

**BIODIVERSITY ACTION PLAN
FOR HAMPSHIRE**

VOLUME TWO

HAMPSHIRE BIODIVERSITY PARTNERSHIP

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Basingstoke and Deane Borough Council
British Trust for Conservation Volunteers
Butterfly Conservation
Country Landowners Association
Countryside Agency
East Hampshire District Council
Eastleigh Borough Council
English Nature
Environment Agency
Fareham Borough Council
Farming and Rural Conservation Agency
Farming and Wildlife Advisory Group
Forest Enterprise
Forestry Commission
The Game Conservancy Trust
Gosport Borough Council
Government Office for the South East
Hampshire Association of Parish and Town Councils
Hampshire Business Environment Forum
Hampshire County Council
Hampshire Ornithological Society
Hampshire Wildlife Trust
Hart District Council
Havant Borough Council
Ministry of Agriculture, Fisheries and Food
Ministry of Defence
National Farmers Union
New Forest District Council
Portsmouth City Council
Royal Society for the Protection of Birds
Rushmoor Borough Council
Southampton City Council
Test Valley Borough Council
Winchester City Council

- The following organisations have contributed to the cost of producing this Plan: Hampshire County Council, Environment Agency, Hampshire Wildlife Trust and English Nature.
- Individual action plans have been prepared by working groups involving many organisations and individuals - principal authors are acknowledged in each plan. The preparation of Habitat Action Plans has been co-ordinated by Hampshire County Council, and Species Action Plans by the Hampshire Wildlife Trust.
- Volume Two has been edited and compiled by Jacklyn Johnston, Consultant, on behalf of the Hampshire Biodiversity Partnership.

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FOREWORD

**BIODIVERSITY
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Commitment to biodiversity in Hampshire has grown remarkably since the publication of Volume One of the *Biodiversity Action Plan for Hampshire*. Specific projects for biodiversity have been initiated, district level biodiversity action plans are emerging, and topic groups are developing priority initiatives such as raising education, awareness and involvement and the development of biological recording.

Both the European Commission and the UK Biodiversity Secretariat have shown considerable enthusiasm for the approach taken to conserve biodiversity in Hampshire. For example, the Environment Directorate of the European Commission has co-funded a project investigating indicators for measuring the influence of European policies on biodiversity in Hampshire.

As local biodiversity action plans have evolved in recent years, so too has a greater realisation of their central role in delivering the UK Biodiversity Programme. The UK Biodiversity Secretariat is looking at ways of providing greater support for local biodiversity action plans and harnessing their capacity to help achieve the aims of the UK Programme.

The publication of Volume Two of the *Biodiversity Action Plan for Hampshire* marks an important stage in Hampshire's biodiversity programme. Volume Two contains detailed Habitat, Species and Topic Action Plans.

Each individual action plan has been prepared by a working group involving many organisations. The plans have been subject to extensive consultation to ensure that they are widely supported. Proposed actions set out in the plans are comprehensive, include specific targets, and present a considerable challenge.

In time, many more plans will be added to this volume. This is a working document that will help to direct conservation action and assist co-ordination of effort, so that we can all best achieve our aim of conserving biodiversity in Hampshire.



Lord Selborne

July 2000

INTRODUCTION

The *Biodiversity Action Plan for Hampshire: Volume One*, published in September 1998 by the Hampshire Biodiversity Partnership, sets out strategic action for biodiversity within the county.

This second volume includes detailed action plans for individual habitats and species of priority concern, and specific topics such as 'water management' and 'education and awareness' that have a considerable influence on biodiversity conservation.

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Biodiversity Action Plan for Hampshire – Volume One

- sets out the objectives of the Hampshire Biodiversity Partnership
- explains the Biodiversity Action Plan for Hampshire in the context of the UK Biodiversity Programme
- describes Hampshire's biodiversity
- identifies habitats and species of priority concern and explains how detailed action plans will be prepared and implemented
- reviews important issues that affect biodiversity in Hampshire and sets out the need for topic action plans
- promotes a strategy for managing information and data
- promotes a strategy for raising awareness of biodiversity and encouraging involvement in biodiversity conservation
- sets out specific action to be undertaken by the Hampshire Biodiversity Partnership

BIODIVERSITY ACTION PLAN FOR HAMPSHIRE VOLUME TWO

This volume contains action plans for:

- priority habitats
- priority species
- topics influencing biodiversity.

Each habitat, species or topic action plan will:

- identify broad objectives and targets
- identify specific actions to be undertaken
- identify lead agencies and other partners for delivery of each action
- set specific dates for delivery of action
- provide a reference point for monitoring progress
- be updated periodically
- be fully reviewed every five years together with the strategic action in Volume One.

HABITAT ACTION PLANS, SPECIES ACTION PLANS AND TOPIC ACTION PLANS

Purpose and Scope of the Action Plans

The overall aim of the habitat and species action plans and topic action plans is to achieve the successful conservation of biodiversity in the county. At the same time, the plans will effectively contribute to securing national objectives and targets in biodiversity.

The plans are a direct result of the strategy for biodiversity set out in Volume One of the *Biodiversity Action Plan for Hampshire*. They provide detailed plans of action and are the main working documents for those involved in conserving biodiversity.

The action plans set the conservation direction, outline priorities and present challenges to many organisations and sectors. They integrate previous and ongoing work, and amalgamate proposals and approaches adopted in other relevant plans and strategies. In turn, the action plans will help to refine, develop and implement these other initiatives. The plans set out action required at a variety of levels, from practical action at the local level to the influence of national policy and programmes.

Plan Preparation

Each action plan has been prepared by a working group or lead agency. Each has involved widespread consultation within and beyond the Hampshire Biodiversity Partnership, including all organisations that will be involved in carrying out actions identified in the plan.

The plans have been prepared by consensus to encourage each organisation to play a full part. This should help to achieve effective implementation. Each plan is comprehensive, forward thinking and has been widely supported during its preparation.

Implementation and Monitoring

The plans clearly identify the agencies for delivery of each action and the proposed timescale. Organisations can identify the actions relevant to them, and incorporate these into their own work programmes.

Some actions will be best undertaken by forums or groups rather than a single organisation. Several existing groups are well-placed to carry out particular actions and monitor progress. Implementation of other actions will require the establishment of new partnerships and projects. A high degree of collaborative effort will be needed.

The Hampshire Biodiversity Partnership will develop a strategy to promote the implementation of the plans, monitor progress and track their influence on the conservation of biodiversity in the county.

HABITAT AND SPECIES ACTION PLANS

Biodiversity Audit and Selection of Habitat and Species Action Plans

The Hampshire Biodiversity Partnership has undertaken an audit of habitats and species to determine their extent and distribution. This has enabled the identification of priority habitats and species. For a full description of the biodiversity of Hampshire and the criteria used for selecting key habitats and priority species, see Chapter 3 in Volume One of the *Biodiversity Action Plan for Hampshire*.

- **Habitat action plans** (HAPs) will be prepared for the 22 key habitats listed in Table 1.
- **Species action plans** (SAPs) will be prepared for the 43 priority species listed in Table 2a. There will also be 3 'grouped' SAPs prepared, and these will cover an additional 25 priority species (see Table 2b).

The criteria for selecting which priority species require an individual species action plan are explained in the section 'Strategy for Priority Species' below. A complete list of priority species in Hampshire is given in Tables 4 and 5.

Plan Format

Habitat and species action plans follow a standard format. Each plan:

- describes the importance, distribution, extent and status of the habitat/species
- audits current factors affecting the habitat/species
- identifies current action for the habitat/species
- sets **objectives** and targets to assist the conservation of the habitat/species
- sets out **proposed actions** to meet the objectives

Objectives of Habitat and Species Action Plans

Habitats

- Ensure no further loss or degradation of the habitat
- Increase the extent of the habitat
- Improve the quality of the habitat
- Ensure the requirements of all priority species associated with the habitat are met
- Improve knowledge of the habitat, through survey, research and monitoring
- Ensure appropriate provision of information and communication

Species

- Maintain existing populations of the species
- Enhance the status of the species in Hampshire
- Improve knowledge and understanding of the species through survey, research and monitoring
- Promote communication, education and awareness of the status and needs of the species

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Proposed Actions

The proposed actions in each **habitat action plan** are grouped under the following subjects:

- Habitat protection
- Habitat management, incentive schemes and other resources
- Species action
- Survey, research and monitoring
- Communication and publicity

The proposed actions in each **species action plan** are grouped under the following subjects:

- Site and species protection
- Site and species management
- Survey, research and monitoring
- Communication and publicity

For each proposed action in both habitat and species action plans the following are identified:

- Key partner responsible for implementation
- Other organisations to be involved in implementation
- Dates for delivery

The proposed actions in each plan are intended to be comprehensive, although further actions may be identified and implemented within the life of the plan. Proposed actions include existing action that should be continued or developed, and action that is new and requires initiation.

