a large ancient woodland in south Lincolnshire, UK. Its contribution to nature conservation and local amenity are outlined.

