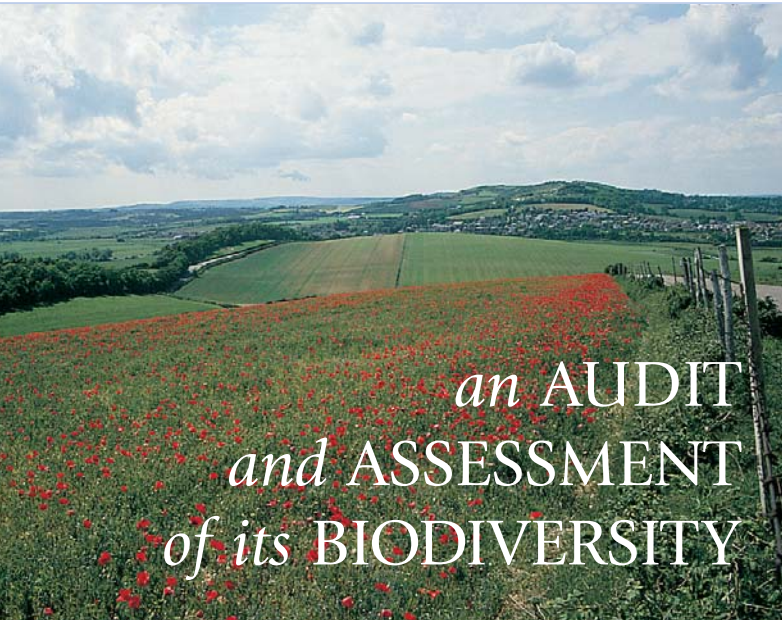




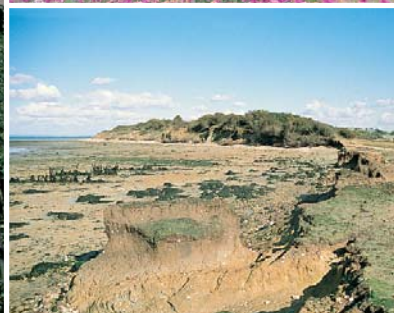
WILDLIFE



of the
ISLE *of*
WIGHT



an **AUDIT**
and **ASSESSMENT**
of its **BIODIVERSITY**



July 2000

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JULY 2000



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FOREWORD *by David Bellamy*



My first visit to the Isle of Wight was a family holiday the week before war broke out. Mum evidently thought we would never get home. I rather liked that idea. Since then, I have been to the Island many times, on holiday, botanising and filming, and so discovered that it is a very special place, overflowing with heritage, both natural and people made.

The first specimen I ever collected was a little phial of those famous coloured sands and the Needles taught me the importance of tiny planktonic plants in the building of dramatic landscapes, the making of oxygen and, much later, the control of the global greenhouse.

Sixty years ago, the Island was a patchwork of estates and well-run farms, all bursting with the rich biodiversity of flora and fauna. Gleaning dinosaur bones on the beaches almost turned me into a geologist, but the flowers of the chalk grasslands and formal gardens in the resorts helped direct my footsteps along the paths of botany.

We have lost so much of our semi-natural heritage since then and yet, the Island is still a rich source of biodiversity. Biodiversity may be merely a word, but it sums up late 20th-century ideas. Along with “heritage” and “millennium”, it is one of the words that celebrate the past and question the future. All across the country, local Biodiversity Action Plans are being written to focus attention on the need to protect the countryside and to carry out the right sort of management. We can all play our part. Without action to protect the biodiversity of the world, the future of our children is indeed bleak.

David Bellamy

ACKNOWLEDGEMENTS

In June 1999, the Isle of Wight local Biodiversity Action Plan process was launched with a presentation in the Quay Arts Centre in Newport. The Isle of Wight BAP process is overseen by a Steering Group made up of representatives from the following organisations:

Countryside Landowners Association, English Nature, Environment Agency, Hampshire and Isle of Wight Wildlife Trust, Isle of Wight Council, National Farmers' Union, National Trust, Royal Society for the Protection of Birds, Wight Wildlife.

In addition, a much larger network of national and local organisations and individuals form the wider partnership. They are kept informed of progress via an occasional newsletter and it is anticipated that many will become further involved as the process develops.

The production of this report has been made possible by the contribution of time and expertise by

many individuals and organisations. In particular, the following have contributed information relating to their records of Island species:

*Andy Barker, David Biggs, David Carr, Jim Cheverton, Simon Colenutt,
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EXECUTIVE SUMMARY

This book has been written as part of a national (and world-wide) process to protect the variety of living things on earth, and their habitats. Following the Rio de Janeiro Earth Summit in 1992, each country is in the process of developing a national Biodiversity Action Plan. At the local level, individuals and communities are working out these principles and projects for the benefit of habitats and species in their immediate environment. The production of a Biodiversity Action Plan is part of local Agenda 21, a process which aims to involve people in deciding the priorities for the long-term health and well-being of their communities.

This book takes stock of our present knowledge of the Island's habitats and species, based upon information supplied by local and national experts and organisations. It is designed to be a springboard for the conservation of our biodiversity by providing an objective factual basis from which to consider priorities for taking forward the conservation of our wildlife and their habitats.

The Isle of Wight is a microcosm of south-east England and has, size for size, its fair share of the habitats characteristic of the region. In fact, we are unusually rich in species and habitats compared to other similar areas on the mainland. The chalk grasslands, the maritime cliffs and slopes, and the estuaries are particularly important, not only in a regional context but also on a national and international scale. The mere fact that we are an island located off the south coast has consequences for the wildlife as well as for the human population. We do not have introduced species such as grey squirrels, deer or mink; this allows populations of native animals which have become rare on the mainland, such as red squirrels, dormice and water voles to flourish. Our mild climate and maritime situation provides a foothold for species such as the Glanville fritillary butterfly, on the northern edge of their European range.

Much of the Island is covered by nature conservation and other designations. About half of the Island has Area of Outstanding Natural Beauty status, in recognition of its landscape value. 11% of the land area is designated as Sites of Special Scientific Interest and much of this, particularly around the coastline, is also considered to be of international importance. A further 10% has been identified locally as having value as Sites of Importance for Nature Conservation.

Many species of conservation concern which have been identified at the national level occur on the Island. The Island has 54 of those which are regarded as national priorities; they include the dormouse, song thrush, red squirrel, water vole, early gentian, skylark and starlet sea anemone. A further 180 species are also seen as important on the national scale -- butterflies such as the Adonis

blue and pearl-bordered fritillary; marine life such as the native oyster and dogwhelk; freshwater fish such as bullhead and brook lamprey; wild flowers such as the cornflower and field cow-wheat; birds such as the barn owl and nightjar; and the many species of bats.

In addition, another 455 species, which are locally distinctive have been identified by local experts and enthusiasts. They include a diverse range of species such as mantis shrimps, wasp spiders, wall lizards and pink wax-cap fungi.

There have been many changes in the countryside and the wildlife it supports throughout history. As a consequence of human activities, chalk grassland on the Isle of Wight has declined in area by two-thirds since 1850, and even greater losses have occurred to heathland habitats. In more recent times, there have been increasing pressures relating to built development, whether for housing, roads or industry. Agricultural practice, driven by Government policy, has changed dramatically over the last 50 years and has resulted in change to our countryside. An estimated 72 species are considered to have become extinct locally within the last fifty years and very many more are in decline. These losses are largely due to habitat change or loss.

Over the next two years, plans will be developed by members of the Island's Biodiversity Action Plan Partnership, aimed at producing effective action to safeguard viable populations of species, and to conserve their habitats. A vital component of these action plans is to raise public awareness of the issues, to inform and educate both Island residents and visitors about the precious and fragile environment in which we all live. If we are to enjoy and appreciate the wonders of the natural world, then we must recognise our responsibilities and play our part in protecting it.

I N T R O D U C T I O N

Biodiversity is a shorthand expression for biological diversity. Article 2 of the Biodiversity Convention (UNCED 1992) defines biological diversity as:

"The variability among living things from all sources including, inter alia, terrestrial, marine and other aquatic ecosystems and the ecological complexes of which they are a part: this includes diversity within species, between species and of ecosystems."

The UK Government signed the Biodiversity Convention at the Rio Earth Summit in June 1992. This committed it to develop programmes (action plans) for the conservation and sustainable use of biodiversity (UNCED 1992).

The UK Steering Group report says:

"Local Biodiversity Action Plans are seen as a means by which actions at the local level can be achieved. One of their main functions is to ensure that national targets for species and habitats are attained in a consistent manner throughout the UK."

Local plans should seek to include targets which reflect the values of local people and which are based on a range of local conditions and thereby cater for local distinctiveness. The process of writing local Biodiversity Action Plans is becoming widespread throughout Britain.

Ten percent of the
Island has been
designated as
SINC's

In December 1993, a partnership of conservation organisations (The Royal Society for the Protection of Birds, The Wildlife Trusts, Plantlife, Butterfly Conservation, Friends of the Earth and World Wildlife Fund UK) published Biodiversity Challenge (Wynne et al 1995) as a discussion document that suggested an approach to biodiversity planning for the Government. The Government published its national strategy, Biodiversity: the UK Action Plan in January 1994. The action plan proposed 59 steps towards conserving and enhancing biological diversity within the UK and globally (UK Government 1994).

One of the 59 steps was to write action plans for priority species and habitats, a process which was begun with the publication of Biodiversity: the UK Steering Group Report, an advisory report (UK Steering Group 1995) to which the Government responded 15 May 1996. The process has been continued with the publication of UK Biodiversity Group Tranche 2 Action Plans (1998 and 1999).

Objective of the Report

This document aims to identify the key features of international, national and local conservation importance on the Isle of Wight. It is an audit of these features together with an assessment of them in nature conservation terms. As such, it hoped that it can form a factual basis for the Biodiversity Action Plan process which has the acceptance of nature conservation bodies. It does not attempt to prioritise or set targets, jobs which are the role of the Isle of Wight BAP Steering Group. Set up in 1999, this comprises representatives of Country Landowners Association, English Nature, Environment Agency, Hampshire & Isle of Wight Wildlife Trust, Isle of Wight Council, National Farmers Union, National Trust, Royal Society for the Protection of Birds and Wight Wildlife. A much wider partnership, made up of national and local organisations and individuals are kept informed of the process via a newsletter. Many are likely to become more involved as the process develops.

Introduction to the Audit

Some aspects of our biodiversity are more threatened than others and there is an urgent need to prioritise action. This has been done at a national level in both Biodiversity: The UK Steering Group Report (UK Steering Group 1995) and Biodiversity Challenge (Wynne et al 1995). These documents focus on species and habitats in the UK that are globally threatened, occur in internationally significant concentrations or are rapidly declining.

The audit provides an assessment of the biodiversity of the Isle of Wight using the best available information. It will need to be revised and completed for some habitats, particularly those in the marine environment.

The audit gives the extent, where known, of each of the main habitat types and indicates their significance at the European, national and local context. It highlights links between the habitats and key species of conservation concern. It records important sites and areas and lists factors affecting the habitat. Wherever possible, this information has been taken from nationally and regionally produced audits and action plans in order to provide a consistency of approach. However, where necessary, the information has been modified so that it is appropriate within an Isle of Wight context.

One of the key components of English Nature's Strategy for the 1990s has been the Natural Areas approach, in which it examined the local distinctiveness of each part of England. The characteristic wildlife and natural features were identified, and used to define a comprehensive series of "Natural Areas" of which the Island is one. It is the subject of its own Natural Area profile published by English Nature (1998). This provides an excellent introduction to the area and a good background to the Biodiversity Audit. Unfortunately, marine and maritime parts of the area are dealt with

Eleven percent of Isle of Wight land area is of such nature conservation value that it is designated SSSI

separately within the Solent and Poole Bay Natural Area Profile. The Isle of Wight BAP will seek to combine the “Natural Areas” characteristics of local terrestrial, maritime and marine environments.

The Audit

From a biogeographical point of view, there are strong affinities between the Isle of Wight and the Wessex region. However, in this document, the Isle of Wight is considered as a part of the South-East region as it falls within the geographical boundaries of the Government Office for the South-East (GOSE) and the South-East England Development Agency (SEEDA). It also falls within the South-East Regional Biodiversity Audit (1998) produced jointly by the Wildlife Trusts of South-East England and the RSPB South-East and Central Regions. The South-East region is defined as comprising the counties Oxfordshire, Buckinghamshire, Hertfordshire, London, Berkshire, Surrey, Kent, Hampshire, the Isle of Wight and Sussex.

An audit of biodiversity is perhaps best expressed through a consideration of the habitats which are present. The habitat types used are based upon those in Biodiversity: UK Action Plan. Twenty-two habitats have been considered for this document and they follow those used in the South-East region Biodiversity audit. The audit has been conducted using the best available data, the quality of which varies with different habitats.

There has been no full Phase 1 survey of the Isle of Wight carried out. However, there has been a considerable amount of targeted survey work and the semi-natural resource of the county is comparatively well-known. Where quantitative data have been given, these figures are based on up-to-date and current knowledge, using GIS mapped data. However, it should be remembered that land use data is difficult to collect, generally fails to achieve full coverage, becomes outdated very quickly and is open to interpretation.

The Isle of Wight may be small but it is exceptionally rich in wildlife

The Isle of Wight is by far the smallest county in the South-East Region. Nevertheless, the Island has a great diversity of habitats contained within an intimate landscape mix. Despite its exceptional biological richness, it cannot compete in extent of habitats with its larger neighbours. The percentage of the land surface occupied by different habitat types compares favourably with similar percentage figures for the South-East (Fig. 1), even though the actual area figures may be low. This complexity of habitats, often of small extent, makes mapping difficult to display at the scale appropriate for this document. The maps frequently appear to show a dramatic habitat fragmentation. Although this is certainly an issue, its full extent may be more apparent than real and it should be appreciated that many of these fragments are linked by other semi-natural habitat fragments. An indication of the extent of semi-natural habitats of nature conservation value is provided by a map showing the extent of statutory and non-statutory nature conservation areas across the Island (Fig. 2).

Habitat audits cannot effectively be carried out without reference to species, and a Species Audit is included within the document. It has been arrived at through consultation with local naturalists and local and national experts and organisations. It represents a compilation of the best currently available data. However, it does not pretend to be fully comprehensive and it should constantly evolve and require revision. The emphasis has been upon species of national conservation concern and upon linking them, wherever possible, to habitats. With invertebrates in particular, it has only been possible to include a representative selection of species. Frequently, there is insufficient recent data to provide current estimates of status. The main purpose of the Species Audit is to highlight species-rich habitats and to identify those species of conservation concern which would not be adequately catered for within Habitat Action Plans (HAPs).

Figure 1 Isle of Wight Habitats in a South East Context

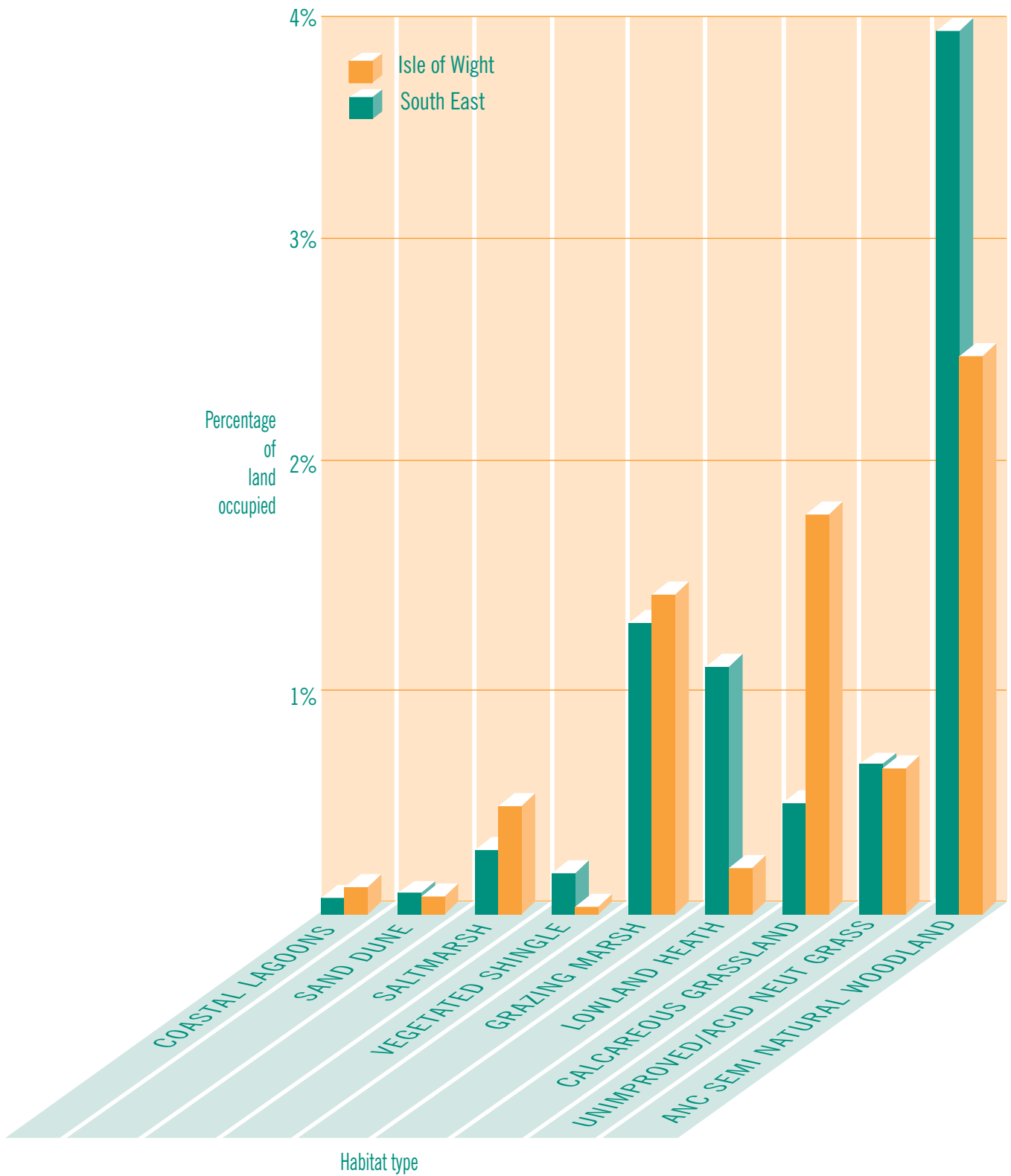
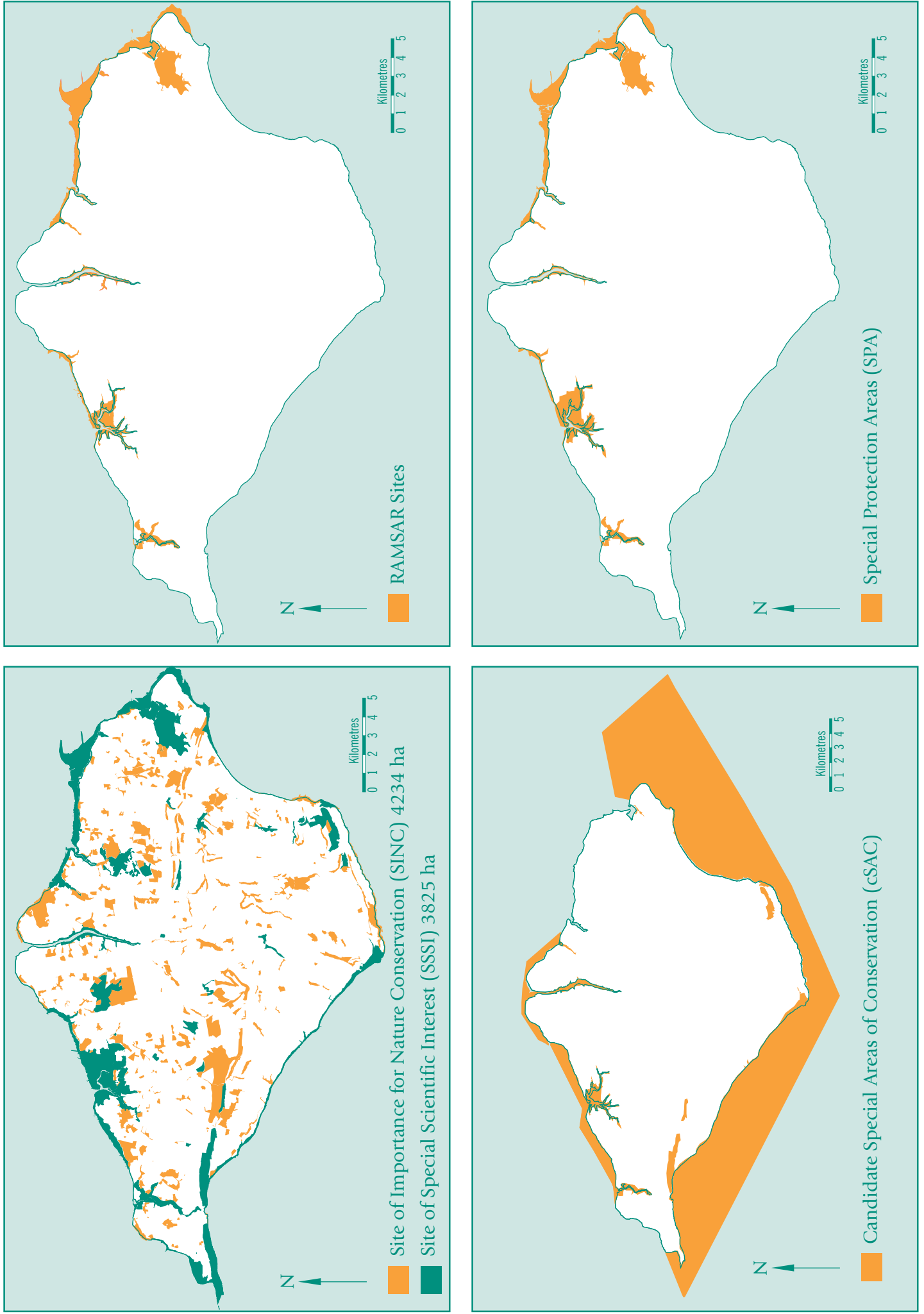


Figure 2 Statutory and Non Statutory Nature Conservation Designations



The broad habitat types described here conform to the 38 habitat types as defined under the UK Biodiversity Programme. From this list of 38 key habitats, 19 occur in the Island.

1 WOODLANDS



Isle of Wight
woodland

1.1 SEMI-NATURAL BROADLEAVED WOODLAND (comprising ancient semi-natural broadleaved woodland, secondary woodland and wet woods). “Wet Woodland” is a Priority Habitat..

1.1.1 Definition

The UK Steering Group defines this broad habitat type as comprising areas of woodland composed of broad-leaved, principally native, woody species. Such woodlands are the product of both human management and natural processes, rather than being wholly artificial. They can be classed as ancient (ie woodland cover has been continuous on the site for at least 400 years) or secondary (ie have become established by natural processes more recently). Wet woodlands, included within this definition, are generally secondary in origin. There is overlap between this habitat type and both the Parkland and the Plantation Woodland categories. Although other lowland broad-leaved woodland types have not been identified as Priority Habitats, there is a general recognition that such woods can contribute substantially to overall biodiversity.

1.1.2 The resource

The Isle of Wight is not regarded as a particularly well-wooded county by regional standards and yet the total area of woodland cover is around the national average, occupying just under 10% of the Island’s land surface. This includes native woodland and plantation woodland; the latter may be broad-leaved or conifer (Fig. 3). Approximately 1128 hectares of semi-natural broadleaved woodland, as defined above, have been currently identified. Of this total, some 900 hectares are known to be of ancient origin. In addition, 714 hectares of ancient woodland have been replanted with conifers or non-native broadleaves since the beginning of this century, and these have been included within the Plantation Woodland habitat (1.3). The total area of woodland occupying known ancient sites is 1,614 hectares covering just over 4% of the Island’s land surface. This may be an underestimate as there are likely to be a number of small semi-natural woodlands (under 2 hectares) of ancient origin which have not been identified at this stage.

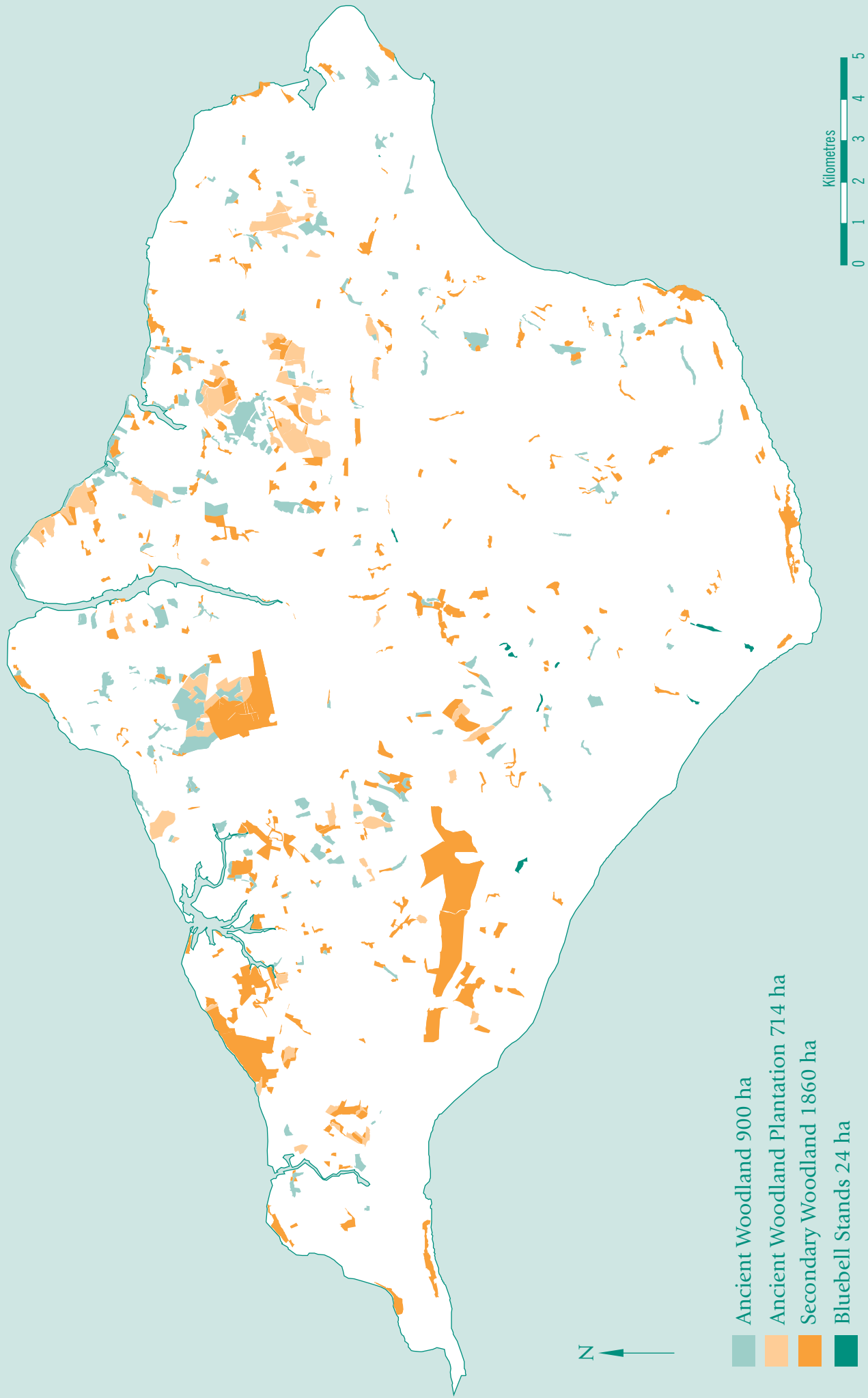
1.1.3 Nature conservation importance

Semi-natural broadleaved woodland covers a wide range of woodland types. The ancient semi-natural woodland is predominately ash-maple woodland (NVC W8) on calcareous and clay soils, and oak woodland (NVC W10) on more acid and sometimes sandy soils. Most woods show clear evidence of management as coppice woodland and hazel is a common understorey shrub. The richest woods biologically are those situated on the clay soils of the northern half of the Island and this is where the majority of our ancient woodland survives. Those fringing the Solent coasts and estuaries are nationally important showing some of the best transitions from woodland through brackish marsh and soft cliff to saltmarshes and intertidal mud. Another aspect of ancient woodland on the Island



Pearl-bordered
fritillary butterfly

Figure 3 Distribution of Woodland Types



is the presence of neglected wood pasture. Here standard trees of great age, with their associated species, survive in the absence of the grazing pressure to which they were once subject. Woodland such as Northpark Copse, the northern part of Parkhurst Forest, and perhaps America Wood and Borthwood Copse contain the last vestiges of these habitats, though they are masked by developing young trees, understorey and scrub. Many, but not all, of the species associated with wood pasture have been lost as a result of the cessation of grazing.



Bluebell

The wet river valley woods at Gatcombe include an area of alder woodland which has intrinsic importance as peat cores indicate that this area has supported alder carr continuously since circa 7000 BP. As such it is a rare example of alder woodland persisting on the same site since the end of the last glaciation.

