

## DORSET LOCAL NATURE RECOVERY STRATEGY HABITAT ASSEMBLAGES

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|---------------------------------------|---|
| <b>Habitat assemblage:</b>            | Species of ancient and long-established woodland  |
| <b>Broad Habitat type:</b>            | Woodlands   |
| <b>S41 and Priority Habitat type:</b> | Lowland Mixed Deciduous Woodland<br>Wood-pasture and Parkland<br>Lowland Beech and Yew Woodland   |
| <b>Composite species assemblages:</b> | Woodland birds<br>Woodland mammals<br>Woodland bats<br>Invertebrates of ancient and long-established woodland and parkland<br>Moths of ancient and long-established woodland and parkland<br>Plants of ancient and long-established woodland<br>Ectomycorrhizal and saprotrophic fungi of ancient and long-established woodland |

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| <b>Habitat assemblage description:</b> | <p>Woodlands are among our most biodiversity-rich semi-natural habitats. They have specific soil types and are relatively undisturbed and nutrient-poor and rich in ectomycorrhizal fungi which in turn are important for the establishment and health for many trees species. The micro-climate is warmer and more sheltered than the surrounding countryside which is important for birds and invertebrates. Sites with a long continuity of wooded cover (e.g. Ancient Woodland) are of particular importance as they are more likely to support specialist species that are confined to such sites and have low powers of dispersal.</p> <p>There are approximately 3820-hectares of ancient woodland (present before 1600) in Dorset plus 3760-ha that has been felled and replanted mostly with non-native commercial forestry trees, referred as Plantations on Ancient Woodland Sites (PAWS woodland). There is a further 7770-ha classed as long-established woodland this includes old plantations. Together, these comprise 29% of all woodland in Dorset. The majority of woods in Dorset are small (&lt;10-ha) 'farm woods' with many formerly managed as coppice-with-standards but with the decline in large-scale coppicing many have no management or have effectively become high-forest with the standard trees gradually shading-out the understorey shrubs. The most extensive woodland in the county is found in Cranborne Chase on the Dorset-Wiltshire border.</p> <p>There are three other woodland assemblages for species that have more specific habitat requirements within woodland and wood-pasture sites such as old-growth features or are found in wet woodland.</p> |
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| <b>Other woodland assemblages</b> | Species of open woodland, glades, rides and early-stage coppice<br>Species of veteran and ancient trees and deadwood features of old growth woodland<br>Species of wet woodland |
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| <b>Pressures and Threats</b> |   |
| <b>PA07</b>                  | <b>Intensive grazing or overgrazing by livestock</b>  |
|                              | Intensive grazing by livestock or wild/feral deer can produce a grassier ground layer and reduction in the diversity and abundance of the woodland specialist flora. It also prevents regeneration of trees and shrubs by the grazing of seedlings and saplings.  |
| <b>PA08</b>                  | <b>Extensive grazing or under-grazing by livestock</b>  |
|                              | Many woods in Dorset are small (<10-ha) 'farm woodlands' that were partially open to grazing or to provide shelter or access to water in a stream. The fencing out of stock and periodic grazing and disturbance can lead a more homogenous structure without niches provided by small scales disturbances.   |
| <b>PA13</b>                  | <b>Application of natural or synthetic fertilisers on agricultural land</b>   |
|                              | Many woods are directly adjacent to woodland and the regular application of artificial fertilizers or slurry can lead to localised enrichment at the edge of the wood with a resulting increase in species such as bramble, ivy and stinging nettle. In the long term the ground flora may become more homogenous and species-poor.   |
| <b>PB02</b>                  | <b>Conversion from one type of forestry land use to another</b>   |
|                              | Felling of native trees and replacement with monocultures of non-native trees is highly detrimental to woodland biodiversity. It can also affect structure by the removal of the shrub layer which is important for many birds and invertebrates. Monocultures, even of some native species, are more susceptible to trees diseases.  |
| <b>PB04</b>                  | <b>Abandonment of traditional forest management</b>   |
|                              | <p>Traditional small-scale woodland management has ceased in the majority of woods particularly those small 'farm-woods' that are difficult to access by large machinery. This has led to a change in woodland structure and micro-climate with many sites becoming shadier and cooler resulting in the decline of some species particularly those associated with open habitats within woods and the early stage of coppice (see other guidance).</p> <p>Through the efforts of the Dorset Coppice Group there has been a slight increase in coppicing in recent years, and small-scale coppicing is often carried by conservation organisations on nature reserves.</p> |
| <b>PB06</b>                  | <b>Logging or thinning (excluding clear cutting)</b>  |
|                              | Felling and thinning are required to obtain a crop in commercial woodlands and for products such as firewood in smaller woods. Such activity can if undertaken sensitively benefit woodland biodiversity and generate income for the owner or site manager. Damage normally occurs in the form of direct damage to the bases of other trees, compaction of the soil and localised erosion. Good forestry practice can significantly reduce any damage. At a few sites on steep  |

