THE COMMON LANDS OF HAMPSHIRE AND THE ISLE OF WIGHT A BIOLOGICAL SURVEY

1. Introduction

This report presents the results of a biological survey of registered common lands in the county of Hampshire with the Isle of White. It is one of a set of county reports that have been compiled over a twelve-year period by the Rural Surveys Research Unit (University of Wales, Aberystwyth), and forms part of a wider study and inventory of commons in England and Wales.

The central objective of the national survey of commons has been to draw together an array of biological data from a variety of sources, including Phase 1 mapping of vegetation and habitat types. Such data are potentially of value not only to those with a specialist concern for the identification and conservation of biodiversity, but also to those with a broader interest in the use and effective management of commons policy makers, stakeholders and other parties. While the databases produced as a result of the national survey focus on biological attributes (flora, fauna and habitats), they also include reference to the location and extent of commons, the nature of rights of common (if any) and details concerning of ownership. Also recorded is the association of commons with various protected area networks (e.g. national parks, SSSIs). Where available, and mainly through field observations, information has been gathered on the use and management of individual commons, including reference to particular problems that appear to exist (e.g. over- or under-grazing, encroachment). These various facets of the survey, and the precise nature of the data that have been collated, are considered in detail.

While the national survey of commons is relatively broad in compass, its main aim, as noted above, is to determine the biological characteristics of common land and to assess the value of these highly distinctive areas in terms of their contribution to the conservation of biodiversity. Before considering the situation as it applies in the Hampshire/Isle of Wight, however, it is appropriate to provide a general introduction, focusing briefly on the common land debate, as it has evolved over the years, but

with a particular emphasis on the conservation interest in such areas and on broader policy issues.

2. Background: Reports, Legislation and Policies

In presenting evidence to the Royal Commission on Common Land in 1956, the Nature Conservancy (as it then was) stressed that in many regions of England and Wales commons were "wildlife sanctuaries", "reservoirs for species", and "disproportionately rich in examples of plant and animal communities which have largely been eliminated from surrounding localities". The Royal Commission itself noted that, protected by statutes from many of the pressures that had so markedly impacted upon the countryside at large, commons were often "islands of semi-natural vegetation" and "refuges" for rare and interesting wildlife.

Given the significance of common land as a national resource, the Scott Report of 1942, in considering the "well-being of rural communities and the preservation of rural amenities", called for steps to be taken "to record details of common lands, to safeguard any rights of public rights of access or use, and otherwise to ascertain the position of commoners" (Cmnd 6378, 1942, p59). It was not until 1955, however, with the setting up of a Royal Commission on Common Land, that these matters were pursued further. Following a detailed and broadly-based investigation, the Royal Commission reported in 1958 and made a host of recommendations concerning the protection and management of "these last uncommitted reserves of land". The then Government did not respond to the Commission's main recommendations, but local authorities were subsequently charged with compiling and maintaining registers of land, ownership and rights of common (Commons Registration Act, 1965). The 1965 Act applies to those tracts of land subject to rights of common, together with wastes of manors not subject to rights of common. The process of common land registration was completed in 1972, but numerous disputes concerning ownership and rights of common had to be resolved by Commons Commissioners (Gadsden, 1988; Aitchison and Gadsden, 1992).

The problems associated with the registration process thwarted efforts to promote further legislation, but the common land question continued to be a focus of attention. In 1976 an inter-departmental working party (*Common Land*:

Preparations for Comprehensive Legislation, DOE, 1976) reaffirmed the main conclusions of the Royal Commission, while the Common Land Forum (established in 1983) put forward detailed proposals concerning public access and establishment of management associations/schemes for areas of common (Common Land. Report of the Common Land Forum, Countryside Commission, CCP215, 1986). Despite widespread agreement and a series of positive pronouncements, the recommendations of the Common Land Forum were not acted upon. Thus, in the White paper Rural England: A Nation Committed to a Living Countryside, (DOE and MAFF, 1995) it was stated that, while:

"We remain committed to maintaining the status of common land, to protecting the rights of commoners and to encouraging proper management.....

We do not now believe that comprehensive legislation, along the lines of that proposed in 1986 by the Common Land Forum, is feasible or practical".

At the time of writing, and of particular relevance to common lands, a draft Bill has been published (The Countryside and Rights of Way Bill) which, if enacted as drafted, would grant access to specified categories of open land. One of these categories is registered common land; the others include mountain moor, heath and down. It should be added that the draft Bill makes no reference to a 'universal' right of access, nor is the phrase a 'right to roam' adopted. Two other publications of importance to the future governance and management of commons are a "Good Practice Guide on Managing The Use of Common Land", (DETR, 1998) and "Greater Protection and Better Management of Common Land in England and Wales" (DETR, 2000).

On the ecological front, a number of studies have sought to quantify the conservation significance of common land in England and Wales. These include the reports prepared for the Royal Society for Nature Conservation by Palmer (A Future for Wildlife on Commons, Parts 1 and 2, 1989) and by Bruce (Wildlife Importance of Common Land, 1989). A preliminary overview of results generated by the Rural Surveys Research Unit (University of Wales, Aberystwyth) for 18 regions in England and Wales - Common Land and Conservation: A Synthesis

(Aitchison and Medcalf, 1994) - also shed light on the diversity of flora and fauna that are to be found on commons and wastes. Subsequently, Aitchison also summarised the findings of the biological survey of commons for the whole of Wales (Countryside Council for Wales, 1997). This latter study is highlighted in a recent report by RSPB Cymru entitled 'Living Commons' (RSPB Cymru, 2000).

As has already been noted, this present county report is one of a set of reports compiled by the Rural Surveys Research Unit (University of Wales, Aberystwyth) over an twelve-year period. The first collection of reports was commissioned and funded by the Nature Conservancy Council, and thereafter by English Nature. To complete the picture a study of commons in the remaining counties of England was commissioned in 1995 by the Department of the Environment (now the Department of the Environment, Transport and the Regions - DETR). This report has been prepared as part of this latter phase of the national survey of common lands.

3. The Database of Registered Commons

Before describing the attributes of commons in Hampshire/Isle of Wight it is necessary to note that the data presented here are derived from three main sources. Firstly, the registers of common land that are maintained by local authorities; secondly, information gained from site-based evaluations of individual commons; and thirdly, from the biological records of local/regional agencies and organisations (e.g. English Nature offices, county wildlife trusts). The information collated from these various sources has been entered into a Microsoft Access database to facilitate the analysis and retrieval of common land records. Some of this information is quantitative in nature (e.g. areas of habitats), and some is textual and qualitative (e.g. descriptions of vegetation and associated habitats). In addition to the computer files that constitute the database, record sheets have been produced that detail the essential characteristics of all commons included in the biological survey (i.e. mainly commons over 1 hectare in size). These sheets constitute a hard copy record and are included in Appendix 3 for the region of Hampshire/Isle of Wight. In addition to the types of data described above the data sheets also include maps of Phase 1 habitat types for those commons that were included in the survey.

Given that the Phase 1 information forms such a key part of the data record it is appropriate at this point to describe briefly the approach adopted within the survey. This involved:

- (i) identifying all common land over 1 hectare in size and preparing broad-based vegetation maps using the standard 'Phase 1' coding of the Nature Conservancy Council (as it then was), and where possible, National Vegetation Classification communities. Phase 1 surveys secure a relatively rapid record of seminatural vegetation and wildlife habitats at a scale of 1:10000.
- (ii) preparing descriptions of the biological interest of each common land unit, principally from a botanical viewpoint, but also recording information on fauna where feasible. These descriptions include references to particular species of flora and fauna identified within the surveys. From these lists of species have been compiled for each of the county reports. Quantitative and textual information summarise the essential biological attributes of individual commons.
- (iii) from on-site observations, making summary evaluations of management practices on each common, together with recommendations (where sufficient information is available) concerning the resolution of any problems relating to the conservation interest.

Although the national survey of commons is based on a Phase 1 mapping of habitat types it is evident that the various categories identified can be aggregated into other higher order groupings to suit particular needs. Thus, it is possible for instance to aggregate the categories with a view to defining broad and priority habitat types as defined in the UK Biodiversity Action Plan and associated reports (1994, 1998). This said, it should be emphasised that the matching of Phase 1 categories to these new biodiversity categories cannot always be effected neatly, for in certain cases more detailed information concerning particular species or site conditions is required. Despite this, and since the biodiversity value of commons is an important issue, an effort is made in this report and in the summary report to comment on such matters, and to generate estimates of the habitat types and areas concerned.

Although the biological survey of commons in England and Wales has examined all CL units over 1 hectare in size, it is to be appreciated that this threshold is somewhat arbitrary in nature and was selected to limit extensive field work demands. To identify those commons over 1 hectare reference was initially made to the area statistics detailed in the land sections of the registers. However, since these statistics were known to be frequently crude estimates, maps held in the common land registration offices were also consulted to check if the areas recorded were sufficiently reliable. It is for this reason that certain commons with registered areas over one hectare were not covered in the survey, and why others under one hectare were actually included. Some commons over 1 hectare in size were also excluded because the areas concerned were highly fragmented, with component parts being less than this threshold. A small number of commons under 1 hectare were also included because they abutted other larger areas of common land.

Finally, in regards to the database of common lands it can be noted that OS grid references define centroid locations for individual commons. Although not used in this report (apart from the production of the location map), these co-ordinates has enabled the integration of the survey information into a full Geographical Information System (GIS). In this case the GIS adopted is ArcInfo and ArcView3. Such a system greatly extends the utility of the Access database, and allows sophisticated spatial searches, queries and mapping to be undertaken. The GIS facility was extensively deployed in the preparation of the full England report (Aitchison et al, 2000).

Having described the aims and objectives of the biological survey of common land in England, it is appropriate to consider the essential characteristics of common lands in Hampshire/Isle of Wight.

4. The Common Lands of Hampshire and Isle of Wight

Although an effort was made by the Royal Commission on Common Land to ascertain the location and extent of commons in the mid 1950's, it was not until 1967, following the Commons Registration Act 1965, that a formal inventory of commons and greens was initiated in England and Wales. Despite weaknesses in the legislation

and deficiencies in the procedures adopted during the registration process itself, the 'terriers' prepared by the various registration authorities now serve as a definitive record. The 1965 Act defines common land as 'land subject to rights of common (as defined in this Act) whether those rights are exercisable at all times or only during limited periods', and 'waste land of a manor not subject to rights of common' (Section 22).

(i) Sizes of Commons

At the time they were consulted the commons registers for the county of Hampshire contained 205 separately identified commons (CL Units). For the Isle of Wight the figure was 15. It is to be appreciated that the registers themselves can be subject to modification in each of their three sections – lands, rights and ownership. It is for this reason that certain of the data presented here, notably concerning rights and ownership, need to be treated with a degree of circumspection. This does not apply to the data collated in regard to habitat types however. For the counties considered in this phase of the survey, these were derived through field evaluations undertaken between 1996 and 1999.

While the land section of the registers generally include figures specifying the areas of these commons, they cannot be regarded as accurate measures. More detailed mapping and calibrations made during the biological evaluation of the commons (e.g. the measurement of habitat areas) have indicated that errors can be of a significant order. In this section of the report reference is made to the 'register' areas rather than re-calculated areas. Of necessity the latter are however used in the statistical summary of habitat types below.

Figure 1 shows that commons are to be found throughout the county. However, it is possible to identify two localities with particularly strong clusters of commons. These are the area around Basingstoke and Fleet in the north of the county, and the Liphook and Linford region in the east.

The total area of registered commons in Hampshire commons is 3867 hectares. Some 43% of these commons are less than 1 hectare in size. Just over 10% of the commons

have areas in excess of 50 hectares. In all, nine commons are more than 100 hectares. These are: CL31 (116 hectares), CL147 (129 hectares), CL1 (132 hectares), CL100 (136 hectares), CL111 (140 hectares), CL4 (178 hectares), CL50 (184 hectares), CL101 (219 hectares), CL57 (322 hectares) and CL24 (493 hectares). The latter three commons are Ludshott Common, Martin Down and Yateley Common. On the ground the area of individual tracts of common land can be much larger than emerges from the registers because of the contiguity of commons. Thus, in Hampshire there are just over 80 commons that are contiguous with other commons.

It should be noted that only those commons registered under the Commons Registration Act 1965 were included in this survey. The New Forest is not considered here since it was specifically exempted from the registration process. This area is regulated under local statutes.

The Isle of Wight had 14 commons, covering an area of a mere 15 hectares. Of these seven lie close to the settlements of Totland and Freshwater on the western side of the island. The rest are scattered in distribution (Figure 2). The majority of commons are less than a hectare in size. Only two are in excess of 4 hectares – CL8 and CL20.