Secondary woods tend to be dominated by ash, elm or sycamore and in wetter areas with willow carr. They generally have lower nature conservation value, but some secondary woods can become species-rich relatively quickly through natural regeneration. Some secondary woodland within the shelter of the Undercliff coastline along the south coast can support Bryophyte communities with western Atlantic affinities. Other small, exposed, scrubby woodlands along the south-west coast are of long-standing. They can support luxuriant lichen communities and can provide valuable shelter for migrant and resident birds.

Large herbivores are absent from the Island and this leads to good coppice growth and natural regeneration in turn promoting arboreal species such as red squirrel and dormice, particularly on the heavy clay soils to the north of the Island. The Island is now the only county in Britain where both of these mammal species exist together in their natural habitat and is also possibly the best locality in Britain for the Bechstein's bat. These mammals are not confined to ancient woodland, but are able to disperse freely through woodlands of various types.

There is an increasing recognition that many woodland species are nationally declining. At this stage, the reasons for this are unclear, but the considerable damaging impact of deer and grey squirrels in mainland woodlands is considered to be a contributing factor.

1.1.3.1 Key species

Mammals:	Red squirrel*; common dormouse*; noctule bat; Bechstein's bat*; barbastelle bat; Natterer's bat
Birds:	Nightingale
Insects:	Pearl-bordered fritillary*; red-necked footman; wood cricket
Flowering plants:	Wood calamint; bluebell; narrow-leaved lungwort; ivy broomrape
Bryophytes:	<i>Lejeunea lamacerina</i> ; <i>Lophocolea fragrans</i> ; <i>Cololejeunea rosettiana</i>
Lichens:	Tree lungwort (<i>Lobaria pulmonaria</i>) and other ancient woodland indicator species; <i>Cryptolechia carneolutea</i>

1.1.3.2 Key sites

The most important woods nationally are those ancient woodlands bordering estuaries and creeks and showing a transition of habitats through to saltmarsh. Many of the best ancient woodlands have been designated as SSSIs. All remaining known ancient woodlands are proposed as SINCs

Clay woods -	Briddlesford Copses (SSSI) Walter's Copse, Town Copse & Lock's Copse (SSSI) Centurion's Copse, Bembridge (SSSI)
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The Island is the only place in Great Britain for Wood Calamint

	King's Quay woods (SSSI)
	Fishbourne Copse (SSSI)
	Dickson's Copse (SSSI)
	Whitefield Woods (SINC)
Chalk woods -	Rowridge Valley woods (SSSI)
	Eaglehead and Bloodstone Copses (SSSI)
Greensand woods -	America Woods (SSSI)
	Cliff Copse, Shanklin (SSSI)
Woodpasture woods -	Parkhurst Forest (SSSI)
	Northpark Copse (SSSI)
	America Woods (SSSI)
	Borthwood Copse (SINC)
Other woods-	Greatwood Copse (SSSI)
	Bonchurch Landslips (SSSI)
	Bouldnor cliffs (SSSI)
	Gatcombe Withybeds (SINC)

1.1.4 Factors affecting the habitat

- Lack of continuity of age structure
- Inappropriate or lack of management
- Fragmentation and isolation of woods
- Inappropriate planting and restocking
- Lack of suitable markets for coppice and other products

1.2 PARKLAND & PASTURE WOODLAND. "Lowland Wood Pasture and Parkland" is a Priority Habitat

1.2.1 Definition

Wood pasture and parkland are historic habitat systems derived from extensive grazing. Such sites usually contain existing old trees and provide habitat continuity often established over centuries. Only relict examples exist on the Island, either in an unmanaged state or as scattered trees within an arable or improved pasture setting. Additionally, isolated ancient trees can be found as scattered survivals in the landscape.

These can be of great historic interest but tend to be less important biologically. Long neglected wood pasture which has developed into woodland is also covered under Semi-natural Broad-leaved Woodland habitat.



Stag beetle

1.2.2 The resource

This habitat is poorly quantified, although the locations of collections of ancient trees of biological interest are known. There has been a complete loss of working wood pasture to either woodland or to arable/improved grassland over the last 100 years.

1.2.3 Nature conservation importance

Wood pasture was probably widespread in lowland landscapes through the medieval age and up until the early 19th century. The greatest extent of this habitat in western Europe probably survives in southern England. The species associated with ancient trees (lichens, fungi, invertebrates and bats) largely contribute to the ecological significance of this habitat, which is also of historical and cultural value.

The old parkland trees on the Island are principally oak. Oak trees of 250 years or older support a lichen community with a very restricted distribution in Western Europe. Species of note include

Lecanactis lyncea, *L. premnea* and *Opegrapha prosodea*. The ancient trees and associated

dead wood are also important for specialist saproxylic species, especially beetles,

hover-flies and other flies, and certain species of fungi. Mammals such as

Bechstein's bat and noctule bat are associated with this habitat type. Old trees are

also important for hole-nesting bird species. Barn owl nests on the Island are

located mostly within old trees.



Devil's bolete
fungus

No relict wood pasture/parkland sites are designated as SSSIs and there is no working wood pasture surviving. The largest collection of ancient trees on the Island is the

Nunwell Estate where more than one hundred post-mature oak trees occur within a

grassland and arable setting of around 40ha. Much smaller groups of old oaks which

support wood pasture species occur at Swainston and Quarr. Several sites which are

likely to have contained or been predominantly wood pasture in the past have reverted to

woodland. These include Borthwood Copse, America Woods, Northpark Copse and parts of

Parkhurst Forest. Some of these sites contain species characteristic of wood pasture. There is

complementary coverage of their interest within the Semi-natural Broad-leaved Woodland habitat

statement.

1.2.3.1 Key species

Mammals: Bechstein's bat*; noctule bat; natterer's bat

Birds: Barn owl

Hymenoptera: A tree ant (*Lasius brunneus*)

Diptera: An empid fly (*Oedales apicalis*)

Beetles: Stag beetle; a cobweb beetle (*Ctesias serra*); an anobiid beetle (*Xestobium rufovillosum*); a fungus-boring beetle (*Dorcatoma serra*); a fungus beetle (*Rhizophagus nitidulus*)

Lichens: *Physcia tribacioides*; *Lobaria pulmonaria*; *Lecanactis premnea*; *L. lyncea*; *Rocella phycopsis*; *Anaptychia ciliaris*; *Opegrapha prosodea*

Fungi: *Ganoderma applanatum*

1.2.4 Factors affecting the habitat

- Changes in agricultural practice, from the cessation of grazing to overgrazing and intensification including: ploughing and re-seeding to improve pasture productivity, conversion to arable farming; and inappropriate use of herbicides and fertiliser.
- Removal of old trees, scrub, and dead wood.
- Increased recreational pressures and the associated demand for tree safety work, disturbance to stock, erosion and vandalism.
- Large generation gap (very old trees and young trees or no young trees present) leading to loss of habitat continuity.
- Agricultural tenancy agreements which do not provide adequate protection for pasture woodland.
- Lack of knowledge about the resource, and therefore lack of appreciation.

1.3 PLANTATION WOODLAND

1.3.1 Definition

This is interpreted as woodland that has been deliberately planted since the late 19th century. There were earlier plantations of native species, but often these are difficult to distinguish from other

woodlands on the ground and have been considered under the Semi-natural Broad-leaved Woodland category. Plantation woodlands can be composed of coniferous or broadleaved species, or a mixture of these. The species are generally not native, either to the area or to this country. These woodlands are split into two classes: those that have been planted on pre-existing woodland sites and those that have been planted on other habitats

1.3.2 *The resource*

There is estimated to be some 1880 hectares of secondary woodland, some of which has become established by plantation, and some of which has established naturally (Fig. 3). 714 hectares of plantation woodland occupy sites of pre-existing woodland. A significantly larger area of woodland has been planted over other habitat types, particularly earlier in the 20th Century.

1.3.3 *Nature conservation importance*

Red squirrel populations can build up to high levels in conifer plantations, but much of the plantation on the Island has been to the detriment of other habitats including chalk grassland, ancient woodland and, most significantly, heathland. Frequently, remnants of previous habitat types survive within plantations along rides and sometimes regenerate from clear-fell areas. Additional ecological interest in these sites lies in the early stages of establishment, as these tend to be fenced from herbivores such as sheep and rabbits, providing long grass habitats for small mammals and invertebrates and their predators. Hence rides and clear fell areas are the best sites for nightjar, long-eared owl, hobby and heathland remnants. The rides in Parkhurst Forest are typical of this effect. Plantation woodland on ancient woodland sites frequently retains significant elements of an ancient woodland flora, even under conifers during the initial rotation, providing the opportunity to effectively restore some conifer compartments back to broad-leaved native woodland.

Large areas of sycamore and mixed plantations from around the turn of the century in the Undercliff have given rise today to significant areas of Undercliff woods. Again, semi-natural elements remain where plantations linked together scattered remnants of native woodland.

On the south facing downland slopes behind Ventnor, a unique holm oak woodland has developed as a result of a mixture of deliberate acorn sowing and natural regeneration. Although less than one hundred years in age, this woodland is developing a distinctive flora and fauna which show an affinity with the Mediterranean native holm oak woodland. Some locally rare species have become established including large white helleborine, yellow birds nest, the large fungus, *Amanita ovoidea* and the oak rustic moth.

1.3.3.1 *Key species*

Mammals:	Red squirrel*
Birds:	Nightjar*; long-eared owl
Insects:	Reddish buff moth*; small pearl-bordered fritillary; pearl-bordered fritillary*; southern wood ant*; oak rustic moth
Flowering plants:	Meadow thistle; sneezewort; yellow birds-nest; large white helleborine
Fungi:	<i>Amanita ovoidea</i> ; <i>Amanita echinocephala</i> ; <i>Sarcosphaera crassa</i> .

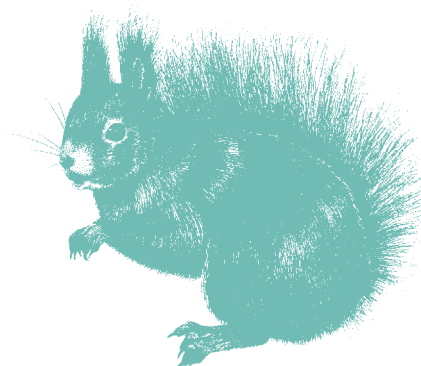
1.3.3.2 *Key sites*

- Bouldnor Forest (SINC)
- Brighstone Forest (SINC)
- Parkhurst Forest (SSSI/ SINC)
- Firestone Copse (SSSI/ SINC)
- Barton / Osborne Estate (SINC)

Ventnor Downs (SSSI)
The Undercliff. (part SINC)

1.3.4 Factors affecting the habitat

- Decreases in the structural/age diversity of stands and forests
- Clear felling and replanting that disrupts other elements of the forest ecosystem through erosion or effects on water bodies.



2 FARMLAND

2.1 ARABLE. "Cereal Field Margins" are a Priority Habitat.



Isle of Wight
farmland – the
view from Golden
Hill

2.1.1 Definition

Arable land is land under cultivation, set-aside or temporary grassland, tilled at least once every five years. The most significant crops are cereals but gardens, allotments and nurseries also contribute significantly to the resource.

2.1.2 The resource

An estimated 12,047 hectares of farmland on the Island is arable.

This constitutes nearly 32% of the Island's land surface.

2.1.3 Nature conservation importance

Arable land is not of high nature conservation significance, but it does have some value. Much of the wildlife interest is restricted to the field edges or headlands, where rare arable plants may be found. However, for some species, such as certain ground-nesting birds, the whole field is important. Adjoining hedgerows can be important and are included under Ancient Hedgerows. Arable land is particularly valuable for a range of declining farmland birds including skylark, grey partridge and corn bunting. A large number of insects and other invertebrates spend part of their life cycles in cereal fields. Many of these species are a potential food source for birds and mammals. Most arable land depends on the seed bank and dormancy to ensure that populations survive in years when optimum growth conditions are absent. This means that many can survive, despite spraying and dense crops, reappearing when the right conditions return. Arable ground can be important for a specialised suite of rare bryophytes. Allotments, gardens and other tilled land not managed on an intensive basis can also be important for some species.



Field cow-wheat

2.1.3.1 Key species

Mammals:	Brown hare*
Birds:	Skylark*; grey partridge*; corn bunting*; turtle dove*
Flowering Plants:	Martin's ramping fumitory; purple ramping fumitory*; corn

buttercup; cornflower*; small-flowered catchfly*; lesser quaking grass
Bryophytes: *Weissia squarrosa*; *Tortula rhizophylla*

2.1.3.2 Key sites

The extent and distribution of biologically valuable fields is comparatively poorly understood although some areas which are important for arable birds, for hares or for arable weeds have been identified. One allotment site (Lake Allotments) is an SSSI for its arable weed flora. Around 25 fields have been identified as supporting nationally scarce arable weeds when conditions are favourable. These include fields on chalk, greensand and tertiary clay soils. An area in the southwest alongside the Military Road is known to still support important populations of birds requiring stubble fields for feeding, although the corn bunting is currently in decline.



Purple rampion
fumitory

2.1.4 Factors affecting the habitat

- Substantial applications of nitrogen and the widespread use of insecticides and herbicides.
- Removal of hedgerows and small patches of semi-natural habitat.
- Change from spring to autumn sown cereals which has caused loss of feeding opportunities on winter stubble and loss of suitable conditions in the spring for ground nesting birds.
- Inappropriate husbandry practices such as spraying out hedge bases.
- Simplification of crop rotation cycle, including a decline in the use of root crops in stock-rearing areas, use of pre-emergence weed killers, and rapid re-seeding of grassland in rotation cycles.
- Improved drainage of large areas of low-lying arable land.
- Lack of information on key sites.

2.2 IMPROVED GRASSLAND

2.2.1 Definition

These are defined as species-poor, grass dominated swards, often sown for agricultural or recreational use, or created by modification of unimproved grasslands by fertilisers and selective herbicides. They are particularly characterised by the abundance of rye grasses and white clover. Where not managed as pasture, improved grasslands are often mown regularly. Wet grasslands of this type are not included here.

2.2.2 The resource

There is no reliable estimate of the extent of this resource but improved grasslands account for the great majority of all grasslands found in rural and urban areas.

2.2.3 Nature conservation importance

These sites are ecologically very poor due to intense management. Fertiliser use in particular stimulates the growth of competitive grasses at the expense of other species. However, they can be utilised by wildlife due to the cyclic nature of cultivation (cutting and spraying). Ground nesting birds will take up these sites even if their nests are subsequently destroyed, particularly if populations are strong in some areas. The only known pair of lapwing nesting away from the coast in 1998 was in an improved grassland site which is not intensively managed for silage. The trend from hay-making to silage production has decreased the limited value of this habitat significantly in recent years. Some improved coastal grazing pastures are important as high tide wader roosts for

wading birds and provide grazing for wintering wildfowl, particularly brent goose and wigeon.

2.2.3.1 Key species

Mammals: Brown hare*
Birds: Skylark*; lapwing; Brent goose; wigeon; curlew; golden plover

2.2.4 Factors affecting the habitat

- Afforestation
- Attempts at conversion to species rich grasslands
- Increase in silage production and use of grass as foodstuff
- Recreation and amenity grassland require less intense management
- Reversion of derelict industrial sites and waste sites to grassland

2.3 ANCIENT HEDGEROWS “Ancient and/or Species Rich Hedgerows” are a Priority Habitat.

2.3.1 Definition

Ancient hedgerows tend to be those which support the greatest diversity of plants and animals. They are usually defined as those which were in existence before the Enclosure Acts passed between 1720 and 1840. However, ancient hedgerows are not necessarily species-rich. For instance, many hedges around old settlements are dominated almost exclusively by English elm. Species-rich hedgerows generally contain at least five native woody species.

2.3.2 The resource

The extent of ancient hedgerows on the Island is not known, but the Island is in a part of the country with a predominantly ancient landscape. It is believed that the proportion of species-rich hedgerows is high, with concentrations on the north side of the Island.

Hedgerows adjacent to roads, tracks and wooded ground tend to be particularly species-rich. The rate of hedgerow loss is unknown but nationally, between 1984 and 1990, the net loss of hedgerow length in England was estimated as 21% (Institute of Terrestrial Ecology report). This loss was the result of a combination of removal and neglect. A further survey between 1990 and 1993 showed that hedgerow loss was continuing, although at a slower rate.

2.3.3 Nature conservation importance

Despite changes in agricultural practice, most hedges are still valued by farmers as field boundaries despite the introduction of stock fencing. Recent research has demonstrated the value of hedges as a source of beneficial insects that control agricultural pests and that pollinate crops.

Hedgerows can be important habitats in their own right. They can be especially important for farmland birds, bats and dormice. They are an essential refuge for a great many woodland and farmland plants and animals and provide hibernacula sites for herptiles. They can also act as wildlife corridors and can be particularly important for the dispersal of woodland mammals.

2.3.3.1 Key species

Mammals: Dormouse*; red squirrel*; bat species*
Birds: Corn bunting*; linnet*; bullfinch*; grey partridge*; turtle dove*
Lepidoptera: Brown hairstreak; White-letter hairstreak
Flowering plants: Greater broomrape; wild service tree; small-leaved lime; black mullein; dwarf elder



Dormouse

2.3.3.2 Key sites

Although it is not possible to identify key sites at this stage, some areas such as at Newtown, Pan to Downend, Havenstreet and Freshwater have concentrations of ancient and/or species-rich hedgerows.

2.3.4 Factors affecting the habitat

- Removal for agricultural and development purposes.
- Unsympathetic cutting practices such as cutting all hedges on a farm in every year, cutting during the bird breeding season and cutting hedgerow trees.
- Loss of hedgerow trees through senescence and felling without the encouragement of replacements.
- Neglect leading to a change into lines of trees and the development of gaps.
- Pesticides and fertiliser drift, or direct application, into hedge bottoms leading to nutrient enrichment and decline in species diversity.
- Increased stocking rates, particularly of sheep, leading to hedgerow damage and the need to fence fields. The presence of fences reduces the agricultural necessity for hedge maintenance and so hastens their decline.
- Erosion of banks alongside tracks and roads through abrasion by vehicles.
- Lack of data on the extent and quality of the resource.

3 LOWLAND UNIMPROVED GRASSLANDS AND HEATHLANDS

3.1 UNIMPROVED NEUTRAL GRASSLANDS “Lowland Meadows” are a Priority Habitat.



Grassland

3.1.1 Definition

These are meadows and pastures which occur on soils which are neither markedly acid nor basic, and which have not been subject to any significant degree of agricultural intensification. They are frequently colourful with flowers and alive with insects.

3.1.2 The resource

Neutral grassland has succumbed very substantially to the modernisation of agriculture since the last War and today occurs very infrequently. Between 1930 and 1984, unimproved lowland grassland has decreased by an estimated 97% in England and Wales (UK Steering Group 1995) and in recent decades, the rate of loss in some areas has increased. Neutral grassland has proved particularly difficult to map. There has not been a comprehensive habitat survey of the Island and moreover, the dividing line between unimproved and semi-improved grassland is vague. Only better examples have been mapped here (Fig. 4). An estimated 151 hectares of MG5 grassland remains on the Island which represents approximately 1% of the South East Region resource. Scattered fragments have survived particularly on the clay soils on the north of the Island and there is a concentration around the Newtown Estuary. However, this figure should be viewed with caution as it includes an element of semi-improved grassland and it excludes road verges, some of which contribute significantly to the resource, and some areas of seasonally-inundated grassland.

Over 90% of unimproved neutral grasslands have been lost on the Island



Green-winged orchid

Some of the richest sites survive today as hay meadows but many are unmanaged and consequently declining in value. Additionally, the Island still has significant areas of semi-improved grasslands which could be recoverable and these have not been adequately mapped to date.

3.1.3 Nature conservation importance

Most neutral meadows survive in a landscape of hedges and small woods and this enhances their nature conservation importance. However, neutral meadows are of high nature conservation value in their own right for their complement of flowering plants and invertebrates. Newtown Ranges is the largest area of unimproved neutral hay meadow on the Island and is particularly species rich with a total of 77 flowering plant species recorded.

An interesting and distinctive vegetation has become established on nutrient-poor clay soils on the north of the Island, giving rise to clay heaths. Today, these occur in a very fragmented state, principally in the Cranmore area, and are dominated by grasses and herbs rather than by ericaceous shrubs, but they still support a concentration of nationally and locally scarce species.

3.1.3.1 Key species

Mammals:	Brown hare*
Birds:	Grey partridge*; skylark*; barn owl
Reptiles:	Adder; grass snake; common lizard
Insects:	Reddish buff moth*; small pearl-bordered fritillary; marbled white; long-winged conehead
Flowering Plants:	Yarrow broomrape; pale dog violet; heath dog violet; yellow bartsia; corky-fruited water dropwort; green-winged orchid; French oat-grass.

3.1.3.2 Key sites

The richest unimproved meadows at Newtown have been designated as SSSIs but most unimproved grasslands do not have this protection. All remaining identified sites have been proposed as SINCs. Some survive as mown grassland within cemeteries.

- Newtown MOD Ranges (SSSI)
- Brading Marshes (SSSI)
- Harts Farm meadows, Newtown (SSSI)
- Locks Farm meadow (SSSI)
- Ningwood Common and Cranmore heaths (SINC)
- Calbourne meadows (SINC)

3.1.4 Factors affecting the habitat

- Unattractive payments for retention of permanent pasture under sympathetic management regimes compared with subsidy support for more intensive land uses.
- Change of generation and type of ownership, as old farmers die and holdings change hands, leading to improvement or neglect.
- Ploughing and reseeded, and application of artificial fertilisers eg as part of intensification of dairying.
- Over-grazing particularly by horses.
- Abandonment and neglect.
- Sudden changes in management.
- Change from hay to silage production with earlier and more frequent cutting.

Figure 4 Distribution of Unimproved and Semi-Improved Neutral Grassland

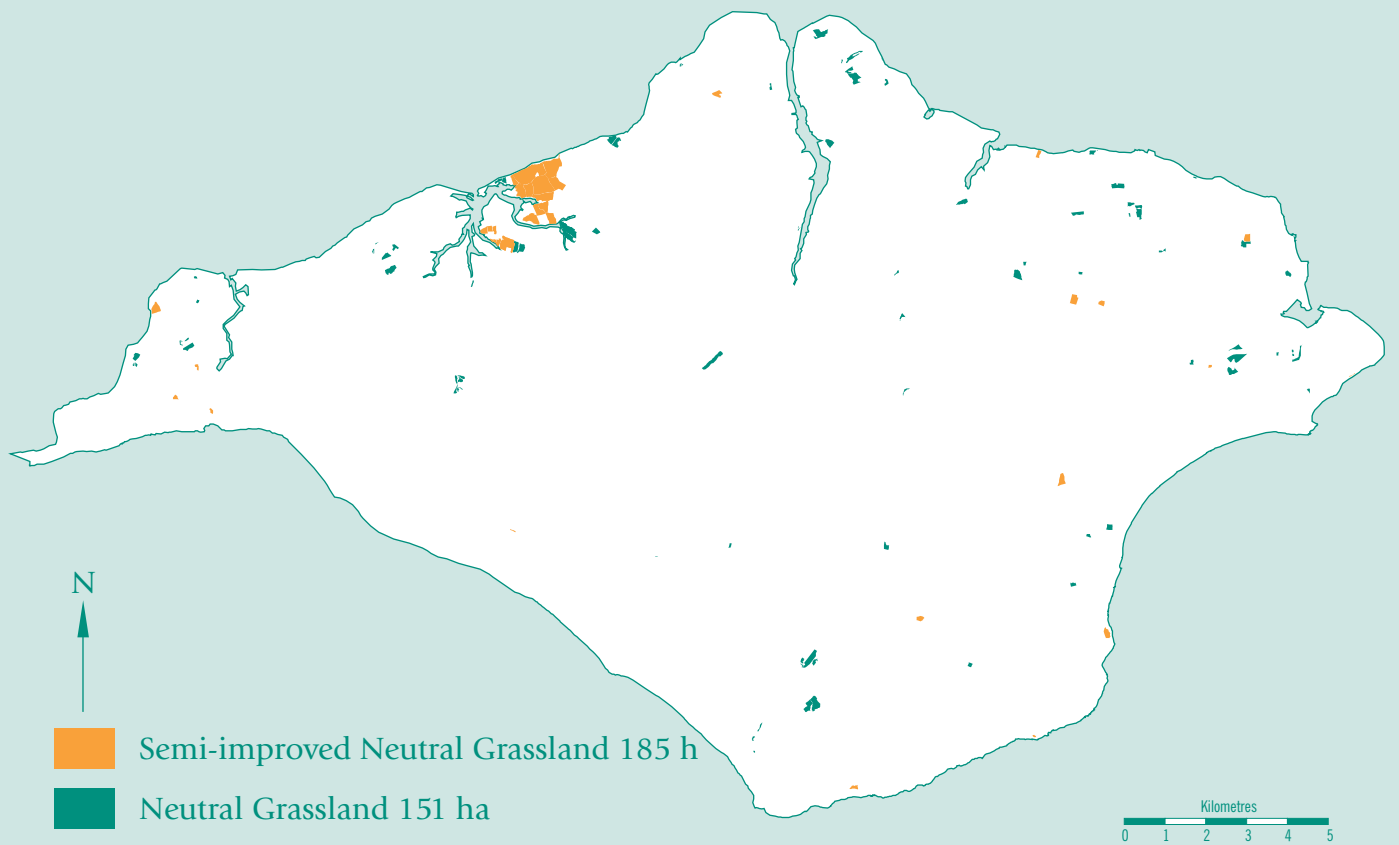
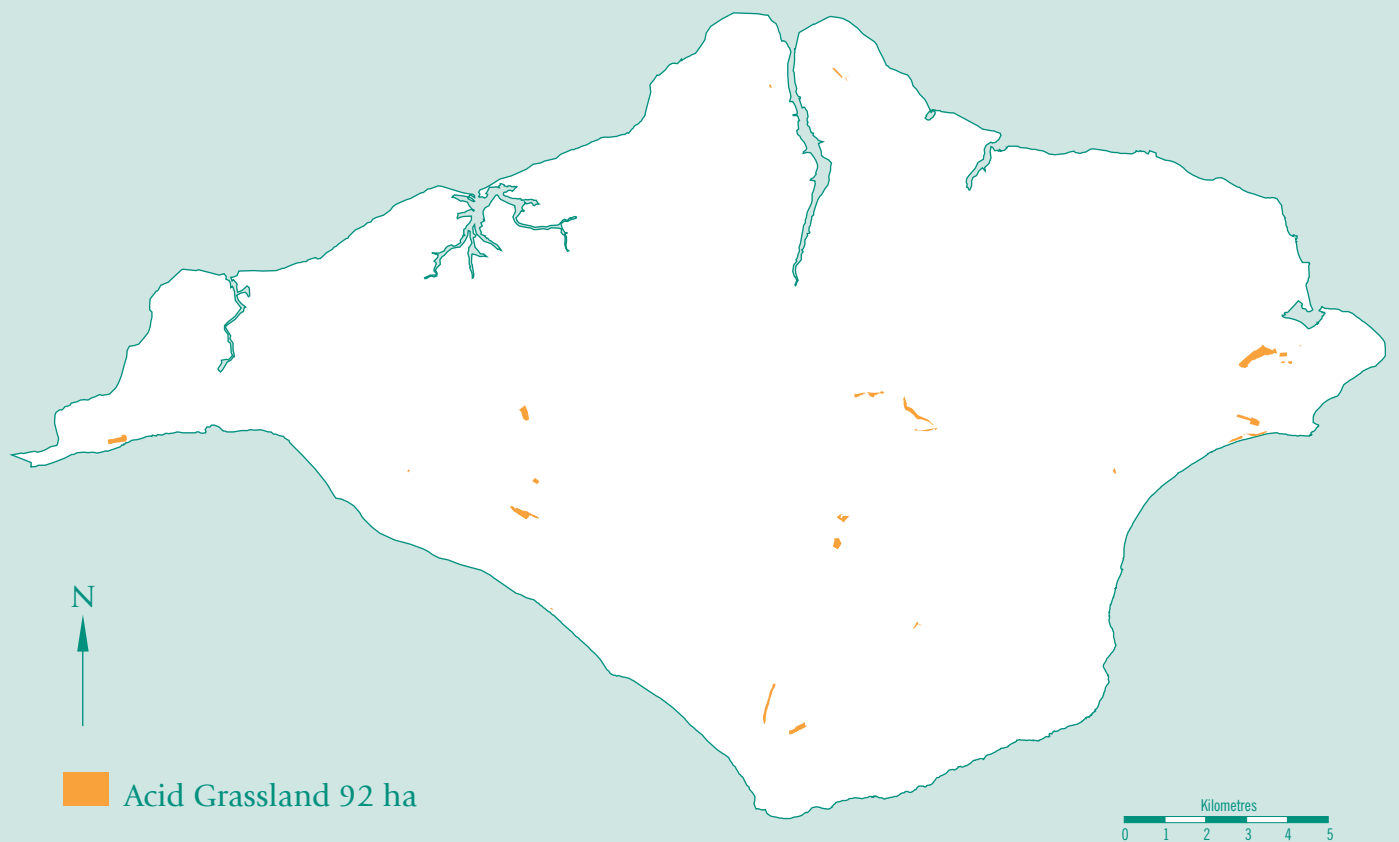


Figure 5 Distribution of Acid Grassland



3.2 ACID GRASSLANDS “Lowland Dry Acid Grassland” is a Priority Habitat.

3.2.1 Definition

These are unimproved grasslands established over acidic rocks, generally sandstones. The complex geology of the Island has led to a base-rich influence on at least a part of many of these grasslands, rendering the distinction between acidic and neutral grasslands problematical. This has made an assessment of the resource difficult. Many smaller areas of acidic grassland will be contained as mosaics within neutral grassland, maritime grassland and heathland categories. Acid grassland, as considered here, is established on low pH substrates, on dry, frequently parched soils.