Strategy for Priority Species

The list of priority species in Hampshire currently stands at 493 species. Over 200 of these are also priority species in the UK biodiversity programme. The Hampshire priority list is presented in full in Table 4 (present species) and Table 5 (species considered extinct) and is summarised below.

	Hampshire Priority List	UK Priority List
Present/possibly present	424 (Table 4)	150
Extinct/probably extinct/vagrants	69 (Table 5)	51
Total	493	201

The priority list of species has been updated since the publication of Volume One of the Biodiversity Action Plan. A number of species have been added to the list, including additional species from the UK priority list with records in Hampshire.

Action for most of the priority species listed in Table 4 will be catered for by implementing the proposed actions in relevant habitat action plans, although some species have particular needs which cannot be catered for within HAPs. The following criteria have been used to identify those species that require an individual or grouped species action plan.

Species Action Plan Criteria	
A	Mosaic, landscape species, dependent on many habitats
B	High profile or indicator species
C	Very specialised species not sufficiently catered for in HAPs
D	Severely threatened species
E	Species where Hampshire has a very significant proportion of the national resource, or, species restricted to Hampshire



In addition, some species have been grouped together into a single 'grouped' SAP rather than dealing with each individually, due to their similar ecology, similar threats and/or similar actions required (Table 2b). In Tables 4 and 5, each species with a Hampshire SAP is shown with a 'yes' in the relevant column, and those with a grouped SAP are shown as 'yes (g)'.

National species action plans and other plans such as Butterfly Conservation Regional Action Plans also form part of the overall strategy for conserving priority species. The proposed action in these plans will also help guide action for species in Hampshire.

Action for Species in Habitat Action Plans

Most species are principally associated with a single habitat type and have secondary associations with perhaps one or two other habitat types. Tables 4 and 5 indicate the primary (1^o) habitat and secondary (2^o) habitat/s with which each species is associated. Most species will be mainly catered for by action in the habitat action plan listed as the primary habitat.

Each HAP contains three tables relevant to action for species:

- 1 **Priority species found primarily in the habitat.** This table also includes details of distribution in Hampshire, ecology of the species, specific management requirements, whether the species is the subject of an individual SAP, and an indication of other relevant plans such as a UK SAP.
- 2 **Priority species thought to be extinct in Hampshire but primarily associated with the habitat.** This table also includes information on the ecology of the species, distribution, specific management requirements and whether there are additional relevant plans.
- 3 **Priority species found primarily in other habitats but which also occur in the habitat.** This table indicates the primary HAP for each species and whether the species is the subject of an individual SAP.

Action specified in HAPs for the protection and management of the habitat will be generally supportive of the needs of most priority species associated with the habitat. Nevertheless, it will be important to ensure that particular requirements of priority species are catered for.

Tables 1 and 2 in Appendix 1 of each habitat action plan provides useful information to guide specific site management for individual species. Site managers should identify any priority species on their land to ensure that the habitat management undertaken also caters for the needs of these species. There is also an important role for conservation advisors working in

the wider countryside, to promote the needs of relevant species to landowners and secure favourable management for them.

Recognising the specific management requirements of different species will minimise conflict between general action for habitats and specific action for particular species. Where priority species are restricted to Hampshire or occur in very few sites, detailed site management plans for the species will be needed to ensure their successful conservation.

TOPIC ACTION PLANS

Volume One of the *Biodiversity Action Plan for Hampshire* set out the need for strategies or plans to deal with wider issues influencing biodiversity such as water management, agriculture and development. A definitive list of issues that require individual action plans has not been produced: the need for topic plans will be reviewed on an ongoing basis, taking account of the extent to which the issues are addressed in plans prepared by relevant organisations or forums. In some cases it will be better to influence other strategies and plans, rather than prepare an independent plan.

Volume One also set out the need for programmes to develop awareness and involvement in conserving biodiversity, and for ensuring adequate data and data management to support the biodiversity programme. Topic Plans aimed at raising awareness, involvement and education, and for developing biological recording, will be added to Volume Two.

TABLE 1: HABITAT ACTION PLANS (July 2000)

HABITAT		PUBLISHED
1	Ancient Semi-natural Woodland	July 2000
2	Pasture Woodland, Parkland	
3	Hedgerows	July 2000
4	Arable Land	July 2000
5	Unimproved Neutral Dry Grassland, Hay Meadows	
6	Lowland Calcareous Grassland	July 2000
7	Lowland Wet Grassland	July 2000
8	Heathland, Acid Grassland and Bog	
9	Fen, Carr, Marsh, Swamp, Reedbeds	
10	Open Standing Water	
10a	Ephemeral Ponds	
11	Chalk Streams	July 2000
11a	Rivers and Streams**	
12	Canals	
13	Maritime Cliffs	
14	Shingle	
15	Saltmarsh	
16	Coastal Grazing Marsh	
17	Sand Dunes	
18	Mudflats and Eelgrass Beds	
19	Saline Lagoons	
20	Road Verges	
21	Urban	
22	Marine	
<p>New Forest – A separate Topic Action Plan will be prepared to cover habitats in the New Forest</p>		
<p>** This habitat is covered by the Water and Biodiversity Topic Action Plan</p>		



TABLE 2a: SPECIES ACTION PLANS – INDIVIDUAL (July 2000)

Scientific name	Common name	Group	Hants SAP?	Published
<i>Bufo calamita</i>	natterjack toad	Amphibians	yes	
<i>Triturus cristatus</i>	great crested newt	Amphibians	yes	
<i>Hirudo medicinalis</i>	medicinal leech	Annelids	yes	
<i>Gnorimus nobilis</i>	noble chafer	Beetles	yes	
<i>Lucanus cervus</i>	stag beetle	Beetles	yes	
<i>Pachytychius haematocephalus</i>	a weevil	Beetles	yes	
<i>Alauda arvensis</i>	skylark	Birds	yes	
<i>Branta bernicla bernicla</i>	dark-bellied brent goose	Birds	yes	
<i>Burhinus oediconemus</i>	stone curlew	Birds	yes	
<i>Cettia cetti</i>	Cetti's warbler	Birds	yes	
<i>Passer montanus</i>	tree sparrow	Birds	yes	
<i>Turdus philomelos</i>	song thrush	Birds	yes	
<i>Boloria euphrosyne</i>	pearl-bordered fritillary	Butterflies	yes	
<i>Eurodryas aurinia</i>	marsh fritillary	Butterflies	yes	
<i>Hamearis lucina</i>	Duke of Burgundy	Butterflies	yes	
<i>Hesperia comma</i>	silver-spotted skipper	Butterflies	yes	
<i>Austropotamobius pallipes</i>	white-clawed crayfish	Crustaceans	yes	July 2000
<i>Coenagrion mercuriale</i>	southern damselfly	Dragonflies	yes	July 2000
<i>Lycopodium clavatum</i>	stags-horn clubmoss	Ferns	yes	
<i>Asilus crabroniformis</i>	hornet robberfly	Flies	yes	
<i>Cephalanthera rubra</i>	red helleborine	Flw Plants	yes	
<i>Dianthus armeria</i>	Deptford pink	Flw Plants	yes	
<i>Filago lutescens</i>	red-tipped cudweed	Flw Plants	yes	
<i>Lobelia urens</i>	heath lobelia	Flw Plants	yes	
<i>Petrorhagia nanteuillii</i>	Childing pink	Flw Plants	yes	
<i>Boletus satanas</i>	Devil's bolete	Fungi	yes	
<i>Arvicola terrestris</i>	water vole	Mammals	yes	July 2000
<i>Barbastellus barbastellus</i>	barbastelle bat	Mammals	yes	
<i>Eptesicus serotinus</i>	serotine bat	Mammals	yes	
<i>Lutra lutra</i>	otter	Mammals	yes	July 2000
<i>Muscardinus avellanarius</i>	dormouse	Mammals	yes	
<i>Myotis bechsteinii</i>	Bechstein's bat	Mammals	yes	July 2000
<i>Pipistrellus pipistrellus</i>	pipistrelle bat	Mammals	yes	July 2000
<i>Rhinolophus ferrumequinum</i>	greater horseshoe bat	Mammals	yes	
<i>Valvata macrostoma</i>	large mouthed valve snail	Molluscs	yes	
<i>Acosmetia caliginosa</i>	reddish buff	Moths	yes	
<i>Cucullia lychnitis</i>	striped lychnis	Moths	yes	
<i>Cyclophora pendularia</i>	dingy mocha	Moths	yes	
<i>Pareulype berberata</i>	barberry carpet	Moths	yes	
<i>Trichopteryx polycommata</i>	barred tooth-striped	Moths	yes	
<i>Coronella austriaca</i>	smooth snake	Reptiles	yes	
<i>Chrysis fulgida</i>	a ruby-tailed wasp	Wasps	yes	
<i>Crossocerus vagabundus</i>	a wasp	Wasps	yes	