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|             | <p>slopes or where the ground is wet extraction using horses can be preferable to using heavy vehicles.</p> <p>Recent commercial forestry techniques such as Continuous Cover Forestry promote more frequent but smaller and more selective interventions which may lessen the impacts on semi-natural woodland.</p>   |
| <b>PF05</b> | <b>Sports, tourism and leisure activities</b>  |
|             | <p>With a decline in traditional woodland management in the majority of woods in Dorset and in some other activities are replacing it. In certain (but by no means all) circumstances these leisure activities may cause localised erosion, enrichment and disturbance and be detriment to woodland biodiversity if not managed properly.</p>  |
| <b>PI02</b> | <b>Other invasive alien species</b>  |
|             | <p>In woodland the main non-native species are those that have been planted for gamebird cover notably cherry laurel and rhododendron, with snowberry and Wilson's honeysuckle on a more localised scale.</p> <p>sika deer are not native to Britain and there are particularly high levels in parts of Dorset which are having a negative impact on woods in reducing or eliminating seedlings and saplings and causing erosion on wet ground and steep slopes. Heavy grazing inside the wood favours a species-poor grassy ground flora at the expense of the many woodland specialist plants. Muntjac are also present and can impact on coppice regrowth.</p> <p>The damage cause by grey squirrel to young broadleaf trees can be a significant problem, especially where the production of quality timber is a management objective. Even in woodlands managed purely for biodiversity, high levels of grey squirrels may result in long-term profound changes to woodland composition and structure as certain trees species are damaged and the development of mature high canopy is impaired.</p> <p>Garden plants are increasingly becoming naturalised along the edges of woods, especially in or near towns and villages, with Spanish bluebell, variegated yellow archangel and lesser periwinkle being the most frequent and potentially invasive.</p> |
| <b>PI03</b> | <b>Problematic native species</b>  |
|             | <p>Changes to our woods such as increasing shade due to lack of management plus increasing enrichment and warmer winters has led to an increase in native species such as bramble, ivy, stinging nettle and holly all of which in certain circumstances can have a detrimental effect on other woodland plants, or in the case of Ivy and Holly shading the trunks of trees that support scarce and threatened epiphytes. Other native species such as wood small-reed and pendulous sedge are invasive in particular situations favouring disturbance and / or compaction and can be abundant along forestry rides to the detriment of smaller herbs.</p>   |
| <b>PI04</b> | <b>Plant and animal diseases, pathogens and pests</b>  |
|             | <p>There are several pathogenic tree diseases effecting native trees and others may colonise as a result of the changing climate. Ash die-back is currently the most damaging as ash is often the most abundant tree in woods on the chalk</p>   |

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|             | scarp, and it is unclear what will replace the ash once it has died. Sycamore is a possibility but it casts significant shade. This shade can affect the hazel understorey and significantly reduce the diversity of the ground flora.  |
| <b>PJ03</b> | <b>Changes in precipitation regimes due to climate change</b>   |
|             | Increased and prolonged droughts, especially in the spring, can cause stress on trees which may make them more susceptible to pathogenic diseases or fungi such as honey-fungus. High rainfall leading to increased flooding events which may bring sediment in from adjoining areas causing localised enrichment of the soils favouring competitive nitrogen tolerant plants such as stinging nettle, bramble and ivy. |
| <b>PJ07</b> | <b>Cyclones, storms, or tornados due to climate change</b>  |
|             | Increased storm events in the forms of periods of high winds will lead to the loss of trees, which is detrimental to those species associated with the trees but can be beneficial in creating canopy gaps promoting a new generation of saplings.  |
| <b>PK04</b> | <b>Atmospheric N-deposition</b>   |
|             | Many of the specialist plants and fungi prefer nutrient-poor soils and the low levels of deposition of nitrogen compounds over a long period will lead to enrichment and the increased growth of more competitive and faster growing species. The effects are compounded by climate change and the lack of traditional management.  |