3.2.2 The resource

Unimproved acid grassland is comparatively scarce in lowland Britain. About 91.5 hectares of unimproved acid grassland survive on the Island (Fig. 5). This is considered to be a low estimate.

3.2.3 Nature conservation importance

Acid grassland comprises a range of communities but these are generally species poor and lacking in rare species. The most characteristic community is a fescue-bent grassland which may contain a few herbs, notably heath bedstraw, tormentil, dog violet and field woodrush. Bristle bent dominated grassland forms a distinctive community but this is of limited extent and covered within the heathland audit. Two very rare communities found in restricted areas of Brading Marshes floodplain are dominated by mat grass and wavy hair grass respectively. A localised parched acid grassland dominated by sheep’s fescue, bent grass and sheep’s sorrel is more widespread, and can be enriched by ephemeral annuals. These can include locally rare species.

3.2.3.1 Key species

Reptiles: Common lizard
Flowering plants: Mat grass; knawel; suffocated clover; spring vetch.

3.2.4 Factors affecting the habitat

- Unattractive payments for retention of permanent pasture under sympathetic management regimes compared with subsidy support for more intensive land uses.
- Change of generation and type of ownership, as old farmers die and holdings change hands, leading to improvement or neglect.
- Ploughing and reseeded, and application of artificial fertilisers eg as part of intensification of dairying.
- Abandonment and neglect.
- Change from hay to silage production with earlier and more frequent cutting.

Early gentian



3.3 CALCAREOUS GRASSLANDS “Lowland Calcareous Grassland” is a Priority Habitat.

3.3.1 Definition

These are species-rich grasslands, sometimes co-existing with variable amounts of scrub, which have developed over base-rich soils. The overwhelming bulk of this grassland is found on chalk, with a tiny amount surviving over a narrow outcrop of Bembridge limestone and some occurring on highly fossiliferous lime-rich clays exposures on coastal cliffs.

3.3.2 The resource

The extent of calcareous grassland has fluctuated with the fortunes of the agricultural

sector, with a major decline through and since the Second World War. Unimproved chalk grassland has survived best on the steep scarp slopes where either grazing or coastal exposure has inhibited succession to scrub and woodland and the most extensive areas survive in the west of the Island. The Island has a nationally significant concentration of chalk grassland sites. A recent calculation has shown that 653 hectares are present, excluding significant areas of scrub (Fig. 6). This represents approximately 10% of the South-east resource, itself a key region for chalk grassland. Clearly, chalk grassland is one of our most important habitats. The few small areas of limestone grassland are important locally.

The Island has more than 10% of the south-east region's chalk grassland

3.3.3 Nature conservation importance

Chalk grassland is one of the richest and most distinctive wildlife habitats in this country. The calcareous grasslands of the Island range from those of European importance for their flora, through those of national significance, to those of importance for the local biodiversity of the County. Many species of plants and invertebrates are restricted to this habitat and are sensitive to grazing management. Much of the chalk grassland, particularly in West Wight, shows affinities with that of Purbeck in Dorset, to the west.

A particular feature is the influence of the coast which has given rise to extensive maritime chalk cliffs and clifftop grassland (covered under maritime cliffs habitat statement) supporting populations of several nationally rare and scarce plants and invertebrates. A strong maritime influence on the south facing slopes at the western end of the Island has resulted in a distinctive grassland community. There are also important fragments of rich terricolous lichen assemblages.

Scrub can be a prominent feature on some sites. Species-rich scrub / grassland mosaics can result in increased plant and animal diversity, particularly benefiting invertebrates, but this requires careful balanced management to retain the interest. The downs in the west Wight are often capped with clay with flint deposits supporting gorse scrub, and in a few places, a chalk heath community.

A narrow band of Bembridge Limestone is exposed on the north side of the Island but has been largely cultivated. A few fragments of unimproved grassland survive, principally in churchyards, cemeteries and around old quarries. These are of local importance.



Adonis blue butterfly

Calcareous clays on slumped cliffs can also support calcareous grassland communities.

3.3.3.1 Key species

- Mammals: Brown hare*
- Birds: Skylark*
- Lepidoptera: Adonis blue*; chalkhill blue; Duke of Burgundy; chalk carpet*; bordered gothic*; feathered brindle; auriferous pearl
- Orthopterans: Stripe-winged grasshopper
- Flowering plants: Early gentian*; burnt-tip orchid; bastard toadflax; dwarf chickweed; dropwort.
- Lichens: *Fulgensia fulgens*, *Squamarina cartilaginea*

3.3.3.2 Key sites

The Island has a nationally significant chalk grassland resource (5-10% of national resource). Four SSSIs have been put forward as candidate SACs under the Habitats Regulations for their internationally important populations of early gentian. Two SSSIs have been classified as Grade 1 in the Nature Conservation Review. There are a total of 13 SSSIs which include calcareous

The Island has more plants of Early Gentian than anywhere else in the world

Figure 6 Distribution of Calcareous Grassland

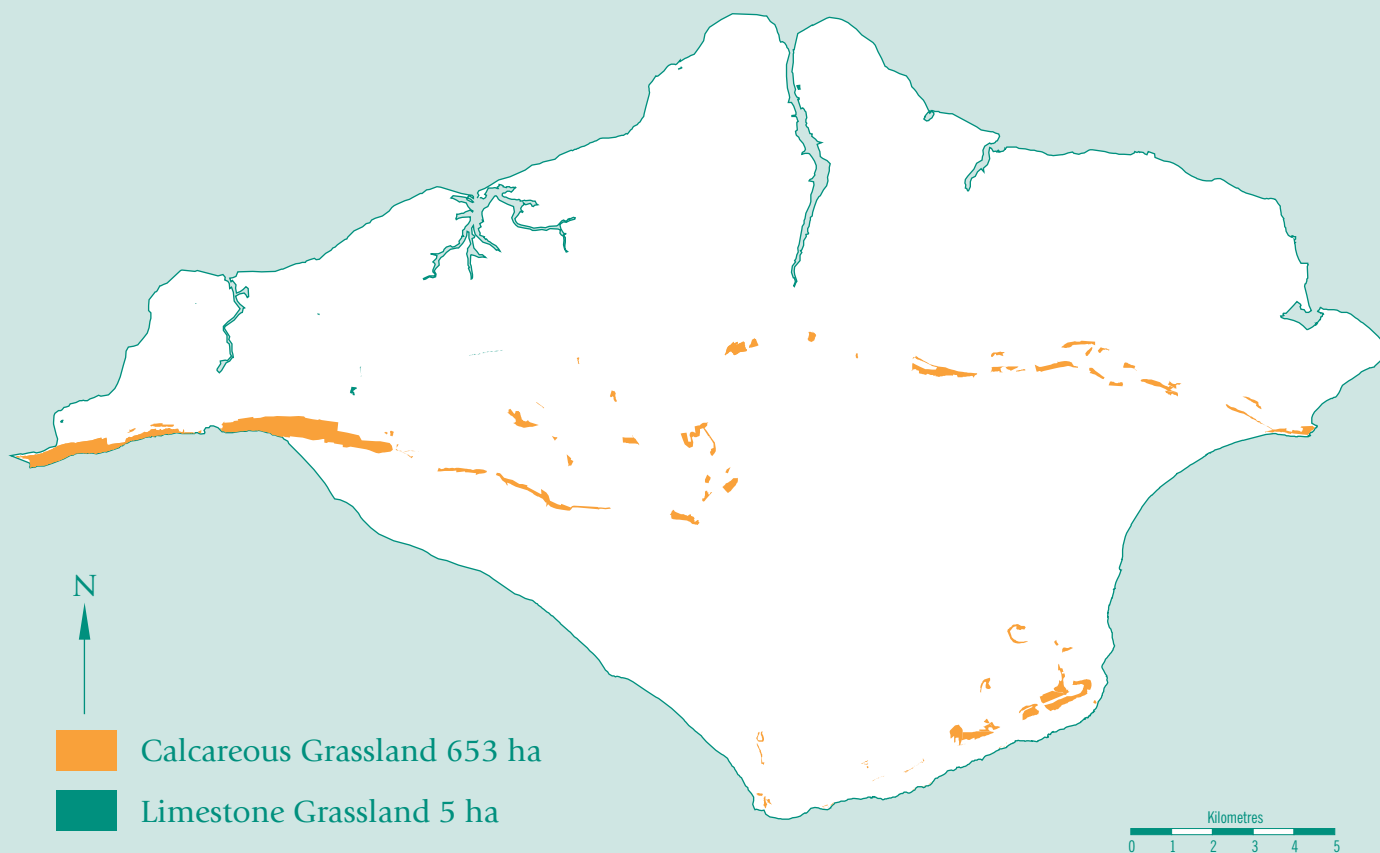
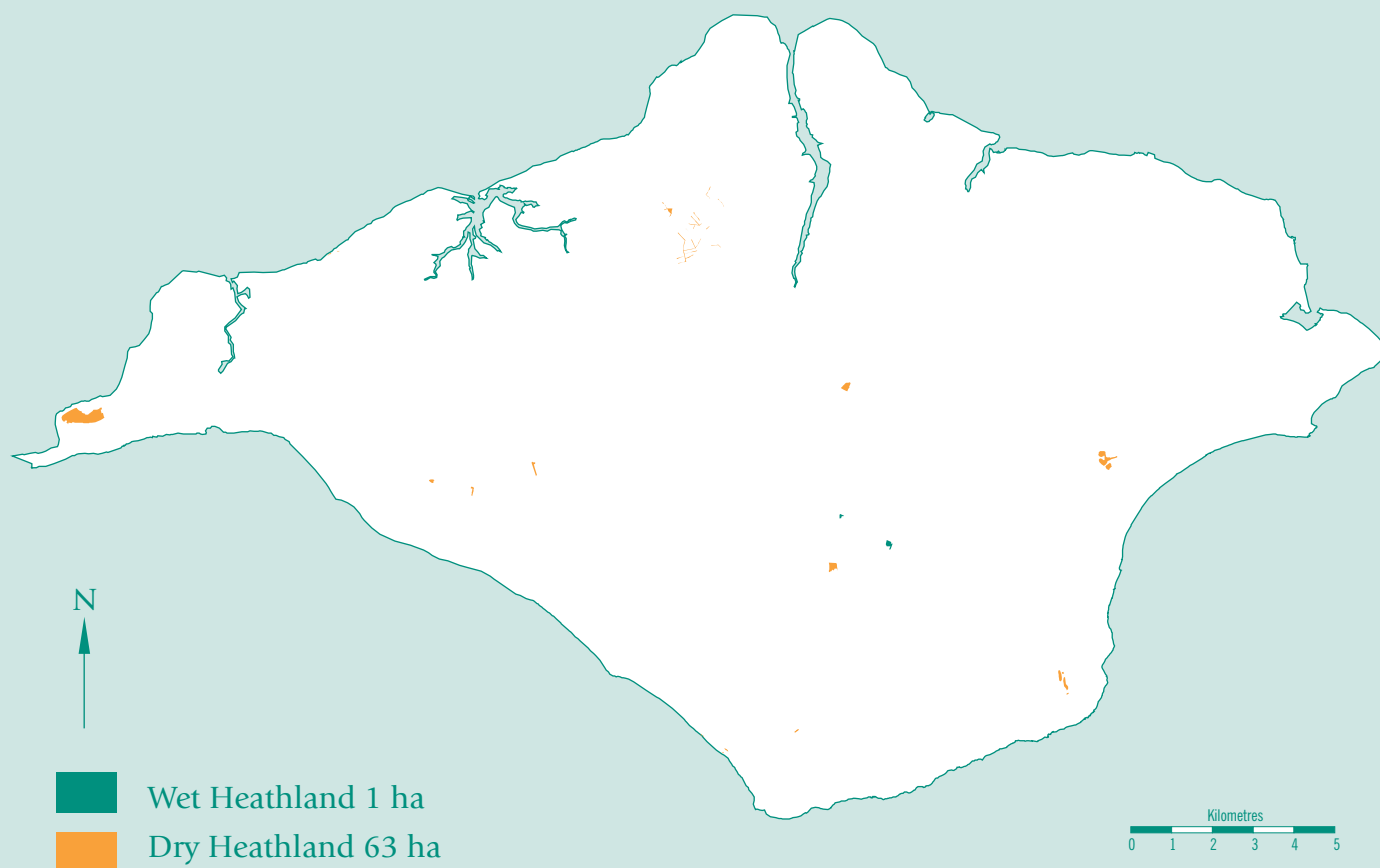


Figure 7 Distribution of Heathland



grassland, but this does not cover all sites, the remainder of which are proposed as SINCs.

- Compton Down (cSAC, SSSI)
- West High Down (cSAC, SSSI)
- Mottistone Down (cSAC, SSSI)
- Ventnor Downs (cSAC, SSSI)
- Arreton Down (SSSI)
- Bembridge Down (SSSI)
- Calbourne Down (SSSI)
- Garstons Down (SSSI)
- Rew Down (SSSI, LNR)
- Shide Quarry (SSSI, LNR)
- Prospect Quarry (SSSI)
- Knighton Down (SINC)
- Brighstone Down (SINC)

3.3.4 Factors affecting the habitat:

- Neglect leading to invasion of rough grasses and scrub.
- Inappropriate grazing intensity
- Change in stock type (eg sheep to cattle or increase in horse grazing)
- Fertiliser application and non-selective herbicide use on weed species.
- Motorcycle scrambling
- General trend from agriculture to recreation.

3.4 LOWLAND HEATH “Lowland Heathland” is a Priority Habitat.

3.4.1 Definition

These are lowland open, uncultivated areas dominated by small ericaceous shrubs on nutrient poor soils. Associated acidic grassland, scrub and scattered trees may be present amongst the predominant dwarf shrub vegetation. Lowland heath may be wet or dry although wet heath is very poorly represented today. As defined, the resource excludes acid and neutral grassland which may contain low percentages of ericaceous shrubs, and extensive stands of bracken and gorse scrub.

3.4.2 The resource

In 1984, the entire resource was calculated at 133 hectares representing just 0.5% of the Southeast regional resource. A more recent critical evaluation within the definition given above, has given a figure of 63 hectares of dry heath together with 3 hectares of wet heath (Fig. 7). Sites which may once have carried dry heathland but where ericaceous shrubs are rather poorly represented today have been excluded from these calculations. Such sites include clay heaths on the north side of the Island (included within neutral grasslands) and chalk heaths surviving on top of the downland ridge. Bracken stands have not been included; there is currently insufficient survey data to map these accurately. However, stands of bluebells under bracken have been mapped (Fig. 3) as these are considered to have particular nature conservation value having been originally derived from woodland, and conforming to the NVC stand type W25.



Dartford warbler

Lack of grazing permits scrub growth, threatening unimproved grassland and heathland habitats

An estimated 82% of lowland heath has been lost on the Island in the last century

3.4.3 Nature conservation importance

Lowland heath is an internationally scarce and ecologically important habitat and this is recognised by its inclusion on Annex 1 of the EU Habitats Directive and in the UK Biodiversity Action Plan. The habitat is poorly represented on the Island today although several hundred years ago, large areas of probably mixed heathland habitats would have been present. These included heathland areas associated with wood pasture, particularly around Parkhurst Forest but also in the vicinity of Wootton and Sandown. Large areas would have been a mosaic of heathland habitats maintained by drift grazing with sheep. A considerable area of lowland heath (82 %) has been lost this century from the Island (Chatters, 1985) and there are insufficient areas remaining to give a representation of the full range of types once found. Much of the area which has survived has succeeded to bracken or gorse scrub, making lowland heath perhaps our scarcest surviving habitat. This reflects a national trend where lowland heath losses have been estimated at 85 % over the past 200 years. Heathland dominated by ericaceous shrubs survives today in close association with bristle bent grassland, bracken and scrub. The Ventnor downs are capped by a thick layer of acid flint gravels and support a typical dry heathland vegetation. Many of the major Island sites suffered damage due to aggregate mining and have been lost subsequently due to agriculture and forestry. Some of the smaller sites still have these pressures on them, though restoration programmes have been initiated on Bleak Down. Many species restricted to lowland heath are absent from the Island today as they require large tracts for their survival.

3.4.3.1 Key species

Birds:	Dartford warbler
Reptiles:	Adder; common lizard
Insects:	Mottled grasshopper; slender ground hopper; keeled skimmer
Flowering plants:	Cross-leaved heath; bilberry; heath rush
Bryophytes:	<i>Hylocomium splendens</i>

The Island is the last native British site of the Reddish Buff moth

3.4.3.2 Key sites

The most important sites are included within SSSIs but smaller, locally important sites have been proposed as SINCs.

- Headon Warren (SSSI)
- Luccombe Down (SSSI)
- Sandown Golf Course (SINC)
- Bleak Down (SINC)

3.4.4 Factors affecting the habitat

- Neglect and scrub encroachment
- Agricultural improvement
- Afforestation
- Inappropriate management
- Development
- Recreational pressures and lack of public awareness
- Hotter and drier summers leading to fires

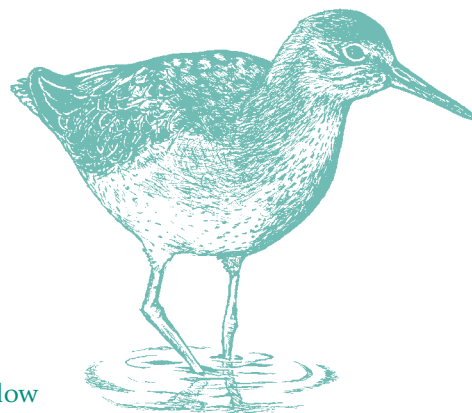
3.5 GRAZING MARSH “Coastal and Floodplain Grazing Marsh” is a Priority Habitat.

3.5.1 Definition

This is an open landscape type in which the predominant vegetation is wet grassland (which may have been agriculturally improved) and fen meadows, divided by a network of ditches. They may be periodically inundated. Grazing marshes may lie on coastal plains, usually behind seawalls, or in river floodplains. The grasslands on coastal plains may have a brackish element and can grade into saltmarsh.

3.5.2 The Resource

This is a difficult category to define and it has not been fully quantified. Current estimates, which may need to be revised, are that there are around 560 ha of grazing marsh (Fig. 8). Parts of the resource are covered within habitat types considered elsewhere, including rivers and streams, unimproved neutral grasslands, wetlands and open standing water.



Redshank

3.5.3 Nature conservation importance

The vast majority of grazing marsh is comprised of improved grassland of low conservation interest. However, the improved and semi-improved grasslands of the east Yar valley sustain some of the highest populations of barn owls in the country. The conservation interest is greater on land which has not been drained or otherwise agriculturally improved. Wet grazing marsh can provide important habitat for breeding and wintering wetland birds. Most important of these are the coastal grazing marshes of Brading/Bembridge Marshes. The ditch systems of some grazing marshes harbour uncommon aquatic plants and characteristic invertebrates such as rare water beetles. Grazing marshes also support water voles.

3.5.4 Key species

Mammals:	Water vole*; bat species*
Birds:	Teal; lapwing; redshank; snipe; barn owl
Flowering plants:	Divided sedge; brackish water crowfoot

3.5.5 Key sites

Brading Marshes represents the only significant area of this habitat on the Island and the most extensive on the central South Coast. It is a part of the Solent & Southampton Waters SPA and an SSSI. The ditch system on Sandown Levels (SINC) supports locally distinctive vascular plant and invertebrate communities.

3.5.6 Factors affecting the habitat

- Agricultural intensification, land drainage and flood defence works leading to loss of habitat and hydrological continuity.
- Groundwater and surface water abstractions.
- Floodplain development pressures.
- Agricultural pollution leading to eutrophication.
- Inappropriate ditch management.

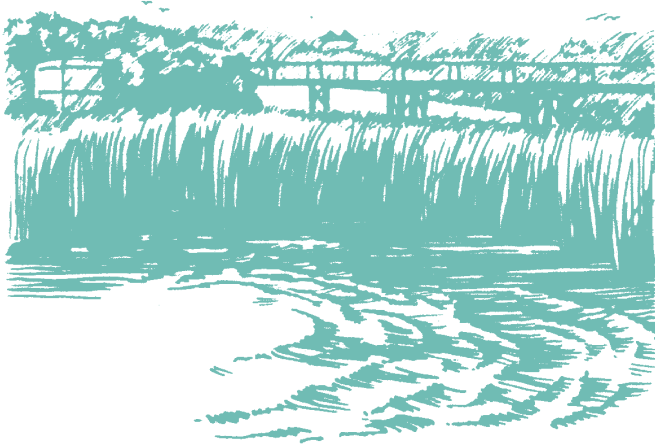
4 FRESHWATER SYSTEMS

4.1 WETLANDS: FENS, SWAMPS (INCLUDING REEDBEDS) AND MARSHES “Fens” and “Reedbeds” are Priority Habitats.

4.1.1 Definition

These are wetland sites, where the water table lies above, at or slightly below the ground surface for most of the year. There are several habitats which are considered here. They vary in the soils on which they occur, the movement of water through them, and the dominant vegetation and they are frequently associated with open water.

Fens are peatlands receiving water and nutrients from the soil, rock and groundwater as well as from rainfall. They include floodplain fens and mires associated with springs and flushes. Swamps are characterised by water table levels at or above the soil surface for most of the year.



An Island Wetland

They tend to have species-poor vegetation in comparison with fens and may be dominated by a single species, very often by Common Reed, or by Sea Club-rush where the water is brackish.

Marsh is a rather ill-defined term but has been taken to refer to vegetation occurring on mineral soil that has a water table close to the surface for most of the year but not usually above ground level. Reedbeds are habitats which have become dominated by common reed. The habitat may be wet or dry, and may be fresh or saline. Reedbeds can become established on fens and marshes, usually as a result of lack of management. Wet woodlands which are at least

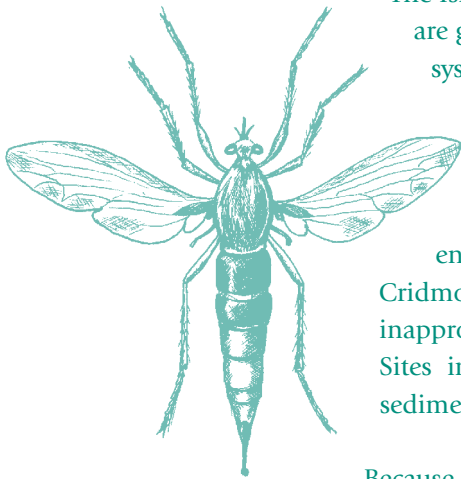
occasionally flooded are considered under the Semi-natural broad-leaved woodland habitat category.

4.1.2 The resource

Because the wetland habitats covered here are diverse and can be sorted by a number of vegetation classifications, it has been difficult to quantify their full extent. Marshland is extensively developed within the river flood-plains, particularly in the Eastern Yar, but much of this is unsuitably managed to benefit nature conservation, or unmanaged. However, there are calculated to be 80.7 hectares of biologically-rich marsh and just 6.3 hectares of biologically-rich fens, flushes and mires. In addition, there are some 77.8 hectares of reedbed and this constitutes 1.5% of the national resource. However, few of these are good quality reedbeds, most having arisen from reed colonising other habitats of value (Fig. 8).

4.1.3 Nature conservation importance

The Island has a diverse wetland resource, but it is highly fragmented and the sites are generally small and of poor quality. Wetlands are dynamic semi-natural systems and much of the Island resource of fen and marsh has now degraded to reed-dominated tall fen. In addition, much of the reedbed resource has been created by the flooding of abandoned low-lying pasture. As a result, there has been an increase in poor quality reedbed since the last War, and a decrease in good quality wetland habitats, exacerbated by changes in river engineering and drainage. Many good wetland sites that are left, such as Cridmore and the bogs of Bohemia and Munsley are still threatened by inappropriate landuse of surrounding land or management of the water courses. Sites in the East Yar valley and Medina are at risk through pollution and sedimentation, as a result of intensive agricultural activity on the river edge.



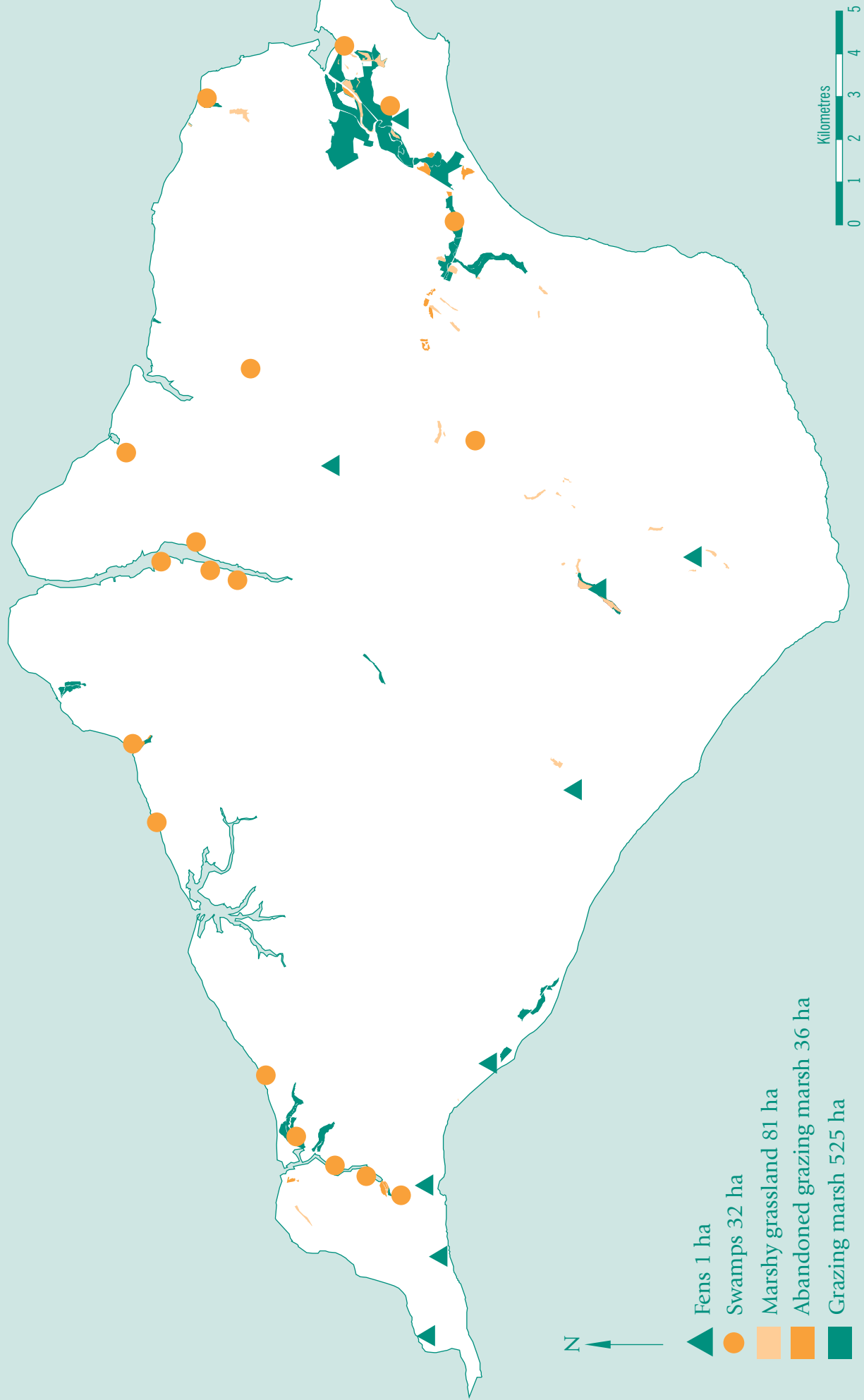
Hornet robberfly

Because of the scarcity of fen and swamp habitat, many species associated with these habitats are locally rare or have become extinct. Indeed, it is considered that this habitat has suffered the greatest number of local extinctions over the last two hundred years. Although the Island is comparatively well-off for reedbeds, the lack of large good quality sites has contributed to a paucity of reedbed specialist species.

4.1.3.1 Key species

- | | |
|-----------|---|
| Mammals: | Water vole* |
| Birds: | Reed bunting*; Cetti's warbler; bearded tit; water rail |
| Diptera: | Hornet robber-fly (<i>Asilus crabroniformis</i>)* |
| Molluscs: | Demoulin's whorl snail* |

Figure 8 Distribution of Wetlands



Vascular plants:	Galingale; marsh fern; wood horsetail; bog myrtle; petty whin; round-leaved sundew; pale butterwort; bog asphodel; common cottongrass; cyperus sedge; greater spearwort; meadow thistle
Bryophytes	<i>Pallavicinia lyelli</i> ; <i>Odontoschisma sphagni</i> (both liverworts)

4.1.3.2 Key sites

Brading Marshes is a part of an SPA for its wetland bird interest. Some important sites have been designated SSSIs but other, locally important and species rich wetlands are proposed as SINCs.