(ii) Rights of Common

In Halsbury's Law of England a right of common is defined as a "right, which one or more persons may have, to take or use some portion of that which another man's soil naturally produces" (4th Edition, vol 6, p177). It follows from this that owners of commons cannot exercise "rights of common" on their own land. That said, they can still possess rights to use their commons for various purposes (e.g. sporting rights, grazing rights, rights to take minerals). Without entering into detail, it can be noted in regard to rights of common that a number of different types of rights can be distinguished. The six main categories are: rights of pasture (sheep, cattle, horses and ponies), estovers, turbary, piscary, pannage and common in the soil.

Because of deficiencies and complexities in the way rights of common were registered it is not possible to state precisely how many separate holdings/parts of holdings have rights attached to them. A major complication in this regard is that the

registers contain large numbers of entries that are either cross-referenced (i.e. a particular right may relate to more than one registered unit of common land) or multiply registered (i.e. the same right is separately, but incorrectly, recorded for more than one common). A further difficulty is that the rights sections of the registers are continually being updated. That said, no doubt many changes that have occurred on the ground have not been recorded.

At the time they were consulted the number of final and provisional rights entries for commons in the county of Hampshire was nearly 630. Given the issues detailed above it is evident that this figure should be regarded as indicative rather than definitive. In this regard it should be noted that just three commons had rights entries that were cross-referenced to other commons.

In Hampshire 41% of commons have registered rights of common. As Table 1 indicates the most significant of these are for rights to graze cattle (27%) and horses/ponies (18%). A significant number of commons also have rights of estovers (23%) and turbary (14%). To complete the picture, it can be noted that other types of rights that are not 'of common' were recorded on 30 commons.

Table 1

Rights of Common	Number of	%		
	Commons	Commons		
Sheep	14	6.8		
Cattle	56	27.3		
Horses/Ponies	37	18.0		
Pasture (Unspecified)		0.0		
Other Livestock	28	13.7		
Estovers	47	22.9		
Turbary	28	13.7		
Common in the Soil	10	4.9		
Piscary	14	6.8		
Pannage	20	9.8		
Commons with rights	85	41.5		
of Common				

N.B. Individual commons can have more than one type of right.

For the commons of the Isle of Wight there was just one rights entry. This was for unspecified livestock.

(iii) Ownership

Commons and wastes, like ordinary freehold land, have owners. They do not necessarily form part of the public domain. In the common land registers the ownership sections for many commons were, at the outset, empty. This was either because ownership was not known at the time or simply because the details were not recorded (the 1965 Act did not make this mandatory). The situation in terms of ownership can be quite complex with commons frequently having more than one owner, and owners of different types (eg private individuals, trusts, companies etc). When the registers for Hampshire were last consulted 46 commons (22%) had no information recorded concerning ownership. Where it proved impossible to trace owners, Commons Commissioners were required by Section 9 of the 1965 Act to place the commons concerned under the protection of their local authorities. In Hampshire 11 commons had been made subject to Section 9 at the time they were examined.

The largest number of commons were either wholly (39) or partly (23) under private ownership (other than traditional estates). A substantial number of commons (40) were owned by parish and other councils. Eleven commons were in the hands of the National Trust, and a further 13 were owned by various types of organisations (e.g. charities, trusts). Notably, 22 commons were recorded under the Land registration Acts of 1925 and 1936.

The vast majority (71%) of commons on the Isle of White were unclaimed at the time the registers were examined.

These statistics should be regarded as illustrative of the diversity of ownership forms that prevail in regard to common land; in no way should they be considered definitive of the current situation in the county. Ownership details for commons can quickly become outdated, as properties change hands. Furthermore, titles to ownership may not be specified within the common land registers themselves; in some cases reference is simply made to records held at the Land Registry.

5. Biological Characteristics of Common Land

(a) Habitat Types.

For purposes of the survey habitats were categorised according to the NCC Phase 1 classification (Nature Conservancy Council, 1990). It is to be appreciated that this is a broad structural classification rather than one based upon vegetation communities. Phase 1 habitats are recorded on the site cards for each of the commons and on associated maps. To add further detail, an effort was made to apply the National Vegetation Classification (Rodwell, 1992) wherever possible. This extra information is included mainly in the description of vegetation communities.

In preparing the habitat maps and site descriptions for the individual commons, the project brief required that extensive consultation of existing information sources should be made and that any field survey be targeted at filling any 'gaps' in available habitat information. The various information sources are fully described in the relevant sections of the individual site reports (Appendix 3).

Table 2 provides a statistical summary of the habitats recorded during the course of the survey. The total calculated area of recorded habitats for the 122 commons in the survey is 3900 hectares. In all, 36 different habitat types were identified.

Table 2
Habitat Types

Habitat Types (NCC Phase 1)	Area	Number of	%
	(hectares)	Commons	Common
			Land
Woodland and Scrub			
A111 Woodland: Broadleaved (Semi-natural)	1284.3	83	32.9
A112 Woodland: Broadleaved (Plantation)	12.7	6	0.3
A121 Woodland: Coniferous Semi-natural	5.0	1	0.1
A122 Woodland : Coniferous (Plantation)	13.1	5	0.3
A131 Woodland: Mixed (Semi-natural)	306.6	15	7.9
A132 Woodland : Mixed (Plantation)	79.3	2	2.0
A21 Scrub : Dense/Continuous	488.5	66	12.5
A22 Scrub: Scattered	29.0	2	0.7
A3 Parkland: Broad-leaved and/or Coniferous	86.2	7	2.2

Grassland B11 Acid Grassland (Unimproved) B12 Acid Grassland (Semi-Improved) B21 Neutral Grassland (Unimproved) B22 Neutral Grassland (Semi-Improved) B31 Calcareous grassland (Unimproved) B4 Improved Grassland B5 Marsh/Marshy Grassland B6 Poor semi-improved grassland	132.0	34	3.4
	2.0	1	0.1
	214.9	35	5.5
	46.9	2	1.2
	334.9	10	8.4
	77.9	7	2.0
	32.6	11	0.8
	41.3	4	1.1
Tall Herb and Fern C11 Bracken Continuous C12 Bracken Scattered C31 Tall Ruderal	76.2	13	2.0
	4.5	1	0.1
	8.0	5	0.2
Heathland D11 Dry Dwarf Shrub Heath (Acid) D2 Wet Dwarf Shrub Heath	291.6	21	7.5
	76.4	14	2.0
Bog, Flush and Fen E31 Fen: Valley Mire F1 Swamp F21 Marginal vegetation F22 Inundation vegetation	4.5	1	0.1
	0.5	1	0.0
	4.5	3	0.1
	1.0	1	0.0
Open Water G1 Standing Water G2 Running Water	18.3	23	0.5
	8.2	4	0.2
Coastland H26 Saltmarsh: Dense continuous H3 Shingle above high tide mark H85 Coastal Heathland	1.2	1	0.0
	2.3	1	0.1
	3.5	1	0.1
Anthropogenic Habitats J11 Arable J12 Amenity Grassland J3 Built-up Areas J4 Bare Ground J5 Other Habitat	20.8	3	0.5
	112.6	26	2.6
	6.2	5	0.2
	58.1	31	1.5
	36.4	12	0.9

Woodland and Scrub

Woodland and scrub habitats account for 59% of all the surveyed common land in Hampshire/Isle of Wight. The area concerned amounts to 2305 hectares. Of this the majority (73%) is broadleaved or mixed woodland.

The woodlands of the Hampshire commons vary from old wood pastures to modern planted broadleaf or conifer woods. Many are now fully established on former heaths and some woodlands are emerging rapidly on the remaining heathland areas. **A111 semi-natural broadleaved woodlands** were identified on 83 of the 122 commons surveyed.

Former pasture woods include Holm Hill (CL90), Odiham Common (CL31) (which is thought also to have been a Royal hunting ground), Land at Hartley Wintney (CL32), Passfield Common (CL92) and Southampton Common (CL1). Odiham Common, for example, is part of an SSSI, and is ancient woodland with *Quercus robur* predominant. Old trees and pollards were, unfortunately, removed but wood pasture could be restored.

Many woods are mixed semi-natural with *Quercus robur* usually predominant. In some *Betula* sp. is co-dominant such as in CL 100 (Part of Hazeley Heath) where, as is often the case, the trees have matured since invading dry and wet heath. In other areas the *Quercus* sp. is blended with *Corylus avellana* (old coppice) such as Hook Common (CL4) or parts of Hartley Wood Common (CL94)

Fraxinus excelsior is substantial at some commons such as Hoegate Common (CL281), parts of Bramdean Common (CL17) and Hartley Wood Common (CL94).

Some commons have recently planted trees for conservation or amenity (CLs 15,17, 37 and 38) and some have substantial older planted memorial trees such as the Trafalgar Oaks of Hartley Wintney or the Canadian Maples of Bramshott Common (CL50).

Pinus sylvestris is present in the mixed woods that are present in some of the large commons such as the former heaths of Luddshot (CL 101), Bramshott (CL50) and Newtown Common (CL1)

Binswood Common (CL73) offers an opportunity to reintroduce coppicing and pollarding in an old wood pasture with a variety of semi-natural habitats including small areas of acidic grassland.

NVC communities present on Hampshire Commons include W10,W14, W15.

Scrub is present on a large proportion of the Hampshire commons, with dense/continuous scrub being recorded on 66 commons. Some commons such as Baston Common (CL83) have substantial scrub that is slowly eliminating some habitats, in this case an area of *Mryrica gale*. Heathlands are usually scrub invaded, sometimes this is controlled by conservation teams, but frequently the main control is due to management under power lines.

Grasslands

Grasslands of various types extend over 883 hectares – 22% of the total common land surveyed.

Unimproved chalk grassland (**B31**) is found on ten commons, most notably at Stockridge Down (CL 54), Compton Down (CL307), Martin Down (CL57) and Portsdown Hill (CL307). Together these grasslands cover 335 hectares, and account for 8% of all the surveyed common land in the area. As is usual, the grasslands are colonized by scrub species, usually *Crataegus monogyna*. The largest of the surveyed commons of the Isle of Wight, CL8 near Tennyson Down is also fine cliff edge chalk grassland.

Acidic grasslands (**B11** and **B12**) are found associated with some of the heathland commons such as Yately Common (CL 24) Hazely Common (CL100), Shortheath (CL 109), Cheriton Common (CL 118). In total they account for 3.5% of the surveyed common land area.

Several of the best sites for wildlife are highly designated commons on flood plains which support **B21 Unimproved Neutral grasslands** and **B31 Unimproved calcareous grasslands**, frequently wet grasslands that merge with inundation communities, marshes (**B5**) and fen. These include Chilbolton Common (CL 42), Bransbury Common (CL 72), and Land East of the River Test (CL55).

Tall Herb and Fern

Bracken, both continuous (C11) and scattered (C12), though frequently present, is not a large constituent of the Hampshire commons in terms of area -81 hectares. Present in glades of woodlands, adjacent to developing woodland/scrub and scattered across heathland, bracken is likely to increase as a constituent habitat of the commons.

Heathland

There are 21 commons that still support substantial **D11 Dry dwarf shrub heath** communities. This habitat covers 292 hectares – 7.5% of the surveyed area. Notable examples of commons with dry heaths are: Yateley Common (CL24), Kingsley Common (CL 41) Bramshott Common (CLs 50, 102), Baston Common (CL83), Pennington Common (CL 84), Silchester (CL 87), Passefield (CL 92), Hazeley Heath (CL 100), Ludshott Common (CL 101), Shortheath Common (CL 109).

The heath is frequently invaded by scrub and the managed commons usually have had some scrub control implemented. Hamble Common (CL 36) is a coastland heath with luxuriant heather growth. Some commons support small (sometimes very small) areas of dry heath. Southampton Common has a few patches of heather that are under conservation management. Newtown Common , Shedfield, Odiham Common have larger areas and in places these are encouraged by the cutting back of scrub under power lines.

Also worth highlighting is to presence of chalk heath at Martin Down (CL57)

D2 Wet dwarf shrub heath covers 76 hectares and is found on 14 commons. Hook Common (CL4), Copythorne (CL9) Hazely Heath (CL49) all support some wet heath communities, but again these are often scrub invaded.

Bog, Flush and Fen

Habitats in this category of minor consequence on the commons of the region and were recorded for a very small number of commons. The total area concerned is just 10 hectares.

Open Water

Ponds are a feature of many Hampshire Commons. Some are neglected, others are conserved for their ecology and/or amenity. Southampton Common is noted for its ponds some of which support good populations of amphibians. Wyndham's Pool (and others) on Yately Common demonstrates some fusion of fishing, ecology and amenity interests, as also does Wilk's Water at Odiham Common.