TABLE 2b: SPECIES ACTION PLANS – GROUPED (JULY 2000)

Scientific name	Common name	Group	Hants SAP?	Published
Bumble bees:				
<i>Bombus humilis</i>	brown-banded carder bee	Bees	yes (g)	
<i>Bombus ruderatus</i>	large garden bumble bee	Bees	yes (g)	
<i>Bombus sylvarum</i>	shrill carder bee	Bees	yes (g)	
New Forest tooth fungi:				
<i>Hericium coralloides</i>	coral fungus	Fungi	yes (g)	
<i>Hericium erinaceus</i>	hedgehog fungus	Fungi	yes (g)	
<i>Hydnellum conrescens</i>	a tooth fungus	Fungi	yes (g)	
<i>Hydnellum spongiosipes</i>	a tooth fungus	Fungi	yes (g)	
<i>Phellodon confluens</i>	a tooth fungus	Fungi	yes (g)	
<i>Phellodon melaleucus</i>	a tooth fungus	Fungi	yes (g)	
<i>Phellodon niger</i>	a tooth fungus	Fungi	yes (g)	
<i>Sarcodon scabrosus</i>	a tooth fungus	Fungi	yes (g)	
New Forest epiphytic lichens:				
<i>Agonimia allobata</i>	a lichen	Lichens	yes (g)	
<i>Agonimia octospora</i>	a lichen	Lichens	yes (g)	
<i>Bacidia incompta</i>	a lichen	Lichens	yes (g)	
<i>Caloplaca luteoalba</i>	orange-fruited elm-lichen	Lichens	yes (g)	
<i>Catillaria laureri</i>	Laurer's catillaria	Lichens	yes (g)	
<i>Enterographa elaborata</i>	New Forest beech lichen	Lichens	yes (g)	
<i>Enterographa soredata</i>	a lichen	Lichens	yes (g)	
<i>Lobaria virens</i>	a lichen	Lichens	yes (g)	
<i>Opegrapha fumosa</i>	a lichen	Lichens	yes (g)	
<i>Parmelia minarum</i>	New Forest parmelia	Lichens	yes (g)	
<i>Phyllopsora rosei</i>	a lichen	Lichens	yes (g)	
<i>Rinodina isidioides</i>	a lichen	Lichens	yes (g)	
<i>Strigula stigmatella</i>	a lichen	Lichens	yes (g)	
<i>Zamenhofia rosei</i>	Francis' blue-green lichen	Lichens	yes (g)	



TABLE 3: TOPIC ACTION PLANS UNDER PREPARATION (July 2000)

TOPIC	PUBLISHED
Education, Awareness and Involvement	---
Water and Biodiversity	---

TABLE 5: PRIORITY SPECIES IN HAMPSHIRE – CONSIDERED EXTINCT

Scientific name	Common name	Group	County occurrence	Significance of Hants population	Decline	Local Rarity	Threat	1° HAP	2° HAPs	Hants SAP?	SAP Criteria	Priority (UK/ Local)
<i>Chara baltica</i>	Baltic stonewort	Algae	x?	-	-	-	-	19	-	no	-	P
<i>Nitellopsis obtusa</i>	starry stonewort	Algae	x	-	-	-	-	19	-	no	-	P
<i>Armandia cirrhosa</i>	lagoon sandworm	Annelids	x?	RH	Rapid Decline	Rare	High	19	-	no	-	P
<i>Formica exsecta</i>	narrow-headed ant	Ants	x?	Is	Rapid Decline	Rare	High	8	1	no	-	P
<i>Andrena ferox</i>	a mining bee	Bees	x?	Is	-	Rare	High	nf1	nf8	no	-	P
<i>Andrena gravida</i>	a mining bee	Bees	x?	Is	-	Rare	High	8	5	no	-	P
<i>Anthophora retusa</i>	potter flower bee	Bees	x?	NS? (IOW only)	Rapid Decline	Rare	High	8	13	no	-	C
<i>Lasioglossum pauperatum</i>	a mining bee	Bees	x?	-	-	-	-	8	6,13,17	no	-	C
<i>Lasioglossum sexnotatum</i>	a mining bee	Bees	x	-	-	-	-	8	?	no	-	C
<i>Melecta luctosa</i>	a solitary bee	Bees	x	NS	Rapid Decline	Rare	High	8	13	no	-	BC
<i>Nomada sexfasciata</i>	a cuckoo bee	Bees	x	-	-	-	-	13	8	no	-	C
<i>Nomada xanthosticta</i>	a cuckoo bee	Bees	x	-	Rapid Decline	Rare	-	1	5,8	no	-	P
<i>Osmia xanthomelana</i>	a mason bee	Bees	x	-	-	-	-	13	-	no	-	P
<i>Amara famelica</i>	a ground beetle	Beetles	x	-	Decline	-	-	8	-	no	-	P
<i>Anisodactylus poeciloides</i>	a ground beetle	Beetles	x	-	Decline	Rare	-	15	16	no	-	P
<i>Badister peltatus</i>	a ground beetle	Beetles	x	-	-	-	-	7	9	no	-	P
<i>Carabus intricatus</i>	a ground beetle	Beetles	x	-	-	-	-	1	-	no	-	P
<i>Ceutorhynchus verrucatus</i>	a weevil	Beetles	x?	-	-	-	-	14	-	no	-	C
<i>Cicindela germanica</i>	a tiger beetle	Beetles	x	-	Decline	Rare	High	13	-	no	-	P
<i>Cryptocephalus nitidulus</i>	a leaf beetle	Beetles	x	-	-	-	-	1	6	no	-	P
<i>Donacia aquatica</i>	a reed beetle	Beetles	x	-	-	-	-	9	-	no	-	P
<i>Dromius quadrisignatus</i>	a ground beetle	Beetles	x	-	Decline	-	-	1	2	no	-	P
<i>Dyschirius angustatus</i>	a ground beetle	Beetles	x	-	Decline	-	-	15	16,17	no	-	P
<i>Harpalus dimidiatus</i>	a ground beetle	Beetles	x	-	-	-	-	6	-	no	-	P
<i>Harpalus parallelus</i>	a ground beetle	Beetles	x	-	-	-	-	6	13	no	-	P
<i>Hydroporus ruffifrons</i>	a water beetle	Beetles	x?	-	Decline	-	-	9	-	no	-	P
<i>Lebia cyanocephala</i>	a ground beetle	Beetles	x	-	-	-	-	6	-	no	-	C
<i>Lionychus quadrillum</i>	a ground beetle	Beetles	x	-	Decline	-	-	14	15	no	-	P
<i>Pterostichus aterrimus</i>	a ground beetle	Beetles	x?	NS	Rapid Decline	Rare	-	8	-	no	-	P
<i>Rhynchaenus testaceus</i>	a jumping weevil	Beetles	x	-	-	-	-	9	-	no	-	P
<i>Tachys edmondsi</i>	a ground beetle	Beetles	x?	RH	-	Rare	-	8	-	no	-	P
<i>Crex crex</i>	corncrake	Birds	x b 1 p	-	-	-	-	5	7,16	no	-	P
<i>Emberiza cirius</i>	cirl bunting	Birds	x	-	-	-	-	4	3,5	no	-	P
<i>Jynx torquilla</i>	wryneck	Birds	x b 1 p	-	-	-	-	2	-	no	-	P