- Afton Marsh Local Nature Reserve (SSSI, LNR)
- Brading Marshes (SPA, Ramsar, SSSI)
- East Yar Valley between Sandown Levels and Horringford, including Alverstone Marshes SSSI
- Cridmore Bog (SSSI)
- Bohemia bog (SINC)
- Munsley bog (SINC)

4.1.4 Factors affecting the habitat

- No statutory protection for key fen and mire sites.
- Small total area of habitat
- Loss of area due to drying out by drainage and abstraction
- Lack of appropriate management
- Eutrophication
- Pollution of freshwater supplies
- Siltation
- Sea level rise in coastal sites

Rivers and adjoining wetlands have been substantially damaged by historic river engineering and drainage

4.2 RIVERS AND STREAMS

4.2.1 Definition

These comprise all flowing and semi-flowing freshwater rivers (down to the point where a saline influence becomes dominant) and streams, together with tufa springs and spring-fed mires in headwater systems, and artificial channels such as ditches.

4.2.2 The resource

On the Island, the length of all watercourses is estimated to be some 270km. The main rivers comprise the East Yar and the Medina and their tributaries. A few spring-fed mires survive in head waters. Tufa-depositing springs are present in the Undercliff between Ventnor and St Catherine's Point.

4.2.3 Nature conservation importance

It is believed that Island rivers are naturally impoverished in species compared with those on the mainland because of geographical isolation; high levels of iron, and low flow rates add to the problem. It has been further exacerbated by modification of the major water courses for land drainage and agricultural practice which have resulted in siltation and pollution. Generally, therefore, the resource is of poor quality with unmodified stretches surviving only around headwaters, and where streams flow through woodlands. However on the positive side, the isolation from the mainland has meant that, to date, the Island is the only county in England without a feral mink population and this may be linked to the presence of high populations of water vole and some waterfowl. Some ditches in the Sandown and Alverstone areas were formerly noted for their flora, and a few still exhibit notable assemblages of plants and invertebrates.

There are no particularly rich sites although headwaters of some streams, such as the Caul Bourne, can be relatively rich and unpolluted for short stretches. The nationally rare liverwort, *Southbya nigrella*, occurs in two places in the U.K., one of which is a tufa spring at St Catherine's Point.

4.2.3.1 Key species

Mammals:	Water vole*
Birds:	Kingfisher
Fish:	Brook lamprey; bullhead
Insects:	Beautiful demoiselle; a water beetle (<i>Helophorus alternans</i>)
Flowering plants:	Opposite-leaved pondweed; brackish water-crowfoot
Bryophytes:	<i>Southbya nigrella</i> , <i>Crataneuron commutatum</i>

4.2.4 Factors affecting the habitat

- Ground water and surface water abstraction
- Intensive land drainage
- Inappropriate management of adjacent land, channels and banks
- Development on floodplains
- Intensive aquaculture
- Increased use for recreational activity
- Spread of invasive species

4.3 EUTROPHIC STANDING WATER "Eutrophic Standing Waters" are a Priority Habitat.

4.3.1 Definition

This habitat group refers to open water bodies such as lakes, reservoirs, gravel pits and ponds, which may be artificial or not, and which hold water for at least four months of the year. They are naturally rich in nutrients and typical of lowland Britain. Their waters can support large amounts of vegetation and a wide variety of animals.

4.3.2 The resource

The number of ponds and other bodies of water is not accurately known but at least 330 ponds are recorded on maps, two-thirds of which occur to the north of the chalk ridge. The condition of these ponds is not known although anecdotal information suggests that many are heavily shaded, overgrown or polluted. The number of reservoirs is considerable but unquantified. Most open water bodies are small (less than 2 hectares). The largest are the Bembridge lagoons, although these are brackish water and considered under Coastal Saline Lagoons.

4.3.3 Nature conservation importance

It is believed that there has been a substantial loss of small ponds over the last hundred years. Established ponds in semi-natural settings can hold a rich variety of aquatic plants, invertebrates and amphibians. Ephemeral ponds on slumped cliffs of the south coast are probably important biologically but they have not been adequately surveyed. Although new ponds and, in particular, reservoirs are being constructed, they are not equivalent in value to long-established bodies and their design and stocking often discourages all but pioneer species.

4.3.3.1 Key species

Mammals:	Water vole*; Daubenton's bat
Reptiles:	Grass snake
Amphibians:	Great crested newt*
Dragonflies:	Keeled skimmer; downy emerald; gold-ringed dragonfly; emerald damselfly

Most countryside ponds have been damaged or lost through pollution, infilling, neglect or inappropriate management

Flowering plants: Alternate water-milfoil; tubular water-dropwort

4.3.3.2 Key sites

Clayden pond, Porchfield Ranges (SSSI)
Elmsworth Farm ponds, Porchfield (SSSI)
Whale Chine cliff ponds (SSSI)
Afton Marsh (SSSI, LNR)
Carisbrooke Waterworks pond (SINC)
Kitbridge ponds, Newport

4.3.4 Factors affecting the habitat

- Infilling
- Land drainage
- Neglect leading to scrub invasion or siltation
- Surrounding habitat loss
- Lack of management
- Conflicting advice on design and management
- Inappropriate restoration
- Agricultural intensification
- Over-abstraction
- Introductions of alien species
- Fishery practices
- Recreation leading to disturbance or damage
- Waterfowl stocking

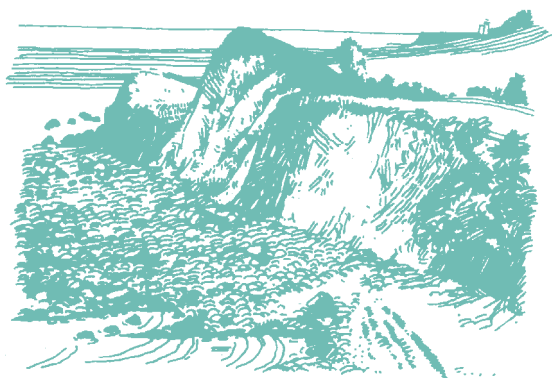
5 COASTAL HABITATS

5.1 MARITIME CLIFFS “Maritime Cliffs and Slopes” are a Priority Habitat.

5.1.1 Definition

Maritime cliffs are formed at the junction between the land and the sea where a break in slope is formed by slippage and/or erosion by the sea. The slopes formed range from shallow to vertical and vary in height and geology. Soft rock cliffs are characterised by slips, seepages and areas of slumped cliff face that gradually become vegetated. Chalk cliffs are characterised by sheer faces with small, but important, plant communities and ledges that can provide important nesting sites for seabirds. Exposure to wind and salt spray, together with geology, is one of the key determinants of the vegetation type which develops along maritime cliffs.

Isle of Wight coastal scene



5.1.2 The resource

The Isle of Wight cliffs are a significant biological resource in a regional context. There are some 53km of maritime cliff around the Island’s coastline, representing around 35% of the South-east resource. The range of habitats present on the cliffs includes maritime grassland and coastal scrub (Figs. 9 and 10).

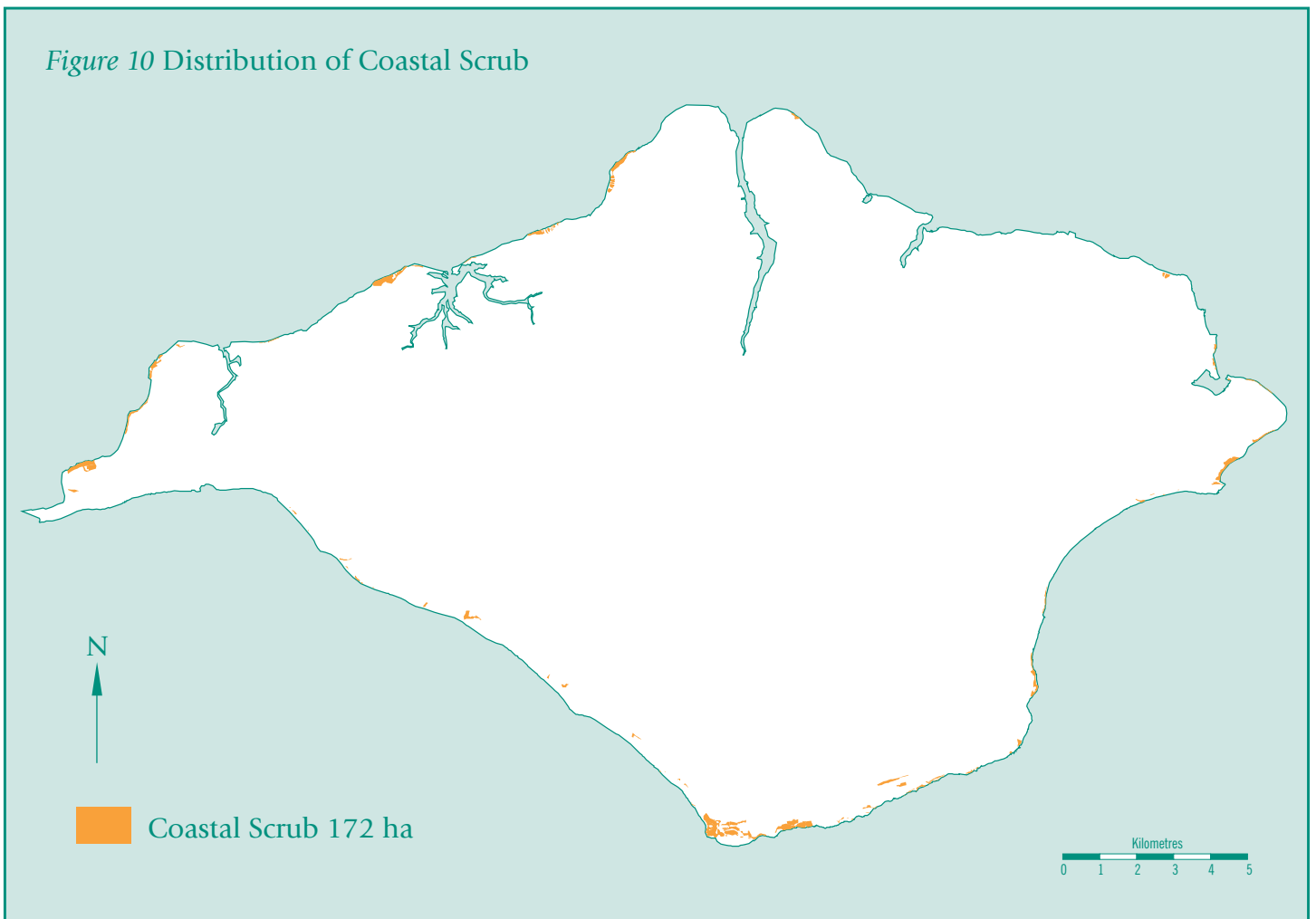
5.1.3 Nature conservation importance

The Island has a particularly rich and varied sea cliff resource. It is of national geological and ecological significance for its chalk cliffs and landslips. The Island’s maritime cliffs are one of nine lengths of

Figure 9 Distribution of Maritime Grassland



Figure 10 Distribution of Coastal Scrub



coastline in the UK nominated as Vegetated seacliffs of the Atlantic and Baltic coasts' candidate Special Areas of Conservation (SAC) under the EC Habitats Directive for their cliff features, and one of only two which include substantial representation of soft cliffs.

The coastline is characterised by a wide variety of erosional processes. The seacliff habitat extends inland along the inner greensand cliff above the Undercliff, which is itself a large, ancient pre-existing landslide complex. The inner cliffs supports some of the best Island examples of maritime hard cliff vegetation, principally at the western end of this exposure.

The habitats which develop on the cliffs and slopes are particularly varied, dependent upon soil type, ground stability and water source. There is generally a high proportion of bare ground compared with other semi-natural habitats. The vegetation forms a transition from maritime species to terrestrial communities further inland. Some habitat types, such as calcareous grassland and heathland are partly covered elsewhere. In addition, soft cliffs on sheltered parts of the coast can develop undercliff vegetation of woodland, scrub, tall herb and rank grassland. There is an unusual example of a perched dune on the clifftop at Chale.



Glanville fritillary butterfly

The seacliffs and slopes frequently support rich and specialised plant and animal communities, many on the northern limit of their range. The combination of friable soils, hot substrates and open conditions maintained by cliff slippages offer a continuity of otherwise very restricted microhabitats and these support many rare invertebrates which are confined to such sites.

Seepages, springs and pools provide the wet muds required by many species of solitary bees and wasps for nest building, and also provide suitable conditions for a rich assemblage of other invertebrates and rare plants. Ponds, which can be transient in nature, are important for breeding amphibia. Chalk cliffs at the eastern and western extremities hold significant populations of breeding seabirds. Algal communities on the lower parts of the chalk cliffs are covered under the Rocky Seabed habitat. Cliffs are also important as geomorphological features and for their geological exposures.

5.1.3.1 Key species

Birds:	Peregrine; herring gull; cormorant; shelduck; razorbill; guillemot; raven; shag
Lepidoptera:	Glanville fritillary; Isle of Wight wave; six-belted clearwing; dew moth; square-spot dart; crescent dart; beautiful gothic; a micro-moth (<i>Metzneria littorella</i>)
Coleoptera:	Golden tiger beetle (<i>Cicindella germanica</i>)*; three weevils (<i>Baris analis</i> , <i>Otiorhynchus igustici</i> and <i>Cathormiocerus socius</i>); a click beetle (<i>Anostirus castaneus</i>)*; a rove beetle (<i>Bledius crassicornis</i>)
Hymenoptera:	A solitary bee (<i>Osmia xanthomelana</i>)*; a mining bee (<i>Lasioglossum angusticeps</i>)*; a potter flower bee (<i>Anthophora retusa</i>); a digger wasp (<i>Psen atratinus</i>); a parasitic bee (<i>Nomada conjugens</i>)
Diptera:	A beefly (<i>Bombylius minor</i>)*; a crane fly (<i>Limonia goritiensis</i>)
Hemiptera:	A shorebug (<i>Saldula arenicola</i>)
Diplopoda:	A millipede (<i>Trachysphaera lobata</i>)
Molluscs:	<i>Truncatella callicratis</i>
Flowering plants:	Early gentian*; oxtongue broomrape; field cow-wheat; hoary stock; Nottingham catchfly; curved hard-grass.
Bryophytes:	<i>Acaulon triquetrum</i> *; <i>Southbya nigrella</i> ; <i>Philonotis marchica</i> ;

The Island has around 35% of the South-east region's unprotected soft cliffs

Cololejeunea rossettiana; Porella obtusata; Cephaloziella baumgartneri;
Blasia pusilla
Fulgensia fulgens; Cryptolechia carneolutea

Lichens:

5.1.3.2 Key sites:

All of the undefended cliffs along the southwest coast and parts of the southeast coast have been proposed within the South Wight Maritime candidate SAC for their vegetated sea cliff habitat.

Hanover Point to St Catherine's Point (cSAC, SSSI)
Headon Warren & West High Down cliffs (cSAC, SSSI)
Culver headland and Redcliff (cSAC, SSSI)
Bouldnor & Hamstead cliffs (cSAC, SSSI)
St Catherine's Point to Bonchurch cliffs (cSAC, SSSI)
Luccombe Chine and ledges SINC



Solitary bee

5.1.4 Factors affecting the habitat

- Interruption of natural processes of erosion by coastal defence and stabilisation schemes.
- Many of the unique maritime habitats and species of the coast are dependent upon such processes which provide bare ground for colonisation. Visitor pressures and recreational activities can have detrimental effects on cliff vegetation and nesting birds. Cultivation of clifftop vegetation which has truncated the natural zonation between maritime and terrestrial vegetation resulting in a loss of diversity.
- Lack of grazing causing scrub encroachment leading to the loss of maritime grassland communities.
- Trampling can cause loss of plant species diversity and new access paths can increase erosion or lead to demands for additional stabilisation works.
- Coast protection may prevent the removal of eroded material by the sea and obscure important rock exposures.
- Lack of knowledge of inaccessible sites, invertebrates and appropriate forms of management.

The Island is the only place in Great Britain for the Glanville fritillary butterfly

5.2 VEGETATED SHINGLE "Coastal Vegetated Shingle" is a Priority Habitat.

5.2.1 Definition

These are coastal stony banks above high tide mark. They can occur as fringing beaches or as spits at estuary mouths.

5.2.2 The resource

Vegetated shingle is a nationally rare habitat. Although there are very few shingle areas on the Island's coast and they are of limited extent, several sites are considered to be of regional importance for their representation of southern vegetation communities. There is an estimated 3.3 hectares (Fig. 11). Sites are restricted to the north coast and are invariably contained within SSSIs and within the SPA and Solent and Southampton Waters candidate Maritime SAC. The best examples are the spits at the entrance to Newtown Harbour. Others spits occur at Wootton Creek and King's Quay and the foreshores at Thorness Bay and Quarr are examples of shingle barriers.

5.2.3 Nature conservation importance

Vegetation will establish on shingle beaches when the structure is stable and there is a matrix of finer material such as sand or silt. The seaward edge supports a particularly distinctive if sparse



Little tern

flora including sea kale, sea knotweed and yellow horned poppy. Certain invertebrate species are dependent upon shingle vegetation. There is a small but important group of Red Data Book beetles dependent upon undisturbed shingle beaches with seaweed; they probably also require adjoining low clay cliffs into which they can escape. Birds, including ringed plover and oystercatcher, use shingle beaches as breeding sites.

5.2.3.1 Key species

Birds:	Common tern; ringed plover; oystercatcher
Coleoptera:	Three rove beetles (<i>Medon procoferus</i> , <i>M. ripicola</i> and <i>Halobrecta princeps</i>)
Arachnids:	A spider (<i>Haplodrassus minor</i>)
Flowering plants:	Sea knotgrass; sea heath, golden samphire, Ray's knotgrass

5.2.4 Factors affecting the habitat

- Unmanaged recreational access to shingle resulting in disturbance and compaction of the surface by vehicles, trampling of plant communities and disturbance to ground nesting birds.
- Coastal defence infrastructures and offshore gravel extraction which impact on the sediment supply reaching shingle structures.

The Island has some of the best examples of undeveloped estuaries in the South-east region

5.3 SALTmarsh "Coastal Saltmarsh" is a Priority Habitat.

5.3.1 Definition

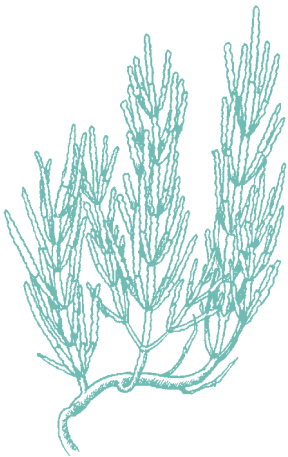
These are intertidal or tidally-influenced vegetated habitats that develop along soft, sheltered coasts with shallow shores, generally within estuaries. They are a transition habitat between the intertidal mudflats and sand, and the coastal hinterland which may be grazing marshes, dunes or shingle or woodland. Rather rarely on the Island's coastline, saltmarsh may be truncated by the presence of sea walls. The habitat as described excludes sea couch dominated, species-poor high saltmarsh.

5.3.2 The resource

There are calculated to be some 159.3 hectares of vegetated saltmarsh habitat (Fig. 11). This represents around 3.6 % of the Southeast regional resource

5.3.3 Nature conservation importance

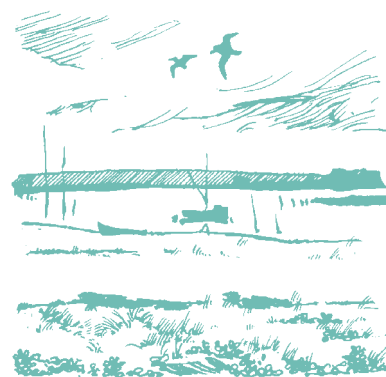
Saltmarshes are distributed along the Solent coastline within comparatively small estuaries. They form a key component of the Solent and Southampton Waters SPA and candidate Maritime SAC. 80 % of the Island resource is concentrated in two sites, at the estuary of the Western Yar and at Newtown. The Medina and East Yar estuaries in contrast have lost much of their semi-natural saltmarshes to reclamation, increasing demand for recreational boating facilities, development of water-side industries and homes, and the natural processes of erosion leading to coastal squeeze.



Glasswort

Mixed saltmarsh is a particularly valuable resource and those in the Solent are notable for their concentration of nationally scarce flowering plant species. Although saltmarshes in the Solent are considered to be generally of recent origin (less than 120 years old), some on the Island, principally in parts of the Newtown estuary, are believed to be much older, and they are not dominated by cord grass. However, the 17 hectares which have developed at Newtown since the breach of the sea wall in 1954 are more typical of the cord grass swards of the Solent coast. The Island's saltmarshes contribute to the international importance of the Solent as an important resource for wading birds and wildfowl. They act as high tide refuges for birds feeding on adjacent

mudflats, as breeding sites for waders and gulls and as a source of food for passerine birds particularly in autumn and winter. In winter they may also be used as feeding grounds for Brent goose, teal and wigeon. Areas with high structural and plant diversity, particularly where freshwater seepages provide a transition from fresh to brackish conditions, can be important for invertebrates. The intimate relationship between saltmarsh vegetation and other coastal habitats such as shingle structures, sand dunes and intertidal flats means that they need to be considered as a functional unit.



An Isle of Wight saltmarsh landscape

5.3.3.1 Key species

Birds:	Brent goose; Mediterranean gull; redshank; common tern
Insects:	various Diptera spp
Molluscs:	looping snail (<i>Truncatella subcylindrica</i>)
Flowering plants:	small cord grass; lax-flowered sea lavender; Borrer's saltmarsh-grass; golden samphire; slender hare's ear; bulbous foxtail grass; marsh mallow; divided sedge; sea heath; perennial glasswort; one-flowered glasswort; curved hard-grass

5.3.3.2 Key sites

98% of the resource is contained within the Solent and Southampton Water SPA, candidate SAC and Ramsar sites. A small number of sites which have not been notified as SSSI are covered by SINCs.

- West Yar (cSAC, SPA, Ramsar, SSSI)
- Newtown estuary (csac, SPA, Ramsar, NNR, SSSI)
- Thorness Bay (cSAC, SPA, SSSI)
- Werrar Marshes (cSAC, SPA, Ramsar, SSSI)
- King's Quay (cSAC, SPA, Ramsar, SSSI)
- St Helen's Millpond (SPA, Ramsar, SSSI)

Important coastal habitats are under threat from sea level rise and climate change

5.3.4 Factors affecting the habitat

- Sea level rise and coastal squeeze
- Pollution
- Localised eutrophication
- Recreation and disturbance
- Development pressure
- Coastal defences and dredging
- Grazing regimes
- Cord-grass colonisation
- Sediment disturbance and re-distribution

5.4 SAND DUNES "Coastal sand Dunes" are a Priority Habitat.

5.4.1 Definition

These are windblown sand formations that may be stable or shifting, together with their associated slacks, grassland and scrub.

5.4.2 The resource

Sand dunes are a scarce resource on the Island's coast and indeed all along the English Channel coast. There is an estimated 15.36 hectares, representing around 2% of the South-east resource (Fig.

The Island is a stronghold in the South-east region for species occurring in brackish lagoons

12). (The majority of the South-east resource is accounted for by the major dune system of Sandwich Bay). However, St Helen's Duver is considered to be of regional importance, because of the scarcity of this habitat on the South Coast. There are examples of spit dunes on the sandy promontories at the entrance to Bembridge Harbour and the Western Yar together with a sand dune community on the banks of Ryde Canoe Lake. The seaward edges of these dunes are artificially constrained and as a result, much of the habitat is stabilised. However, there is a small but important example of a dynamic dune system in its early, mobile phase at the mouth of Bembridge Harbour. A small, but remarkable perched sand dune occurs on a clifftop at Ladder Chine on the south-west coast.

5.4.3 Nature conservation importance

Sand dunes provide a unique habitat for a rich community of highly specialised plant and animal species. St Helen's Duver is the best local example; it supports the richest concentration of flowering plants per area of anywhere on the Island. Plant species associated with sandy soils are currently (2000) showing increases in numbers and distribution. Sea buckthorn dune scrub is present on the spit dunes at the entrance to Bembridge Harbour.

5.4.3.1 Key species

Hymenoptera:	Bee wolf (<i>Philanthus triangulum</i>)
Lepidoptera:	Sand dart; shore wainscot
Flowering Plants:	Smooth cat's-ear; bulbous meadow-grass; autumn squill; suffocated clover; clustered clover; dune fescue; bearded fescue

5.4.3.2 Key sites

All sites are within SSSIs and most sites are included within the Solent and Southampton Water candidate SAC.

St Helen's Duver (SSSI)
Norton Spit (cSAC, SSSI)

5.4.4 Factors affecting the habitat

- Coastal defence works reducing sediment movement.
- Excessive dune stabilisation, especially seaward edges of foredunes, leading to lack of sand movement.
- Increasing tourism leading to excessive erosion and disturbance to wildlife.
- Invasive non-native species such as sea buckthorn and tree lupin.
- Rising sea levels, possible increased storm events causing 'coastal squeeze' and direct loss of habitat.

5.5 COASTAL SALINE LAGOONS "Saline Lagoons" are a Priority Habitat.

5.5.1 Definition

These are bodies of brackish or saline water, usually open and shallow, and always separated from the adjacent sea by a barrier which may be permeable.

5.5.2 The resource

The Solent and Poole Harbour area supports the highest density of saline lagoons in England. 8.5 hectares of saline lagoons have been identified along the Island's northern coastline (Fig. 12). Although this is a small extent and a tiny proportion of the South-east resource, it includes some nationally important examples. The total figure does not include the 15 hectares of Wootton Millpond which has differently been interpreted as a lagoon, or a fully tidal estuarine inlet.