The chalk streams of the Test Valley pass through some commons such as Chilbolton Common where they provide varied streamside habitats that are good for water voles.

Coastland

Habitats in this category are of little significance in terms of area. A few commons lie along Southampton Water near Hamble where lowland heath, saltmarsh and strandline vegetation are found.

Anthropogenic Habitats

The diverse habitats within this category extend over 234 hectares. Just over 20 of the commons surveyed are small amenity grasslands either as greens in villages or urban parks with amenity trees planted. A few commons have much bare earth/sand where military exercises take place.

Arable land (**J11**) was a feature on three commons (e.g. CL93, Part of Stockridge Down) though improved pastures for grazing are found on many commons. There are at least 25 small commons of improved amenity grasslands often fringed by unmown less improved areas or 'carved out' from larger commons.

(b) Notable Plant Species

A number of the commons surveyed are known to contain examples of notable plant species. Significant examples of these are :

Yately Common (CL24) which supports nationally scarce plant species, such as *Moenchia erecta* and locally uncommon *Botrychium lunaria*.

Chilbolton Common (CL 42) which includes 265 recorded species at least 9 of which are notable species.

Martin Down (a National Nature Reserve) which supports many notable species including *Gentianella anglica*.

Stockbridge Down (CL54) which has Juniperus communis.

(c) Fauna

While the main purpose of the Biological Survey of Common Land was to record the habitats and vegetation present, some consideration was also given to fauna. Although faunal survey work is much more time-consuming, and often cannot be undertaken without numerous visits to a site, an attempt was made to compile information on fauna through an examination of existing information sources and by noting the more obvious and easily-recognised elements of the fauna whilst undertaking the other fieldwork. It is recognised that in many ways this is unsatisfactory and it is also the case that much information exists in the records of English Nature and specialist recorders which could not be examined given resource constraints. The following paragraphs briefly consider some faunal groups.

Vertebrates

Reptiles: Great-Crested Newts are recorded for some commons, for example CL 1 (Southampton Common); and Smooth Snake snake is recorded for Newtown Common and Yately Common.

Mammals: Water vole are noted for several common, for example CL55 (River Test) and Bransbury Common (CL72).

Dormice are known from several commons such as Selborne Common (CL103), and brown hares were recorded on Bransbury Common (CL72)

Birds:

Yately Common, and Kingsley Common include several priority species such as Nightjar, Dartford Warbler, Woodlark, Song Thrush. Chilbolton Common supports important numbers of breeding Redshank, Lapwings, Snipe and Warblers.

CL101 Ludshott Common includes Turtle Dove, Nightjar, Lesser Spotted Woodpecker, Song Thrush, Great Grey Shrike, Linnet and Reed Bunting, while Martin Down (CL57) is noted for Stone Curlews and Lapwings.

Invertebrates

Red Data Book species such as *Stenoptila graphodactyla, Idaea dilutaria* and *Microdon mutabilis* are found at Hook Common, as are 'outstanding assemblages of Diptera and Lepidoptera'. Yately Common includes nationally rare bees, cockroaches, Conopid fly and Silver-studded Blue butterflies. Odiham Common (CL31) includes nationally rare Diptera, Hymenoptera and notable beetles, and Pennington Common (CL 84) hosts nationally rare flies, hoverflies.

Finally, Selborne Common (CL103) is highly recorded and is known to support many nationally rare species of insects and molluscs. Butterflies here include Duke of Burgundy, Purple Emperor, Silver-washed Fritillary.

(d) UK Biodiversity Action Plan

In June 1992, the UK Government signed the Convention on Biological Diversity at Rio de Janeiro, which included the commitment to prepare national plans and programmes for the conservation of biodiversity. The UK Biodiversity Action Plan was published in 1994 (HMSO, 1994), this being followed by the initial steps toward the action planning process, with the publication of *Biodiversity: The UK Steering Group Report* (DETR, 1995).

This report highlighted a range of habitats with two categories being defined – **Broad Habitats** and **Priority Habitats** for action plan preparation. The report also included a "short" and a "middle" list of species, together totalling some 416 species, for which action plans had either already been prepared, or would be in the course of the UK

BAP process. These lists have subsequently been combined, again with some revision and refinement, to produce a single list of **Priority Species** for action plan preparation.

Broad Habitats

The matching of Phase 1 habitat types described above to the broad habitat categories is detailed in Appendix 4. It is from this matching process that the area statistics included in Table 3 have been derived. This tabulation shows that one broad habitat category - that of broadleaved woodland – is overwhelmingly dominant. It accounts for 59% of all of the common land included in the survey, and covers 2170 hectares. Only one other habitat type – dwarf shrub heath – claims over 10% of the area. Next in order of significance are three types of grassland – calacareous grassland (8.9%), neutral grasssland (7.1%) and improved grassland (6.0%).

Table 3

1. Broadleaved, mixed and yew woodland	2169.8	59.0
2. Coniferous woodland	18.1	0.5
3. Boundary and linear features		
4. Arable and horticultural	20.8	0.6
5. Improved grassland	219.6	6.0
6. Neutral grassland	261.3	7.1
7. Calcareous grassland	326.3	8.9
8. Acid grassland	134.0	3.6
9. Bracken	76.2	2.1
10. Dwarf shrub heath	371.5	10.1
11. Fen, marsh and swamp	37.6	1.0
12. Bog		
13. Standing water and canals	21.1	0.6
14. Rivers and streams	11.0	0.3
15. Montane habitats		
16. Inland rock		
17. Built up areas and gardens	6.2	0.2
18. Supralittoral rock		
19. Supralittoral sediment	2.3	0.1
20. Littoral rock		
21. Littoral sediment	1.2	0.0

Priority Habitats

Unfortunately, the Phase 1 habitat types do not translate easily or convincingly into 'priority' habitats. In some cases the matching is clear, in most others very crude assumptions would have to be made if estimates of the areas associated with the various priority habitat types are to be derived. Given the complexities and uncertainties involved it is appropriate here to draw attention (albeit very tentatively) to the habitats concerned in Hampshire and the Isle of Wight, where it is possible to do so. This translation cannot always be effected cleanly or fully because of the detail that underpins certain of the categories concerned.

(a) Woodlands

Six categories of woodlands have been classed as priority habitats. These are upland oakwood, lowland beech and yew woodlands, upland mixed ash woodlands, wet woodlands, native pine woods and lowland wood pasture and parkland. These categories refer to special types of situations and cannot be differentiated at the Phase 1 level of mapping. All that can be stated is that commons with A111 habitats may fall into one or more of these priority habitats. In Hampshire and the Isle of Wight this habitat was recorded on 84 commons and covered 1285 hectares.

(b) Ancient and/or species-rich hedgerows

This habitat type could apply to a number of Phase 1 categories (J211, J212, J221, J222, J231 and J232). These would embrace both the 'ancient' and 'species-rich' dimensions of the habitat category. However, it is unlikely that those hedgerows that are species-poor (J212, J222 and J232) would be worthy of inclusion in the category. In Hampshire and the Isle of Wight there were no commons where this priority habitat was recorded.

(c) Cereal Field Margins

Field margins were not examined in the survey, but it is worth noting that arable (J11) was recorded on 3 commons, and covered just 21 hectares.

(d) Lowland Hay Meadow

Again it is not possible to differentiate this habitat type with accuracy. However, since it is dominantly associated with unimproved neutral grasslands reference can be made to Phase 1 category B21. The category refers specifically to lowland locations however. Taking the 250 metre contour (800 feet) as a threshold to distinguish lowland and upland locations, and referring specifically to the median elevation of the commons concerned, it can be noted that in Hampshire and the Isle of Wight this habitat covers 215 hectares on 35 commons.

(e) Upland Hay Meadow

This category is difficult to comment upon since it specifically refers to NVC MG3 communities, mainly to be found in the uplands of northern and western Britain. It does not apply in the case of Hampshire and the Isle of White.

(f) Lowland Dry Acidic Heath

Phase 1 categories B11 and B12 are applicable to this priority habitat in lowland locations. In Hampshire and the Isle of White the survey identified 35 commons with this habitat (134 hectares).

(g) Purple Moor Grass and Rush Pastures

This priority habitat refers specifically to certain species-rich Molinia/Juncus swards in lowland sites. It is not possible to identify commons that fall into this category with accuracy, but it can be noted that in Hampshire and the Isle of Wight the survey identified 11 lowland commons with B5 habitats (32.6 hectares). However, it is not possible from the survey data to differentiate commons or areas with species-rich swards.

(h) Lowland Calcareous Grassland

This priority habitat is broadly defined by two Phase 1 categories - B31 and B32. In aggregate these habitats are present on 10 lowland commons, and cover 330 hectares.

(i) Upland Calcareous Grassland

The Phase 1 categories associated with this priority habitat do not occur in upland situations in this county.

(j) Lowland Heathland

Lowland heathlands are defined by a number of Phase 1 types – D11, D12, D2, D5 and D6. These habitats occur on 26 lowland commons and cover 368 hectares.

(k) Coastal/floodplain grazing marsh

Identifying commons that have priority habitats of this type is difficult and could include areas with various Phase 1 types – B21, B22, B4, B5, B6 and H26. Much depends upon the geographical location of the commons and their management. The areas concerned should include "periodically inundated pasture, or meadow with ditches which maintain the water levels, containing standing brackish or fresh water." For information it can be noted here that there are 51 lowland commons with one or more of the Phase 1 habitats specified. Identifying how many of these have the defining attributes of this priority habitat would require further field research.

(l) Fens

This habitat category is described as "minerotrophic peatlands". These could include the following Phase 1 types in lowland situations – E31, E32, E33, E21, and E22. In Hampshire and the Isle of Wight one or more of these habitats occur(s) on just one lowland common, with an aggregate area of 4.5 hectares.

(m) **Reedbeds**

While this priority habitat would be mapped as F1 under the Phase 1 system it actually applies only to those areas where *Phragmites australis* is dominant. In Hampshire and the Isle of White the F1 habitat occurs on 1 common and covers 0.5 hectares.

(n) Raised Bog

This priority habitat matches the Phase 1 category E162. This habitat type was not recorded on any of the surveyed commons.

(o) Mesotrophic standing waters

This priority habitat could apply to commons with Phase 1 types G12 and G15, but such a determination would require more detailed research. This habitat type was not recorded on any of the surveyed commons.

(p) Eutrophic standing waters

This priority habitat might include commons with G11 and/or G15 Phase 1 categories. These habitats were not recorded on any of the commons surveyed.

(q) Aquifer-fed naturally fluctuating water bodies

The two Phase 1 habitat types (G13, G14) that might include areas in this priority habitat category were not recorded on any of the commons surveyed.

(r) Chalk rivers

The Phase 1 type G25 relating to marl-based running water could define this particular priority habitat. However it was not identified on any of the commons surveyed.

(s) Upland Heathland

The various Phase 1 types that comprise this priority habitat category have been described above (see lowland heathland) and apply specifically to upland contexts. They do not apply in Hampshire/Isle of Wight.

(t) Blanket Bog

Three Phase 1 habitat types identify the blanket bog category (E161, E17 and E18). In Hampshire and the Isle of Wight these habitat types were not recorded on any commons.

(u) Limestone Pavements

Limestone pavements constitute a discrete Phase 1 category (I13). They do not figure on any of the commons in the region.

(v) Maritime Cliff and Slope

Five Phase 1 habitats could be included in this priority habitat category (H81, H82, H83, H84 and H85). One or more of these feature on just one common, with a total habitat area of 3.5 hectares.

(w) Miscellaneous coastal habitats

The list of priority habitats contains a number of highly specific coastal categories. These include (a) vegetated shingle structures (H3); (b) saltmarsh (H23, H24, H26); (c) sand dunes (H5, H64, H65, H66, H67, H68); (d) saline lagoons (G16); and (e) deep mud and mudflats (H11). In the county the number of commons and associated areas for these habitats (where applicable) were as follows: (a) 1 (2.3 hectares); (b) 1 (1.2 hectares).

Recorded Species and Priority Species

A full list of species referred to in this report and the appendix of site records is presented in Appendix 2. Those which are "Priority Species" of the UK Biodiversity Action Plan (UK Biodiversity Group, 1998) are highlighted in **bold type**. Note that the occurrence of a species on this list does not necessarily imply the existence of a confirmed biological record.

Invertebrate Habitats

During the site visits, an attempt was made to record habitat features that may be of potential importance to invertebrate communities. This information is summarised in Table 4. It confirms that many commons in Hampshire/Isle of Wight contain microconditions that may serve to promote invertebrate populations.

Table 4 Potential invertebrate habitat on Hampshire Commons.