Micro-habitat assemblage: Woodland birds

| Group | Species                        | Common Name               | IUCN GB | IUCN Eng | IUCN other | Criteria | Threats / Pressures |       |       |   |   |   |   |   |   |   |
|-------|--------------------------------|---------------------------|---------|----------|------------|----------|---------------------|-------|-------|---|---|---|---|---|---|---|
| Birds | <i>Accipiter nisus</i>         | Sparrowhawk               | AMBER   | n/a      | n/a        | 2        | .                   | .     | .     | . | . | . | . | . | . | . |
| Birds | <i>Dendrocopos minor</i>       | Lesser Spotted Woodpecker | RED     | n/a      | n/a        | 1        | .PA07               | PI02. | .PI02 | . | . | . | . | . | . | . |
| Birds | <i>Muscicapa striata</i>       | Spotted Flycatcher        | RED     | n/a      | n/a        | 1        | .                   | .     | .     | . | . | . | . | . | . | . |
| Birds | <i>Pernis apivorus</i>         | European Honey-buzzard    | AMBER   | n/a      | n/a        | 2        | .                   | .     | .     | . | . | . | . | . | . | . |
| Birds | <i>Phoenicurus phoenicurus</i> | Common Redstart           | AMBER   | n/a      | n/a        | 2        | .                   | .     | .     | . | . | . | . | . | . | . |
| Birds | <i>Phylloscopus sibilatrix</i> | Wood Warbler              | RED     | n/a      | n/a        | 1        | .PA08               | .     | .     | . | . | . | . | . | . | . |
| Birds | <i>Phylloscopus trochilus</i>  | Willow Warbler            | AMBER   | n/a      | n/a        | 2        | .                   | .     | .     | . | . | . | . | . | . | . |
| Birds | <i>Poecile palustris</i>       | Marsh Tit                 | RED     | n/a      | n/a        | 1        | .                   | .     | .     | . | . | . | . | . | . | . |
| Birds | <i>Scolopax rusticola</i>      | Eurasian Woodcock         | RED     | n/a      | n/a        | 1        | PA14                | .     | .     | . | . | . | . | . | . | . |
| Birds | <i>Strix aluco</i>             | Tawny Owl                 | AMBER   | n/a      | n/a        | 2        | .                   | .     | .     | . | . | . | . | . | . | . |

Micro-habitat assemblage: Woodland mammals

| Group   | Species                         | Common Name           | IUCN GB | IUCN Eng | IUCN other | Criteria | Threats / Pressures |      |      |      |   |   |   |   |   |   |
|---------|---------------------------------|-----------------------|---------|----------|------------|----------|---------------------|------|------|------|---|---|---|---|---|---|
| Mammals | <i>Sciurus vulgaris</i>         | Eurasian Red Squirrel | EN      | EN       | LC         | 1        | .                   | .    | .    | .    | . | . | . | . | . | . |
| Mammals | <i>Muscardinus avellanarius</i> | Hazel Dormouse        | VU      | VU       | LC         | 1        | PA04                | PA05 | PB04 | PB05 | . | . | . | . | . | . |
| Mammals | <i>Martes martes</i>            | Pine Marten           | LC      | CR       | LC         | 1, 6     | .                   | .    | .    | .    | . | . | . | . | . | . |

Micro-habitat assemblage: Woodland bats

| Group | Species                          | Common Name           | IUCN GB | IUCN Eng | IUCN other | Criteria | Threats / Pressures |      |      |      |      |      |      |   |   |   |
|-------|----------------------------------|-----------------------|---------|----------|------------|----------|---------------------|------|------|------|------|------|------|---|---|---|
| Bats  | <i>Myotis bechsteinii</i>        | Bechstein's Bat       | LC      | LC       | VU (GRL)   | 1        | PA03                | PA14 | PB04 | PB07 | PB08 | PB14 | PB17 | . | . | . |
| Bats  | <i>Myotis brandtii</i>           | Brandt's Bat          | DD      | DD       | LC         | ?        | .                   | .    | .    | .    | .    | .    | .    | . | . | . |
| Bats  | <i>Myotis mystacinus</i>         | Whiskered Bat         | DD      | DD       | LC         | ?        | .                   | .    | .    | .    | .    | .    | .    | . | . | . |
| Bats  | <i>Nyctalus leisleri</i>         | Lesser Noctule        | NT      | NT       | n/a        | 2        | PA03                | PA14 | PB04 | PB07 | PB08 | PB14 | PB17 | . | . | . |
| Bats  | <i>Rhinolophus hipposideros</i>  | Lesser Horseshoe Bat  | LC      | LC       | NT (ERL)   | 1        | PA03                | PA14 | .    | .    | .    | .    | .    | . | . | . |
| Bats  | <i>Rhinolophus ferrumequinum</i> | Greater Horseshoe Bat | LC      | LC       | NT (ERL)   | 1        | PA03                | PA14 | .    | .    | .    | .    | .    | . | . | . |
| Bats  | <i>Barbastella barbastellus</i>  | Western Barbastelle   | VU      | VU       | VU (ERL)   | 1        | PA03                | PA14 | PB04 | PB07 | PB08 | PB14 | PB17 | . | . | . |
| Bats  |                                  | Noctule               |         |          |            |          |                     |      |      |      |      |      |      |   |   |   |
| Bats  |                                  | Leisler's Bat         |         |          |            |          |                     |      |      |      |      |      |      |   |   |   |
| Bats  |                                  | Daubenton's Bat       |         |          |            |          |                     |      |      |      |      |      |      |   |   |   |
| Bats  |                                  | Grey Long-eared Bat   |         |          |            |          |                     |      |      |      |      |      |      |   |   |   |
| Bats  |                                  | Brown Long-eared Bat  |         |          |            |          |                     |      |      |      |      |      |      |   |   |   |