Scientific name	Common name	Group	County occurrence	Significance of Hants population	Decline	Local Rarity	Threat	1° HAP	2° HAPs	Hants SAP?	SAP Criteria	Priority (UK/Local)
<i>Lanius collurio</i>	red-backed shrike	Birds	x b 1 p	-	Rapid Decline	Rare	High	8	4,5,6	no	-	P
<i>Tetrao tetrix</i>	black grouse	Birds	x	-	-	-	-	8	-	no	-	P
<i>Leptodontium gemmascens</i>	thatch moss	Bryophytes	x	-	-	-	-	9	7	no	-	P
<i>Argynnis adippe</i>	high brown fritillary	Butterflies	x?	-	Rapid Decline	-	-	1	8	no	-	P
<i>Leptidea sinapis</i>	wood white	Butterflies	x	-	-	-	-	1	-	no	-	C
<i>Decticus verrucivorus</i>	wart-biter	Crickets	x?	-	-	-	-	6	8	no	-	P
<i>Gryllus campestris</i>	field cricket	Crickets	x?	RI	Rapid Decline	Rare	High	6	8	no	-	P
<i>Allomelita pellucida</i>	a brackish water crustacean	Crustaceans	x?	-	-	-	-	19	-	no	-	C
<i>Alosa alosa</i>	allis shad	Fishes	x?	-	-	-	-	22	11	no	-	P
<i>Alosa fallax</i>	Twaite shad	Fishes	x?	-	-	-	-	22	11	no	-	P
<i>Chrysotoxum vernale</i>	a hoverfly	Flies	x?	Is	Rapid Decline	Rare	High	8	-	no	-	L
<i>Eristalis cryptarum</i>	a hoverfly	Flies	x	Is	Rapid Decline	Rare	High	8	-	no	-	P
<i>Poecilobothrus ducalis</i>	a fly	Flies	x?	-	-	-	-	19	16	no	-	C
<i>Bromus interruptus</i>	interrupted brome	Flw Plants	x	-	-	-	-	4	5	no	-	P
<i>Damasonium alisma</i>	starfruit	Flw Plants	x	-	-	-	-	10a	8	no	-	P
<i>Filago pyramidata</i>	broad-leaved cudweed	Flw Plants	x?	-	-	-	-	4	6	no	-	P
<i>Galium tricornutum</i>	corn cleavers	Flw Plants	x	-	-	-	-	4	6	no	-	P
<i>Sium latifolium</i>	greater water-parsnip	Flw Plants	x?	-	-	-	-	9	10	no	-	P
<i>Caloplaca luteoalba</i>	orange-fruited elm-lichen	Lichens	x?	-	-	-	-	2	3	yes (g)	C E	P
<i>Limax tenellus</i>	slender slug	Molluscs	x	Is	Decline	Rare	High	1	-	no	-	C
<i>Segmentina nitida</i>	shining ram's-horn snail	Molluscs	x?	-	Rapid Decline	Rare	High	7	9,10	no	-	P
<i>Archanara algae</i>	rush wainscot	Moths	x?	-	-	Rare	High	9	10,11,12	no	-	C
<i>Athetis palustris</i>	marsh moth	Moths	x?	-	-	-	-	9	5,7	no	-	P
<i>Bembecia chrysidiformis</i>	fiery clearwing	Moths	x	-	-	-	-	13	-	no	-	P
<i>Chesias rufata</i>	broom-tip	Moths	x?	-	-	-	-	8	-	no	-	C
<i>Hydrelia sylvata</i>	waved carpet	Moths	x?	Wi/Is	Stable (poss. extinct.)	Rare	Low	1	2	no	-	P
<i>Myelois cirrigerella</i>	a pyralid moth	Moths	x	NS	Extinct?	-	-	6	-	no	-	L
<i>Orgyia recens</i>	scarce vapourer	Moths	x	-	-	-	-	1	-	no	-	C
<i>Pelosia muscerda</i>	dotted footman	Moths	x	-	-	-	-	8	9	no	-	C
<i>Dipoena melanogaster</i>	a spider	Spiders	x	-	-	-	-	8	-	no	-	C
<i>Oxyopes heterophthalmus</i>	a spider	Spiders	x	-	-	-	-	8	-	no	-	C
<i>Pistius truncatus</i>	a crab spider	Spiders	x	-	-	-	-	1	-	no	-	C
<i>Xysticus luctator</i>	a crab spider	Spiders	x?	-	-	-	-	8	1	no	-	C
<i>Hydrometra gracilentata</i>	lesser water measurer	True Bugs	x?	Is	Decline	Rare	-	10	9	no	-	P
<i>Cerceris quinquefasciata</i>	a ruby-tailed wasp	Wasps	x	-	-	-	-	8	13	no	-	P

SOURCES OF INFORMATION

Biodiversity: The UK Action Plan, HMSO, 1994.

Biodiversity: The UK Steering Group Report, Volume 1 and 2, HMSO, 1995.

Biodiversity Action Plan for Hampshire: Volume One, Hampshire Biodiversity Partnership, Hampshire County Council, 1998.

Birds of Conservation Concern in the United Kingdom, Channel Islands and Isle of Man (leaflet), RSPB et al, RSPB, 1996.

Birds of Hampshire, J M Clark and J A Eyre (eds), Hampshire Ornithological Society, 1993.

British Red Data Books: 1 Vascular Plants (3rd edition), M J Wigginton (ed.), JNCC, 1999.

British Red Data Books: 2 Insects, D B Shirt (ed.), JNCC, 1987.

British Red Data Books: 3 Invertebrates and Other Insects, J H Bratton (ed.), JNCC, 1991.

The Character of England: Landscape, Wildlife and Natural Features, Countryside Commission and English Nature, 1996.

The Flora of Hampshire, Anne Brewis, Paul Bowman and Francis Rose, Harley Books with Hampshire and Isle of Wight Wildlife Trust, 1996.

Hampshire's Countryside Heritage (series), Hampshire County Council, 1983-84.

The Hampshire Landscape: a strategy for the future, Hampshire County Council, 1993.

The Hampshire Farming Study, Hampshire County Council, 1997.

The History of the Countryside, Oliver Rackham, J.M. Dent & Sons Ltd, 1986.

Natural Area Profiles (various), English Nature, 1997-98.

Scarce Plants in Britain, A Stewart, D A Pearman and C D Preston, JNCC, 1994.

UK Biodiversity Group Tranche 2 Action Plans: Volume I – IV, English Nature, 1998-99.

CONTACTS

Habitat, Species and Topic Action Plans

- For general information on Habitat Action Plans contact:
David Pape, Environment Group, Planning Department, Hampshire County Council, The Castle, Winchester SO23 8QE, Tel: 01962 846739.
- For general information on Species Action Plans contact:
Debbie Wicks, Hampshire Wildlife Trust, 8 Romsey Road, Eastleigh, Hampshire SO50 9AL, Tel: 023 8061 3636.
- Contacts for individual action plans are provided in each plan.

Biodiversity Action Plan for Hampshire

- For further information on the Hampshire Biodiversity Partnership and the Biodiversity Action Plan programme, contact:
David Pape, Environment Group, Planning Department, Hampshire County Council, The Castle, Winchester SO23 8QE, Tel: 01962 846739.

**BIODIVERSITY
ACTION
PLAN FOR
HAMPSHIRE**

KEY TO TABLES 4 & 5: PRIORITY SPECIES IN HAMPSHIRE

County Occurrence

- 1 Present
- 1? Possibly present
- x? Probably extinct
- x Extinct

Following categories for birds only - codes preceded by 1 if present, or x if extinct

- b Breeding species
- w Wintering species
- p Passage migrant
- o Other

Significance of Hampshire population

- RH Restricted to Hampshire; found nowhere else.
- NS National stronghold; Hampshire holds at least 10% of the national population.
- RI Regionally important; SE England a stronghold for the species; Hampshire holds a significant proportion of this.
- Wi Widespread in the UK and in Hampshire.
- Is Isolated.

1° HAP – Primary habitat associated with the species

The codes relate to the habitats listed below. Each species is allocated primary habitat that it best fits into

2° HAP – Secondary habitat(s) associated with the species

The codes relate to the habitats listed below. Each additional habitat in which the species occurs is included here.

Habitat Action Plan (HAP) Codes

- 1 Ancient semi-natural woodland
- 2 Pasture woodland, parkland
- 3 Hedgerows
- 4 Arable land
- 5 Unimproved neutral dry grassland, hay meadows
- 6 Lowland calcareous grassland
- 7 Lowland wet grassland
- 8 Heathland, acid grassland, bog
- 9 Fen, carr, marsh, swamp, reedbed
- 10 Open standing water
- 10a Ephemeral ponds
- 11 Chalk streams
- 11a Rivers and streams
- 12 Canals
- 13 Maritime cliffs
- 14 Shingle
- 15 Saltmarsh
- 16 Coastal grazing marsh
- 17 Sand dunes
- 18 Mudflats, eelgrass beds
- 19 Saline lagoons

20	Road verges
21	Urban
22	Marine
m	Dependent on many habitats, mosaic/landscape species
No	No habitat defined, peculiar requirements, does not fit into habitats above
Nf	New Forest only (followed by habitat number or code as above)

Notes:

All species with 'm' habitat will need a SAP under criterion A
 All species with 'no' habitat will need a SAP under criterion C
 All other species should have a primary habitat but may still qualify for a SAP under criteria B C D or E
 All species restricted to the New Forest ('nf' habitats) will be included in the New Forest Topic Action Plan

Hampshire SAP?