Habitat feature	No. of Commons
Bracken litter	22
Deadwood	66
Mature trees	55
Scrub development	66
Exposed substrate/bare ground	17
Car parks	9
Burnt	4

6. Use and Management

During site visits observations were made concerning the use and management of commons. Summary details are provided in Table 5. It confirms that many commons in the region are actively used and managed for a whole variety of purposes. Particularly notable is grazing by cattle, mowing, scrub control and tree planting. For more details see individual records (Appendix 3).

Table 5
Use and Management of Commons

Use and Management Activity*	Number of Commons	CL Numbers
Grazing:		
Sheep	2	53,57.
Cattle	17	5,38,55,168,23,89,277,72,42,73,98,
		166,20,286,221,307,130.
Horses	5	168,69,166,20,307.
Grassland management :		
Mowing	33	3,4,33,184,230,244,289,5,2,1,6,87,
<u> </u>		147,9,13,27,29,39,84,106,278,290,
		299,304,308,83,161,286,134,135,
		136, 257,24.
Hay	3	135,168,52.
Other management:		
Thistle control	2	22,42
Grazing introduced for conservation	1	57
Scrub control under power lines	15	1,4,19,109,111,90,31,53,87,105,
		113,184,276,161,41
Scrub control for conservation	6	4,54,92,100,57,16.
Tree planting (amenity or conservation)	2	53,100,35,37,38,11,15,17,106,134.
Tree felling	2	1,109.
Large areas burnt by accident or design	1	101.
Recent coppicing	3	117,12,131.
Managed for timber	2	118,318
Part managed for military use	2	111,41.
Bracken controlled	2	190,101.
Managed partly for shooting	1	12.
Managed for charcoal/woodland products	2	12,33.

^{*} As noted at time of survey

Management Issues and Recommendations

Given that site visits were mainly concerned with Phase 1 mapping or the checking of habitat information derived from other sources, recommendations concerning management are inevitably cursory in nature. However, a number of suggestions concerning particular commons are detailed within the site record cards (Appendix 3). Table 6 summarises the range of issues that are highlighted.

Table 6
Suggested management activities

Management Activity	Number of Commons	CL Numbers
Manage scrub	13	49,1,23,109,100,109,23,102,286,
-		36,187,84,41.
Promote/restore heathland	10	1,150,101,24,87,61,102,13,83,36.
Conserve/restore pond(s)	14	1,32,87,33,38,184,89,156,199,69,
		27,94,107,188.
Create pond(s)	1	104
Prevent path erosion	1	8 (Isle of Wight)
Reintroduce coppicing	3	73,92,33.
Ensure aftercare of planted trees	8	35,37,38,11,15,17,106,134.
Control Fallopia japonica	4	149,156,150,290
More information for public	1	57
Control Pteridium aquilinum	3	102,179,41.
Control Rhododendron ponticum	1	243
Encourage Butterflies	1	287

Encroachments

During the site visits, a number of features were noted which potentially could have an adverse effect upon the nature conservation value and integrity of the commons. These are termed encroachments and are summarised in Table 7. Most of the encroachments are relatively limited in extent, although piecemeal erosion of common land can lead to serious losses. Tipping of various types (e.g. garden refuse, rubble and general domestic rubbish) was the most widely-recorded encroachment.

Table 7

Type of Encroachment	Number of Commons	CL Numbers
Mowing by householders	2	199,5.
Drives across common	1	32
Upheaval of land by human activity	2	111,37
Dumping	5	69,11,150,155,100
Bonfire sites or burning	1	101
Car-parking/lay-bys	2	57,24

7. Commons and Protected Areas

A significant proportion of the common land within the county lies within formally designated protected areas. Table 8 records the number and area of common land lying within such designations, both national and local. Particularly notable is the high proportion of common land that is under SSSI designation. This serves to re-affirm the high conservation value of commons in the region.

Table 9
Protected Areas and Common Land

Protected Areas	Number of Commons	Area (ha) Within Designation	% Common Land in County
SSSI	27	2471.9	63.4
National Nature Reserve	1	321.2	0.1
Special Protected Area	1	2.4	0.0
National Nature Reserve	1	321.2	8.2
Wildlife Trust	1	3.0	0.1
Nature Conservation Review site.	2	82.6	2.1
Country Park	1	73.9	1.9
Environmentally Sensitive Area	10	184.6	4.7
National Trust	1	17.0	0.4
SNCI	1	4.3	0.1
Woodland Trust	1	55.2	1.4
Area of Outstanding Natural	9	482.2	12.4
Beauty			

^{*} Particular commons may be associated with more than one designation.

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APPENDIX 1

Hampshire and Isle of Wight : List of Registered Commons

HAMPSHIRE

- Key
- CL Number
- Commons Surveyed
- Name/Location of Common
- Register Area (hectares)
- Calculated Area (hectares)
- Easting
- Northing
- OS Map 100 Sq Km OS Map 10 Sq Km

1	2	3	4	5	6	7	8	9
1	*	The Southampton Common	131.98	132.00	441500	114500	196	SU41
1	*	Newtown Common	56.57	56.60	447700	163000	174	SU46
2		Otterbourne Hill Common	0.01	0.00	445400	122300	185	SU42
2	*	Queens Park	2.23	2.20	442300	111100	196	SU41
3	*	The Parks	15.38	15.40	442000	112000	196	SU41
4	*	Bitteruc Common	4.45	4.50	444700	112700	196	SU41
4	*	Hook Common and Bartley Heath	178.47	178.50	472500	153500	186	SU75
5	*	Land at Warnborough Green	3.03	3.00	473000	152000	186	SU75
5	*	Sholing Common	2.02	2.00	446200	112400	196	SU41
6	*	The Avenue Lands	6.50	6.50	442200	113100	196	SU41
9	*	Copythorne Common	28.00	28.00	431700	115600	196	SU31
10	*	Land at Hurstbourne Tarrant	1.58	1.60	438800	154300	185	SU35
11	*	Part of Blagden Copse	3.33	3.30	436100	153800	185	SU35
12	*	West end of Doles Wood	10.52	10.50	435000	152400	185	SU35
13	*	Land around A333/A334 at Shedfield	24.79	24.80	456300	113000	196	SU51
14		Bank behind Crescent Council Houses	0.65	0.00	438500	153300	185	SU35
15	*	Land near Ambley Farm, Upton	2.02	2.00	436600	154900	185	SU35
16	*	Ham Green	3.90	3.90	444000	130600	185	SU43
17	*	Land by Bramdean Common	12.95	13.00	462800	129300	185	SU62
20	*	Land NW of Sapley	5.18	5.20	415300	97400	195	SZ19
21		Land north of Sapley	0.77	0.00	415700	97500	195	SZ19
22		Land called Tribbicks	0.20	0.00	416200	99100	195	SZ19
23	*	Land on E bank of River Avon	3.64	3.60	414500	98700	195	SZ19
24	*	Yateley Common	493.12	493.00	482000	159000	175	SU85
27	*	Yateley Green	25.70	25.70	481200	161000	175	SU86
29	*	Part of Yateley Common	4.41	4.40	482600	159600	175	SU85
31	*	Odiham Common	116.24	116.20	475300	153000	186	SU75
32	*	Hartley Wintney/Phoenix Green	39.47	39.50	476000	156400	175	SU75
33	*	Land at West Green	16.27	16.30	474700	156600	175	SU75
34		Stoken Green Common	0.75	0.00	474700	157600	175	SU75
35	*	Land at Hartley Wintney	3.06	3.10	477000	157300	175	SU75
36	*	Hamble Common	22.66	22.70	448100	106200	196	SU40
37	*	Pickling Yard, Gravel Allotment	1.62	1.60	464300	164600	175	SU66
38	*	Burnt Common	40.79	40.80	462200	164400	175	SU66
39	*	The Recreation Ground	1.94	1.90	463400	164000	175	SU66
41	*	Kingsley Common	40.81	40.80	479300	138000	186	SU73
42	*	Land near Chilbolton	19.43	19.40	438700	140300	185	SU34
43		Ashmansworth War Memorial	0.08	0.00	441500	157500	174	SU45
44		Crux Easton Memorial Tree	0.08	0.00	442700	156400	174	SU45
45		Ashmansworth Pond	0.04	0.00	441600	157500	174	SU45

48		Part of Yateley Common	0.94	0.00	484700	159700	175	SU85
49	*	Hazeley Heath	51.91	45.00	476300	157800	175	SU75
50	*	Bramshott Common	183.75	178.80	486000	133500	186	SU83
51		The Pound	0.05	0.00	440900	108000	196	SU40
52	*	Land near Broad Oak	2.71	2.70	475400	151900	186	SU75
53	*	Part of Weavers Down	42.71	42.70	481000	129500	186	SU82
54	*	Stockbridge Down	64.89	64.90	438000	135000	185	SU33
55	*	Land E of River Test	22.32	22.30	435400	134000	185	SU33
56		The Sheepwash	0.08	0.00	436300	142300	185	SU34
57	*	Martin Down	322.35	321.20	404000	120000	184	SU02
58		Land near Up Nately	0.09	0.00	469900	152300	186	SU65
61	*	Part of Weavers Down	5.24	5.20	481200	129300	186	SU82
62	*	Land by Marsh Lane, Eversley	1.01	1.00	479700	161000	175	SU76
63		Land opposite Firgrove House	0.81	0.00	480000	160800	175	SU86
64		Church Green	0.49	0.00	478000	160900	175	SU76
65		Land in parish of Eversley	0.29	0.00	477300	161400	175	SU76
69	*	Lyde Green	1.50	1.60	470900	157100	175	SU75
70		The Pond	0.08	0.00	471100	156300	175	SU75
72	*	Bransbury Common	79.39	79.40	441500	142000	185	SU44
73	*	Binswood Common	55.19	55.20	476500	137000	186	SU73
76		The Chalkpit	0.28	0.00	461300	116400	185	SU61
77		The Pond	0.09	0.00	460700	114700	196	SU61
78		The South End Plain Pond	0.04	0.00	461500	113600	196	SU61
79	*	The Knapp	1.18	1.20	465800	135900	185	SU63
80		Five Ash Pond	0.32	0.00	466100	135700	185	SU63
81		Lower Soldridge Pond	0.05	0.00	465300	135200	185	SU63
83	*	Baston Common	19.09	19.10	425000	93200	195	SZ29
84	*	Pennington/Upper Pennington Commons	31.97	32.00	429800	95600	196	SZ29
86	*	Westfield Common	3.32	3.30	446800	106900	196	SU40
87	*	Silchester Common	66.64	66.70	462300	162200	175	SU66
88	*	The Cow Down	3.90	3.90	452500	139300	185	SU53
89		Gravel Pits	1.95	0.00	452800	163200	174	SU56
90	*	Holm Hill/Griggs Green/Holly Hill	93.37	140.80	482000	130900	186	SU83
92	*	NE area of Woolmer Forest	89.59	89.60	482000	133400	186	SU83
93	*	Part of Stockbridge Down	27.42	27.40	438000	135800	185	SU33
93 94	*	Hartley Wood Common	22.26	22.30	469300	158300	175	SU65
98	*	Area near Sherfield on Loddon	15.41	15.40	467900	158700	175	SU65
100	*	Part of Hazeley Heath	136.39	136.40	475000	158500	175	SU75
101	*	Ludshott Common	218.76	218.80	485000	135500	186	SU83
101	*	Part of Bramshott Common	15.26	15.30	486800	133900	186	SU83
102	*	Selborne Common	97.72	97.70	473400	133300	186	SU73
103	*		0.82					SU75
104	*	Chandlers Green		1.30	470800 473300	158800	175	SU75
103	*	Mattingley Green Stockheath Common	10.80	9.10	473300	157800	175	
	*		4.25	4.30		107600	197	SU70
107	*	Land at Dipley	2.19	2.20	474200	157300	175	SU75
108	*	Land in Warnborough Green	1.91	1.90	472800	152200	186	SU75
109		Shortheath Common	59.05	59.00	477400	136600	186	SU73
111	*	Land E of Oakhanger	140.74	140.70	478000	135000	186	SU73
112		Part of West Green Common	0.01	0.00	474600	156400	175	SU75
113	*	Chatter Alley Green	1.90	1.90	478200	153300	186	SU75
117	*	Part of Bramdean Common	42.25	42.30	463400	129500	185	SU62
118	*	Cheriton Wood	90.94	91.00	460900	129500	185	SU62
122		Land at Phoenix Green	0.34	0.00	475900	156200	175	SU75
123		Land south of Thackhams Lane	0.17	0.00	475900	156000	175	SU75
124		Land near Phoenix Lane	0.02	0.00	475800	155700	175	SU75
125		Land adjoining The Cricketers Pub	0.06	0.00	476800	156800	175	SU75
126		Land NE of The Cricketers Pub	0.04	0.00	476900	156900	175	SU75
127		Part of West Green Common	0.01	0.00	474700	156800	175	SU75
128		Part of West Common	0.01	0.00	474700	156800	175	SU75
129		Part of West Green Common	0.02	0.00	474900	156800	175	SU75
130		Basingstoke Common	46.49	0.00	466200	152300	185	SU65