Micro-habitat assemblage: Invertebrates and moths of ancient and long-established woodland

| Group | Species | Common Name | IUCN GB | IUCN Eng | IUCN other | Criteria | Threats / Pressures |  |  |  |  |  |  |  |  |  |
|-------|---------|-------------|---------|----------|------------|----------|---------------------|--|--|--|--|--|--|--|--|--|
|-------|---------|-------------|---------|----------|------------|----------|---------------------|--|--|--|--|--|--|--|--|--|

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|-------|---------------------------------|--|------|-----|-----|------|---|---|---|---|---|---|---|---|
| Flies | <i>Cheilosia semifasciata</i>   |  | LC   | n/a | n/a | 4    | . | . | . | . | . | . | . | . |
| Moths | <i>Cossus cossus</i>            | Goat Moth                                |      | n/a | n/a | 5    | . | . | . | . | . | . | . | . |
| Moths | <i>Cymatophorina diluta</i>     | Oak Lutestring                           | EN   | n/a | n/a | 1    | . | . | . | . | . | . | . | . |
| Moths | <i>Meganola strigula</i>        | Small Black Arches                       |      | n/a | n/a | 5    | . | . | . | . | . | . | . | . |
| Moths | <i>Moma alpinum</i>             | Scarce Merveille du Jour                 |      | n/a | n/a | 5    | . | . | . | . | . | . | . | . |
| Moths | <i>Mythimna turca</i>           | Double-line                              |      | n/a | n/a | 4    | . | . | . | . | . | . | . | . |
| Moths | <i>Plitophora plumigera</i>     | Plumed Prominent                         |      |     |     | 4    | . | . | . | . | . | . | . | . |
| Moths | <i>Acrolepiopsis marcidella</i> | Ruscus Moth; Elusive Smudge              | pRDB | n/a | n/a | 3, 5 | . | . | . | . | . | . | . | . |
| Moths | <i>Agroteta nemoralis</i>       | Beautiful Pearl                          |      |     |     | 4    | . | . | . | . | . | . | . | . |
| Moths | <i>Aplota palpellus</i>         | Gold-flecked Hopper; Scarce Brown Streak | pRDB | n/a | n/a | 4    | . | . | . | . | . | . | . | . |
| Moths | <i>Anania stachydalis</i>       | Woundwort Pearl                          |      |     |     | 5    | . | . | . | . | . | . | . | . |

Micro-habitat assemblage: Plants of ancient and long-established woodland

| Group  | Species                         | Common Name              | IUCN GB | IUCN Eng | IUCN other | Criteria | Threats / Pressures |      |      |   |   |   |   |   |
|--------|---------------------------------|--------------------------|---------|----------|------------|----------|---------------------|------|------|---|---|---|---|---|
| Plants | <i>Carex depauperata</i>        | Starved Wood-sedge       | EN      | EN       | n/a        | 1        | PA08                | PI03 | .    | . | . | . | . | . |
| Plants | <i>Cephalanthera damasonium</i> | White Helleborine        | VU      | VU       | n/a        | 1        | PB04                | PJ03 | PK04 |   | . | . | . | . |
| Plants | <i>Melampyrum pratense</i>      | Common Cow-wheat         | .       | NT       | n/a        | 2        | PB04                | PB15 | .    | . | . | . | . | . |
| Plants | <i>Neottia nidus-avis</i>       | Bird's-nest Orchid       | NT      | VU       | n/a        | 1        | PB02                | PJ03 | PK04 | . | . | . | . | . |
| Plants | <i>Ophrys insectifera</i>       | Fly Orchid               | VU      | VU       | n/a        | 1        | PB04                | PK04 | .    | . | . | . | . | . |
| Plants | <i>Platanthera chlorantha</i>   | Greater Butterfly-orchid | NT      | LC       | n/a        | 2        | PA08                | PB04 | PK04 | . | . | . | . | . |