Yes SAP to be prepared
 Yes(g) SAP covering a group of species to be prepared

SAP Criteria

A Mosaic, landscape species, dependent on many habitats
 B High profile or indicator species
 C Very specialised species not sufficiently catered for in HAPs
 D Severely threatened species
 E Species where Hampshire has a very significant proportion of the national resource, or, species restricted to Hampshire

Priority (UK/Local)

P UK BAP priority species
 C UK BAP other species of national conservation concern
 L Locally important species
 BC Listed in Biodiversity Challenge

TABLE 4: PRIORITY SPECIES IN HAMPSHIRE – PRESENT

Scientific name	Common name	Group	County occurrence	Significance of Hants population	Decline	Local Rarity	Threat	1° HAP	2° HAPs	Hants SAP?	SAP Criteria	Priority (UK/ Local)
<i>Lamprothamnium papulosum</i>	foxtail stonewort	Algae	1	NS	Stable	Rare	High	19	-	no	-	P
<i>Bufo calamita</i>	natterjack toad	Amphibians	1	NS	Stable	Rare	Low	8	10,17	yes	C D E	P
<i>Triturus cristatus</i>	great crested newt	Amphibians	1	Wi	Decline	Uncommon	Low	m	1,3,5,7,10,21	yes	A B	P
<i>Alkmaria romijni</i>	tentacled lagoon-worm	Annelids	1	NS	Stable	Rare	High	19	-	no	-	C
<i>Hirudo medicinalis</i>	medicinal leech	Annelids	1	NS	Stable	Rare	Low	nf10	nf8	yes	C D	P
<i>Anergates atratulus</i>	dark guest ant	Ants	1	NS	-	-	-	8	13,14	no	-	P
<i>Formica candida</i>	black bog ant	Ants	1	NS	Stable	Rare	Low	nf8	nf9	no	-	P
<i>Formica rufa</i>	southern wood ant	Ants	1	Wi	Stable	Uncommon	Low	1	8	no	-	P
<i>Bombus humilis</i>	brown-banded carder bee	Bees	1	-	Decline	-	-	m	5,6,13,14,15,17	yes (g)	A D	P
<i>Bombus ruderatus</i>	large garden bumble bee	Bees	1?	-	Decline	Scarce	High	m	5,6,13,14,15,17	yes (g)	A D	P
<i>Bombus sylvarum</i>	shrill carder bee	Bees	1?	-	Decline	Scarce	High	m	5,6,13,14,15,17	yes (g)	A D	P
<i>Psithyrus rupestris</i>	hill cuckoo bee	Bees	1	Wi	Decline	Rare	Medium	m	5,6,8,14,17	no	-	C
<i>Agabus brunneus</i>	a water beetle	Beetles	1	NS	Stable	Rare	Medium	11a	8	no	-	P
<i>Ampedus quercicola</i>	a click beetle	Beetles	1	NS	Stable?	Scarce	Low	nf1	nf2,nf9	no	-	L
<i>Anisodactylus nemorivagus</i>	a ground beetle	Beetles	1	NS	Decline	Scarce	Medium	8	-	no	-	P
<i>Aphodius niger</i>	a scarab beetle	Beetles	1	RH	Stable	Rare	Low	nf10a	nf8	no	-	P
<i>Bidessus unistriatus</i>	a water beetle	Beetles	1	-	Decline	-	-	9	7,10	no	-	P
<i>Cicindela sylvatica</i>	heath tiger beetle	Beetles	1	NS	Decline	Rare	Medium	8	-	no	-	P
<i>Cryptocephalus sexpunctatus</i>	a leaf beetle	Beetles	1	NS	Decline	Rare	High	6	1	no	-	P
<i>Donacia bicolora</i>	a reed beetle	Beetles	1	NS	Decline	Rare	-	11a	12	no	-	P
<i>Gnorimus nobilis</i>	noble chafer	Beetles	1	-	-	-	-	1	2	yes	C	P
<i>Graphoderus zonatus</i>	water beetle	Beetles	1	RH	Stable	Rare	High	10a	8	no	-	P
<i>Harpalus cordatus</i>	a ground beetle	Beetles	1	-	-	-	-	6	-	no	-	P
<i>Helophorus laticollis</i>	a water beetle	Beetles	1	RH	Decline	Rare	High	nf10a	nf8	no	-	P
<i>Hydrophilus piceus</i>	great silver water beetle	Beetles	1	-	-	-	-	7	9,10,16	no	-	C
<i>Hylis olexai</i>	a click beetle	Beetles	1	RI	Decline	Rare	-	1	2	no	-	L
<i>Lucanus cervus</i>	stag beetle	Beetles	1	NS	Decline	Scarce	-	1	2,3,21	yes	B	P
<i>Malachius aeneus</i>	scarlet malachite beetle	Beetles	1	NS	-	-	-	2	3	no	-	P
<i>Meotica anglica</i>	a rove beetle	Beetles	1?	Is	Decline	Scarce	-	11a	-	no	-	P
<i>Pachytychius haematocephalus</i>	a weevil	Beetles	1	RH	-	Rare	High	no	0	yes	C E	P
<i>Paedurus caligatus</i>	a rove beetle	Beetles	1	NS	Decline	Rare	-	8	-	no	-	L
<i>Prionus coriarius</i>	a sawyer beetle	Beetles	1	RI	Stable	Rare	-	1	8	no	-	L
<i>Pterostichus kugelanni</i>	a ground beetle	Beetles	1	RH	Decline	Rare	-	8	-	no	-	P