131	*	Zephon Common	4.69	4.70	479700	151900	186	SU75
132		Part of Kingsley Common	0.48	0.00	479200	138600	186	SU73
134	*	Lockerley Green	1.79	1.80	429200	126700	185	SU22
135	*	Critchells Green	2.65	2.70	429500	126100	185	SU22
136	*	Land S of railway	4.01	4.00	429300	126400	185	SU22
137		The Old Chalk Pit	0.24	0.00	443900	144200	185	SU44
138		Old Gravel Pit	0.27	0.00	443300	144000	185	SU44
140		Part of Bramshott Common	0.05	0.00	486600	132600	186	SU83
141		Land near Grigg Green	0.19	0.00	482400	131700	186	SU83
142	*	Forest Mere	15.22	15.20	481800	130400	186	SU83
145		The Gravel Pit	0.40	0.00	460200	140800	185	SU64
147	*	Broxhead Common	129.55	129.60	480200	137400	186	SU83
149	*	Land near Forest Mere	19.55	19.60	482000	129800	186	SU82
150	*	The Gravel Pits	4.15	4.20	456800	162600	174	SU56
151	*	Tithe Field 150	3.04	3.00	447500	106400	196	SU40
153		Land at Larkwhistle	0.25	0.00	444600	144700	185	SU44
155	*	Land at Plaitford Green	11.62	11.60	428300	121400	184	SU22
156	*	Land near Powells Farm	6.59	6.60	428000	119400	184	SU21
161	*	Sandleheath Common	1.47	1.50	412300	110000	195	SU11
162		Rockbourne Marsh	0.14	0.00	412200	117100	184	SU11
163		Upper Rockbourne	0.19	0.00	411000	118800	184	SU11
166	*	Land near Stonyford	6.39	6.40	432300	115700	196	SU31
168	*	Land near Holt	0.30	23.50	473700	154500	186	SU75
169		Land in west of Hook	0.61	0.00	471900	153900	186	SU75
170		Land at Larkwhistle	0.22	0.00	444600	144800	185	SU44
179	*	Poulner Hill	4.16	4.20	416700	106400	195	SU10
184	*	Wickham Common	29.70	29.70	458900	110800	196	SU51
187	*	Land at Hillside	4.62	4.60	475700	150900	186	SU75
188	*	Land at Little Rye Farm	1.48	1.50	477500	150300	186	SU75
191	*	Part of Kingsley Common	1.94	1.90	480100	138300	186	SU83
192		Land at Odiham Common	0.17	0.00	475000	153500	186	SU75
193		Land near Odiham Common	0.06	0.00	474900	152500	186	SU75
194	*	Land near Broad Oak/Rye Farm	35.82	35.80	478000	150400	186	SU75
199	*	Upper Ashley Common	3.04	3.00	425800	95900	195	SZ29
207		Empshott Green	0.12	0.00	474800	131000	186	SU73
210		Land at Bramshott	0.03	0.00	484300	132900	186	SU83
219		Sandleheath Allotments	0.37	0.00	412400	114800	195	SU11
220		Land in W of Stockbridge	0.40	0.00	435600	135200	185	SU33
221	*	Westmoor Common	27.02	27.00	414100	105500	195	SU10
222	*	Part of Ludshott Common	2.43	2.40	484400	134700	186	SU83
223	*	Part of Bransbury Common	3.24	3.20	441200	141200	185	SU44
224		Part of Stockbridge Down	0.81	0.00	437800	135300	185	SU33
225	*	Part of Bramshott Common	17.00	17.00	486000	134400	186	SU83
227	*	Part of Selborne Common	1.05	1.10	474100	133300	186	SU73
228		The Pit	0.53	0.00	430300	124300	185	SU32
230	*	Recreation Ground	1.87	1.90	447900	122600	185	SU42
231		Land at Lower Whiteflood Farm	0.06	0.00	453400	123300	185	SU52
232		Pond at Stag Lane, Owlesbury	0.07	0.00	451500	124400	185	SU52
233		Land at Whadden Lane	0.02	0.00	451300	122900	185	SU52
234		Land opposite Ship Inn, Owlesbury	0.01	0.00	451300	123400	185	SU52
239		Part of Binswood Common	0.36	0.00	476800	137800	186	SU73
240		Pennington/Upper Pennington Commons	0.31	0.00	430100	95500	196	SZ39
241		The Pond	0.19	0.00	433000	147300	185	SU34
243	*	Hightown Common	1.34	1.35	417400	104900	195	SU10
244	*	The Butts	1.71	1.70	471300	138600	186	SU73
248		Land west of Passfield Common	0.61	0.00	480700	134000	186	SU83
249		Land at Little London Road	0.03	0.00	462400	161200	175	SU66
250		Land at Little London Road	0.32	0.00	462400	160700	175	SU66
251		Land at Little London Road	0.08	0.00	462500	160800	175	SU66
252		Land at Upper Inhams Copse	0.36	0.00	462300	161700	175	SU66
253		Land at Flexditch	0.06	0.00	462600	161700	175	SU66

254		Land at Three Ashes	0.10	0.00	463700	161200	175	SU66
255		Land near St. Marys Church	0.08	0.00	464300	162300	175	SU66
257	*	Playing Field, Silchester Common	2.58	2.50	462700	162700	175	SU66
259		Part of Hook Common	0.23	0.00	471600	153700	186	SU75
261		Part of Hams Common	0.28	0.00	414600	98700	195	SZ19
262		Tadley Pond	0.08	0.00	460400	161400	175	SU66
263		Holt Green	0.23	0.00	466200	139200	185	SU63
264		Former pond, Bentworth	0.10	0.00	466400	140400	185	SU64
265		Star Green	0.15	0.00	466500	140200	185	SU64
267		Part of Plaitford Wood Common	0.06	0.00	427800	121700	184	SU22
268		Part of Plaitford Common	0.21	0.00	428400	119300	184	SU21
270		Part of Westfield Common	0.14	0.00	446600	107300	196	SU40
271		Pond Green	0.29	0.00	448300	106700	196	SU40
272		Hamble Hard	0.03	0.00	448500	106700	196	SU40
277	*	Land west of Moortown	11.54	11.50	414800	104600	195	SU10
278	*	Land near Hoe Gate	6.48	6.50	462800	113000	196	SU61
279		The Pond	0.06	0.00	463200	149200	185	SU64
280	*	Land at Shaldon Green	3.24	3.20	469900	143500	186	SU64
281	*	Part of Hoegate Common	1.42	1.40	462600	112900	196	SU61
283		Ropley Pond	0.08	0.00	464800	131900	185	SU63
286	*	Land W of Lower Daggons	12.68	12.70	409600	113500	195	SU01
287	*	Part of Portsdown Hill	9.64	9.60	462100	106700	196	SU60
288		Part of Lopshill Common (2 parts)	0.89	0.00	409100	113700	195	SU01
289	*	Land to south of Bartley	1.42	1.40	431300	112400	196	SU31
290	*	Land west of Cadnam	2.34	2.30	429400	113600	196	SU21
293		Road triangle at Tignals	0.17	0.00	482400	137800	186	SU83
295		Holt Pound	0.39	0.00	481500	143700	186	SU84
298		Land north of Stockbridge Down	0.57	0.00	438300	135300	185	SU33
299	*	Verge north of Hurstbourne Tarrant	2.30	2.30	438800	155000	185	SU35
300		Wangfield Pond	0.02	0.00	452400	114300	196	SU51
302		The Chalk Pits	0.92	0.00	437500	145300	185	SU34
304	*	Part of Broxhead Common	1.42	1.40	480200	136600	186	SU83
305		Frogmore	0.85	0.00	484300	160200	175	SU86
306		Redenham Chalk Pit	0.44	0.00	430100	149500	185	SU34
307	*	Part of Compton Down (Shawford)	16.09	16.10	446000	127200	185	SU42
308	*	Moulsham Green	4.58	4.60	480600	161000	175	SU86
310		The Chalk Pit	0.17	0.00	430600	147600	185	SU34
315		Reedy Pond	0.05	0.00	475600	145600	186	SU74
318	*	Weston Common	2.43	2.40	469800	143800	186	SU64
324	*	Part of River Test and banks	8.09	8.10	444800	145400	185	SU44
	*	Land near River Test	4.43	4.40	444500	144800		
	*	Part of Hurstbourne Common					185	
	*							
325 327 329	*	Land near River Test					185	SU44 SU35 SU11

ISLE OF WIGHT

1	2	3	4	5	6	7	8	9
1		E of Brightstone Shute crossroads	0.30	0.00	442100	84500	196	SZ48
2		Old Pound near Rectory Stables	0.10	0.00	442900	82600	196	SZ48
3	*	Colwell Common	1.79	1.79	432900	87500	196	SZ38
5		Nettlestone Green	0.20	0.00	462400	90800	196	SZ69
6		Jubilee Pump at Middleton	0.10	0.00	433400	86400	196	SZ38
7		Sheepwash	0.10	0.00	433400	86500	196	SZ38
8	*	Part of Tennyson Down	4.30	4.30	434000	85500	196	SZ38
9		The Turf Walk	0.40	0.00	432400	87000	196	SZ38
10		War Memorial in Totland	0.20	0.00	432500	86800	196	SZ38
13	*	Manorial Waste in Freshwater	2.00	2.00	433600	86900	196	SZ38
16		Little Hardingshute	0.10	0.00	459200	88300	196	SZ58
17		Morton Common	0.20	0.00	460200	85600	196	SZ68

18		The Green	0.80	0.00	448500	79800	196	SZ47
20	*	St. Helens Green, Ryde	4.60	4.60	462700	89000	196	SZ68

APPENDIX 2

HAMPSHIRE AND ISLE OF WEIGHT

LIST OF SPECIES MENTIONED IN REPORT AND SITE DESCRIPTIONS

Vascular Plants, Ferns, Horsetails, Bryophytes, Lichens etc.

Note: The occurrence of a species in this list does not necessarily indicate the existence of a confirmed biological record). Nomenclature for higher plants follows that of Stace, C.A. 1991. Priority Species of the UK Biodiversity Action Plan (UK Biodiversity Group, 1998) are given in **bold type.**

Acer campestreField mapleA. pseudoplatanusSycamoreAchillea millefoliumYarrowA. ptarmicaSneezewort

Acinos arvensis see Clinopodium acinos
Adoxa moschatellina Moschatel/townhall clock
Acapandium padagraria Ground elder

Aegopodium podagraria Ground elder Aesculus hippocastanum Horse chestnut Agrimonia eupatoria Agrimony Agrostis canina Velvet bent A. capillaris Common bent A. curtisii Bristle bent A. stolonifera Creeping bent A. tenuis see A. capillaris A. vineale Brown bent

Ajuga reptans

Alliaria petiolata

Bugle

Jack by the hedge

Allium ursinum

A. vineale

Alnus glutinosa

Ramsons

Wild onion

Alder

Alopecurus pratensisMeadow foxtailAnacamptis pyramidalisPyramidal orchidAnagallis tenellaBog pimpernelAnemone nemorosaWood anemone

Angelica sylvestrisAngelicaAnthoxanthum odoratumSweet vernal grassAnthriscus sylvestrisCow parsleyAnthyllis vulnerariaKidney vetchApium nodiflorumFool's watercressArabis hirsutaHairy rock-cress

Arctium minus

Armoracia rusticana

Arrhenatherum elatius

Artemisia vulgaris

Arthonia vinosa

Horseradish

False oat grass

Mugwort

Lichen

Arum italicum Italian Lords and Ladies

A. maculatum

Asperula cynanchica

Asplenium scolopendrium

Athyrium filix-femina

Aulocomnium palustre Barbarea vulgaris

Betonica officinalis

Betula pendula

B. pubescens Bidens cernua

B. tripartita

Blackstonia perfoliata

Blechnum spicant

Blysmus compressus Bolboschoenus maritimus

Botrychum lunaria

Brachypodium sylvaticum

Brachythecium albicans

Briza media

Bromopsis erecta

B. ramosa

Bromus erectus

B. ramosus

Buddleja sp.