Figure 11 Distribution of Vegetated Shingle and Saltmarsh

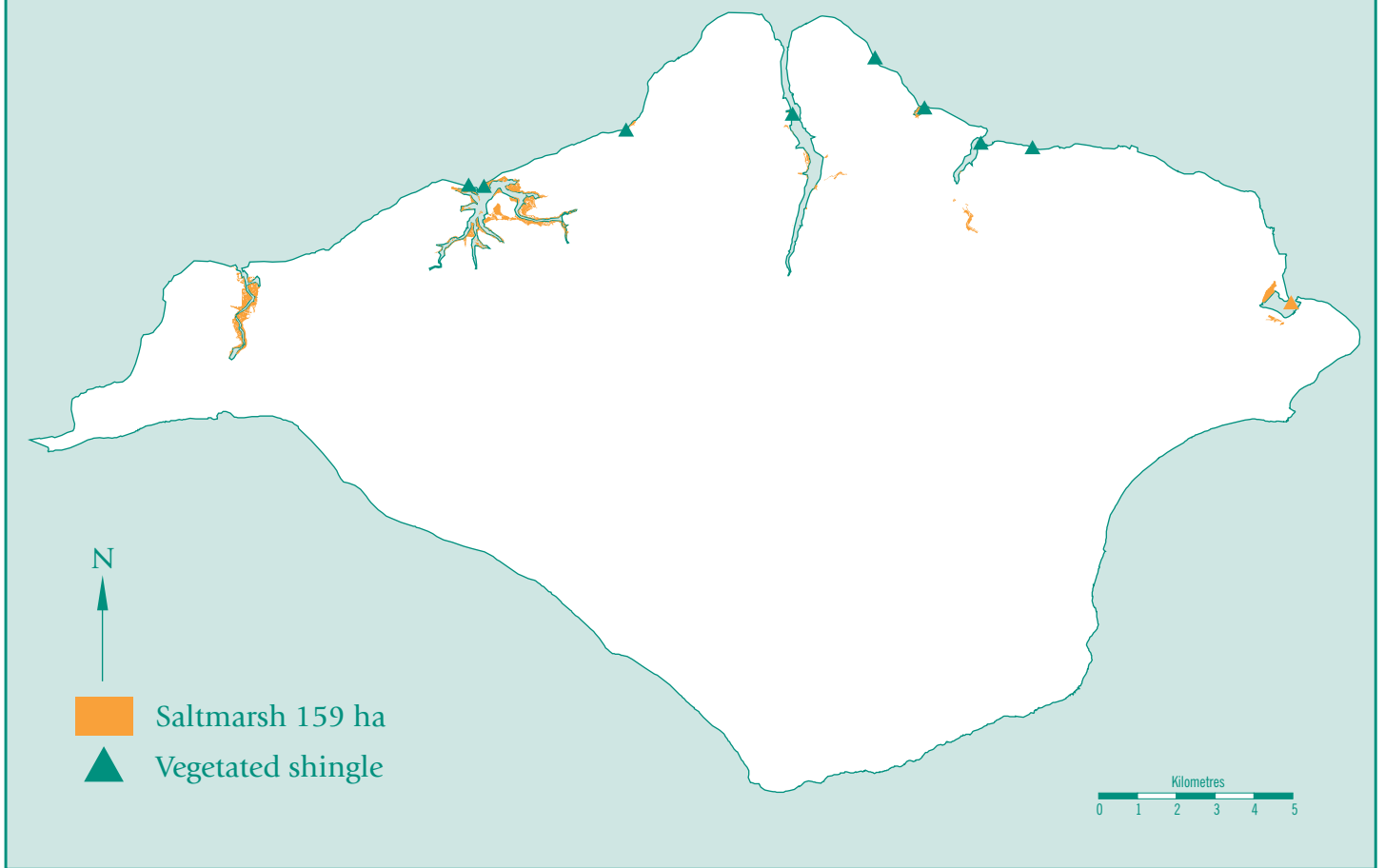
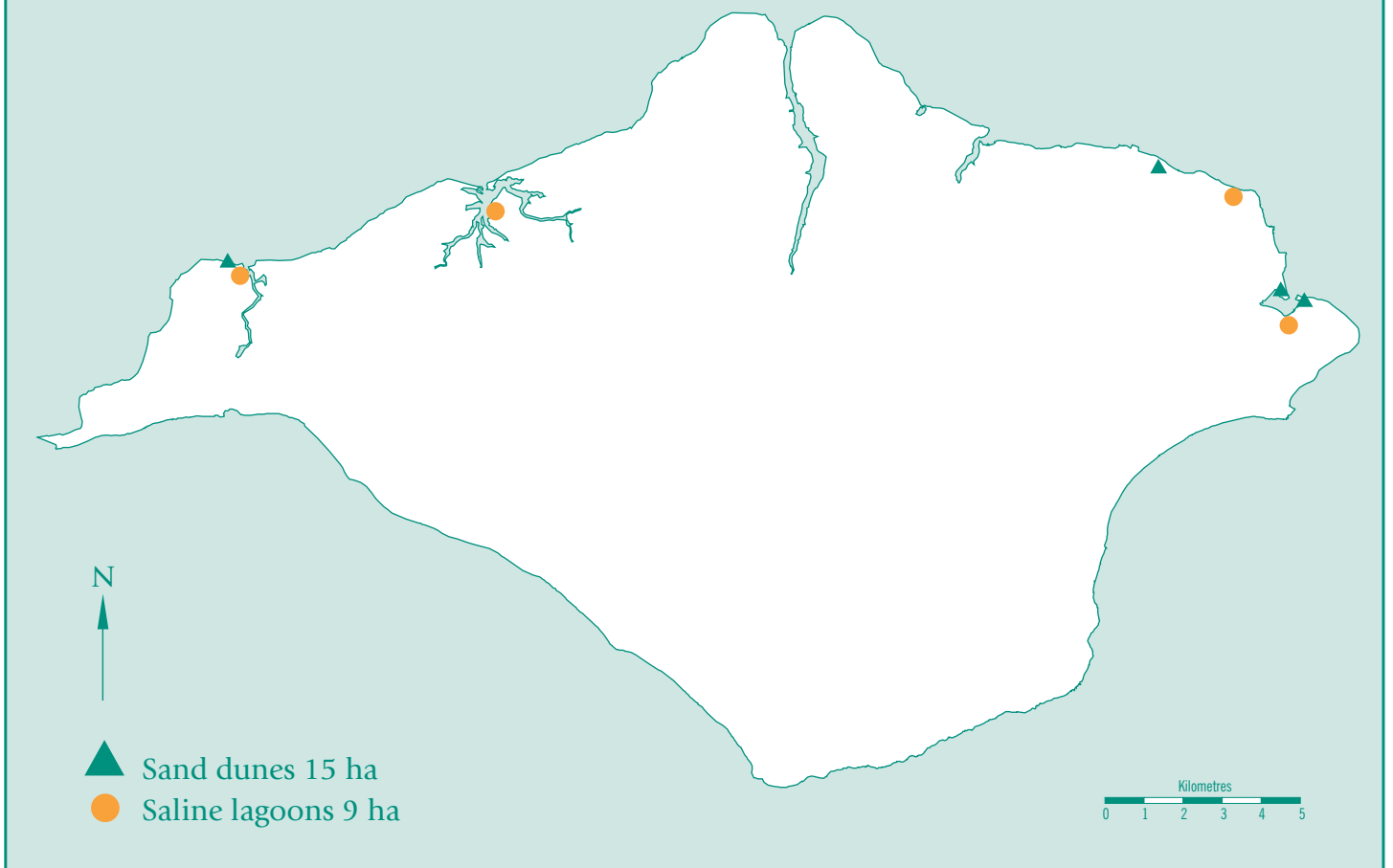
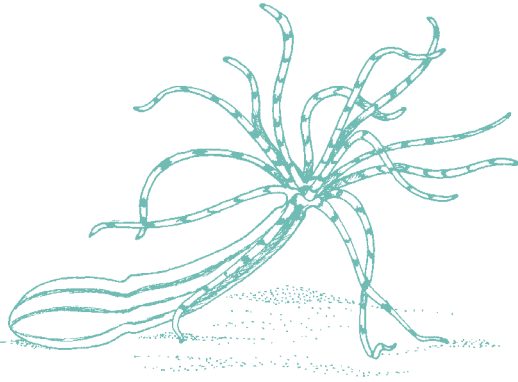


Figure 12 Distribution of Sand Dunes and Saline Lagoons





Starlet sea anemone

5.5.3 Nature conservation importance

Saline lagoons are a nationally rare habitat, largely confined to the south and east coasts of England, where they are relatively transient features. There are only a limited number of species able to tolerate the extreme conditions found within them; but they include a significant number of specialists which are not, or rarely, found elsewhere. Lagoons possess a characteristic invertebrate fauna that shows little regional variation, even within Europe. In Britain, several of these species are very rare and are protected under the Wildlife & Countryside Act 1981. These include the starlet sea anemone in its type locality, Bembridge Harbour lagoon, and a lagoonal worm. True

lagoons support only three types of aquatic vegetation – stands of green algae, sea-grasses and similar plants, and occasionally stoneworts. The foxtail stonewort, which occurs in the Bembridge Harbour lagoon, is protected under the Wildlife & Countryside Act 1981. However, much of the area of lagoon beds is bare sediment, devoid of vegetation.

5.5.3.1 Key species

Flowering plants:	Spiral tasselweed
Charophytes:	Foxtail stonewort (<i>Lamprothamnium papulosum</i>)
Cnidarians:	Starlet sea anemone (<i>Nematostella vectensis</i>)*
Polychaetes:	A lagoonal worm (<i>Alkmaria romijni</i>)
Crustaceans:	Lagoon sand shrimp (<i>Gammarus insensibilis</i>)*
Insects:	A water beetle (<i>Paracymus aeneus</i>)*

5.5.3.2 Key sites

Lagoons are a 'priority habitat type' under Annex 1 of the EC Habitats Directive and the Bembridge lagoons have been put forward as a part of the Solent lagoons SAC. Eight sites have been identified on the Island of which four are particularly important biologically.

Bembridge lagoons (SAC, SSSI)
 Yar Bridge, Yarmouth (SSSI)
 Newtown Quay lagoon (SAC, SSSI)

5.5.4 Factors affecting the habitat

- Lagoons are often relatively short-lived as a result of natural coastal dynamic changes. In a wholly natural system, some lagoons will be lost by either turning to freshwater or by returning to a fully saline state as their barriers are eroded or lost. However, as some are lost, others form and so a whole range of lagoonal habitats would be present at any one time. The influence of man's activities prevents this from taking place.
- Saline lagoons are fragile habitats susceptible to minor changes in their retaining barriers and salinity regimes.
- Pollution, in particular nutrient enrichment leading to eutrophication, can have major detrimental effects as lagoons have a very limited ability to buffer changes in water quality.
- Lagoons may be seen as candidates for infilling or land claim as part of coastal development.
- Many sites are predicted to be lost as a result of sea level rise, however this also presents the opportunity for the creation of new lagoonal habitat.

Increasing visitor pressure is causing a deterioration in biodiversity of some coastal sites

5.6 SEAGRASS BEDS/INTERTIDAL FLATS “Seagrass Beds”, “Mudflats”, “Sheltered Muddy Gravels” and “Sublittoral sands and gravels” are Priority Habitats.

5.6.1 Definition

Intertidal flats are sedimentary habitats created by deposition in low energy coastal environments, particularly estuaries and sheltered bays. They are not vegetated by flowering plants, apart from the seagrass beds occurring along very sheltered stretches of coast.

5.6.2 The resource

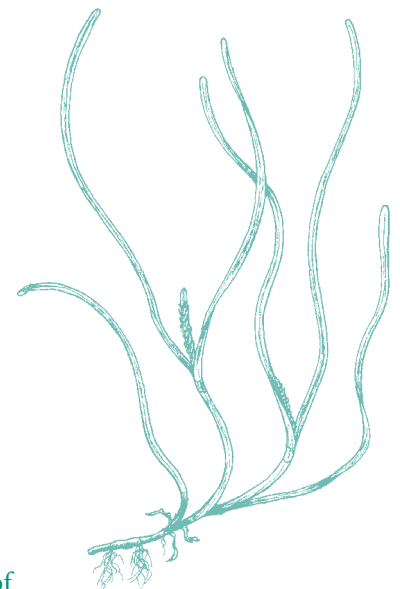
There are some 275 hectares of mudflats within estuaries, representing just 0.14% of the national resource (Figs. 13 & 14). Additionally, 103 hectares of intertidal mudflats and 450 hectares of intertidal sandflats have been identified along the north coast of the Island, outside of the estuaries. The largest extent of intertidal sediments in the Solent is found along the sheltered north-eastern shore of the Island, between Fishbourne and Horestone Point. This is the only major zone of sediment accumulation within the coastal cell stretching from Selsey Bill to Portland. Sediment accretion is believed to be derived from erosional processes on the south coast of the Island, although Ryde Sands may also be supplied from the Solent. At low tide, a particularly wide range of sediments are exposed over this stretch of coastline, grading from the fine estuary muds of Wootton Creek, through cobbles and boulders at Pelhamfield to the extensive sandflats at Ryde, which reach a maximum width of almost 2 km.

5.6.3 Nature conservation importance

Intertidal flats are extremely productive biologically and they can be characterised in terms of their benthic fauna and their ability to support internationally important populations of wildfowl and waders as winter feeding grounds. Typically, twelve species of wildfowl and twenty species of wader regularly use the Island’s estuaries.

Holme & Bishop (1980) split the sedimentary shore communities of the Solent and Southampton Water into five main types: crustacean-polychaete, sandmason worm, lugworm, carpet shell and furrow shell. Mudflats are characterised by high biological productivity and abundance of organisms, but low diversity with few rare species. They are also important nursery areas for flatfish. Sheltered muddy gravel habitats can be extremely species-rich, especially in fully marine conditions, because the complex nature of the substratum supports a high diversity of both infauna and epifauna.

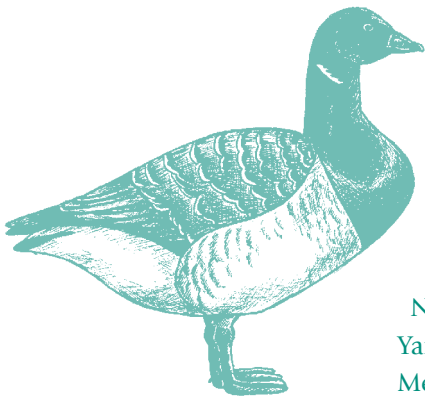
Intertidal sediments along the north coast of the Island can also support beds of three species of eelgrass and these extend into the sublittoral. All three species are nationally scarce and, additionally, extensive seagrass beds are highly productive because organic material released from decaying grass provides an important nutrient source for marine ecosystems. The plants themselves provide attachment for invertebrates and algae and the stabilised substrate can support a rich infauna. Extensive beds can provide important nursery and feeding grounds for a variety of juvenile fish. Intertidal beds can be a vital food source for brent geese and wigeon.



Eel grass

5.6.3.1 Key species

- | | |
|--------------|--|
| Birds: | Brent goose; teal; sanderling; bar-tailed godwit; black-tailed godwit; turnstone; wigeon |
| Tunicate: | A sea squirt (<i>Molgula oculata</i>) |
| Crustaceans: | Mantis shrimp (<i>Meiosquilla desmaresti</i>) |
| Molluscs: | Native oyster; <i>Hydrobia ventrosa</i> |



Brent goose

Bryozoan: *Amathia pruvoti*
 Flowering plants: Eelgrass; narrow-leaved eelgrass; dwarf eelgrass

5.6.3.2 Key sites

All sites are included within either the Solent and Southampton SPA or the candidate SAC, or both.

Ryde Sands (SPA, SSSI)

Newtown estuary (SPA, cSAC, Ramsar, NNR, SSSI)

Yar estuary (SPA, cSAC, Ramsar, SSSI)

Medina estuary (SPA, cSAC, Ramsar, SSSI)

Bembridge Harbour (SPA, Ramsar, SSSI)

Wootton Creek (SPA, Ramsar, SSSI)

5.6.4 Factors affecting the habitat

- Sea level rise
- Lack of ecological information
- Anchoring and mooring issues
- Coastal development including coastal protection and beach cleaning
- Shellfish collecting and bait digging
- Water pollution (pollution/eutrophication)
- Recreation and disturbance
- Sediment disturbance and re-distribution due to dredging

The Island has the best examples of intertidal and offshore reefs in the South-east region

5.7 ROCKY SEABED/EXTENSIVE SHALLOW SUBLITTORAL ROCK/ COASTAL WATERS
 "Littoral and Sub-littoral Chalk", "*Sabellaria spinulosa* Reefs", "Sub-littoral Sands and Gravels" and "Mud Habitats in Deep Water" are all Priority Habitats.

5.7.1 Definition

Exposed areas of littoral and sub-littoral hard substrates, typically consisting of bedrock reefs and boulder plains, out to 6 nautical miles from baselines.

5.7.2 The resource

Intertidal and sub-tidal reefs in the Solent and Poole Bay area occur mainly around the Isle of Wight. The extent of this habitat is unknown, in part due to the difficulties and expense of surveying the seabed. However, it does include an estimated 133 hectares of intertidal reef habitat, these being rocky shores which extend into the sublittoral, and an additional 8.6 hectares of rocky shore which does not extend into the sublittoral (Fig. 8). Littoral rock is limited to the limestone outcrops at the eastern end of the Island, the boulder shore along the Undercliff between Ventnor and St Catherine's Point, and the ironstone reefs at Hanover Point. Sublittoral rock consists largely of rocky reefs which fringe the coastline, particularly adjacent to hard cliffs and shore, in particular limestone outcrops at Bembridge and chalk outcrops at Culver Cliff and the Needles.

The greatest proportion of European coastal chalk (57%) and many of the best examples of littoral and sublittoral chalk habitats are located on the coast of England. The range of chalk intertidal, cliff and cave habitats off the Island's coast create a diverse range of habitats and communities, which are of international nature conservation importance. The chalk is vertically bedded, in contrast to the more general horizontal bedding elsewhere. There are also diverse sandstone, clay bedrock, flints and deep boulder fields.

Figure 13 Distribution of Mudflats

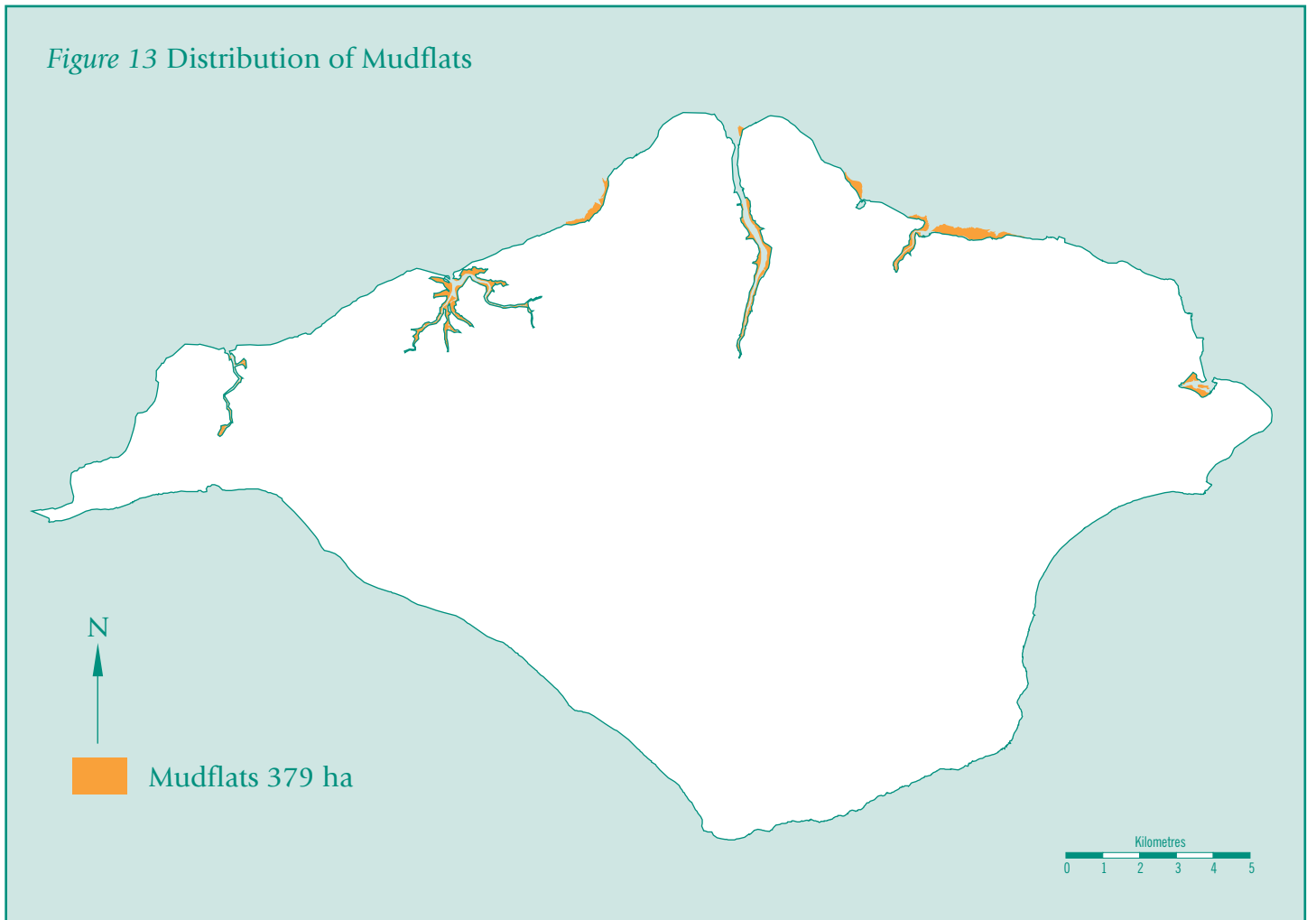
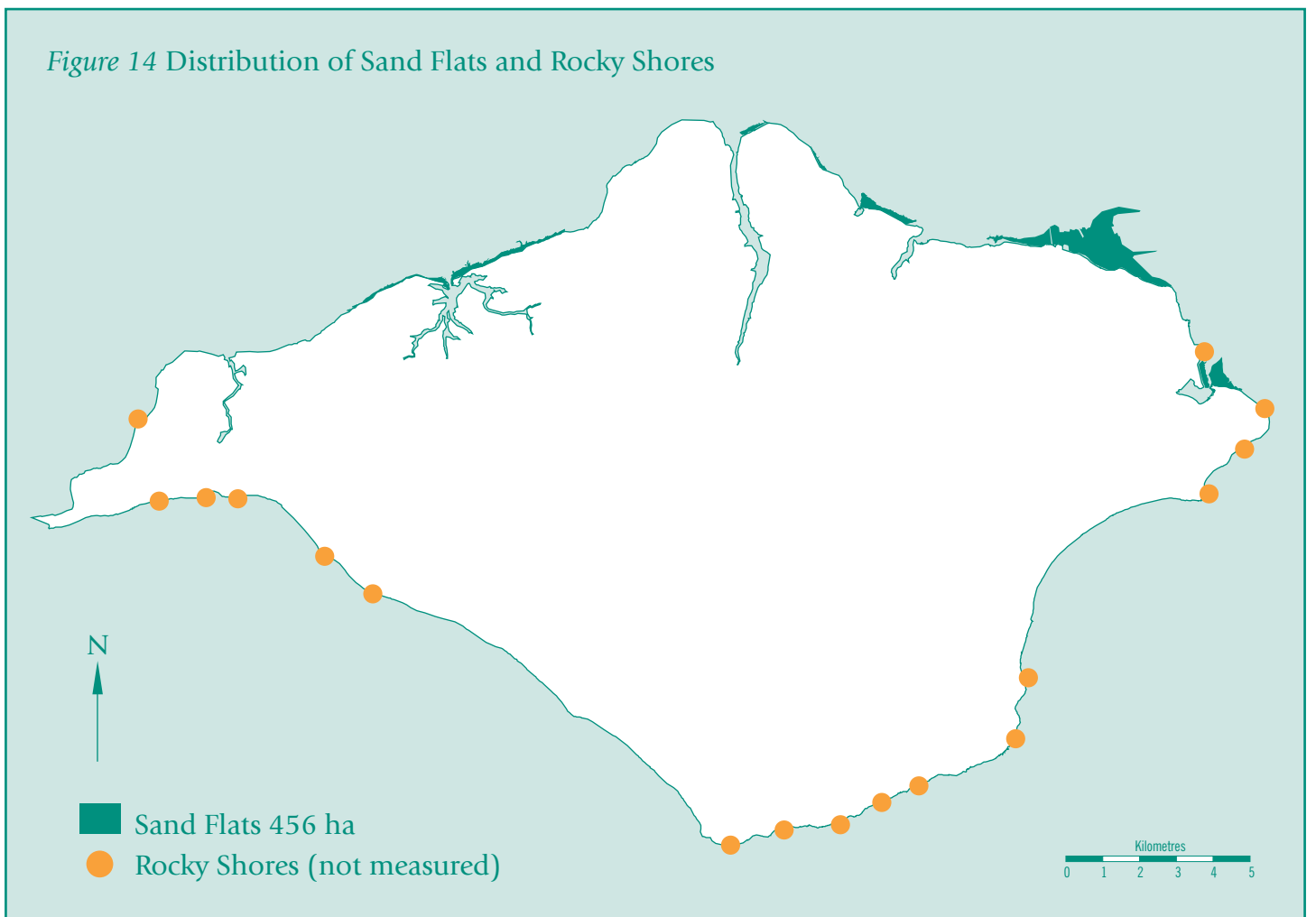


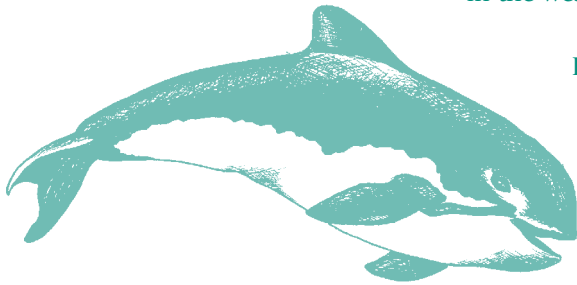
Figure 14 Distribution of Sand Flats and Rocky Shores



5.7.3 Nature conservation importance

In South-East England, sublittoral communities are generally limited and low in species-richness, due to the high levels of turbidity, siltation and scouring of the coastal waters. However, the Island's coast, falling at the outer edge of the south-east region is generally biologically richer, and infra-littoral communities are more diverse and extend into deeper waters. Offshore reefs, which can extend into the intertidal, are one of the features of interest within the South Wight Maritime candidate SAC. A number of sites are of particular importance for their marine communities. The limestone rock at Bembridge provides a variety of habitats which support a rich diversity of marine life in the intertidal and sub-tidal. Some species are at the eastern edge of their range. The chalk cliffs at Culver and Freshwater to Alum Bay display rare chalk cliff algal communities, ranked as being respectively the fourth and fifth most important in the country. The most varied chalk topography is found around the Needles and Alum Bay with sublittoral cliffs, caves, gullies and boulder slopes. This area also supports the greatest range of sub-tidal fauna. The Island's offshore seabed includes some of the most important sub-tidal British chalk reefs, representing over 5% of Europe's coastal chalk exposures. The undisturbed cobble and boulder shore in the Yar Estuary has important communities associated with wave-sheltered, but current swept reefs.

Bedrock varies and includes: soft chalk, particularly important where strong tidal streams increase habitat diversity; limestone platforms, which support the richest biota as a result of the range of horizontal and vertical faces and crevices; sandstone boulders; and clay bedrock outcrops occurring in the western Solent where there is tidal scour.



Harbour porpoise

In addition, biological reefs can form as a result of reef building creatures. *Sabellaria spinulosa* reefs comprise dense, sub-tidal aggregations of this small, tube-building polychaete worm. They are solid, but fragile and massive structures, several centimetres thick, raised above the seabed and persisting for many years often over predominantly sediment areas. As such, they provide a biogenic habitat that allows many other associated species to colonise.

The presence of shipwrecks provide artificial reefs for marine communities, a resource that is scarce throughout the sublittoral as a whole.

The marine habitats of the Island are of great biogeographical significance, and support some of the richest plant and animal communities in the area. The waters form the northern limit for a number of more southerly species. They also mark a boundary between the warmer waters of the western Channel and the cooler waters from the east, providing a transition between warm-temperate (Boreal-Lusitanian) and cold-temperate (Boreal) provinces and their associated biogeographical elements.

5.7.3.1 Key species

There is frequently insufficient knowledge to assess adequately the status of marine species, although some species are known to be rare. Other species are of particular biogeographic importance, occurring at the current margins of their range. As either more data becomes available, or populations change, the status of species will require re-evaluation. However, the southern England coast between Hayling Island and Lyme Regis (Marine Region 9) is considered to be comparatively rich in nationally rare and scarce marine species. Areas around the east and west of the Island contain particular concentrations of rare and scarce benthic species.

Marine litter kills wildlife such as seabirds and dolphins

Cetaceans:	Harbour porpoise (<i>Phocoena phocoena</i>)*; Bottle-nosed dolphin (<i>Tursiops truncatus</i>)*; Pilot whale (<i>Globicephala melas</i>)*; Killer whale (<i>Orcinus orca</i>)*
Fish:	Common goby (<i>Pomatoscistus microps</i>); Sand goby (<i>P. minutes</i>); Twait shad (<i>Alosa fallax</i>)*; Smelt (<i>Osmerus eperlanus</i>); Basking shark (<i>Cetorhinus maximus</i>); Tope (<i>Galeorhinus galeus</i>); Porbeagle shark (<i>Lamna nasus</i>); Common skate (<i>Raja batis</i>)*; Bass (<i>Dicentrarchus labrax</i>)
Molluscs:	Native oyster (<i>Ostrea edulis</i>)*; Lagoon snail (<i>Palludinella littorina</i>); Dogwhelk (<i>Nucella lapillus</i>); Lagoon cockle (<i>Cerastoderma glaucum</i>); Variable scallop (<i>Chlamys varia</i>); A sea slug (<i>Aeolidiella alderi</i>)
Bryozoans:	<i>Epistomia bursaria</i>
Cnidarians:	"Ginger tiny anemone" (<i>Isozoanthus sulcatus</i>)
Red Algae:	<i>Gracillaria bursa-pastoris</i> ; <i>Grateloupia filicina var. luxurians</i>
Brown Algae:	<i>Padina pavonia</i> ; <i>Zanardinia prototypus</i>

5.7.3.2 Key sites

Key Sites	Whitecliff Bay and Bembridge Ledges (cSAC, SSSI) St Helen's Ledges (SSSI) Much of the intertidal and sublittoral around the southern coastline of the Island is included within the South Wight Maritime candidate SAC.
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5.7.4 Factors affecting the habitat

The threats to marine wildlife and habitats transcend county boundaries ubiquitous. The main threats to marine and coastal species and habitats are considered to be:

- Habitat loss and degradation
- Pollution
- Over-exploitation of fish stocks
- Introduction of alien species.

Table 1 Isle of Wight BAP Habitat Classification

I.W. BAP Classification	Steering Group Broad Habitat Types	Priority Habitat
Semi-natural Broadleaved Woodland	1. Broadleaved, mixed and yew woodland	Wet woodland
Parkland & pasture Woodland	1. Broadleaved, mixed and yew woodland	Lowland wood pasture and parkland
Plantation Woodland	2. Coniferous woodland	
Arable	4. Arable and horticultural	Cereal field margins
Improved Grassland	5. Improved grassland	
Ancient Hedgerows	3. Boundary and linear features	Ancient and/or species rich hedgerows
Unimproved Neutral Grasslands	6. Neutral grassland	Lowland meadows
Acid Grasslands	8. Acid grassland	Lowland dry acid grassland
Calcareous Grasslands	7. Calcareous grassland	Lowland calcareous grassland
Lowland Heath	10. Dwarf shrub heath	Lowland heathland
Grazing Marsh	5. Improved grassland	Coastal and floodplain grazing marsh
Wetlands: Fens, Swamps (including reedbeds) and Marshes	11. Fen, marsh and swamp	Purple moor grass and rush pastures Fens Reedbeds
Rivers and Streams	14. Rivers and streams	Chalk rivers
Eutrophic Standing Water	13. Standing open water and canals	Eutrophic standing waters
Maritime Cliffs	Supra littoral rock	Maritime cliff and slopes
Vegetated Shingle	Supra littoral sediment	Coastal vegetated shingle
Saltmarsh	Littoral sediment	Coastal Saltmarsh
Sand Dunes	Supra littoral sediment	Coastal sand dunes
Coastal Saline Lagoons	Inshore sediment	Saline lagoons
Seagrass Beds/ Intertidal Flats	Littoral sediment	Seagrass beds Sheltered muddy gravels Mudflats
Rocky Seabed/ Extensive shallow	Littoral rock	Littoral and Sublittoral Chalk
Sublittoral Rock	Inshore rock	<i>Sabellaria spinulosa</i> reefs
Coastal waters	Inshore sediment	Mud Habitats in Deep Water Sublittoral Sands & Gravels

Table 2 National BAP Priority Species which are considered to be extinct on the Island

Species	Group	Approximate date of last record
European Otter	Mammals	1954? (Breeding)
Cirl Bunting	A Bird	1950's
<i>Bombus sylvarum</i>	A Bee	1930
Marsh Fritillary	Butterfly	1956 (Native population)
Mole Cricket	A Cricket	1976
Field Cricket	A Cricket	1930's
<i>Poronia punctata</i>	A Fungus	1924
<i>Caloplaca luteoalba</i>	A Lichen	Late 1800s
<i>Pseudocyphellaria aurata</i>	A Lichen	Mid 1800s

S P E C I E S

Framework of the Species Audit

The Species Audit identifies species of concern occurring in the Isle of Wight. The following criteria have been used for selecting these species:

The Island is a stronghold for Dormouse, Water Vole and Barn Owl

1. National BAP Priority Species.

Those species listed by the UK Biodiversity Group, amalgamated from the original 'short' and 'middle' list species in Biodiversity: the UK Steering Group Report). These are classified as species which qualify for one or more of the following categories -

- Species which are globally threatened
- Species which are rapidly declining in the UK, ie by more than 50% in the last 25 years.