Micro-habitat assemblage: Fungi of ancient and long-established woodland

| Group | Species                            | Common Name       | IUCN GB | IUCN Eng | IUCN other | Criteria | Threats / Pressures |      |      |      |      |      |      |   |
|-------|------------------------------------|-------------------|---------|----------|------------|----------|---------------------|------|------|------|------|------|------|---|
| Fungi | <i>Aureoboletus gentilis</i>       | Gilded Bolete     | NT      | n/a      | n/a        | 2        | PB02                | PB03 | PB05 | PB06 | PB09 | PB15 | PK04 | . |
| Fungi | <i>Cantharellus ferruginascens</i> |                   | n/a     | n/a      | n/a        | 4        | PB02                | PB03 | PB05 | PB06 | PB09 | PB15 | PK04 | . |
| Fungi | <i>Chalciporus rubinus</i>         | Crimson Boletes   | VU      | n/a      | VU(Eur)    | 1, 4     | PA08                | PK04 | .    | .    | .    | .    | .    | . |
| Fungi | <i>Clavariadelphus pistillaris</i> | Giant Club        | n/a     | n/a      | n/a        | 4        | PB02                | PB03 | PB05 | PB06 | PB09 | PB15 | PK04 | . |
| Fungi | <i>Conocybe aeruginosa</i>         | Verdigris Conecap | n/a     | n/a      | n/a        | 4        | PB06                | PB15 | PK04 | .    | .    | .    | .    | . |
| Fungi | <i>Hydrellium concrescens</i>      |                   | n/a     | n/a      | n/a        | 4        | PB02                | PB03 | PB05 | PB06 | PB09 | PB15 | PK04 | . |
| Fungi | <i>Hydrellium ferrugineum</i>      |                   | n/a     | n/a      | n/a        | 4        | PB02                | PB03 | PB05 | PB06 | PB09 | PB15 | PK04 | . |
| Fungi | <i>Hydrellium scrobiculatum</i>    |                   | n/a     | n/a      | n/a        | 4        | PB02                | PB03 | PB05 | PB06 | PB09 | PB15 | PK04 | . |
| Fungi | <i>Hydrellium spongiosipes</i>     |                   | n/a     | n/a      | n/a        | 4        | PB02                | PB03 | PB05 | PB06 | PB09 | PB15 | PK04 | . |
| Fungi | <i>Hygrophorus lindtneri</i>       |                   | n/a     | n/a      | n/a        | 4        | PB02                | PB03 | PB05 | PB06 | PB09 | PB15 | PK04 | . |
| Fungi | <i>Lactarius flavidus</i>          |                   | n/a     | n/a      | n/a        | 4        | PB02                | PB03 | PB05 | PB06 | PB09 | PB15 | PK04 | . |
| Fungi | <i>Lactarius spinulosus</i>        |                   | n/a     | n/a      | n/a        | 4        | PB02                | PB03 | PB05 | PB06 | PB09 | PB15 | PK04 | . |

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|-------|---|----------------|-----|-----|-----|------|------|------|------|------|------|------|------|---|
| Fungi | <i>Limacella delicata</i> var. <i>vinosorubescens</i> |                | n/a | n/a | n/a | 4    | PB02 | PB03 | PB05 | PB06 | PB09 | PB15 | PK04 | . |
| Fungi | <i>Lycoperdon mammiforme</i>                          | Flaky Puffball | VU  | n/a | n/a | 1    | PB02 | PB03 | PB05 | PB06 | PB09 | PB15 | PK04 | . |
| Fungi | <i>Phellodon confluens</i>                            |                | n/a | n/a | n/a | 4    | PB02 | PB03 | PB05 | PB06 | PB09 | PB15 | PK04 | . |
| Fungi | <i>Rubroboletus legaliae</i>                          |                | VU  | n/a | n/a | 1    | PB14 | PK04 | .    | .    | .    | .    | .    | . |
| Fungi | <i>Rubroboletus satanas</i>                           | Devil's Bolete | VU  | n/a | n/a | 1, 4 | PB14 | PK04 | .    | .    | .    | .    | .    | . |
| Fungi | <i>Hypocreopsis rhododendri</i>                       | Hazel Gloves   | n/a | n/a | n/a | 4    | PB07 | PB08 | .    | .    | .    | .    | .    | . |