Calamintha ascendens

Callitriche stagnalis

Calliergon cuspidatum

C. giganteum

Calluna vulgaris

Caltha palustris

Campanula glomerata

C. rotundifolia

Campylopus flexuosus

C. introflexus

C. pyriformis

Capsella bursa-pastoris

Cardamine amara

C. pratensis

Carduus nutans

Carex acutiformis

C. binervis

C. caryophyllea

C. demissa

C. distans

C. disticha

C. echinata

C. flacca

C. hirta

C. hostiana C. humilis

C. lepidocarpa

C. montana

C. nigra

C. otrubae

C. ovalis

Lords and ladies/cuckoo pint

Squinancywort

see Phyllitis scolopendrium

Lady fern A moss

Winter cress/yellow rocket

see Stachys officinalis

Silver birch Downy birch

Nodding bur marigold

Tripartite bur marigold

Yellow wort

Hard fern

Broad blysmus

Sea club-rush

Moonwort

Wood false brome

A moss

Quaking grass

Upright brome

Hairy brome

see Bromopsis erecta

see Bromopsis ramosa

Buddleja

Water starwort

A moss

Heather/ling

Marsh marigold

Clustered bellflower

Harebell

A moss

A moss

A moss

Shepherd's purse

Large Bitter-cress

Lady's smock/cuckoo flower

Musk Thistle

Lesser pond sedge

Green-ribbed sedge

Spring sedge

see C. viridula subsp. oedocarpa

Distant sedge

Brown sedge

Star sedge

Glaucous sedge Hairy sedge

Tawny sedge

Dwarf sedge

Soft-leaved sedge

Common sedge

False fox sedge

Oval sedge

C. panicea
 C. paniculata
 C. pendula
 C. pilulifera
 Carnation sedge
 Greater tussock sedge
 Pendulous sedge
 Pill sedge

C. pseudocyperus Cyperus sedge/hop sedge

C. pelicaris
C. pulicaris
Flea sedge
C. remota
Remote sedge
C. riparia
Greater pond sedge
C. rostrata
Bottle sedge
C. sylvatica
Wood sedge
C. viridula subsp. oedocarpa
Yellow sedge

C. viridula subsp. oedocarpa

Carpinus betulus

Castanea sativa

Catabrosa aquatica

Yellow sedge

Hornbeam

Sweet chestnut

Water whorl grass

Catabrosa aquaticaWater whorl grassCentaurea nigraBlack knapweedCentaurium erythraeaCentaury

C. pulchellum

Centhranthus ruber

Cephalanthera damasonium

Lesser centaury

Red valerian

White helleborine

Cerastium arvense Field mouse-ear
Common mouse ear

C. fontanum Common mouse-ear
Ceratodon purpureus
Chamaemelum nobile Chamomile

Chamerion angustifoliumRose-bay willow-herbChelidonium majusGreater celandine

Chenopodium polyspermum Many-seeded Goosefoot

C. rubrum Red goosefoot

Chrysanthemum leucanthemum see Leucanthemum vulgare
Chrysosplenium alternifolium Alternate-leaved golden saxifrage

C. oppositifolium Opposite-leaved golden saxifrage Circaea lutetiana Enchanter's nightshade

Cirsium acauleDwarf thistleC. arvenseCreeping thistleC. dissectumMeadow thistleC. vulgareSpear thistle

Cladonia chlorophaeaA lichenClaytonia sibiricaPink purslaneClematis vitalbaOld man's beardClinopodium acinosBasil-thymeCoeloglossum virideFrog orchidConopodium majusPignut

Convolvulus arvensis Field bindweed
Conyza canadensis Canadian fleabane

Cornus sanguineaDogwoodCorylus avellanaHazelCrambe maritimaSea kale

Crassula helmsii New Zealand pigmyweed

Crataegus monogynaHawthornCruciata laevipesCrosswortCuscuta epithymumDodder

Cynosurus cristatus Crested dog's tail

Cypressus sp.CypressusCytisus scopariusBroomDactylis glomerataCocksfoot

Dactylorhiza fuchsii Common spotted orchid

D. incarnata

D. maculata subsp. ericetorum

D. praetermissa
Danthonia decumbens
Daphne laureola
Daucus carota

Deschampsia caespitosa

D. flexuosa

Dicranella heteromalla Dicranum scoparium Digitalis purpurea Dipsacus fullonum

Drepanocladus exannulatus

(var. fluitans)

Drosera intermedia D. rotundifolia

Dryopteris carthusiana

D. dilatata
D. filix-mas
Echium vulgare
Eleocharis uniglumis
Enterographa crassa

Epilobium hirsutum

Epipactus helleborine

E. palustrisE. phyllanthes

E. purpurata
Equisetum fluviatile
E. telemateia
Erica cinerea
E. tetralix

Eriophorum angustifolium

Euonymus europaeus

Eupatorium cannabinum Euphorbia amygdaloides

E. helioscopia Euphrasia agg.

Eurynchium praelongum Evernia prunastri Fagus sylvatica

Fallopia japonica

Festuca gigantea F. ovina

F. rubra
F. rubra
Filago minima
Filipendula ulmaria

F. vulgaris

Fissidens vulgaris

Fragaria vesca Frangula alnus

Fraxinus excelsior

Galeobdolon luteum Galeopsis tetrahit Galium aparine

G. constrictum spp. elongatum

Early marsh orchid Heath spotted orchid Southern marsh orchid

Heath grass Spurge-laurel Wild carrot Tufted hair grass Wavy hair grass

A moss
A moss

Foxglove Teasel A moss

Long-leaved sundew Round-leaved sundew Narrow buckler fern Broad buckler fern

Male fern
Viper's bugloss
Slender spike rush

Lichen

Great willow herb

Broad-leaved helleborine

Marsh helleborine

Green-flowered helleborine

Violet helleborine Water horsetail Giant horsetail Bell heather

Cross-leaved heath Common cotton grass

Spindle

Hemp agrimony Wood spurge Sun spurge Eyebright A moss A lichen Beech

Japanese knotweed Giant fescue Sheep's fescue Red fescue Small cudweed Meadowsweet

Dropwort A moss

Wild strawberry Alder buckthorn

Ash

Yellow archangel Common hemp nettle

Cleavers

Slender Marsh-bedstraw

G. mollugo
G. odoratum
G. palustre
G. saxatile
G. uliginosum
G. verum

Gaultheria shallon Genista anglica G. tinctoria

Gentiana pneumonanthe
Gentianella anglica
Geranium molle
G. robertianum
Geum rivale
G. urbanum

Glechoma hederacea Glyceria fluitans G. maxima

Gnaphalium uliginosum Halimione portaculoides

Hedera helix H. nummularium Helictotrichon spp. Helleborus foetidus Heracleum sphondylium

Hieracium sp.
Hippocrepis comosa
Holcus lanatus
H. mollis
Hordelium sp.

Hordelymus europaeus Hyacinthoides non-scripta Hydrocotyle vulgaris Hypericum androsaemum

H. elodes H. perforatum H. pulchrum H. tetrapterum

Hypnum cupressiforme

H. imponens
H. jutlandicum
H. mammilatum
Hypochaeris radicata
Ilex aquifolium
Impatiens capensis
I. glandulifera
Iris pseudacorus

J. bufonius
J. bulbosus
J. compressus
J. conglomeratus

Juncus acutiflorus

Isolepis setacea

J. effusus J. inflexus Hedge bedstraw Woodruff Marsh bedstraw Heath bedstraw Fen bedstraw Lady's bedstraw

Shallon

Petty whin Dyer's greenweed Marsh gentian **Early Gentian**

Dove's foot cranesbill

Herb robert Water avens

Wood avens/herb bennet

Ground ivy

Floating sweet grass Reed sweet grass Marsh cudweed Sea purslane

Ivy

Common rock rose

Oat-grasses

Stinking hellebore

Hogweed Hawkweeds Kidney vetch Yorkshire fog Creeping soft grass

Wood Barley Bluebell

Marsh pennywort

Tutsan

Marsh St.John's wort Perforate St.John's wort Slender St.John's wort

Square-stalked St.John's wort

A moss A moss A moss

Common cat's ear

Holly

Orange balsam Indian balsam Yellow flag Bristle club rush Sharp-flowered rush

Toad rush Bulbous rush

Round-fruticosus rush

Compact rush Soft rush Hard rush J. subnodulosus

Juniperus communis

Koeleria cristata K. macrantha Knautia arvensis

Lamiastrum galeobdolon

Lamium album
Lapsana communis
Larix decidua
Lathraea squamaria
Lathyrus aphaca
L. pratensis
Lemna minor

Leontodon autumnalis

L. hispidus

Leucanthemum vulgare Leucobryum glaucum Ligustrum vulgare Limonium vulgare

Limonium vulgare Linaria vulgaris Linum bienne

Linum bienne L. catharticum Listera ovata Lolium perenne

Lonicera periclymenum Lophocolia bidentata Lotus corniculatus

L. pedunculatus L. uliginosus Luzula campestris

L. pilosa

Lychnis flos-cuculi Lycopus europaeus Lysimachia nemorum

Lysimachia nemorum L. vulgaris Lythrum salicaria

Malus domestica M. sylvestris Malva sylvestris Melampyrum pratense Melica uniflora

Melilotus officinalis
Mentha aquatica
M. arvensis
M. x smithiana
Menyanthes trifoliata
Mercurialis perennis
Milium effusum

Mimulus guttatus Mnium hornum M. punctatum M. stellare M. undulatum Moehringia trinervia

Moenchia erecta

Blunt-flowered rush

Juniper

see *K. macrantha*Crested hair grass
Field scabious

see Galeobdolon luteum

White dead nettle Nipplewort Larch Toothwort

Yellow vetchling Meadow vetchling

Duckweed

Autumn hawkbit Rough hawkbit Ox-eye daisy A moss

Common sea lavender Common toadflax

Pale flax
Fairy flax
Twayblade

Wild privet

Perennial rye grass Honeysuckle Liverwort

Bird's foot trefoil

Greater bird's foot trefoil see *L. pedunculatus*Field wood rush
Hairy woodrush
Ragged robin
Gypsywort
Yellow pimpernel

Yellow loosestrife Purple loosestrife Apple

Crab apple
Common mallow
Common cow-wheat

Ribbed melilot Water mint Corn mint Tall mint Bogbean Dog's mercury Wood millet Monkey flower

Wood melick

A moss A moss A moss

Three-veined sandwort Upright chickweed

Molinia caerulea Myosotis sp. Myrica gale Myriophyllum sp. Narcissus sp. Nardia scalaris Nardus stricta

Narthecium ossifragum Neottia nidus-avis Nuphar lutea Nymphaea alba Odontites verna Odontites vernus Oenanthe crocata O. fistulosa Oenothera biennis Onobrychis viciifolia

Ophioglossum vulgatum

Ononis repens

Ophrys apifera
O. insectifera
Orchis mascula
O. morio
O. ustulata
Origanum vulgare
Ornithopus perpusillus

Orobanche artemisiae-campestris

(formerly O. picridis)
Oxalis acetosella
Pachyphiale cornea
Papaver sp.