2. Species of National Conservation Concern.

Those species on the 'long' list in Biodiversity: the UK Steering Group Report. These are classified as species which qualify for one or more of the following categories -

- Threatened endemic and other globally threatened species
- Species where the UK has more than 25% of the world or appropriate biogeographical population.
- Species where numbers or range have declined by more than 25% in the last 25 years.
- In some instances where the species is found in fewer than 15 ten km squares in the UK
- Species which are listed in the EU Birds or Habitats Directives, the Bern, Bonn or CITES Conventions, or under the Wildlife & Countryside Act 1981 and the Wildlife Order (Northern Ireland) 1985.

3. Species listed in the relevant national Red Data Books or lists.

4. Locally important species

Those species identified as being locally important by virtue of their rarity, rapid decline and/or isolation. Also species for which the Island holds regionally important populations.

The Island has 13 of Britain's 16 resident bat species

SPECIES AUDIT TABLES

Latin name	English name	BAP status	Primary habitat	Subsidiary habitat	Local abundance	Local population trend
M A M M A L S						
<i>Arvicola terrestris</i>	Water Vole	1	Rivers and Streams	Fens, Marsh and Swamp		Common Stable
<i>Barbastella barbastellus</i>	Barbastelle Bat	2	Mosaic		Rare	Not known
<i>Eptesicus serotinus</i>	Serotine Bat	2	Mosaic		Common	Stable
<i>Globicephala melas</i>	Pilot Whale	2	Coastal waters		Not known	Not known
<i>Lepus europaeus</i>	Brown Hare	1	Lowland meadows	Lowland calcareous grassland	Common	Stable
<i>Lutra lutra</i>	European Otter	1	Saltmarsh		Rare	Not known
<i>Meles meles</i>	Badger	2	Lowland meadows	Broad-leaved mixed woodland	Common	Stable
<i>Micromys minutus</i>	Harvest Mouse	3	Lowland meadows		Rare	Not known
<i>Muscardinus avellanarius</i>	Dormouse	1	Broad-leaved mixed woodland	Ancient and/or spp rich hedgerows	Common	Stable
<i>Mustela erminea</i>	Stoat	2	Lowland meadows	Broad-leaved mixed woodland	Common	Not known
<i>Mustela nivalis</i>	Weasel	2	Lowland meadows	Broad-leaved mixed woodland	Common	Not known
<i>Myotis mystacinus</i>	Whiskered Bat	2	Mosaic		Occasional	Not known
<i>Myotis daubentoni</i>	Daubenton's Bat	2	Mosaic		Occasional	Stable
<i>Myotis bechsteinii</i>	Bechstein's Bat	2	Mosaic		Scarce	Stable
<i>Myotis nattereri</i>	Natterer's Bat	2	Mosaic		Occasional	Not known
<i>Nyctalus noctula</i>	Noctule Bat	2	Mosaic		Occasional	Decreasing
<i>Orcinus orca</i>	Killer Whale	2	Coastal waters		Not known	Not known
<i>Phocoena phocoena</i>	Harbour Porpoise	1	Coastal waters		Rare	Decreasing
<i>Pipistrellus pipistrellus</i>	Pipistrelle Bat	1	Mosaic		Common	Not known
<i>Pipistrellus nathusii</i>	Nathusius's Pipistrelle	3	Mosaic		Rare	Not known
<i>Plecotus austriacus</i>	Grey Long-eared Bat	2	Mosaic		Rare	Not known
<i>Plecotus auritus</i>	Brown Long-eared Bat	2	Mosaic		Common	Stable
<i>Rhinolophus ferrumequinum</i>	Greater Horseshoe Bat	1	Mosaic		Rare	Decreasing
<i>Sciurus vulgaris</i>	Red Squirrel	1	Broad-leaved mixed woodland	Ancient and/or spp rich hedgerows	Common	Stable
<i>Sorex araneus</i>	Common Shrew	2	Lowland meadows	Lowland dry acid grassland	Common	Not known
<i>Sorex minutus</i>	Pygmy Shrew	2	Lowland meadows	Lowland dry acid grassland	Common	Not known
<i>Tursiops truncatus</i>	Bottle-nosed Dolphin	2	Coastal waters		Not known	Not known

B I R D S

<i>Podiceps auritus</i>	Slavonian Grebe (wintering)	2	Coastal waters		Localised	Stable
<i>Phalacrocorax carbo</i>	Cormorant	2	Maritime cliffs & slopes	Coastal waters	Common	Stable
<i>Phalacrocorax aristotelis</i>	Shag	2	Maritime cliffs & slopes		Scarce	Stable
<i>Egretta garzetta</i>	Little Egret	2	Mudflats	Broad-leaved mixed woodland	Scarce	Increasing
<i>Cygnus olor</i>	Mute Swan	2	Fen, marsh and swamp	Saltmarsh	Common	Not known
<i>Branta bernicla</i>	Brent Goose (wintering)	2	Saltmarsh	Grazing marsh	Common	Increasing
<i>Tadorna tadorna</i>	Shelduck	2	Mudflats	Coastal waters	Localised	Not known
<i>Anas penelope</i>	Wigeon (wintering)	2	Saltmarsh	Mudflats	Common	Not known
<i>Anas strepera</i>	Gadwall (wintering)	2	Eutrophic standing waters	Mudflats	Localised	Not known
<i>Anas crecca</i>	Teal (wintering)	2	Mudflats	Fen, marsh and swamp	Common	Stable
<i>Anas platyrhynchos</i>	Mallard	2	Eutrophic standing waters	Rivers & streams	Common	Not known
<i>Anas acuta</i>	Pintail (wintering)	2	Coastal waters	Saltmarsh	Localised	Stable
<i>Anas clypeata</i>	Shoveler (wintering)	2	Eutrophic standing waters	Coastal waters	Localised	Stable
<i>Aythya ferina</i>	Pochard	2	Eutrophic standing waters	Coastal waters	Localised	Decreasing
<i>Aythya fuligula</i>	Tufted Duck	2	Eutrophic standing waters		Localised	Not known
<i>Bucephala clangula</i>	Goldeneye (wintering)	2	Coastal waters		Localised	Stable
<i>Circus cyaneus</i>	Hen Harrier (wintering)	2	Lowland meadows		Scarce	Stable
<i>Buteo buteo</i>	Buzzard	2	Broad-leaved mixed woodland	Lowland meadows	Localised	Increasing
<i>Falco tinnunculus</i>	Kestrel	2	Lowland meadows	Lowland dry acid grassland	Common	Stable
<i>Falco peregrinus</i>	Peregrine	2	Maritime cliffs & slopes		Localised	Increasing
<i>Perdix perdix</i>	Grey Partridge	1	Arable & horticultural		Scarce	Decreasing
<i>Rallus aquaticus</i>	Water Rail	2	Reedbeds	Fen, marsh and swamp	Localised	Stable
<i>Haematopus ostralegus</i>	Oystercatcher	3	Mudflats	Littoral rock	Localised	Stable
<i>Charadrius hiaticula</i>	Ringed Plover	2	Coastal vegetated shingle	Mudflats	Scarce	Decreasing
<i>Pluvialis apricaria</i>	Golden Plover (wintering)	2	Saltmarsh	Mudflats	Localised	Not known
<i>Pluvialis squatarola</i>	Grey Plover (wintering)	2	Mudflats	Saltmarsh	Localised	Not known
<i>Vanellus vanellus</i>	Lapwing	2	Mudflats	Improved grassland	Localised	Decreasing
<i>Calidris canutus</i>	Knot (wintering)	2	Mudflats	Saltmarsh	Localised	Not known

Habitats in orange type are Priority Habitats in the UK Biodiversity Action Plan

Latin name	English name	BAP status	Primary habitat	Subsidiary habitat	Local abundance	Local population trend
<i>Calidris alba</i>	Sanderling (wintering)	2	Littoral sediment		Scarce	Stable
<i>Calidris maritima</i>	Purple Sandpiper (wintering)	2	Littoral rock		Scarce	Decreasing
<i>Calidris alpina</i>	Dunlin (wintering)	2	Mudflats	Saltmarsh	Common	Not known
<i>Lymnocyptes minimus</i>	Jack Snipe (wintering)	2	Fen, marsh and swamp	Lowland meadows	Localised	Decreasing
<i>Gallinago gallinago</i>	Snipe	2	Fen, marsh and swamp	Lowland meadows	Localised	Decreasing
<i>Scolopax rusticola</i>	Woodcock	2	Broad-leaved mixed woodland		Localised	Not known
<i>Limosa limosa</i>	Black-tailed Godwit (wintering)	2	Mudflats	Lowland meadows	Localised	Not known
<i>Limosa lapponica</i>	Bar-tailed Godwit (wintering)	2	Littoral sediment	Saltmarsh	Scarce	Decreasing
<i>Numenius arquata</i>	Curlew (wintering)	2	Mudflats	Saltmarsh	Common	Stable
<i>Tringa totanus</i>	Redshank	2	Mudflats	Lowland meadows	Localised	Decreasing
<i>Arenaria interpres</i>	Turnstone (wintering)	2	Sheltered muddy gravels	Littoral rock	Localised	Stable
<i>Larus melanocephalus</i>	Mediterranean Gull	2	Littoral sediment	Inshore sediment	Rare	Increasing
<i>Larus fuscus</i>	Lesser black-backed Gull	2	Maritime cliffs & slopes	Littoral rock	Scarce	Not known
<i>Larus argentatus</i>	Herring Gull	2	Maritime cliffs & slopes	Littoral rock	Localised	Stable
<i>Sterna hirundo</i>	Common Tern	2	Coastal vegetated shingle	Coastal waters	Scarce	Not known
<i>Sterna albifrons</i>	Little Tern	2	Coastal vegetated shingle	Coastal waters	Rare	Decreasing
<i>Uria aalge</i>	Guillemot	3	Maritime cliffs & slopes	Coastal waters	Scarce	Decreasing
<i>Streptopelia turtur</i>	Turtle Dove	2	Broad-leaved mixed woodland		Scarce	Decreasing
<i>Tyto alba</i>	Barn Owl	2	Mosaic		Localised	Stable
<i>Asio otus</i>	Long-eared Owl	2	Coniferous woodland	Broad-leaved mixed woodland	Localised	Stable
<i>Asio flammeus</i>	Short-eared Owl (wintering)	2	Lowland meadows		Scarce	Stable
<i>Caprimulgus europaeus</i>	Nightjar	2	Broad-leaved mixed woodland	Lowland heathland	Localised	Decreasing
<i>Alcedo atthis</i>	Kingfisher	2	Rivers & streams	Eutrophic standing waters	Scarce	Stable
<i>Picus viridis</i>	Green Woodpecker	2	Wood pasture & parkland		Common	Stable
<i>Dendrocopos major</i>	Great Spotted Woodpecker	2	Broad-leaved mixed woodland		Common	Stable
<i>Dendrocopos minor</i>	Lesser Spotted Woodpecker	2	Broad-leaved mixed woodland		Rare	Not known
<i>Alauda arvensis</i>	Skylark	1	Improved grassland		Common	Stable
<i>Hirundo rustica</i>	Swallow	2	Built-up areas & gardens		Common	Not known
<i>Delichon urbica</i>	House Martin	2	Built-up areas & gardens		Common	Not known
<i>Anthus pratensis</i>	Meadow Pipit	2	Lowland meadows	Lowland calcareous grasslands	Common	Stable
<i>Anthus petrosus</i>	Rock Pipit	2	Littoral rock	Maritime cliffs & slopes	Localised	Not known
<i>Motacilla cinerea</i>	Grey Wagtail	2	Rivers & streams		Scarce	
<i>Motacilla alba</i>	Pied Wagtail	2	Mosaic		Common	Stable
<i>Prunella modularis</i>	Dunnock	2	Ancient and/or spp rich hedgerows	Built-up areas and gardens		Stable
<i>Luscinia megarhynchos</i>	Nightingale	2	Broad-leaved mixed woodland		Localised	Decreasing
<i>Saxicola torquata</i>	Stonechat	2	Lowland heathland	Maritime cliffs & slopes	Localised	Not known
<i>Oenanthe oenanthe</i>	Wheatear	2	Lowland calcareous grassland	Maritime cliffs & slopes	Rare	Stable
<i>Turdus pilaris</i>	Fieldfare (wintering)	2	Ancient and/or spp rich hedgerows	Lowland meadows	Common	Stable
<i>Turdus philomelos</i>	Song Thrush	1	Broad-leaved mixed woodland	Built-up areas and gardens	Common	Decreasing
<i>Turdus iliacus</i>	Redwing (wintering)	2	Ancient and/or spp rich hedgerows	Lowland meadows	Common	Stable
<i>Cettia cetti</i>	Cetti's Warbler	2	Reedbeds	Fen, marsh and swamp	Scarce	Stable
<i>Acrocephalus schoenobaenus</i>	Sedge Warbler	2	Reedbeds	Ancient and/or spp rich hedgerows	Localised	Stable
<i>Acrocephalus scirpaceus</i>	Reed Warbler	2	Reedbeds	Fen, marsh and swamp	Common	Stable
<i>Sylvia undata</i>	Dartford Warbler	2	Lowland heathland		Localised	Not known
<i>Sylvia curruca</i>	Lesser Whitethroat	2	Ancient and/or spp rich hedgerows		Common	Not known
<i>Sylvia communis</i>	Whitethroat	2	Ancient and/or spp rich hedgerow		Common	Not known
<i>Sylvia borin</i>	Garden Warbler	2	Broad-leaved mixed woodland		Localised	Not known

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<i>Sylvia atricapilla</i>	Blackcap	2	Broad-leaved mixed woodland	Boundary and linear features	Common	Stable
<i>Phylloscopus collybita</i>	Chiffchaff	2	Broad-leaved mixed woodland		Common	Stable
<i>Phylloscopus trochilus</i>	Willow Warbler	2	Broad-leaved mixed woodland		Common	Decreasing
<i>Regulus regulus</i>	Goldcrest	2	Coniferous woodland	Broad-leaved mixed woodland	Common	Stable
<i>Regulus ignicapillus</i>	Firecrest	2	Coniferous woodland	Broad-leaved mixed woodland	Scarce	Increasing
<i>Muscicapa striata</i>	Spotted Flycatcher	2	Broad-leaved mixed woodland	Built up areas & gardens	Scarce	Decreasing
<i>Parus palustris</i>	Marsh Tit	2	Broad-leaved mixed woodland		Localised	Decreasing
<i>Parus ater</i>	Coal Tit	2	Coniferous woodland	Broad-leaved mixed woodland	Common	Stable
<i>Parus caeruleus</i>	Blue Tit	2	Broad-leaved mixed woodland	Built-up areas and gardens	Common	Stable
<i>Parus major</i>	Great Tit	2	Broad-leaved mixed woodland	Ancient and/or spp rich hedgerows	Common	Stable
<i>Certhia familiaris</i>	Treecreeper	2	Broad-leaved mixed woodland		Common	Stable
<i>Corvus corax</i>	Raven	3	Maritime cliffs & slopes		Scarce	Increasing
<i>Carduelis chloris</i>	Greenfinch	2	Ancient and/or spp rich hedgerows	Built-up areas and gardens	Common	Stable
<i>Carduelis carduelis</i>	Goldfinch	2	Mosaic		Common	Stable
<i>Carduelis cannabina</i>	Linnet	2	Ancient and/or spp rich hedgerows	Arable & horticultural	Common	Decreasing
<i>Pyrrhula pyrrhula</i>	Bullfinch	2	Broad-leaved mixed woodland	Arable & horticultural	Common	Decreasing
<i>Emberiza citrinella</i>	Yellowhammer	2	Boundary and linear features	Arable & horticultural	Common	Not known
<i>Emberiza schoeniclus</i>	Reed Bunting	2	Reedbeds	Fen, marsh and swamp	Localised	Decreasing
<i>Miliaria calandra</i>	Corn Bunting	2	Arable & horticultural	Boundary and linear features	Localised	Decreasing

REPTILES

<i>Anguis fragilis</i>	Slow-worm	2	Arable & horticultural	Lowland meadows	Common	Not known
<i>Natrix natrix</i>	Grass Snake	2	Lowland meadows	Ancient and/or spp rich hedgerows	Common	Not known
<i>Podarcis muralis</i>	Wall Lizard	3	Built-up areas & gardens		Rare	Stable
<i>Vipera berus</i>	Adder	2	Lowland meadows	Lowland dry acid grassland	Common	Not known

AMPHIBIA

<i>Bufo bufo</i>	Common Toad	2	Mosaic		Common	Not known
<i>Rana temporaria</i>	Common Frog	2	Mosaic		Common	Not known
<i>Triturus helveticus</i>	Palmate Newt	2	Mosaic		Common	Not known
<i>Triturus cristatus</i>	Great Crested Newt	1	Mosaic		Occasional	Not known
<i>Triturus vulgaris</i>	Smooth Newt	2	Mosaic		Common	Not known

FISH

<i>Alosa alosa</i>	Allis shad	1	Coastal waters		Believed extinct	
<i>Alosa fallax</i>	Twaite Shad	1	Coastal waters		Rare	Not known
<i>Cetorhinus maximus</i>	Basking Shark	2	Coastal waters		Rare	Not known
<i>Cottus gobio</i>	Bullhead	2	Rivers & streams		Occasional	Not known
<i>Dicentrarchus labrax</i>	Bass	3	Coastal waters		Common	Not known
<i>Galeorhinus galeus</i>	Tope	2	Coastal waters		Rare	Increasing
<i>Lamna nasus</i>	Porbeagle Shark	2	Coastal waters		Rare	Not known
<i>Lampetra planeri</i>	Brook Lamprey	2	Rivers & streams		Scarce	Not known
<i>Osmerus eperlanus</i>	Smelt	2	Coastal waters		Rare	Not known
<i>Pomatoschistus minutus</i>	Sand Goby	2	Coastal waters		Common	Not known
<i>Pomatoschistus microps</i>	Common Goby	2	Coastal waters		Common	Not known
<i>Raja batis</i>	Common Skate	1	Coastal waters		Rare	Declining

ANTS, BEES AND WASPS

<i>Bombus sylvarum</i>	Shrill Carder Bee	1	Lowland calcareous grasslands		Believed extinct	
<i>Bombus humilis</i>	Brown-banded Carder Bee	2	Lowland meadows		Believed extinct	
<i>Bombus subterraneus</i>	Short-haired Bumble Bee	2	Coastal Sand Dunes		Believed extinct	
<i>Cerceris quinquefasciata</i>	A solitary wasp	3	Maritime cliffs & slopes		Believed extinct	
<i>Formica rufa</i>	Southern Wood Ant	3	Broad-leaved mixed woodland		Occasional	Not known
<i>Lasioglossum angusticeps</i>	A mining bee	2	Lowland calcareous grassland		Scarce	Not known
<i>Nomada armata</i>	A cuckoo bee	3	Lowland meadows		Believed extinct	
<i>Nomada errans</i>	A nomad bee	2	Lowland dry acid grassland	Lowland meadows	Not known	Not known
<i>Osmia xanthomelana</i>	A mason bee	2	Maritime cliffs & slopes		Rare	Not known

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B E E T L E S						
<i>Agriotes sordidus</i>	A click beetle	3	Coastal vegetated shingle		Rare	Stable
<i>Anisodactylus poeciloides</i>	A ground beetle	2	Saltmarsh		Rare	Not known
<i>Anostirus castaneus</i>	A click beetle	3	Maritime cliffs & slopes		Rare	Not known
<i>Apion matricela</i>	A weevil	3	Coastal vegetated shingle		Rare	Not known
<i>Bembidion andreae</i>	A ground beetle	3	Maritime cliffs & slopes		Rare	Not known
<i>Bledius crassicornis</i>	A rove beetle	3	Maritime cliffs & slopes		Rare	Not known
<i>Cathormiocerus socius</i>	A weevil	3	Maritime cliffs & slopes		Scarce	Not known
<i>Cicindela germanica</i>	A tiger beetle	2	Maritime cliffs & slopes		Rare	Stable
<i>Dromius vectensis</i>	A ground beetle	3	Coastal vegetated shingle	Maritime cliffs & slopes	Rare	Not known
<i>Drypta dentata</i>	A ground beetle	3	Coastal sand dunes		Rare	Not known
<i>Elaphrus uliginosus</i>	A ground beetle	3	Maritime cliffs & slopes		Rare	Not known
<i>Halobrecta princeps</i>	A rove beetle	3	Coastal vegetated shingle	Maritime cliffs & slopes	Scarce	Not known
<i>Harpalus parallelus</i>	A ground beetle	2	Lowland calcareous grassland	Maritime cliffs & slopes	Rare	Not known
<i>Harpalus dimidiatus</i>	A ground beetle	2	Lowland calcareous grassland		Rare	Not known
<i>Harpalus cupreus</i>	A ground beetle	3	Arable & horticultural		Rare	Not known
<i>Harpalus cordatus</i>	A ground beetle	1	Coastal sand dunes		Rare	Not known
<i>Heterocerus fusculus</i>	A mud-dwelling beetle	3	Maritime cliffs & slopes		Rare	Not known
<i>Medon ripicola</i>	A rove beetle	3	Coastal sand dunes	Coastal vegetated shingle	Rare	Not known
<i>Medon pociferus</i>	A rove beetle	3	Maritime cliffs & slopes		Rare	Not known
<i>Otiorhynchus ligustici</i>	A weevil	3	Maritime cliffs & slopes		Rare	Not known
<i>Paracymus aeneus</i>	A water beetle	2	Saline lagoons		Rare	Not known
<i>Thinobius brevipennis</i>	A rove beetle	3	Maritime cliffs & slopes		Rare	Not known
B U T T E R F L I E S						
<i>Lysandra bellargus</i>	Adonis Blue	2	Lowland calcareous grassland		Occasional	Stable
<i>Thecla betulae</i>	Brown Hairstreak	2	Ancient and/or spp rich hedgerows		Rare	Not known
<i>Lysandra coridon</i>	Chalkhill Blue	2	Lowland calcareous grassland		Occasional	Stable
<i>Argynnis aglaia</i>	Dark Green Fritillary	3	Lowland calcareous grassland	Lowland meadows	Occasional	Stable
<i>Hamearis lucina</i>	Duke of Burgundy	2	Lowland calcareous grassland		Scarce	Decreasing
<i>Melitaea cinxia</i>	Glanville Fritillary	2	Lowland meadows	Lowland calcareous grassland	Occasional	Stable
<i>Hipparchia semele</i>	Grayling	3	Lowland calcareous grassland	Lowland heathland	Scarce	Stable
<i>Boloria euphrosyne</i>	Pearl-bordered Fritillary	2	Broad-leaved mixed woodland		Scarce	Decreasing
<i>Argynnis paphia</i>	Silver-washed Fritillary	2	Broad-leaved mixed woodland		Occasional	Not known
<i>Cupido minimus</i>	Small Blue	2	Lowland calcareous grassland		Scarce	Not known
<i>Boloria selene</i>	Small Pearl-bordered Fritillary	2	Lowland meadows	Broad-leaved mixed woodland	Rare	Decreasing
C R I C K E T S A N D G R A S S H O P P E R S						
<i>Ectobius pallidus</i>	Tawny Cockroach	3	Lowland calcareous grassland	Lowland meadows	Occasional	Not known
<i>Ectobius panzeri</i>	Lesser Cockroach	3	Lowland calcareous grassland	Lowland meadows	Scarce	Not known
<i>Ectobius lapponicus</i>	Dusky Cockroach	3	Lowland calcareous grassland	Lowland meadows	Scarce	Not known
<i>Gryllotalpa gryllotalpa</i>	Mole Cricket	1	Lowland meadows		Believed extinct	
<i>Gryllus campestris</i>	Field Cricket	2	Lowland calcareous grassland		Believed extinct	
<i>Metrioptera roeselii</i>	Roesel's Bush-cricket	3	Saltmarsh		Rare	Not known
<i>Nemobius sylvestris</i>	Wood Cricket	3	Broad-leaved mixed woodland		Occasional	Stable
<i>Platycleis albopunctata</i>	Grey Bush-cricket	3	Lowland meadows	Lowland calcareous grassland	Occasional	Stable
<i>Stenobothrus lineatus</i>	Stripe-winged Grasshopper	3	Lowland calcareous grassland		Scarce	Not known
<i>Tetrix ceperoi</i>	Ceperoi's Groundhopper	3	Lowland meadows	Lowland calcareous grassland	Occasional	Not known
C R U S T A C E A						
<i>Apherusa ovaipesa</i>	A Shrimp	3	Inshore sediment		Not known	Not known
<i>Balanus perforatus</i>	A Barnacle	3	Littoral rock		Occasional	Not known
<i>Chthamalus montagui</i>	A Barnacle	3	Littoral rock		Occasional	Not known
<i>Chthamalus stellatus</i>	A Barnacle	3	Littoral rock		Occasional	Not known
<i>Gammarus insensibilis</i>	Lagoon Sand Shrimp	1	Saline lagoons		Scarce	Not known
<i>Meiosquilla desmaresti</i>	Mantis Shrimp	3	Inshore sediment		Common	Not known
<i>Synisoma lancifer</i>	A Shrimp	3	Littoral rock		Rare	Stable

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D R A G O N F L I E S A N D D A M S E L F L I E S						
<i>Aeshna grandis</i>	Brown Hawker	3	Eutrophic standing waters		Scarce	Stable
<i>Calopteryx virgo</i>	Beautiful Demoiselle	3	Eutrophic standing waters		Occasional	Stable
<i>Coenagrion pulchellum</i>	Variable Damselfly	3	Eutrophic standing waters		Rare	Stable
<i>Cordulegaster boltonii</i>	Golden-ringed Dragonfly	3	Eutrophic standing waters	Rivers & streams	Occasional	Not known
<i>Lestes sponsa</i>	Emerald Damselfly	3	Eutrophic standing waters		Scarce	Stable
<i>Libellula quadrimaculata</i>	Four-spotted Chaser	3	Eutrophic standing waters		Rare	Stable
<i>Orthetrum coerulescens</i>	Keeled Skimmer	3	Eutrophic standing waters		Rare	Stable
<i>Platycremis pennipes</i>	White-legged Damselfly	3	Rivers & streams		Rare	Decreasing
<i>Sympetrum sanguineum</i>	Ruddy Darter	3	Eutrophic standing waters	Rivers & streams	Occasional	Stable

FLIES

<i>Asilus crabroniformis</i>	A robber fly	1	Lowland meadows	Lowland calcareous grassland	Rare	Not known
<i>Bombus discolor</i>	A bee fly	2	Lowland meadows	Lowland dry acid grassland	Occasional	Stable
<i>Callicera aurata (C. aenea)</i>	A hover-fly	3	Broad-leaved mixed woodland		Rare	Not known
<i>Criorhina ranunculi</i>	A hover-fly	3	Broad-leaved mixed woodland		Rare	Not known
<i>Epistrophe diaphana</i>	A hover-fly	3	Broad-leaved mixed woodland	Lowland meadows	Scarce	Not known
<i>Eumerus ornata</i>	A hover-fly	2	Broad-leaved mixed woodland		Rare	Not known
<i>Limonia goritensis</i>	A crane fly	2	Maritime cliffs & slopes		Rare	Not known
<i>Mallota cimbiciformis</i>	A hover-fly	3	Broad-leaved mixed woodland		Rare	Not known
<i>Metasyrphus nitens</i>	A hover-fly	3	Broad-leaved mixed woodland		Rare	Not known
<i>Myopites inulaedyssentericae</i>	A gall-fly	3	Lowland meadows		Scarce	Not known
<i>Myopites eximia</i>	A gall-fly	3	Saltmarsh	Coastal vegetated shingle	Rare	Not known
<i>Pelecocera trincta</i>	A hoverfly	3	Broad-leaved mixed woodland	Lowland heathland	Rare	Not known
<i>Pocota personata</i>	A hover-fly	3	Wood pasture & parkland		Rare	Not known
<i>Stratiomys potamida</i>	A soldier fly	3	Maritime cliffs & slopes		Rare	Not known
<i>Terellia vectensis</i>	A picture-winged fly	3	Lowland calcareous grassland	Lowland heathland	Rare	Not known
<i>Urophora spoliata</i>	A picture-winged fly	3	Lowland calcareous grassland		Rare	Not known
<i>Volucella inanis</i>	A hover-fly	3	Maritime cliffs & slopes	Broad-leaved mixed woodland	Scarce	Not known
<i>Volucella zonaria</i>	A hover-fly	3	Maritime cliffs & slopes		Rare	Not known
<i>Volucella inflata</i>	A hover-fly	3	Broad-leaved mixed woodland		Scarce	Not known
<i>Xanthandrus comtus</i>	A hover-fly	3	Broad-leaved mixed woodland		Rare	Not known