Scientific name	Common name	Group	County occurrence	Significance of Hants population	Decline	Local Rarity	Threat	1° HAP	2° HAPs	Hants SAP?	SAP Criteria	Priority (UK/ Local)
<i>Sphinginus lobatus</i>	a false soldier beetle	Beetles	1	RH	Increasing?	Scarce	-	1	2,5	no	-	L
<i>Tachys micros</i>	a ground beetle	Beetles	1?	RI	Decline	Scarce	-	13	-	no	-	P
<i>Tomoxia bucephala</i>	a tumbling flower beetle	Beetles	1	RI	Increasing?	Scarce	-	1	4,8	no	-	L
<i>Acrocephalus paludicola</i>	aquatic warbler	Birds	1 p	-	Decline	Rare	Low	9	16	no	-	P
<i>Acrocephalus palustris</i>	marsh warbler	Birds	1 b	RI?	Decline	Rare	Low	9	11	no	-	P
<i>Acrocephalus scirpaceus</i>	reed warbler	Birds	1 b	RI	Stable	-	Low	9	11	no	-	C
<i>Alauda arvensis</i>	skylark	Birds	1 b	Wi	Decline	Rare	High	4	5,6,7,8,16	yes	A B	P
<i>Anas strepera</i>	gadwall	Birds	1 w b	RI	Increasing	Uncommon	Low	10	7,11	no	-	C
<i>Anser albifrons</i>	white-fronted goose	Birds	1 w	RI	Rapid Decline	Rare	High	7	11	no	-	C
<i>Arenaria interpres</i>	turnstone	Birds	1 w	RI	Stable	Scarce	Medium	18	15	no	-	C
<i>Aythya ferina</i>	pochard	Birds	1 w b	NS	Decline	Scarce	Low	10	11	no	-	C
<i>Botaurus stellaris</i>	bittern	Birds	1 w p	RI	Stable	Rare	High	9	-	no	-	P
<i>Branta bernicla bernicla</i>	dark-bellied brent goose	Birds	1 w	NS	Stable	Uncommon	Medium	16	15,18,21	yes	B E	C
<i>Burhinus oedicnemus</i>	stone curlew	Birds	1 b	NS	Rapid Decline	Scarce	High	4	6,8	yes	A B E	P
<i>Calidris alba</i>	sanderling	Birds	1 w	RI	Stable	Scarce	Medium	18	15	no	-	C
<i>Calidris alpina</i>	dunlin	Birds	1 w	NS	Stable	Uncommon	Medium	18	16	no	-	C
<i>Calidris canutus</i>	knot	Birds	1 w	RI	Stable	Scarce	Medium	18	15	no	-	C
<i>Caprimulgus europaeus</i>	nightjar	Birds	1 b	NS	Stable	Uncommon	High	8	1	no	-	P
<i>Carduelis cannabina</i>	linnet	Birds	1 b	Wi	Decline	-	High	4	3,5,6	no	-	P
<i>Cettia cetti</i>	Cetti's warbler	Birds	1 b	NS	Increasing	Uncommon	Low	9	7,11,11a,16	yes	A E	C
<i>Circus cyaneus</i>	hen harrier	Birds	1 w p	RI	Decline	Scarce	Medium	8	-	no	-	C
<i>Circus pygargus</i>	Montagu's harrier	Birds	1 p b	NS	Stable	Rare	High	m	4,5,6,8	no	-	C
<i>Coccothraustes coccothraustes</i>	hawfinch	Birds	1 b	NS	Stable	Uncommon	Low	1	2	no	-	C
<i>Coturnix coturnix</i>	quail	Birds	1 b	RI	Stable	Scarce	Low	4	5	no	-	C
<i>Cygnus columbianus</i>	Bewick's swan	Birds	1 w	RI	Decline	Rare	High	7	10	no	-	C
<i>Dendrocops minor</i>	lesser spotted woodpecker	Birds	1 b	NS	Stable	-	Low	1	2	no	-	C
<i>Egretta garzetta</i>	little egret	Birds	1 w b	NS	Increasing	Scarce	Low	22	-	no	-	L
<i>Emberiza schoeniclus</i>	reed bunting	Birds	1 b	Wi	Decline	-	High	9	4,8,11,11a	no	-	P
<i>Falco columbarius</i>	merlin	Birds	1 w p	RI	Stable	Scarce	Medium	8	5	no	-	C
<i>Falco subbuteo</i>	hobby	Birds	1 b	NS	Increasing	Uncommon	Low	8	1	no	-	C
<i>Gallinago gallinago</i>	snipe	Birds	1 b	RI	Rapid Decline	Uncommon	High	7	5,8,9	no	-	C
<i>Larus melanocephalus</i>	Mediterranean gull	Birds	1 p b	NS	Increasing	Rare	Medium	15	14	no	-	C
<i>Limosa lapponica</i>	bar-tailed godwit	Birds	1 w	RI	Decline	Scarce	Medium	18	15	no	-	C
<i>Limosa limosa</i>	black-tailed godwit	Birds	1 w	NS	Stable	Scarce	Medium	18	7,15	no	-	C
<i>Locustella naevia</i>	grasshopper warbler	Birds	1 b	-	Rapid Decline	Rare	Low	8	9	no	-	C
<i>Lullula arborea</i>	woodlark	Birds	1 b	NS	Increasing	Uncommon	High	8	-	no	-	P
<i>Luscinia megarhynchos</i>	nightingale	Birds	1 b	RI	Decline	Uncommon	Medium	1	2,3	no	-	C

Scientific name	Common name	Group	County occurrence	Significance of Hants population	Decline	Local Rarity	Threat	1° HAP	2° HAPs	Hants SAP?	SAP Criteria	Priority (UK/ Local)
<i>Melanitta nigra</i>	common scoter	Birds	1 w	-	-	-	-	22	10	no	-	P
<i>Mergus merganser</i>	goosander	Birds	1 w	RI	Increasing	Scarce	Low	10	11	no	-	C
<i>Mergus serrator</i>	red-breasted merganser	Birds	1 w	RI	Stable	Scarce	Medium	22	10	no	-	C
<i>Milaria calandra</i>	corn bunting	Birds	1 b	Wi	Rapid Decline	Uncommon	High	4	3,5	no	-	P
<i>Milvus milvus</i>	red kite	Birds	1 p b	RI	Increasing	Rare	-	1	5	no	-	C
<i>Motacilla flava</i>	yellow wagtail	Birds	1 b	-	Rapid Decline	Rare	High	16	7	no	-	C
<i>Muscicapa striata</i>	spotted flycatcher	Birds	1 b	Wi	Rapid Decline	-	High	2	1,21	no	-	P
<i>Panurus biarmicus</i>	bearded tit	Birds	1 w b	RI	Stable	Scarce	Low	9	-	no	-	C
<i>Passer montanus</i>	tree sparrow	Birds	1 b	-	Rapid Decline	Rare	High	3	4	yes	A D	P
<i>Perdix perdix</i>	grey partridge	Birds	1 b	Wi	Rapid Decline	-	High	4	3,5	no	-	P
<i>Pernis apivorus</i>	honey buzzard	Birds	1 p b	NS	Decline	Rare	High	8	1	no	-	C
<i>Pluvialis apricaria</i>	golden plover	Birds	1 w	RI	Stable	Uncommon	Medium	4	-	no	-	C
<i>Pluvialis squatarola</i>	grey plover	Birds	1 w	NS	Stable	Uncommon	Medium	18	15	no	-	C
<i>Podiceps auritus</i>	Slavonian grebe	Birds	1 w	RI	Increasing	Scarce	Medium	22	10	no	-	C
<i>Podiceps nigricollis</i>	black-necked grebe	Birds	1 w	NS	Decline	Rare	Medium	22	10	no	-	C
<i>Pyrrhula pyrrhula</i>	bullfinch	Birds	1 b	Wi	Decline	-	High	3	1,4	no	-	P
<i>Regulus ignicapillus</i>	firecrest	Birds	1 b	NS	Stable	Scarce	Low	1	2	no	-	C
<i>Saxicola rubetra</i>	whinchat	Birds	1 b	-	Rapid Decline	Rare	High	8	-	no	-	C
<i>Sterna albifrons</i>	little tern	Birds	1 p b	NS	Decline	Rare	Medium	14	15	no	-	C
<i>Sterna dougallii</i>	roseate tern	Birds	1 p b	-	-	-	-	14	15	no	-	P
<i>Streptopelia turtur</i>	turtle dove	Birds	1 b	Wi	Rapid Decline	Uncommon	High	4	1,2,3,5	no	-	P
<i>Sylvia undata</i>	Dartford warbler	Birds	1 b	NS	Stable	Uncommon	Medium	8	-	no	-	C
<i>Tringa totanus</i>	redshank	Birds	1 w b	Wi	Rapid Decline	Uncommon	High	7	9,16	no	-	C
<i>Turdus philomelos</i>	song thrush	Birds	1 b	Wi	Decline	-	High	m	1,3,4,21	yes	A B	P
<i>Vanellus vanellus</i>	lapwing	Birds	1 w b	Wi	Rapid Decline	-	Medium	7	4,5	no	-	C
<i>Campylostelium saxicola</i>	a moss	Bryophytes	1	NS	Stable	Scarce	-	1	-	no	-	C
<i>Ctenidium molluscum</i>	a moss	Bryophytes	1	NS	Stable	Uncommon	Low	1	-	no	-	L
<i>Ephemerum stellatum</i>	a moss	Bryophytes	1	Is	Decline	Rare	-	4	-	no	-	P
<i>Hamatocaulis (Drepanocladus) vernicosus</i>	slender green feather-moss	Bryophytes	1	NS	Stable	Rare	Low	9	8	no	-	P
<i>Lejeunea lamacerina</i>	a liverwort	Bryophytes	1	NS	Stable	Scarce	-	nf1	-	no	-	C
<i>Lophozia herzogiana</i>	a liverwort	Bryophytes	1?	Is	Rapid Decline	Rare	High	8	10a	no	-	L
<i>Orthotrichum sprucei</i>	a moss	Bryophytes	1	NS	Stable	Rare	-	11	9	no	-	P
<i>Pallavicinia lyellii</i>	veilwort	Bryophytes	1	NS	Stable	Rare	-	nf9	-	no	-	P
<i>Seligeria calycina (paucifolia)</i>	a moss	Bryophytes	1	NS	Stable	Rare	-	6	1	no	-	P
<i>Targionia hypophylla</i>	a liverwort	Bryophytes	1	Is	Decline	Rare	High	20	-	no	-	L
<i>Weissia sterilis</i>	a moss	Bryophytes	1	NS	Decline	Rare	-	6	-	no	-	P