Paris quadrifolia
Pastinacea sativa
Pedicularis palustris

P. sylvatica Pellia epiphylla Persicaria hydropiper

P. maculosa Phalaris aru

Phalaris arundinacea
Phleum pratense
Photinia davidiana
Phragmites australis
Phyllitis scolopendrium

Phyteuma orbiculare (formerly tenerum)

Picris echioides Pimpinella saxifraga Pinus radiata P. sylvestris

Plagiomnium undulatum Alisma plantago-aquatica

P. coronopus P. lanceolata P. major

Platanus x hispanica Pleurozium schreberi Purple moor grass Forget-me-not Bog myrtle Water milfoil Narcissus

Mat grass Bog asphodel Bird's nest orchid Yellow water lily White water lily see *O. vernus* Red bartsia

Hemlock water dropwort Tubular water dropwort Common evening primrose

Sainfoin Restharrow

Adder's tongue fern

Bee orchid Fly orchid

Early purple orchid Green-winged orchid Burnt-tip orchid Marjoram Bird's foot

Oxtongue Broomrape

Wood sorrel Lichen Poppy Herb Paris Wild parsnip Marsh lousewort Wood lousewort

A lichen Water-pepper Redshank Reed canary grass

Timothy grass Stranvaesia Common reed Hart's tongue fern Round-headed Rampion Bristly ox-tongue

Bristly ox-tongue Burnet saxifrage Monterey pine Scots pine A moss Water-plantain

Water-plantain Buck's horn plantain Ribwort plantain Great plantain London plane

A moss

Poa annuaAnnual meadow grassP. trivialisRough meadow grassPolygala calcareaChalk milkwortP. serpyllifoliaHeath milkwortP. vulgarisMilkwortPolyganatum multiflorumSolomon's Sool

Polygonatum multiflorum
Polygonum hydropiper
Solomon's Seal
see Persicaria i

Polygonum hydropiper see Persicaria hydropiper
P. persicaria see Persicaria maculosa
Polypodium interiectum Western polypody

Polypodium interjectumWestern polypodyP. vulgareCommon polypodyPolystichum setiferumSoft shield fern

Polytrichum communeA mossP. formosumA mossP. juniperinumA mossPopulus tremulaAspen

Potamogeton natans Broad-leaved pondweed

P. polygonifoliusBog pondweedPotentilla anserinaSilverweedP. erectaTormentilP. rupestrisRock cinquefoilP. sterilisBarren strawberry

Poterium sanguisorba minor see Sanguisorba minor

Primula veris Cowslip Primrose P. vulgaris Prunella vulgaris Self heal Wild cherry Prunus avium P. laurocerasus Laurel P. spinosa Blackthorn Pseudoscleropodium purum A moss Pteridium aquilinum Bracken

Pulicaria dysentericaFleabaneQuercus roburPedunculate oakQ. petraeaSessile oakQ. cerrisTurkey oak

Ranunculus acris Meadow buttercup R. aquatilis Water crowfoot R. auricomus Goldilocks Buttercup R. bulbosus Bulbous buttercup Lesser celandine R. ficaria R. flammula Lesser spearwort R. repens Creeping buttercup Reseda lutea Wild mignonette

Rhamnus catharticaBuckthornRhamnus catharticussee R. catharticaRhinanthus minorYellow rattleRhododendron ponticumRhododendron

Rhytidiadelphus squarrosusA mossRibes uva-crispaGooseberryRosa arvensisField roseR. caninaDog roseRorippa nasturtium-aquaticumWatercress

Rorippa nasturtium-aquaticum

Rubus caesius

R. fruticosus agg.

R. idaeus

Raspberry

Rumex acetosa

Watercress

Dewberry

Rramble

Raspberry

Sorrel

R. acetosellaSheep's sorrelRuscus aculeatusButcher's broomSagina apetalaAnnual pearlwortS. nodosaKnotted pearlwort

Salicornia sp.GlasswortsSalix cinereaGrey willowS. fragilisCrack willowS. purpureaPurple willowS. repensCreeping willowS. x chrysocomaWeeping willow

Sambucus nigra Elder

Sanguisorba minorSalad burnetSanicula europeaSanicleScabiosa columbariaSmall scabious

Scirpus lacustris Common club rush/bulrush
S. maritimus see Bolboschoenus maritimus

S. setaceus see Isolepis setacea
S. sylvaticus Wood club rush

Scrophularia nodosa Common figwort
Scutellaria galericulata Skullcap

Scutellaria galericulataSkullcapS. minorLesser skullcapSenecio aquaticusMarsh ragwortS. erucifoliusHoary ragwortS. integrefoliusField fleawort

S. jacobaea Ragwort
S. sylvaticus Heath groundsel
Sequoia sempervirens Redwood
S. wellingtonia Wellingtonia

S. wellingtonia Wellingtoni Serratula tinctoria Saw wort Sieglingia decumbens A moss

Silaum silausPepper saxifrageSilene albaWhite campionS. dioicaRed campionS. maritimaSea campionS. vulgarisBladder campionSolanum dulcamaraBittersweetSolidago virgaureaGolden rod

Sonchus asper Prickly sow thistle

Sorbus aria Whitebeam S. aucuparia Rowan

Sparganium erectumBranched bur reedSpergularia rubraSand SpurreySphagnum auriculatumA bogmossS. capillifoliumA bogmoss

S. capillifolium
S. compactum
A bogmoss
S. cuspidatum
A bogmoss
S. imbricatum
A bogmoss
S. palustre
A bogmoss
S. papillosum
A bogmoss
S. recurvum var. amblyphyllum
A bogmoss

S. recurvum var. mucronatum
S. subnitens
A bogmoss
A bogmoss
Spiraea sp.
Brideworts

Spiranthes spiralis Autumn ladies tresses

Stachys officinalis Betony

S. palustrisMarsh woundwortS. sylvaticaHedge woundwortStellaria alsineBog stitchwortS. gramineaLesser stitchwortS. holosteaGreater stitchwortS. mediaChickweed

Stenocybe septata
Succisa pratensis
A lichen
Devil's bit scabious

Sueda maritima
Sueda maritima
Annual seablite
Symphoricarpos albus
S. rivularis
S. rivularis
Symphytum officinale
Comfrey

Taxacorum sp. Dandelion
Taxus baccata Yew
Tetraphis pellucida A moss
Teucrium scorodonia Wood sage
Thalictrum flavum Meadow rue
Thelotreme lepadinum A lichen
Thesium humifusum Bastard toadflax

Thuidium tamariscinumA mossThymus druceiThymeTilia sp.Lime

Torilis japonicaUpright hedge parsleyTrifolium arvenseHare's foot cloverT. campestreHop TrefoilT. fragiferumStrawberry cloverT. pratenseRed cloverT. repensWhite cloverTriglochim palustrisMarsh arrow grass

Tripleurospermum maritimum
Scentless mayweed
Trisetum flavescens
Tsuga heterophylla
Western hemlock
Tussilago farfara
Coltsfoot

Tussilago farfara Coltsfoot Typha latifolia Bulrush/cat's-tail

Ulex europaeusGorseU. minorDwarf gorseUlmus carpinifoliasee Ulmus minorUlmus minorSmall-leaved Elm.U. proceraEnglish elm

U. procera English elm U. sarniensis Jersey Elm Stinging nettle Urtica dioica Vaccinium myrtillus Bilberry Cranberry V. oxycoccus Valeriana dioica Marsh valerian Dark Mullein Verbascum nigrum V. thapsus Great mullein

Veronica beccabunga

Vehamandrys

Great muliem

Brooklime

Vehamandrys

Germander speedw

V. chamaedrysGermander speedwellV. hederifoliaIvy-leaved speedwellV. montanaWood speedwellV. serryllifoliaThyme leaved speedwell

V. serpyllifolia Thyme-leaved speedwell

Viburnum lantanaWayfaring treeV. opulusGuelder roseVicia craccaTufted vetchV. sativaCommon vetch

Viola caninaHeath dog violetV. hirtaHairy violetV. palustrisMarsh violet

V. riviniana Common dog violet

V. serpyllifoliaV. spicataSpeedwellWood speedwell

Birds

Accipiter nisusSparrowhawkAcrocephalus schoenobaenusSedge warblerAcrocephalus scirpaceusReed warblerAegithalos caudatusLong-tailed titAix galericulataMandarin duckAlauda arvensisSkylark

Alcedo atthis Kingfisher
Alectoris rufa Red-legged partridge

Alectoris rufa Red-legged partridg
Anas platyrhynchos Mallard

Anthus pratensis Meadow pipit Anthus trivialis Tree pipit Swift Apus apus Ardea cinerea Heron Arenaria interpres Turnstone Asio flammeus Short-eared owl Athene noctua Little owl Aythya fuligula Tufted duck

Athene noctuaLittle owlAythya fuligulaTufted duckBranta canadensisCanada gooseBurhinus oedicnemusStone Curlew

Buteo buteoBuzzardCaprimulgus europaeusNightjarCarduelis cannabinumLinnetCarduelis carduelisGoldfinchCarduelis chlorisGreenfinchCarduelis flammeaRedpollCarduelis spinusSiskin

Carduelis spinusSiskinCerthia familiarisTree creeperCharadrius hiaticulaRinged ploverCircus cyaneusHen harrierCircus pygargusMontagu's harrier

Coccothraustes coccothraustes

Columba oenas

Columba palumbus

Corrier order

Corvus coroneCarrion crowCorvus frugilegusRookCorvus monedulaJackdawCoturnix coturnixQuailCuculus canorusCuckooCygnus olorMute swanDelichon urbicaHouse martin

Dendrocopus majorGreat spotted woodpeckerDendrocopus minorLesser-spotted woodpecker

Emberiza cirlusCirl BuntingEmberiza schoeniclusReed BuntingEmberiza citrinellaYellowhammer

Erithacus rubeculaRobinFalco columbariusMerlinFalco subbuteoHobbyFalco tinnunculusKestrel

Ficedula hypoleucaPied flycatcherFringilla coelebsChaffinchFringilla montifringillaBramblingFulica atraCootGallinago gallinagoSnipeGallinula chloropusMoorhen

Garrulus glandariusJayHaematopus ostralegusOystercatcherHirundo rusticaSwallow

Lanius excubitorGreat grey shrikeLarus ridibundusBlack-headed gullLocustella naeviaGrasshopper warbler

Loxia curvirostraCrossbillLullula arboreaWoodlarkLuscinia megarhynchosNightingaleMotacilla albaPied wagtailMotacilla cinereaGrey wagtail

Muscicarpa striata Spotted Flycatcher

Oenanthe oenanthe Wheatear Coal tit Parus ater Parus caerulea Blue tit Great tit Parus major Parus montanus Willow tit Parus palustris Marsh tit Passer domesticus House sparrow Passer montanus **Tree Sparrow** Perdix perdix Partridge Phasianus colchicus Pheasant Phoenicurus phoenicurus Redstart Phylloscopus collybita Chiffchaff Phylloscopus sibilatrix Wood warbler Phylloscopus trochilus Willow warbler

Pica picaMagpiePicus viridisGreen woodpeckerPrunella modularisDunnock (hedge sparrow)

Pyrrhula pyrrhula **Bullfinch** Rallus aquaticus Water rail Regulus regulus Goldcrest Saxicola rubetra Whinchat Saxicola torquata Stonechat Scolopax rusticola Woodcock Sitta europaeus Nuthatch Streptopelia decaocto Collared dove Streptopelia turtur **Turtle Dove** Strix aluco Tawny owl Sturnus vulgaris Starling Sylvia atricapilla Blackcap Sylvia borin Garden warbler Sylvia communis Whitethroat

Sylvia communis

Sylvia corruca

Sylvia undata

Whitethroat
Lesser whitethroat
Dartford warbler

Tachybaptus minutus Tringa totanus

Troglodytes troglodytes
Turdus iliacus
Turdus merula
Turdus philomelus
Turdus pilaris
Turdus torquatus
Turdus viscivorus
Tyto alba

Little grebe
Redshank
Wren
Redwing
Blackbird
Song thrush
Fieldfare
Ring ousel
Mistle thrush
Barn owl
Lapwing

Other vertebrates

Vanellus vanellus

Arvicola terrestris
Capreolus capreolus
Cervus dama
Lepus capansis
Meles meles

Muscardinus avellanarius Mustela erminea Oryctolagus cuniculus Sciurus carolinensis Sorex araneus Sorex minutus Talpa europaea Vulpes vulpes

Bufo bufo Rana temporaria **Triturus cristatus** Triturus helveticus

Triturus neiveticus Triturus vulgaris

Anguis fragilis Lacerta vivipara Natrix natrix Vipera berus

Lacerta agilis

Aeshna cyanea

Invertebrates Insects

Odonata (dragonflies)

Anax imperator
Ceriagrion tenellum
Cordulegaster boltonii
Cordulia aenea
Enallagma cyathigerum
Erythromma najans
Orthetrum coerulescens

Water Vole

Roe deer
Fallow deer
Brown Hare
Badger
Dormouse
Stoat
Rabbit
Grey squirrel

Grey squirrel Common shrew Pygmy shrew Mole

Fox

Common toad Common frog

Great Crested Newt

Palmate newt Smooth newt

Slow worm Common lizard Grass snake Adder

Smooth snake **Sand Lizard**

Southern hawker Emperor dragonfly Small red damselfly Golden ringed dragonfly

Downy emerald

Common blue damselfly

Keeled skimmer

Pyrrhosoma nymphula

S. sanguineum

S. striolatum

Large red damselfly

Ruddy darter

Common darter

Dark blue damselfly

Yellow dragonfly

Lepidoptera (butterflies and moths)