MILLIPEDES

<i>Trachysphaera lobata</i>	A Millipede	2	Saltmarsh	Coastal sand dunes	Rare	Not known
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MOLLUSCS

<i>Aeolidia alderi</i>	Sea Slug	3	Littoral rock	Littoral sediment	Occasional	Not known
<i>Cerastoderma glaucum</i>	Lagoon Cockle	3	Saline lagoons		Common	Not known
<i>Chlamys varia</i>	Variable Scallop	3	Inshore sediment		Occasional	Not known
<i>Gibbula umbilicalis</i>	Purple Topshell	3	Littoral rock		Common	Not known
<i>Hydrobia ventrosa</i>	Lagoon Snail	2	Saline lagoons		Rare	Not known
<i>Melarhaphe neritoides</i>	Small Periwinkle	3	Littoral rock		Common	Not known
<i>Modiolus modiolus</i>	Horse Mussel	2	Inshore rock	Littoral rock	Occasional	Not known
<i>Nucella lapillus</i>	Dog Whelk	2	Littoral rock		Common	Increasing
<i>Ostrea edulis</i>	Native Oyster	1	Sheltered muddy gravels		Scarce	Not known
<i>Paludinella littorina</i>	Lagoon Snail	2	Littoral rock		Rare	Not known
<i>Patella ulyssiponensis</i>	Limpet	3	Littoral rock		Common	Not known
<i>Patella depressa</i>	Limpet	3	Littoral rock		Common	Not known
<i>Scrobicularia plana</i>	Furrow-shell	3	Littoral sediment		Rare	Not known
<i>Truncatella subcylindrica</i>	Looping Snail	2	Littoral rock		Rare	Not known
<i>Vertigo moulinsiana</i>	A Snail	1	Fens	Reedbeds	Rare	Not known

MOTHS

<i>Metzneria littorella</i>	A micro-moth	3	Maritime cliffs & slopes		Rare	Not known
<i>Mompha sturnipennella</i>	A micro-moth	3	Broad-leaved mixed woodland		Rare	Not known
<i>Mecyna flavalis flaviculis</i>	Auriferous Pearl	3	Lowland calcareous grassland		Rare	Not known
<i>Leucochlaena oditis</i>	Beautiful Gothic	2	Maritime cliffs & slopes		Occasional	Stable

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<i>Sedina buettneri</i>	Blair's Wainscot	3	Fens		Believed extinct	
<i>Heliophobus reticulata</i>	Bordered Gothic	2	Lowland calcareous grassland		Believed extinct	
<i>Selidosema brunnearia</i>	Bordered Grey	3	Lowland heathland		Believed extinct	
<i>Oria musculosa</i>	Brighton Wainscot	2	Arable & horticultural		Believed extinct	
<i>Hypena rostralis</i>	Buttoned Snout	2	Lowland meadows		Occasional	Stable
<i>Scotopteryx bipunctaria</i>	Chalk Carpet	1	Lowland calcareous grassland		Common	Stable
<i>Euphyia biangulata</i>	Cloaked Carpet	3	Ancient and/or spp rich hedgerows		Occasional	Stable
<i>Pechipogo strigilata</i>	Common Fan-foot	2	Broad-leaved mixed woodland		Scarce	Not known
<i>Earias clorana</i>	Cream-bordered Green Pea	3	Fens		Scarce	Stable
<i>Apamea oblonga</i>	Crescent Striped	1	Saltmarsh	Fens	Rare	Decreasing
<i>Agrotis trux</i>	Crescent Dart	3	Maritime cliffs & slopes		Common	Stable
<i>Synanthedon tipuliformis</i>	Currant Clearwing	3	Arable & horticultural		Rare	Stable
<i>Catocala sponsa</i>	Dark Crimson Underwing	2	Broad-leaved mixed woodland		Believed extinct	
<i>Anticollix sparsata</i>	Dentated Pug	3	Fens	Broad-leaved mixed woodland	Rare	Decreasing
<i>Setina irrorella</i>	Dew Moth	3	Maritime cliffs & slopes		Common	Stable
<i>Cyclophora pendularia</i>	Dingy Mocha	2	Lowland heathland		Rare	Decreasing
<i>Idaea sylvestraria</i>	Dotted Border Wave	3	Lowland heathland		Scarce	Stable
<i>Conistra rubiginea</i>	Dotted Chestnut	3	Broad-leaved mixed woodland		Occasional	Stable
<i>Aporophyla australis</i>	Feathered Brindle	3	Lowland calcareous grasslands		Common	Increasing
<i>Apoda limacodes</i>	Festoon	2	Broad-leaved mixed woodland		Common	Stable
<i>Adscita statices</i>	Forester	2	Lowland meadows	Lowland dry acid grassland	Rare	Decreasing
<i>Tyta luctuosa</i>	Four-spotted	2	Lowland meadows		Believed extinct	
<i>Cossus cossus</i>	Goat Moth	2	Wet woodland		Rare	Decreasing
<i>Pempelia genistella</i>	Gorse Knot-horn	3	Lowland calcareous grassland	Lowland heathland	Rare	Not known
<i>Lasiocampa trifolii</i>	Grass Eggar	3	Lowland heathland	Coastal sand dunes	Believed extinct	
<i>Pachycnemis hippocastanaria</i>	Horse Chestnut	3	Lowland heathland		Scarce	Stable
<i>Idaea humiliata</i>	Isle of Wight Wave	3	Lowland calcareous grassland		Believed extinct	
<i>Meganola albula</i>	Kent Black Arches	3	Broad-leaved mixed woodland		Common	Stable
<i>Mythimna l-album l-album</i>	Wainscot	3	Maritime cliffs & slopes		Common	Increasing
<i>Eupithecia plumbeolata</i>	Lead-coloured Pug	3	Broad-leaved mixed woodland	Ancient and/or spp rich hedgerows	Rare	Decreasing
<i>Agrotis cinerea</i>	Light Feathered Rustic	2	Lowland calcareous grasslands		Occasional	Stable
<i>Archiearis notha</i>	Light Orange Underwing	3	Broad-leaved mixed woodland		Scarce	Stable
<i>Cepphis advenaria</i>	Little Thorn	3	Broad-leaved mixed woodland		Common	Increasing
<i>Synaphe punctalis</i>	Long-legged Tabby	3	Coastal vegetated shingle	Coastal sand dunes	Rare	Not known
<i>Dolicharthria punctalis</i>	Long-legged China-mark	3	Lowland calcareous grassland	Coastal vegetated shingle	Scarce	Not known
<i>Mecyna asinalis</i>	Madder Pearl Pyralid	3	Maritime cliffs & slopes		Occasional	Not known
<i>Hypenodes humidalis</i>	Marsh Oblique-barred	3	Lowland heathland		Rare	Decreasing
<i>Mythimna favicolor</i>	Matthew's Wainscot	2	Saltmarsh		Occasional	Decreasing
<i>Cyclophora annulata</i>	Mocha	3	Broad-leaved mixed woodland		Common	Stable
<i>Hemaris tityus</i>	Narrow-bordered Bee Hawk	2	Lowland meadows	Lowland calcareous grassland	Believed extinct	
<i>Nephoteryx angustella</i>	Narrow-winged Knot-horn	3	Boundary and linear features	Lowland calcareous grassland	Rare	Not known
<i>Phibalapteryx virgata</i>	Oblique Striped	3	Coastal sand dunes		Rare	Decreasing
<i>Eilema sororcula</i>	Orange Footman	2	Broad-leaved mixed woodland		Common	Increasing
<i>Jodia croceago</i>	Orange Upperwing	2	Broad-leaved mixed woodland		Believed extinct	
<i>Polia bombycina</i>	Pale Shining Brown	2	Lowland calcareous grassland		Believed extinct	
<i>Eupithecia pimpinellata</i>	Pimpinel Pug	3	Lowland calcareous grassland		Rare	Decreasing
<i>Atolmis rubricollis</i>	Red-necked Footman	3	Broad-leaved mixed woodland		Occasional	Stable
<i>Acosmetia caliginosa</i>	Reddish Buff	2	Lowland meadows		Rare	Stable
<i>Simyra albovenosa</i>	Reed Dagger	3	Reedbeds		Rare	Decreasing
<i>Elaphria venustula</i>	Rosy Marbled	3	Broad-leaved mixed woodland		Rare	Increasing
<i>Scopula emutaria</i>	Rosy Wave	3	Saltmarsh		Rare	Stable
<i>Catarhoe rubidata</i>	Ruddy Carpet	3	Maritime cliffs & slopes	Ancient and/or spp rich hedgerows	Occasional	Stable
<i>Synanthedon flaviventris</i>	Sallow Clearwing	3	Broad-leaved mixed woodland	Lowland heathland	Rare	Decreasing
<i>Agrotis ripae</i>	Sand Dart	3	Coastal sand dunes		Scarce	Not known

1 = National BAP Priority Species 2 = National BAP Long List Species 3 = Isle of Wight BAP Species

Latin name	English name	BAP status	Primary habitat	Subsidiary habitat	Local abundance	Local population trend
<i>Mythimna litoralis</i>	Shore Wainscot	3	Coastal sand dunes		Occasional	Not known
<i>Chilodes maritimus</i>	Silky Wainscot	3	Reedbeds		Common	Stable
<i>Bembecia scopigera</i>	Six-belted Clearwing	3	Maritime cliffs & slopes	Lowland calcareous grassland	Rare	Decreasing
<i>Aleucis distinctata</i>	Sloe Carpet	3	Mosaic		Rare	Decreasing
<i>Chlorissa viridata</i>	Small Grass Emerald	3	Lowland heathland		Rare	Decreasing
<i>Meganola strigula</i>	Small Black Arches	2	Broad-leaved mixed woodland		Common	Stable
<i>Euxoa obelisca grisea</i>	Square-spot Dart	3	Maritime cliffs & slopes		Common	Stable
<i>Cucullia asteris</i>	Star-wort	2	Saltmarsh	Broad-leaved mixed woodland	Believed extinct	
<i>Cynaeda dentalis</i>	Starry Brindled Pearl	3	Mosaic		Rare	Not known
<i>Eudonia lineola</i>	Striped Grey	3	Boundary and linear features	Maritime cliffs & slopes	Rare	Not known
<i>Eupithecia distinctaria</i>	Thyme Pug	3	Lowland calcareous grassland		Rare	Decreasing
<i>Microstega hyalinis</i>	Translucent Straw Belle	3	Lowland calcareous grassland	Mixed woodland	Rare	Not known
<i>Eupithecia valerianata</i>	Valerian Pug	3	Lowland meadows		Believed extinct	
<i>Parascotia fuliginaria</i>	Waved Black	3	Broad-leaved mixed woodland	Lowland heathland	Rare	Not known
<i>Archanara sparganii</i>	Webb's Wainscot	1	Fens	Eutrophic standing waters	Occasional	Stable
<i>Schrankia taenialis</i>	White-line Snout	2	Broad-leaved mixed woodland	Lowland heathland	Common	Increasing
<i>Cosmia diffinis</i>	White-spotted Pinion	2	Ancient and/or spp rich hedgerows		Believed extinct	
<i>Cucullia absinthii</i>	Wormwood	3	Maritime cliffs & slopes		Rare	Not known
<i>Eupithecia millefoliata</i>	Yarrow Pug	3	Coastal sand dunes		Common	Increasing
<i>Synanthedon vespiformis</i>	Yellow-legged Clearwing	3	Broad-leaved mixed woodland		Rare	Stable

SEA ANEMONE GROUP

<i>Actinia fragacea</i>	Strawberry Beadlet Anemone	3	Littoral rock		Common	Not known
<i>Anthopleura balli</i>	Anemone	3	Littoral rock		Rare	Not known
<i>Aiptasia mutabilis</i>	Anemone	2	Inshore rock		Rare	Not known
<i>Aureliana heterocera</i>	Anemone	3	Inshore rock		Rare	Not known
<i>Isozoanthus sulcatus</i>	Anemone	3	Inshore rock	Inshore sediment	Rare	Not known
<i>Nematostella vectensis</i>	Starlet Sea Anemome	1	Saline lagoons		Scarce	Stable

SEA MATS

<i>Amathia pruvoti</i>	Bryozoan	3	Littoral rock		Rare	Not known
<i>Epistomia bursaria</i>	Bryozoan	3	Littoral rock		Not known	Not known
<i>Pentapora foliaceae</i>	Rose Coral	3	Inshore rock		Occasional	Not known

SPONGES

<i>Dercitus bucklandia</i>	A sponge	3	Inshore rock		Not known	Not known
<i>Stellata grubii</i>	A sponge	3	Inshore rock		Not known	Not known
<i>Stelligera stuposa</i>	A sponge	3	Inshore rock		Not known	Not known
<i>Suberites massa</i>	A sponge	3	Inshore sediment		Rare	Not known

SPIDER GROUP

<i>Aceria schmardai</i>	An eriophid mite	3	Lowland calcareous grasslands		Rare	Not known
<i>Argiope bruennichi</i>	Wasp Spider	3	Lowland meadows	Lowland dry acid grassland	Occasional	Stable
<i>Aulonia albimana</i>	A wolf spider	2	Lowland meadows		Rare	Not known
<i>Episinus maculipes</i>	A spider	2	Broad-leaved mixed woodland		Scarce	Not known
<i>Eriophyes ilicis</i>	An eriophid mite	3	Broad-leaved mixed woodland		Rare	Increasing
<i>Pardosa paludicola</i>	A wolf spider	2	Lowland meadows	Broad-leaved mixed woodland	Rare	Not known

TRUE BUGS

<i>Aphrodes aestuarinus</i>	A leafhopper	3	Saltmarsh		Rare	Not known
<i>Aphrophora alpina</i>	A froghopper	3	Lowland heathland	Broad-leaved mixed woodland	Rare	Not known
<i>Macrosteles fieberi</i>	A leafhopper	3	Saltmarsh	Fen, marsh and swamp	Rare	Not known
<i>Megalonotus dilatatus</i>	A ground bug	3	Broad-leaved mixed woodland	Lowland dry acid grassland	Rare	Not known
<i>Microvelia pygmaea</i>	A semi-aquatic bug	3	Eutrophic standing waters	Fen, marsh and swamp	Rare	Not known
<i>Oliarus leporinus</i>	A froghopper	3	Saltmarsh		Rare	Not known
<i>Paralimnus phragmitis</i>	A leafhopper	3	Saltmarsh	Fen, marsh and swamp	Rare	Not known
<i>Psammotettix albomarginatus</i>	A leafhopper	3	Lowland dry acid grassland		Rare	Not known
<i>Saldula arenicola</i>	A shorebug	3	Maritime cliffs & slopes		Scarce	Not known

Habitats in orange type are Priority Habitats in the UK Biodiversity Action Plan

Latin name	English name	BAP status	Primary habitat	Subsidiary habitat	Local abundance	Local population trend
<i>Sehirus dubius</i>	A shield bug	3	Lowland calcareous grassland		Rare	Not known
<i>Tettigometra impressopunctata</i>	A froghopper	3	Lowland calcareous grassland		Rare	Not known
<i>Trichohermes walkeri</i>	A jumping plant louse	3	Boundary and linear features		Rare	Not known
<i>Trigonotylus psammaecolor</i>	A mirid bug	3	Coastal sand dunes		Rare	Not known
<i>Tuponia carayoni</i>	A capsid bug	3	Coastal sand dunes		Scarce	Not known

TUNICATES

<i>Mogula oculata</i>	A tunicate	3	Inshore rock		Rare	Not known
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WORMS

<i>Alkmaria romijni</i>	A tentacled worm	2	Saline lagoons		Rare	Stable
<i>Maxmulleria lankesteri</i>	A spoon worm	3	Inshore sediment		Not known	Not known

ALGAE

<i>Gracilaria bursa pastoris</i>	Red alga	3	Littoral rock		Occasional	Not known
<i>Grateloupia filicina</i> var <i>luxurians</i>	Red alga	3	Littoral rock		Occasional	Not known
<i>Himanthalia elongata</i>	Thong weed	3	Littoral rock		Rare	Not known
<i>Laminaria ochroleuca</i>	Brown kelp	3	Inshore rock		Rare	Not known
<i>Lamprothamnium papulosum</i>	Foxtail Stonewort	1	Saline lagoons		Rare	Not known
<i>Padina pavonia</i>	Peacock's Tail	3	Littoral rock		Scarce	Not known
<i>Zanadina prototypus</i>	Brown alga	3	Inshore rock		Rare	Not known

FUNGI

<i>Amanita ovoidea</i>		3	Broad-leaved mixed woodland		Rare	Stable
<i>Amanita echinocephala</i>		3	Broad-leaved mixed woodland		Rare	Not known
<i>Boletus satanus</i>	Satan's Bolete	1	Broad-leaved mixed woodland	Coniferous woodland	Believed extinct	
<i>Cantharellus cinereus</i>		3	Broad-leaved mixed woodland	Coniferous woodland	Rare	Not known
<i>Collybia acervata</i>		3	Broad-leaved mixed woodland	Coniferous woodland	Rare	Not known
<i>Collybia proxima</i>		3	Broad-leaved mixed woodland	Coniferous woodland	Rare	Not known
<i>Cortinarius varius</i>		3	Broad-leaved mixed woodland	Coniferous woodland	Rare	Not known
<i>Cortinarius subtortus</i>		3	Broad-leaved mixed woodland	Coniferous woodland	Rare	Not known
<i>Cortinarius multiformis</i>		3	Broad-leaved mixed woodland	Coniferous woodland	Rare	Not known
<i>Cortinarius crassus</i>		3	Broad-leaved mixed woodland	Coniferous woodland	Rare	Not known
<i>Cortinarius violaceus</i>		3	Broad-leaved mixed woodland	Coniferous woodland	Rare	Not known
<i>Cortinarius balteocumatilis</i>		3	Broad-leaved mixed woodland		Rare	Not known
<i>Creolophus cirrhatus</i>		3	Broad-leaved mixed woodland	Coniferous woodland	Rare	Not known
<i>Entoloma nitidum</i>		3	Lowland dry acid grassland		Rare	Not known
<i>Hygrocybe calyptraeformis</i>	Pink Waxcap	3	Lowland meadows		Rare	Not known
<i>Lactarius mairei</i>		3	Broad-leaved mixed woodland	Coniferous woodland	Rare	Not known
<i>Lepiota ignivolvata</i>		3	Broad-leaved mixed woodland	Coniferous woodland	Rare	Not known
<i>Leucoagaricus badhamii</i>		3	Broad-leaved mixed woodland	Coniferous woodland	Rare	Not known
<i>Leucoagaricus marriagei</i>		3	Broad-leaved mixed woodland	Coniferous woodland	Rare	Not known
<i>Leucoagaricus georginae</i>		3	Broad-leaved mixed woodland	Coniferous woodland	Rare	Not known
<i>Limacella glioderma</i>		3	Broad-leaved mixed woodland	Coniferous woodland	Rare	Not known
<i>Melanophyllum eyrei</i>		3	Broad-leaved mixed woodland	Coniferous woodland	Rare	Not known
<i>Mycena seynii</i>		3	Broad-leaved mixed woodland	Coniferous woodland	Rare	Not known
<i>Pseudocraterellus sinosus</i>		3	Broad-leaved mixed woodland	Coniferous woodland	Rare	Not known
<i>Ramaria broomei</i>		3	Broad-leaved mixed woodland	Coniferous woodland	Rare	Not known
<i>Ramariopsis crocea</i>		3	Broad-leaved mixed woodland	Coniferous woodland	Rare	Not known
<i>Rozites caperatus</i>		3	Broad-leaved mixed woodland	Coniferous woodland	Rare	Not known
<i>Russula decipiens</i>		3	Broad-leaved mixed woodland	Coniferous woodland	Rare	Not known
<i>Russula azurea</i>		3	Broad-leaved mixed woodland	Coniferous woodland	Rare	Not known
<i>Russula lilacea</i>		3	Broad-leaved mixed woodland	Coniferous woodland	Rare	Not known
<i>Russula persicina</i>		3	Broad-leaved mixed woodland	Coniferous woodland	Rare	Not known
<i>Sparassis laminosa</i>		3	Broad-leaved mixed woodland	Coniferous woodland	Rare	Not known
<i>Suillus fluryi</i>		3	Broad-leaved mixed woodland		Rare	Not known
<i>Tricholoma pessundatum</i>		3	Broad-leaved mixed woodland	Coniferous woodland	Rare	Not known
<i>Tricholoma atosquamosum</i>		3	Broad-leaved mixed woodland	Coniferous woodland	Rare	Not known

Latin name	English name	BAP status	Primary habitat	Subsidiary habitat	Local abundance	Local population trend
<i>Xerocomus leonis</i>		3	Boundary and linear features	Broad mixed woodland	Rare	Not known
<i>Plectania melastoma</i>		3	Broad-leaved mixed woodland	Coniferous woodland	Rare	Not known
<i>Sowerbyella radiculata</i>		3	Broad-leaved mixed woodland		Rare	Not known

LICHENS

<i>Anaptychia runciata</i>	A lichen	3	Maritime cliffs & slopes		Rare	Decreasing
<i>Anaptychia ciliaris</i>	A lichen	3	Wood pasture & parkland	Ancient and/or spp rich hedgerows	Rare	Decreasing
<i>Bacidia incompta</i>	A lichen	2	Boundary and linear features		Believed extinct	
<i>Cryptolechia carneolutea</i>	A lichen	3	Broad-leaved mixed woodland		Rare	Decreasing
<i>Fulgensia fulgens</i>	"Scrambled-egg lichen"	2	Lowland calcareous grassland	Maritime cliffs & slopes	Scarce	Stable
<i>Lobaria pulmonaria</i>	"Lungwort"	3	Broad-leaved mixed woodland		Rare	Decreasing
<i>Physcia tribacioides</i>	Southern Grey Physcia	2	Boundary and linear features		Believed extinct	
<i>Rocella phycopsis</i>	A lichen	3	Built-up areas & gardens	Wood pasture & parkland	Scarce	Stable
<i>Usnea articulata</i>	A lichen	3	Broad-leaved mixed woodland	Ancient and/or spp rich hedgerows	Scarce	Decreasing
<i>Wadeana dendrographa</i>	A lichen	3	Broad-leaved mixed woodland		Rare	Stable

LIVERWORTS

<i>Anthoceros agrestis</i>		3	Lowland meadows	Arable & horticultural	Rare	Decreasing
<i>Blasia pusilla</i>		3	Maritime cliffs & slopes		Rare	Stable
<i>Cephalozia macrostachya</i>		3	Fens		Rare	Decreasing
<i>Cephaloziella baumgartneri</i>		3	Maritime cliffs & slopes		Rare	Stable
<i>Cephaloziella stellulifera</i>		3	Lowland dry acid grassland	Lowland calcareous grassland	Rare	Decreasing
<i>Cephaloziella hampeana</i>		3	Lowland heathland	Lowland meadows	Believed extinct	
<i>Cephaloziella turneri</i>		3	Lowland dry acid grassland	Lowland calcareous grassland	Rare	Not known
<i>Cladopodiella fluitans</i>		3	Fens		Believed extinct	
<i>Cololejeunea minutissima</i>		3	Broad-leaved mixed woodland		Common	Stable
<i>Cololejeunea rossettiana</i>		3	Maritime cliffs & slopes		Rare	Not known
<i>Lophocolea fragrans</i>		3	Broad-leaved mixed woodland		Rare	Stable
<i>Lophozia bicrenata</i>		3	Lowland heathland	Built-up areas and gardens	Believed extinct	
<i>Marchesina mackaïi</i>		3	Maritime cliffs & slopes	Broad-leaved mixed woodland	Believed extinct	
<i>Mylia anomala</i>		3	Fens	Lowland heathland	Rare	Decreasing
<i>Pallavicinia lyellii</i>	Veilwort	2	Fens	Wet woodland	Rare	Decreasing
<i>Phaeoceros laevis</i>		3	Maritime cliffs & slopes		Rare	Stable
<i>Porella obtusata</i>		3	Lowland calcareous grassland	Maritime cliffs & slopes	Rare	Not known
<i>Porella arboris-vitae</i>		3	Lowland calcareous grassland	Broad-leaved mixed woodland	Scarce	Decreasing
<i>Ptilidium pulcherrimum</i>		3	Broad-leaved mixed woodland	Wood pasture & parkland	Rare	Not known
<i>Reboulia hemisphaerica</i>		3	Maritime cliffs & slopes		Believed extinct	
<i>Riccardia latifrons</i>		3	Fen, marsh and swamp		Rare	Not known
<i>Riccia fluitans</i>		3	Eutrophic standing waters		Rare	Decreasing
<i>Riccia glauca</i>		3	Arable & horticultural		Scarce	Decreasing
<i>Riccia sorocarpa</i>		3	Arable & horticultural		Scarce	
<i>Scapania undulata</i>		3	Broad-leaved mixed woodland		Rare	Not known
<i>Scapania nemorea</i>		3	Broad-leaved mixed woodland	Lowland heathland	Rare	Not known
<i>Scapania aspersa</i>		3	Lowland calcareous grassland	Maritime cliffs & slopes	Believed extinct	
<i>Southbya nigrella</i>	Blackwort	2	Maritime cliffs & slopes		Rare	Not known

MOSESSES

<i>Acaulon triquetrum</i>	Triangular Pygmy Moss	2	Lowland calcareous grasslands	Maritime cliffs & slopes	Believed extinct	
<i>Bryum bornholmense</i>		3	Maritime cliffs & slopes		Rare	Not known
<i>Bryum torquescens</i>		3	Lowland calcareous grassland	Boundary and linear features	Rare	Decreasing
<i>Bryum canariense</i>		3	Maritime cliffs & slopes		Rare	Not known
<i>Bryum ruderale</i>		3	Arable & horticultural	Boundary and linear features	Rare	Not known
<i>Bryum intermedia</i>		3	Maritime cliffs & slopes	Built-up areas and gardens	Rare	Not known
<i>Bryum dunense</i>		3	Built-up areas & gardens		Rare	Decreasing
<i>Campylopus pyriformis v azorica</i>		3	Fen, marsh and swamp		Scarce	Not known
<i>Chenia rhizophylla</i>		3	Arable & horticultural		Rare	Not known
<i>Cinclidotus fontinaloides</i>		3	Rivers & streams		Rare	Stable
<i>Conardia compactum</i>		3	Inland rock		Believed extinct	
<i>Drepanocladus aduncus</i>		3	Eutrophic standing waters		Rare	Not known
<i>Ephemerum serratum v. minutissimum</i>		3	Arable & horticultural	Broad-leaved mixed woodland	Rare	Not known

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Latin name	English name	BAP status	Primary habitat	Subsidiary habitat	Local abundance	Local population trend
<i>Eurhynchium schleicheri</i>		3	Broad-leaved mixed woodland	Boundary and linear features	Believed extinct	
<i>Hertzogiella seligeri</i>		3	Broad-leaved mixed woodland		Rare	Not known
<i>Hylocomium splendens</i>		3	Lowland heathland	Maritime cliffs & slopes	Rare	Decreasing
<i>Hypnum lindbergii</i>		3	Broad-leaved mixed woodland		Rare	Not known
<i>Leptobarbula berica</i>		3	Built-up areas & gardens		Scarce	Not known
<i>Leptodon smithii</i>		3	Built-up areas & gardens		Common	Decreasing
<i>Leptodontium gammadens</i>		3	Built-up areas & gardens		Believed extinct	
<i>Leucodon sciuroides</i>		3	Broad-leaved mixed woodland	Inland rock	Rare	Decreasing
<i>Microbryum rectum</i>		3	Lowland calcareous grassland		Scarce	Not known
<i>Microbryum davillianum</i>		3	Arable & horticultural		Rare	Decreasing
<i>Microbryum floerkeanum</i>		3	Lowland calcareous grassland	Arable & horticultural	Scarce	Not known
<i>Microbryum curvicolle</i>		3	Lowland calcareous grassland		Scarce	Decreasing
<i>Mnium stellare</i>		3	Maritime cliffs & slopes		Rare	Stable
<i>Orthotrichum tenellum</i>		3	Broad-leaved mixed woodland		Rare	Not known
<i>Orthotrichum striatum</i>		3	Broad-leaved mixed woodland		Rare	Not known
<i>Philonotis marchica</i>		2	Maritime cliffs & slopes		Rare	Stable
<i>Plagiothecium ruthei</i>		3	Fen, marsh and swamp	Wet woodland	Rare	Decreasing
<i>Pleurozium schreberi</i>		3	Lowland heathland		Rare	Decreasing
<i>Pohlia lutescens</i>		3	Boundary and linear features	Rivers & streams	Rare	Not known
<i>Pohlia campotrachel</i>		3	Fens		Rare	Not known
<i>Pohlia lescuriana</i>		3	Broad-leaved mixed woodland		Rare	Not known
<i>Pterogonium gracile</i>		3	Broad-leaved mixed woodland	Inland rock	Rare	Not known
<i>Rhynchostegiella curviseta</i>		3	Rivers & streams		Scarce	Not known
<i>Scorpiurium circinatum</i>		3	Inland rock		Common	Stable
<i>Seligeria calcarea</i>		3	Lowland calcareous grassland		Scarce	Not known
<i>Syntrichia latifolia</i>		3	Built-up areas & gardens		Rare	Not known
<i>Syntrichia papillosa</i>		3	Built-up areas & gardens		Rare	Not known
<i>Tortula viridifolia</i>		3	Maritime cliffs & slopes		Rare	Decreasing
<i>Trichostomopsis umbrosa</i>		3	Built-up areas & gardens		Rare	Decreasing
<i>Zygodon viridissimus v stirtonii</i>		3	Inland rock		Rare	Not known