Scientific name	Common name	Group	County occurrence	Significance of Hants population	Decline	Local Rarity	Threat	1° HAP	2° HAPs	Hants SAP?	SAP Criteria	Priority (UK/ Local)
<i>Weissia tortilis</i>	a moss	Bryophytes	1	NS	Decline	Rare	-	6	-	no	-	L
<i>Zygodon forsteri</i>	knobhole moss	Bryophytes	1	NS	Stable	Scarce	Low	nf2	-	no	-	P
<i>Apatura iris</i>	purple emperor	Butterflies	1	NS	Decline	Scarce	Low	1	2,3,20	no	-	C
<i>Argynnis paphia</i>	silver-washed fritillary	Butterflies	1	RI	Stable/moderate decline?	-	-	1	2	no	-	C
<i>Boloria euphrosyne</i>	pearl-bordered fritillary	Butterflies	1	RI	Rapid Decline	Rare	High	1	2,5,7,8	yes	B C D	P
<i>Boloria selene</i>	small pearl-bordered fritillary	Butterflies	1	Is	Rapid Decline	Rare	High	8	1,2,5,7	no	-	C
<i>Cupido minimus</i>	small blue	Butterflies	1	Is	Rapid Decline	Scarce	High	6	5,7,13,20	no	-	C
<i>Eurodryas aurinia</i>	marsh fritillary	Butterflies	1	Is	Rapid Decline	Rare	High	6	5,7,8	yes	B C D E	P
<i>Hamearis lucina</i>	Duke of Burgundy	Butterflies	1	NS	Decline	Scarce	High	6	1	yes	C D	C
<i>Hesperia comma</i>	silver-spotted skipper	Butterflies	1	RI	Stable	Rare	Low	6	-	yes	C D	P
<i>Lysandra bellargus</i>	adonis blue	Butterflies	1	RI	Decline	Scarce	Low	6	-	no	-	P
<i>Lysandra coridon</i>	chalkhill blue	Butterflies	1	RI/Is	Decline but prob. stable now.	Uncommon	-	6	20	no	-	C
<i>Plebejus argus</i>	silver-studded blue	Butterflies	1	NS	Decline	Uncommon	Low	8	-	no	-	P
<i>Satyrrium w-album</i>	white-letter hairstreak	Butterflies	1	NS	Stable	Scarce	Low	3	1,2,20	no	-	L
<i>Thecla betulae</i>	brown hairstreak	Butterflies	1	Is	Decline recently but now stable.	Rare	High	3	1,2,6,20	no	-	C
<i>Ithytrichia clavata</i>	a caddisfly	Caddisflies	1	NS		Rare	-	11	-	no	-	C
<i>Chorthippus vagans</i>	heath grasshopper	Crickets	1	NS	Stable	Rare	High	8	-	no	-	C
<i>Gomphocerippus rufus</i>	a grasshopper	Crickets	1	RI	Stable	Scarce	Low	6	-	no	-	C
<i>Gryllotalpa gryllotalpa</i>	mole cricket	Crickets	1	NS	Rapid Decline	Rare	High	9	7,8	no	-	P
<i>Stethophyma grossum</i>	large marsh grasshopper	Crickets	1	NS	Stable	Scarce	Low	8	-	no	-	P
<i>Austropotamobius pallipes</i>	white-clawed crayfish	Crustaceans	1	Is	Rapid Decline	Scarce	High	11	-	yes	B D	P
<i>Chirocephalus diaphanus</i>	fairy shrimp	Crustaceans	1	NS	Stable	Rare	-	nf10a	nf8	no	-	C
<i>Corophium lacustre</i>	a brackish water crustacean	Crustaceans	1	Is	-	Rare	-	19	-	no	-	C
<i>Gammarus insensibilis</i>	lagoon sand shrimp	Crustaceans	1	NS	Decline	Scarce	High	19	16	no	-	P
<i>Triops cancriformis</i>	tadpole shrimp	Crustaceans	1	NS	-	-	-	nf10a	nf8	no	-	P
<i>Ceragrion tenellum</i>	small red damselfly	Dragonflies	1	NS	Stable	Scarce	Low	8	9,10	no	-	L
<i>Coenagrion mercuriale</i>	southern damselfly	Dragonflies	1	NS	Stable	Rare	High	7	8,11	yes	B C E	P
<i>Cordulia aenea</i>	Downy emerald	Dragonflies	1	RI	Stable	Scarce	Low	10	12	no	-	L
<i>Ischnura pumilio</i>	scarce blue-tailed damselfly	Dragonflies	1	NS	Stable	Scarce	High	8	9,10	no	-	L
<i>Libellula fulva</i>	scarce chaser	Dragonflies	1	RI	-	Rare	-	11a	10,11	no	-	C
<i>Orthetrum coerulescens</i>	keeled skimmer	Dragonflies	1	Wi	Stable	Scarce	Low	8	-	no	-	L

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<i>Platycnemis pennipes</i>	white-legged damselfly	Dragonflies	1	Is?	Decline	Rare	High	11a	11	no	-	L
<i>Somatochlora metallica</i>	brilliant emerald	Dragonflies	1	RI	Stable	Rare	High	10	8,12	no	-	L
<i>Dryopteris aemula</i>	hay-scented buckler-fern	Ferns	1	Is	Decline	Rare	High	nf1	-	no	-	C
<i>Equisetum hyemale</i>	Rough horsetail	Ferns	1	Is	Decline	Rare	High	1	-	no	-	L
<i>Lycopodiella inundata</i>	marsh clubmoss	Ferns	1	NS	Stable	Scarce	High	8	-	no	-	P
<i>Lycopodium clavatum</i>	stags-horn clubmoss	Ferns	1	Is	Decline	Rare	High	8	-	yes	D	L
<i>Pilularia globulifera</i>	pillwort	Ferns	1	NS	Decline	Rare	High	10a	8	no	-	P
<i>Cottus gobio</i>	bullhead	Fishes	1	RI	-	-	Low	11	-	no	-	C
<i>Galeorhinus galeus</i>	tope	Fishes	1	RI	Decline	Scarce	-	22	-	no	-	BC
<i>Lampetra planeri</i>	brook lamprey	Fishes	1	RI	-	Scarce	-	11	-	no	-	C
<i>Petromyzon marinus</i>	sea lamprey	Fishes	1	RI	-	Scarce	-	22	11	no	-	C
<i>Salmo salar</i>	Atlantic salmon	Fishes	1	RI	Rapid decline	Scarce	High	22	11	no	-	C
<i>Thymallus thymallus</i>	grayling	Fishes	1	RI	Increasing	Common	Low	11	22	no	-	C
<i>Asilus crabroniformis</i>	hornet robberfly	Flies	1	NS	Decline	Rare	Low	6	4,5,8	yes	C D	P
<i>Atrichops crassipes</i>	an aquatic snipe fly	Flies	1	-	-	-	-	11	-	no	-	C
<i>Atylotus latistriatus</i>	a horsefly	Flies	1	NS	Decline?	Rare	High	15	16	no	-	L
<i>Atylotus rusticus</i>	a horsefly	Flies	1	NS	-	Rare	-	16	-	no	-	C
<i>Bombylius canescens</i>	a bee fly	Flies	1	-	-	Rare	-	6	8	no	-	C
<i>Bombylius discolor</i>	a bee fly	Flies	1	Is	Decline	Rare	-	13	-	no	-	P
<i>Bombylius minor</i>	a bee fly	Flies	1	NS	Decline	Rare	-	8	6,17	no	-	P
<i>Brachyopa bicolor</i>	a hoverfly	Flies	1	NS	Decline	Rare	Low	nf1	nf2	no	-	L
<i>Caliprobola speciosa</i>	a hoverfly	Flies	1	NS	Decline	Rare	Low	nf1	nf2	no	-	L
<i>Cheilosia nigripes</i>	a hoverfly	Flies	1	Is	Decline	Rare	High	1	6	no	-	L
<i>Cheilosia semifasciata</i>	a hoverfly	Flies	1	Is/NS?	Stable?	Rare	High	1	2	no	-	L
<i>Chrysops sepulcralis</i>	a horsefly	Flies	1	NS	Rapid Decline	Rare	High	8	9,10	no	-	C
<i>Chrysotoxum octomaculatum</i>	a hoverfly	Flies	1	Is	Rapid Decline	Rare	High	8	-	no	-	P
<i>Ctenophora flaveolata</i>	a crane fly	Flies	1	NS	Decline	Rare	Low	1	2	no	-	C
<i>Dioctria cothurnata</i>	a robber fly	Flies	1?	Is	Decline	Rare	High	2	3,8	no	-	L
<i>Doros profuges (conopseus)</i>	a hoverfly	Flies	1	Is	Decline	Rare	High	6	-	no	-	P
<i>Dorycera graminum</i>	a large otitid	Flies	1	RI?	Decline	Rare	-	5	1,6	no	-	P
<i>Eumerus ornata</i>	a hoverfly	Flies	1	NS	-	-	-	1	-	no	-	C
<i>Haematopota grandis</i>	a horsefly	Flies	1	RI	Decline	Rare	High	16	15	no	-	L
<i>Hybomitra expollicata</i>	a horse fly	Flies	1	Is	Decline	Rare	High	15	16	no	-	L
<i>Lipsothrix nervosa</i>	a crane fly	Flies	1?	RI?	-	-	-	9	1	no	-	P
<i>Machimus rusticus</i>	a robber fly	Flies	1	RI	Stable	Rare	Low	6	-	no	-	L
<i>Microdon devius</i>	a hoverfly	Flies	1	RI	Decline	Rare	Low	6	-	no	-	C