Aglais urticae

Anthocaris cardamines

Apatura iris

Aphantopus hyperantus

Argynnis aglaja

Argynnis paphia Aricia agestis

Callophrys rubi

Celastrina argiolus Coenonympha pamphilus

Cupido minimus Cynthia cardui

Erynnis tages Eurodryas aurinia Gonepteryx rhamni

Hamearis lucina **Hesperia comma**

Hipparchia semele

Inachis io Ladoga camilla

Lasiommata megera Lycaena phlaeas Lysandra coridon

Maniola jurtina Melanargia galathea Ochlodes venata

Pararge aegeria Pieris brassicae

Pieris napi

Pieris rapae

Plebejus argus

Polygonia c-album Polyommatus icarus Pyrgus malvae

Pyrhonia tithonius
Quercusia quercus
see Gatekeeper

Thymelicus lineola Thymelicus sylvestris

Vanessa atalanta

Lysandra bellargus

Small tortoishell

Orange tip

Purple emperor

Ringlet

Dark green fritillary

Silver-washed fritillary

Brown argus Green hairstreak

Holly blue

Small heath

Small blue

Painted lady Dingy skipper

Marsh fritillary

Brimstone

Duke of burgundy

Silver-spotted Skipper

Grayling

Peacock

White admiral

Wall brown

Small copper

Chalkhill blue Meadow brown

Marbled white

- willed willte

Large skipper

Speckled wood

Large white

Green-veined white

Small white

Silver-studded blue

Comma

Common blue

Grizzled skipper

Gatekeeper

Purple hairstreak Hedge brown

Essex skipper

Small skipper

Red admiral

Cabbage white

Adonis Blue

Beautiful yellow underwing

Anarta myrtilli

Callimorpha jacobaea

Entephria flavicintata

Idaea dilutaria Lasiocampa quercus Macrothylacia rubi

Microdon mutabilis

Saturnia pavonia Stenoptila graphodactyla

Tyria jacobaeae

Micromoths

Melangyna artica Sphaerophoria taeniata Synanthedon spheciformis

Orthoptera (grasshoppers and crickets)

Chorthippus parallelus Chorthippus brunneus Conocephalus discolor

 $Conocephalus\ discolor$

Meconema thalassinum Metrioptera brachyptera Myrmeleotettix maculatus

Myrmeteotettix macutatu. Omocestus viridulus

Pholidoptera griseoaptera

Tetrix undulata

Tettigonia viridissima

Yellow-ringed carpet moth

Silky wave oak eggar Fox moth

Emperor moth

Cinnabar moth

Meadow grasshopper Field grasshopper

Oak bush cricket Bog bush cricket

Common green grasshopper

Dark bush cricket Common groundhopper

Diptera (flies)

Callicera aenea

Conopid fly Conops ceriaeformis Dysmachus trigonus Robberfly Ephemera danica Mayfly Episyrphus balteatus Hoverfly Eristalis arbustorum Hoverfly E. horticola Hoverfly Hoverfly E. nemorum Hoverfly E. pertinax E. tenax Hoverfly Limonia fusca Cranefly

Manota unifurcata

Conopid fly Myopa fasciata Parasite fly Ocyptera interrupta Parasyrphus vittiger Hoverfly Physocephala rufipes Conopid fly Platycheirus clypeatus Hoverfly Hoverfly Rhingia campestris Scaerea pyrastri Hoverfly Sericomya vilentis Hoverfly Sialis lutaria Alder fly Sphaerophoria scripta Hoverfly Sphegina clunipes Hoverfly

Stratiomys potamida Symmerus annulatus Fungus gnat Syrphus vitripennis Hoverfly Parasite fly Tachina grossa Snail-killing fly Tetanocera hylapennis Volucella pelluceris Hoverfly V. zonaria Hoverfly Xylota abiens Hoverfly X. tarda Hoverfly Hymeoptera (ants, bees and wasps) Cleptes nitidulus Echemnius ruficornis Formica fusca Ant Hyaeus gibbus Bee Lasius niger Ant Macropis europaea Myrmica sp. Ant Tapinoma erraticum Wood ant Coleoptera (beetles) Chrysolina menthastri Leaf beetle Chrysomela populi Ectobius lapponicus Cockroach E. panzeri Cockroach Phyllobrotica quadrimaculata Beetle Phytodecta viminalis Beetle Rove beetle Stenus sp. Strangalia quadrifasciata Beetle Hemiptera (bugs) Plant bugs Isopoda (woodlice) Oniscus asellus Trichoniscus pusillus Myriapoda (Centipedes and Millipedes)

Lithobius variegatus

Agelana labyrinthica Alopecosa accentuata

Araneae (spiders)

51

Centipede

Clubonia trivialis Euophrys frontalis Leioburnum blackwallii

L. rotundum Pardosa sp.

Paroligolophus agrostis

Phalangium apilo Philodromus dispar Pisaura mirabilis Tetra gnatha sp. Thanatus striatus

Tibellus oblongus Trochosa terricola Xyticus cristatus

Molluscs (slugs and snails)

Acicula fusca Azeca goodalli Ena montana Macrogastra rolphii Phenacolimax major Zenobiella subrufescens Harvestmen Harvestmen

Harvestmen Harvestmen

APPENDIX 3

SITE REPORTS FOR SURVEYED COMMONS NOTES

l. Site Cards: Habitat areas

The layout of the site cards from the survey is largely self-explanatory. However, a note concerning the quoted area for individual sites is needed. The areas of habitats within commons were determined using various methods - Calcomp digitizer, Reiss Polarplanimeter or manual counting of lmm graph paper overlays. It must be emphasised that these area estimates do not in all cases summate to the total area of common land as recorded in the registers. Apart from the errors that inevitably occur in deriving such measurements, it should not be assumed that the area as recorded in the registers is a definitive measurement. The survey has drawn attention to numerous, and sometimes gross, inaccuracies. For the surveyed commons, both the registered areas and the measured habitat areas are included on the site cards and in the list of commons - Appendix 1.

2. Survey maps

The Phase 1 vegetation maps are presented mainly at a scale of either 1:10.000, or for larger sites. 1:25.000. In certain cases it has been necessary o slightly reduce the size of the final copy to fit in the report. For some maps the earlier scale of 1:10.560 applies. The boundaries of the survey sites have been checked against the originals held by the registration authority. They are delineated by a bold line. The actual site boundary follows the inside edge of the line, to avoid obscuring habitat information.

The habitats present are indicated using the appropriate Phase 1 alphanumeric. In addition, the vegetation maps have also been annotated with dominant species codes for ericaceous species. These facilitate the easy identification of areas of dwarf shrub vegetation and its composition. The codes are as follows:

Cv Calluna vulgaris Vm Vaccinium myrtillus Et Erica tetralix

En Empetrum ingrum

The survey maps are not otherwise annotated with dominant species codes. The extra detail would make the maps too complex and difficult to interpret. Instead, the dominant species codes are referenced within the vegetation description.

3. Botanical nomenclature

The nomenclature for higher plants used in the vegetation descriptions follows that of: Stace, C.A. **New Flora of the British Isles**, Cambridge University Press, 1991. The English names for plants are not included in the site reports themselves. However, a full list of species noted during the survey is provided in Appendix 2.

APPENDIX 4

CORRESPONDENCE BETWEEN THE UK BIODIVERSITY ACTION PLAN BROAD HABITAT CLASSIFICATION AND THE PHASE 1 HABITAT CLASSIFICATION

Phase 1 Habitats

Broad Habitat Types

A111 Broad-leaved Semi-natural Woodland	1. Broadleaved, mixed and yew woodland
A112 Broad-leaved Plantation	1. Broadleaved, mixed and yew woodland
A121 Coniferous Semi-natural	2. Coniferous woodland
A122 Coniferous Plantation	2. Coniferous woodland
A131 Mixed Semi-natural	1. Broadleaved, mixed and yew woodland
A132 Mixed Plantation	1. Broadleaved, mixed and yew woodland
A21 Dense Scrub	1. Broadleaved, mixed and yew woodland
A22 Scatttered Scrub	Unclassified (subject to context)
A3 Parkland scattered trees	Unclassified (subject to context)
A4 Recently-felled	1. Broadleaved, mixed and yew woodland
B11 Acidic Grassland: Unimproved	8. Acid grassland

B12 Acidic Grassland : Semi-improved
B21 Neutral Grassland : Unimproved
B22 Neutral Grassland : Semi-Improved
B31 Calcareous Grassland Unimproved
B32 Calcareous Grassland Semi-improved
B4 Improved Grassland
B5 Marsh/Marshy Grassland
B5 Marsh/Marshy Grassland
B1 Fen marsh and swam

B5 Marsh/Marshy Grassland
B6 Poor Semi-Improved Grassland
C11 Bracken: Continuous
C12 Bracken: Scattered
S5. Improved grassland
5. Improved grassland
9. Bracken
Unclassified (subject to context)

C22 Upland Species-rich ledges
C31 Other : Tall Ruderal
C32 Other : Non-ruderal
Unclassified (subject to context)
Unclassified (subject to context)

D11 Dry Dwarf Shrub Heath : Acidic
D12 Dry Dwarf Shrub Heath : Basic
D2 Wet Dwarf Shrub Heath
D3 Lichen/Bryophyte Heath
D12 Dry Dwarf Shrub Heath
D3 Lichen/Bryophyte Heath
D3 Lichen/Bryophyte Heath

D5 Dry Heath Acidic Mosaic

8. Acid grassland (part)/10 Dwarf Shrub Heath (part)

8. Acid grassland(part)/10 Dwarf Shrub Heath (part)

8. Acid grassland(part)/10 Dwarf Shrub Heath (part)

E161 Blanket Bog
E162 Raised Bog
E17 Bog : Wet Modified
E18 Bog : Dry Modified
E21 Flush/Spring : Acid/Neutral

12. Bog
12. Bog
12. Bog
12. Bog
12. Bog
13. Bog
14. Bog
15. Bog
15. Bog
16. Bog
17. Bog
18. Bog
19. Bog
19. Bog
19. Bog
19. Bog
19. Bog
10. Bog
11. Fen,

E21 Flush/Spring : Acid/Neutral 11. Fen, marsh and swamp E22 Flush/Spring : Basic 11. Fen, marsh and swamp

E23 Flush/Spring Bryophyte Dominant
E31 Fen: Valley Mire
E32 Fen: Basin Mire
E33 Fen-flood plain
E4 Bare Peat
F1 Swamp

11. Fen, marsh and swamp
L4 Bare Peat
Unclassified (subject to context)
F1 Swamp

12. Fen, marsh and swamp
L4 Bare Peat
Unclassified (subject to context)
L5 Fen, marsh and swamp
L6 Fen, marsh and swamp
L7 Fen, marsh and swamp

F21 Marginal 13. Standing water and canals (part)/14 Rivers and streams

(part)

F22 Inundation

G1 Standing Water G2 Running Water

H11 Intertidal Mud/Sand H12 Intertidal Shingle H13 Intertidal Rocks H23 Saltmarsh /Dunes

H24 Saltmarsh/Plants H26 Saltmarsh/Continuous

H3 Shingle H4 Rock/Boulders H5 Strandline Vegetation H64 Sand Dune/Slack H65 Sand Dune/grassland

H66 Dune Heath H67 Dune Scrub H68 Dune Open

H81 Maritime Cliff Hard H82 Maritime Cliff Soft H83 Crevice/ledge vegetation H84 Coastal/maritime grassland

H85 Coastal heathland

I111 Inland Cliff - Acid/NeutralI112 Inland Cliff - Basic

I121 Scree – Acid/Neutral

I122 Scree – BasicI13 Limestone pavement

I141 Other Exposure - Acidic/Neutral

I142 Other Exposure - Basic I21 Artificial - Quarry I22 Artificial - Spoil I23 Artificial - Mine I24 Artifical - refuse tip

J11 Arable

J12 Amenity grassland J13 Cultivated - ephemeral

J14 Introduced Shrub

J21 Hedges - Intact J22 Hedges - Defunct J23 Hedges - With trees

J26 Dry Ditch
J31 Industrial estate
J32 Military building
J33 Domestic building
J34 Caravan Site
J35 Seawall

J36 Buildings J4 Bare Ground J5 Other Habitats

Source: JNCC

13. Standing water and canals (part)/14 Rivers and streams

(part)

13. Standing water and canals

14. Rivers and streams21. Littoral sediment21. Littoral sediment20. Littoral rock21. Littoral sediment

21. Littoral sediment21. Littoral sediment

19. Supralittoral sediment18. Supralittoral rock19. Supralittoral sediment

19. Supralittoral sediment 19. Supralittoral sediment 19. Supralittoral sediment

19. Supralittoral sediment19. Supralittoral sediment18. Supralittoral rock18. Supralittoral rock

18. Supralittoral rock
18. Supralittoral rock
10. Dwarf shrub heath

16. Inland rock16. Inland rock

16. Inland rock

16. Inland rock

16. Inland rock17. Built up areas and gardens4. Arable and horticultural5. Improved grassland

17. Built up areas and gardens

1. Broadleaved, mixed and yew woodland

3. Boundary and linear features3. Boundary and linear features3. Boundary and linear features3. Boundary and linear features17. Built up areas and gardens17. Built up areas and gardens

17. Built up areas and gardens17. Built up areas and gardens17. Built up areas and gardensUnclassified (subject to context)

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