F E R N S

<i>Equisetum sylvaticum</i>	Wood Horsetail	3	Wet woodland	Fen, marsh and swamp	Rare	Not known
<i>Osmunda regalis</i>	Royal Fern	3	Lowland heathland	Maritime cliffs & slopes	Rare	Decreasing
<i>Adiantum capillus-veneris</i>	Maidenhair Fern	3	Built-up areas & gardens		Rare	Not known
<i>Dryopteris carthusiana</i>	Narrow Buckler-fern	3	Wet woodland		Scarce	Not known
<i>Asplenium marinum</i>	Sea Spleenwort	3	Maritime cliffs & slopes		Rare	Stable
<i>Thelypteris palustris</i>	Marsh Fern	3	Fen, marsh and swamp	Wet woodland	Rare	Decreasing
<i>Oreopteris limbosperma</i>	Lemon-scented Fern	3	Lowland meadows	Wet woodland	Rare	Not known

F L O W E R I N G P L A N T S

<i>Juniperus communis</i>	Juniper	3	Lowland calcareous grassland		Rare	Not known
<i>Nuphar lutea*</i>	Yellow Water-lily	3	Eutrophic standing waters		Rare	Not known
<i>Helleborus viridis</i>	Green Hellebore	3	Broad-leaved mixed woodland		Rare	Decreasing
<i>Ranunculus arvensis</i>	Corn Buttercup	2	Arable & horticultural		Rare	Decreasing
<i>Ranunculus trichophyllus</i>	Thread-leaved Water-crowfoot	3	Eutrophic standing waters		Rare	Not known
<i>Ranunculus lingua</i>	Greater Spearwort	3	Fens	Reedbeds	Rare	Decreasing
<i>Papaver hybridum</i>	Rough Poppy	3	Arable & horticultural		Rare	Not known
<i>Papaver argemone</i>	Prickly Poppy	3	Arable & horticultural		Rare	Not known
<i>Fumaria bastardii</i>	Tall Ramping-fumitory	3	Arable & horticultural		Rare	Not known
<i>Fumaria vaillantii</i>	Few-flowered Fumitory	3	Arable & horticultural		Rare	Not known
<i>Fumaria purpurea</i>	Purple Ramping-fumitory	2	Arable & horticultural		Rare	Not known
<i>Fumaria reuteri</i>	Martin's Ramping-fumitory	2	Arable & horticultural		Rare	Stable
<i>Myrica gale</i>	Bog Myrtle	3	Rivers & streams		Rare	Decreasing
<i>Chenopodium urbicum</i>	Upright Goosefoot	3	Arable & horticultural		Scarce	Not known
<i>Salicornia pusilla</i>	One-flowered Glasswort	3	Saltmarsh		Scarce	Not known
<i>Chenopodium glaucum</i>	Oak-leaved Goosefoot	3	Arable & horticultural		Scarce	Not known

Latin name	English name	BAP status	Primary habitat	Subsidiary habitat	Local abundance	Local population trend
<i>Salsola kali</i>	Prickly Saltwort	3	Coastal vegetated shingle		Rare	Not known
<i>Sarcocornia perennis</i>	Perennial Glasswort	3	Saltmarsh		Common	Stable
<i>Silene nutans</i>	Nottingham Catchfly	3	Maritime cliffs & slopes		Rare	Stable
<i>Cerastium pumilum</i>	Dwarf Mouse-ear	3	Lowland calcareous grassland		Occasional	Not known
<i>Silene noctiflora</i>	Night-flowered Catchfly	3	Arable & horticultural		Rare	Decreasing
<i>Silene gallica</i>	Small-flowered Catchfly	2	Arable & horticultural		Rare	Decreasing
<i>Dianthus deltoides</i>	Maiden Pink	3	Coastal sand dunes		Rare	Not known
<i>Moenchia erecta</i>	Upright Chickweed	3	Coastal sand dunes	Lowland dry acid grassland	Rare	Decreasing
<i>Silene uniflora</i>	Sea Campion	3	Maritime cliffs & slopes	Coastal sand dunes	Scarce	Stable
<i>Stellaria neglecta</i>	Greater Chickweed	3	Boundary and linear features	Broad-leaved mixed woodland	Scarce	Not known
<i>Scleranthus annuus</i>	Annual Knawel	3	Lowland dry acid grassland	Arable & horticultural	Rare	Decreasing
<i>Sagina subulata</i>	Heath Pearlwort	3	Lowland heathland		Rare	Stable
<i>Polygonum maritimum</i>	Sea Knotgrass	2	Coastal vegetated shingle		Rare	Not known
<i>Rumex hydrolapathum</i>	Water Dock	3	Eutrophic standing waters	Fen, marsh and swamp	Scarce	Not known
<i>Fallopia dumetorum</i>	Copse Bindweed	3	Broad-leaved mixed woodland		Believed extinct	
<i>Polygonum oxyspermum</i>	Ray's Knotgrass	3	Coastal vegetated shingle		Rare	Not known
<i>Limonium humile</i>	Lax-flowered Sea Lavender	3	Saltmarsh		Scarce	Not known
<i>Tilia cordata</i>	Small-leaved Lime	3	Broad-leaved mixed woodland		Rare	Stable
<i>Althaea officinalis</i>	Marsh Mallow	3	Saltmarsh		Occasional	Stable
<i>Drosera rotundifolia</i>	Common Sundew	3	Fens		Rare	Decreasing
<i>Viola palustris</i>	Marsh Violet	3	Fen, marsh and swamp	Wet woodland	Scarce	Decreasing
<i>Viola canina</i>	Heath Dog Violet	3	Lowland dry acid grassland		Rare	Not known
<i>Viola lactea</i>	Pale Dog Violet	3	Lowland dry acid grassland		Rare	Not known
<i>Frankenia laevis</i>	Sea-heath	3	Saltmarsh	Coastal vegetated shingle	Rare	Not known
<i>Populus nigra ssp betulifolia</i>	Black Poplar (native)	3	Maritime cliffs & slopes		Rare	Decreasing
<i>Salix repens</i>	Creeping Willow	3	Fen, marsh and swamp	Maritime cliffs & slopes	Rare	Decreasing
<i>Crambe maritima</i>	Sea Kale	3	Coastal vegetated shingle		Scarce	Not known
<i>Lepidium rudemale</i>	Narrow-leaved Pepperwort	3	Built-up areas & gardens		Rare	Not known
<i>Arabis hirsuta</i>	Hairy Rockcress	3	Lowland calcareous grassland		Rare	Not known
<i>Lepidium heterophyllum*</i>	Smith's Pepperwort	3	Built-up areas & gardens		Rare	Not known
<i>Rorippa sylvestris</i>	Creeping Yellowcress	3	Arable & horticultural		Rare	Not known
<i>Brassica oleracea</i>	Wild Cabbage	3	Lowland calcareous grassland	Maritime cliffs & slopes	Rare	Not known
<i>Barbarea verna *</i>	American Wintercress	3	Built-up areas & gardens	Boundary and linear features	Rare	Not known
<i>Cochearia officinalis</i>	Common Scurvy-grass	3	Maritime cliffs & slopes		Rare	Stable
<i>Lobularia maritima*</i>	Sweet Alison	3	Maritime cliffs & slopes		Rare	Stable
<i>Impatiens capensis*</i>	Orange Balsam	3	Maritime cliffs & slopes		Rare	Not known
<i>Oenanthe fistulosa</i>	Tubular Water Dropwort	3	Grazing marsh	Rivers & streams	Rare	Not known
<i>Anthriscus caucalis</i>	Bur Chervil	3	Coastal sand dunes		Rare	Increasing
<i>Oenanthe silaifolia</i>	Narrow-leaved Water Dropwort	3	Lowland meadows		Believed extinct	
<i>Bupleurum tenuissimum</i>	Slender Hare's-ear	3	Saltmarsh		Scarce	Not known
<i>Eryngium maritimum</i>	Sea Holly	3	Coastal sand dunes		Rare	Decreasing
<i>Berula erecta</i>	Lesser Water-parsnip	3	Fens	Maritime cliffs & slopes	Rare	Not known
<i>Torilis arvensis</i>	Spreading Hedge Parsley	3	Arable & horticultural		Rare	Not known
<i>Scandix pecten-veneris</i>	Shepherd's Needle	2	Arable & horticultural		Believed extinct	
<i>Centaureum tenuiflorum</i>	Slender Centaury	2	Maritime cliffs & slopes		Believed extinct	
<i>Gentianella anglica</i>	Early Gentian	1	Lowland calcareous grassland		Occasional	Stable
<i>Hyoscyamus niger</i>	Henbane	3	Coastal sand dunes	Coastal vegetated shingle	Rare	Not known
<i>Atropa belladonna</i>	Deadly Nightshade	3	Broad-leaved mixed woodland		Rare	Not known
<i>Calystegia soldanella</i>	Sea Bindweed	3	Coastal sand dunes		Rare	Increasing
<i>Menyanthes trifoliata</i>	Bogbean	3	Fens	Fen, marsh and swamp	Scarce	Decreasing
<i>Pulmonaria longifolia</i>	Narrow-leaved Lungwort	3	Broad-leaved mixed woodland		Scarce	Not known
<i>Myosotis secunda</i>	Creeping Forget-me-not	3	Rivers & streams		Rare	Not known
<i>Marrubium vulgare</i>	White Horehound	3	Maritime cliffs & slopes		Rare	Stable
<i>Thymus pulegioides</i>	Large Thyme	3	Lowland heathland		Believed extinct	
<i>Galeopsis angustifolia</i>	Red Hemp-nettle	2	Arable & horticultural		Believed extinct	
<i>Clinopodium acinos</i>	Basil Thyme	3	Lowland calcareous grassland		Rare	Not known
<i>Clinopodium menthifolium</i>	Wood Calamint	2	Broad-leaved mixed woodland		Rare	Stable

Habitats in orange type are Priority Habitats in the UK Biodiversity Action Plan

Latin name	English name	BAP status	Primary habitat	Subsidiary habitat	Local abundance	Local population trend
<i>Hippuris vulgaris</i>	Marestail	3	Eutrophic standing waters		Rare	Decreasing
<i>Callitriche obtusangula</i>	Blunt-fruited Water Starwort	3	Eutrophic standing waters		Scarce	Not known
<i>Callitriche platycarpa</i>	Various-leaved Water Starwort	3	Eutrophic standing waters		Scarce	Not known
<i>Callitriche hamulata</i>	Intermediate Water Starwort	3	Eutrophic standing waters		Scarce	Not known
<i>Misopates orontium</i>	Lesser Snapdragon	3	Arable & horticultural		Scarce	Decreasing
<i>Parentucellia viscosa</i>	Yellow Bartsia	3	Lowland meadows	Maritime cliffs & slopes	Rare	Decreasing
<i>Veronica agrestis</i>	Green Field Speedwell	3	Arable & horticultural		Rare	Not known
<i>Verbascum nigrum</i>	Dark Mullein	3	Boundary and linear features		Rare	Not known
<i>Pedicularis sylvatica</i>	Lousewort	3	Lowland meadows	Fen, marsh and swamp	Scarce	Not known
<i>Melampyrum arvense</i>	Field Cow-wheat	2	Lowland calcareous grassland	Arable & horticultural	Rare	Stable
<i>Veronica scutellata</i>	Marsh Speedwell	3	Fens		Believed extinct	
<i>Orobanche purpurea</i>	Yarrow Broomrape	3	Lowland dry acid grassland	Lowland calcareous grassland	Scarce	Not known
<i>Orobanche artemisiae-campestris</i>	Oxtongue Broomrape	2	Maritime cliffs & slopes		Rare	Not known
<i>Orobanche hederæ</i>	Ivy Broomrape	3	Broad-leaved mixed woodland	Maritime cliffs & slopes	Common	Increasing
<i>Orobanche rapum-genistæ</i>	Greater Broomrape	2	Lowland dry acid grassland		Rare	Not known
<i>Utricularia australis</i>	A Bladderwort	3	Eutrophic standing waters		Believed extinct	
<i>Pinguicula lusitanica</i>	Pale Butterwort	3	Fens		Rare	Not known
<i>Jasione montana</i>	Sheepsbit Scabious	3	Maritime cliffs & slopes	Lowland dry acid grassland	Rare	Not known
<i>Sambucus ebulus</i>	Dwarf Elder	3	Boundary and linear features		Rare	Not known
<i>Valerianella eriocarpa</i>	Hairy-fruited Cornsalad	3	Maritime cliffs & slopes		Rare	Not known
<i>Valerianella rimosa</i>	Broad-fruited Corn Salad	2	Arable & horticultural		Rare	Decreasing
<i>Valerianella dentata</i>	Narrow-fruited Corn Salad	2	Arable & horticultural		Rare	Not known
<i>Valeriana dioica</i>	Marsh Valerian	3	Fen, marsh and swamp	Lowland meadows	Rare	Not known
<i>Senecio viscosus</i>	Sticky Groundsel	3	Built-up areas & gardens		Rare	Not known
<i>Cirsium dissectum</i>	Meadow Thistle	3	Lowland meadows	Fens	Rare	Decreasing
<i>Chamaemelum nobile</i>	Chamomile	2	Lowland dry acid grassland		Rare	Stable
<i>Pilosella peleteriana</i>	A Hawkweed	3	Maritime cliffs & slopes		Rare	Not known
<i>Lactuca virosa</i>	Great Lettuce	3	Coastal vegetated shingle	Built-up areas and gardens	Rare	Not known
<i>Tephrosieris integrifolia</i>	Field Fleawort	3	Lowland calcareous grassland		Believed extinct	
<i>Artemisia absinthium</i>	Wormwood	3	Maritime cliffs & slopes		Rare	Not known
<i>Achillea ptarmica</i>	Sneezewort	3	Lowland dry acid grassland	Lowland meadows	Scarce	Decreasing
<i>Erigeron acer</i>	Blue Fleabane	3	Lowland calcareous grassland	Lowland dry acid grassland	Rare	Decreasing
<i>Anthemis arvensis</i>	Corn Chamomile	3	Arable & horticultural		Rare	Not known
<i>Hypochaeris glabra</i>	Smooth Catsear	2	Coastal sand dunes		Rare	Not known
<i>Filago pyramidata</i>	Broad-leaved Cudweed	2	Arable & horticultural		Believed extinct	
<i>Filago vulgaris</i>	Common Cudweed	3	Arable & horticultural	Lowland heathland	Rare	Not known
<i>Inula crithmoides</i>	Golden Samphire	3	Saltmarsh	Coastal vegetated shingle	Scarce	Not known
<i>Seriphidium maritimum</i>	Sea Wormwood	3	Saltmarsh		Rare	Not known
<i>Centaurea cyanus</i>	Cornflower	2	Arable & horticultural		Rare	Not known
<i>Filago minima</i>	Small Cudweed	3	Lowland heathland	Lowland dry acid grassland	Rare	Increasing
<i>Silybum marianum</i>	Milk Thistle	3	Arable & horticultural	Lowland calcareous grassland	Rare	Not known
<i>Butomus umbellatus*</i>	Flowering Rush	3	Fen, marsh and swamp		Rare	Decreasing
<i>Baldellia ranunculoides</i>	Lesser Water-plantain	3	Fen, marsh and swamp		Rare	Not known
<i>Stratiotes aloides</i>	Water Soldier	3	Eutrophic standing waters		Rare	Decreasing
<i>Triglochin palustre</i>	Marsh Arrowgrass	3	Lowland meadows	Fen, marsh and swamp	Scarce	Decreasing
<i>Groenlandia densa</i>	Opposite-leaved Pondweed	3	Rivers & streams	Chalk rivers	Rare	Not known
<i>Potamogeton polygonifolius</i>	Bog Pondweed	3	Eutrophic standing waters	Fen, marsh and swamp	Scarce	Not known
<i>Ruppia cirrhosa</i>	Spiral Tasselweed	3	Saline lagoons		Rare	Not known
<i>Zostera noltii</i>	Dwarf Eel-grass	3	Seagrass beds		Occasional	Not known
<i>Zostera angustifolia</i>	Narrow-leaved Eel-grass	3	Seagrass beds		Occasional	Not known
<i>Zostera marina</i>	Eel-grass	3	Seagrass beds		Occasional	Not known
<i>Arum italicum ssp. neglectum</i>	Italian Lords and Ladies	3	Broad-leaved mixed woodland		Occasional	Stable

1 = National BAP Priority Species 2 = National BAP Long List Species 3 = Isle of Wight BAP Species

Latin name	English name	BAP status	Primary habitat	Subsidiary habitat	Local abundance	Local population trend
<i>Lemna gibba</i>	Fat Duckweed	3	Eutrophic standing waters		Rare	Decreasing
<i>Spirodela polyrhiza</i>	Greater Duckweed	3	Eutrophic standing waters		Rare	Decreasing
<i>Juncus subnodulosus</i>	Blunt-flowered Rush	3	Fens	Maritime cliffs & slopes	Rare	Not known
<i>Juncus squarrosus</i>	Heath Rush	3	Lowland heathland	Fen, marsh and swamp	Rare	Decreasing
<i>Eleogiton fluitans</i>	Floating Club-rush	3	Eutrophic standing waters		Believed extinct	
<i>Carex divisa</i>	Divided Sedge	3	Saltmarsh		Occasional	Not known
<i>Isolepis cernua</i>	Slender Club-rush	3	Maritime cliffs & slopes	Fen, marsh and swamp	Rare	Not known
<i>Carex curta</i>	White Sedge	3	Fens		Rare	Decreasing
<i>Carex pseudocyperus</i>	Cyperus sedge	3	Fens	Reedbeds	Rare	Not known
<i>Eleocharis multicaulis</i>	Many-stalked Spike-rush	3	Lowland heathland		Rare	Not known
<i>Carex panicea</i>	Carnation Sedge	3	Lowland meadows	Fens	Scarce	Decreasing
<i>Eleocharis uniglumis</i>	Slender Spike-rush	3	Fen, marsh and swamp	Eutrophic standing waters	Rare	Not known
<i>Carex extensa</i>	Long-bracted Sedge	3	Saltmarsh		Scarce	Not known
<i>Eriophorum angustifolium</i>	Common Cottongrass	3	Fens		Rare	Decreasing
<i>Cyperus longus</i>	Galingale	3	Fen, marsh and swamp	Eutrophic standing waters	Rare	Decreasing
<i>Trichophorum cespitosum</i>	Deergrass	3	Lowland heathland	Fen, marsh and swamp	Rare	Not known
<i>Briza minor</i>	Lesser Quaking-grass	3	Arable & horticultural		Rare	Not known
<i>Festuca filiformis</i>	Fine-leaved Sheep's Fescue	3	Lowland heathland	Lowland dry acid grassland	Rare	Not known
<i>Alopecurus bulbosus</i>	Bulbous Foxtail	3	Grazing marsh		Scarce	Not known
<i>Puccinellia distans</i>	Reflexed Saltmarsh-grass	3	Saltmarsh		Rare	Not known
<i>Gastridium ventricosum</i>	Nit-grass	3	Lowland calcareous grassland	Maritime cliffs & slopes	Rare	Not known
<i>Anisantha diandra*</i>	Great Brome	3	Coastal sand dunes		Rare	Not known
<i>Glyceria maxima</i>	Reed Sweet-grass	3	Eutrophic standing waters		Rare	Not known
<i>Poa infirma</i>	Early Meadow-grass	3	Maritime cliffs & slopes	Built-up areas and gardens	Scarce	Increasing
<i>Spartina maritima</i>	Small Cord-grass	3	Saltmarsh		Rare	Stable
<i>Poa bulbosa</i>	Bulbous Meadow-grass	3	Coastal sand dunes	Maritime cliffs & slopes	Scarce	Increasing
<i>Spartina x townsendii</i>	Townsend's Cord-grass	3	Saltmarsh		Rare	Not known
<i>Parapholis incurva</i>	Curved Hard-grass	3	Saltmarsh	Maritime cliffs & slopes	Scarce	Not known
<i>Vulpia fasciculata</i>	Dune Fescue	3	Coastal sand dunes		Rare	Increasing
<i>Vulpia ciliata ssp. ambigua</i>	Bearded Fescue	3	Coastal sand dunes		Rare	Increasing
<i>Phleum arenarium</i>	Sand Cat's-tail	3	Coastal sand dunes		Rare	Not known
<i>Nardus stricta</i>	Mat-grass	3	Lowland dry acid grassland	Purple moorgrass & rush pasture	Rare	Not known
<i>Elytrigia juncea</i>	Sand Couch	3	Coastal sand dunes		Rare	Not known
<i>Puccinellia rupestris</i>	Stiff Saltmarsh-grass	3	Saltmarsh		Rare	Not known
<i>Narthecium ossifragum</i>	Bog Asphodel	3	Fens		Rare	Decreasing
<i>Scilla autumnalis</i>	Autumn Squill	3	Coastal Sand Dunes		Rare	Stable
<i>Allium oleraceum</i>	Field Garlic	3	Lowland calcareous grassland		Rare	Not known
<i>Crocus vernus*</i>	Spring Crocus	3	Lowland meadows		Rare	Decreasing
<i>Ophrys sphegodes</i>	Early Spider Orchid	2	Lowland calcareous grassland		Rare	Decreasing
<i>Cephalanthera damasonium</i>	White Helleborine	3	Broad-leaved mixed woodland		Rare	Increasing
<i>Gymnadenia conopsea ssp. densiflora</i>	Marsh Fragrant Orchid	3	Maritime cliffs & slopes	Fen, marsh and swamp	Rare	Decreasing
<i>Orchis ustulata</i>	Burnt Orchid	2	Lowland calcareous grassland		Believed extinct	
<i>Coeloglossum viride</i>	Frog Orchid	3	Lowland calcareous grassland		Rare	Decreasing
<i>Aceras anthropophorum</i>	Man Orchid	3	Lowland calcareous grassland		Believed extinct	
<i>Ophrys insectifera</i>	Fly Orchid	3	Mosaic		Rare	Decreasing
<i>Gymnadenia conopsea ssp. conopsea</i>	Fragrant Orchid	3	Lowland calcareous grassland		Rare	Not known
<i>Epipactis palustris</i>	Marsh Helleborine	3	Lowland heathland	Maritime cliffs & slopes	Rare	Decreasing

Habitats in orange type are Priority Habitats in the UK Biodiversity Action Plan

THE WAY FORWARD : PROGRESSING THE BIODIVERSITY ACTION PLAN

This audit highlights the important contribution which the Isle of Wight makes to the biodiversity of South East England and to the UK. The Island retains an extraordinary richness despite its small size. Large areas of the coastline and offshore habitats are identified as being of international importance, and there are nationally significant extents of soft cliff and chalk grassland habitat. These and other habitats provide home for many species of national conservation concern. Additionally, there are many habitats and species of local importance.

Despite its richness, there are many threats facing the biodiversity of the Island, and it would be folly to be complacent. There are, for instance, at least 72 species which are considered to have become extinct locally within the last fifty years and many more species which are in decline. Most of these losses can be attributed to habitat change or loss. If these losses are not to continue we must reverse the trends. What is required is more than just protecting what is there; we must look towards restoring and re-creating habitats.

The audit and assessment is a significant milestone in the Biodiversity Action Plan process. It is important because it should provide an objective, factual and non-controversial basis from which to consider priorities and the development of local habitat and species action plans. It is hoped that it will promote involvement and enthuse the wider BAP partnership. The next important and difficult stage is to set local targets. These need to be realistic and measurable, so that the success of the BAP process can be assessed over the short, medium and long term. The ultimate success of the biodiversity process depends upon everyone's support in order to halt the decline in loss of habitats and species.

At least 72 species are known to have become extinct on the Island in the last 50 years

The Greater Horseshoe Bat has declined from two large breeding colonies to a single individual in the last 100 years

G L O S S A R Y O F A B B R E V I A T I O N S A N D T E R M S

<i>Agenda 21</i>	Environmental action plan for the next century, endorsed at the Earth Summit.
<i>Arachnids</i>	A group of invertebrates including spiders and mites.
<i>BAP (Biodiversity Action Plan)</i>	The UK Government's plan for the protection and sustainable use of biodiversity, published in 1994. It represents a commitment to joint action nationwide through the securing and better use of resources. It provides the framework for the delivery of biodiversity locally through Local Biodiversity Action Plans.
<i>Biodiversity</i>	The variety of life on Earth or any given part of it.
<i>Bryophyte</i>	A major group of plants comprising mosses and liverworts.
<i>Bryozoan</i>	A group of mainly marine colonial animals including sea mats and moss-animals.
<i>Carr</i>	Woodland developed in waterlogged conditions generally dominated by willows and alder.
<i>cSAC (Candidate Special Area of Conservation)</i>	A site proposed by the UK Government under EC Directive 92/43 on the conservation of natural habitats and of wild fauna and flora
<i>Cetaceans</i>	Large mammals such as dolphins, porpoises and whales which live in the sea.
<i>Cnidarians</i>	Soft-bodied, flower-like aquatic creatures including sea anemones and jellyfish.
<i>Coleoptera</i>	A large group of insects comprising beetles.
<i>Diplopoda</i>	A group of invertebrates comprising millipedes.
<i>Diptera</i>	A large group of insects comprising the true flies.
<i>EC Directive</i>	A European Community legal instrument, binding on all Member States but leaving the methods of implementation to national Governments, and which must, therefore, generally be transposed into national legislation.
<i>GIS (Geographic Information System)</i>	A computer-based system used for mapping and analysis of sites and habitats.
<i>HAP (Habitat Action Plan)</i>	A document which describes the current status of a priority habitat, sets 10-15 year targets and objectives for its management, restoration and/or creation, and proposes the actions necessary to achieve them.
<i>Habitat</i>	A place in which a particular plant or animal lives. Often used in a wider sense, referring to major assemblages of plants and animals found together.
<i>Habitats Directive</i>	This requires Member States to take measures to maintain or restore natural habitats and wild species at a favourable conservation status in the Community, giving effect to both site and species conservation objectives.
<i>Habitat Regulations</i>	The Conservation (Natural Habitats etc.) Regulations 1994 make provision for the purposes of implementing the Habitats Directive.
<i>Hymenoptera</i>	A group of insects comprising ants, bees and wasps.
<i>Lepidoptera</i>	A group of insects comprising butterflies and moths.
<i>LNR (Local Nature Reserve)</i>	An area of land that is of species nature conservation interest locally. LNRs are declared and managed by local authorities under the National Parks and Access to the Countryside Act 1949.

<i>MG5</i>	A type of vegetation community characteristic of unimproved neutral grasslands.
<i>NNR (National Nature Reserve)</i>	An area of high nature conservation value, managed to provide opportunities for research or to preserve animals or plants and geological or physiographical features of special interest. NNRs are declared by English Nature under the National Parks and Access to the Countryside Act 1949 or the Wildlife and Countryside Act 1981.
<i>Polychaetes</i>	A group of segmented worms with bristles.
<i>Priority Habitat</i>	A habitat category targeted for action through a UK Habitat Action Plan. There are currently 47 priority habitats.
<i>Ramsar site</i>	A site designated as a wetland of international importance under the Ramsar Convention of Wetlands of International Importance, especially as waterfowl habitat.
<i>SAP (Species Action Plan)</i>	A 10 -15 year conservation plan for a species based upon knowledge of its ecological and other requirements, which identifies the actions needed to stabilise and improve its status.
<i>Saproxyllic</i>	Communities of insects and other invertebrates dependent upon dead and decaying wood.
<i>SINC (Site of Importance for Nature Conservation)</i>	A non-statutory wildlife site, but recognised by Planning Authorities in Unitary Development Plans.
<i>SPA (Special Protection Area)</i>	A site designated under Article 4 of EC Directive 79/409 on the conservation of wild birds. Together SACs and SPAs form a network of European sites known as Natura 2000.
<i>SSSI (Site of Special Scientific Interest)</i>	An area of land notified under the Wildlife & Countryside Act 1981 as being of special nature conservation interests, as notified by English Nature.
<i>Tunicates</i>	Soft bodied marine creatures, generally referred to as sea squirts.
<i>W25</i>	A vegetation community dominated by bracken with brambles together with a field layer of bluebells.

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