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<i>Odontomyia argentata</i>	a soldier fly	Flies	1	Is	Decline	Rare	High	7	9,16	no	-	C
<i>Oxycera analis</i>	a soldier fly	Flies	1	Is	Decline	Rare	High	9	10,11	no	-	C
<i>Paragus albifrons</i>	a hoverfly	Flies	1	Is	Decline	Rare	High	16	14	no	-	L
<i>Pelecocera tricincta</i>	a hoverfly	Flies	1	NS	Decline	Scarce	Low	8	9,10	no	-	L
<i>Physocephala nigra</i>	a conopid fly	Flies	1?	RI	Decline	Rare	-	8	-	no	-	L
<i>Pocota personata</i>	a hoverfly	Flies	1	NS	Stable	Scarce	Low	1	2	no	-	C
<i>Psilota anthracina</i>	a hoverfly	Flies	1	NS	Stable	Scarce	Low	1	2	no	-	L
<i>Stratiomys longicornis</i>	a soldier fly	Flies	1	Is	Decline	Rare	High	15	16	no	-	L
<i>Syneches muscarius</i>	a fly	Flies	1	NS		Rare	Medium	7	-	no	-	L
<i>Tabanus glaucopis</i>	a horse fly	Flies	1	NS	Decline	Rare	High	6	-	no	-	L
<i>Thyridanthrax fenestratus</i>	a bee fly	Flies	1	NS	Stable	Scarce	Low	8	-	no	-	P
<i>Urophora quadrifasciata</i>	a tephritid fly	Flies	1	Wi	-	Scarce	-	5	6	no	-	C
<i>Xylomyia maculata</i>	a fly	Flies	1	NS	Decline	Rare	Medium	2	1	no	-	C
<i>Zodion notatum</i>	a conopid fly	Flies	1	NS	Decline	Rare	High	6	8	no	-	L
<i>Aceras anthropophorum</i>	man orchid	Flw Plants	1	Is	Decline	Rare	High	6	-	no	-	L
<i>Adonis annua</i>	pheasant's eye	Flw Plants	1	NS	Decline	Rare	High	4	-	no	-	C
<i>Ajuga chamaepitys</i>	ground pine	Flw Plants	1	NS	Decline	Rare	High	4	-	no	-	C
<i>Alopecurus bulbosus</i>	bulbous foxtail	Flw Plants	1	NS	-	Scarce	High	16	-	no	-	L
<i>Althaea hirsuta</i>	rough marsh mallow	Flw Plants	1?	Is	Rapid Decline	Rare	High	4	-	no	-	C
<i>Althaea officinalis</i>	marsh-mallow	Flw Plants	1	NS	Stable	Rare	High	15	-	no	-	L
<i>Arabis glabra</i>	tower mustard	Flw Plants	1	Wi	Decline	Rare	High	8	3,4,20	no	-	P
<i>Arum italicum</i> <i>spp. neglectum</i>	Italian Lords and Ladies	Flw Plants	1	NS	Stable	Scarce	Low	1	20	no	-	L
<i>Briza minor</i>	lesser quaking grass	Flw Plants	1	NS	Decline	Rare	High	4	-	no	-	L
<i>Bupleurum tenuissimum</i>	slender hare's ear	Flw Plants	1	NS	Decline	Scarce	High	16	-	no	-	L
<i>Carex divisa</i>	divided sedge	Flw Plants	1	NS	Stable	Scarce	High	16	-	no	-	L
<i>Carex humilis</i>	dwarf sedge	Flw Plants	1	NS	Stable	Rare	Low	6	-	no	-	C
<i>Carex montana</i>	soft-leaved sedge	Flw Plants	1	NS	Stable	Scarce	Low	8	1,5	no	-	L
<i>Carex punctata</i>	dotted sedge	Flw Plants	1	NS	Decline	Rare	High	16	8,14,15	no	-	L
<i>Carum verticillatum</i>	whorled caraway	Flw Plants	1?	Is	Rapid Decline	Rare	High	5	-	no	-	C
<i>Centaurea cyanus</i>	cornflower	Flw Plants	1	Is	Rapid Decline	Rare	High	4	-	no	-	P
<i>Cephalanthera longifolia</i>	sword-leaved helleborine	Flw Plants	1	NS	Decline	Rare	Low	1	-	no	-	C
<i>Cephalanthera rubra</i>	red helleborine	Flw Plants	1	NS	Stable	Rare	Low	1	-	yes	C D E	C
<i>Cerastium pumilum</i>	dwarf mouse-ear	Flw Plants	1	Is	Decline	Rare	High	6	20	no	-	L
<i>Chamaemelum nobile</i>	chamomile	Flw Plants	1	NS	Decline	Uncommon	Low	10a	5,7,8	no	-	C
<i>Cicendia filiformis</i>	yellow centaury	Flw Plants	1	NS	Stable	Scarce	Low	8	10a	no	-	L
<i>Crassula tillaea</i>	mossy stonecrop	Flw Plants	1	NS	Decline	Scarce	Low	8	14	no	-	L
<i>Cyperus fuscus</i>	brown galingale	Flw Plants	1	NS	Stable	Rare	Low	10a	7,8	no	-	C

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<i>Dactylorhiza traunsteineri</i>	narrow-leaved marsh-orchid	Flw Plants	1	NS	Decline	Rare	High	7	9	no	-	L
<i>Deschampsia setacea</i>	bog hair grass	Flw Plants	1	NS	Stable	Scarce	Low	8	10a	no	-	C
<i>Dianthus armeria</i>	Deptford pink	Flw Plants	1	Is	Rapid Decline	Rare	High	8	-	yes	C E	P
<i>Elatine hexandra</i>	six-stamened waterwort	Flw Plants	1	NS	Stable	Scarce	High	10a	8	no	-	L
<i>Eleocharis parvula</i>	dwarf spike-rush	Flw Plants	1	NS	Stable	Rare	High	18	-	no	-	C
<i>Epipactis leptochila</i>	narrow-lipped helleborine	Flw Plants	1	Is	Decline	Rare	High	1	-	no	-	L
<i>Epipactis phyllanthes</i>	green flowered helleborine	Flw Plants	1	Is	Decline	Rare	High	1	2,8,20	no	-	L
<i>Eriophorum gracile</i>	slender cottongrass	Flw Plants	1	NS	Decline	Rare	High	8	9	no	-	C
<i>Euphorbia platyphyllos</i>	broad-leaved spurge	Flw Plants	1	NS	Rapid Decline	Scarce	High	4	-	no	-	C
<i>Euphorbia portlandica</i>	portland spurge	Flw Plants	1	Is	Rapid Decline	Rare	High	14	-	no	-	L
<i>Euphrasia pseudokernerii</i>	chalk eyebright	Flw Plants	1	NS	Decline	Scarce	Low	6	20	no	-	L
<i>Festuca arenaria</i>	rush-leaved fescue	Flw Plants	1	Is	Decline	Rare	High	16	-	no	-	L
<i>Filago lutescens</i>	red-tipped cudweed	Flw Plants	1	NS	Stable	Rare	High	4	6,8,20	yes	D	P
<i>Galeopsis angustifolia</i>	red hemp-nettle	Flw Plants	1	NS	Decline	Scarce	High	4	20	no	-	P
<i>Galium constrictum</i>	slender marsh bedstraw	Flw Plants	1	RH	Stable	Scarce	Low	nf10a	nf8	no	-	L
<i>Galium parisiense</i>	wall bedstraw	Flw Plants	1	NS	Decline	Rare	High	6	20	no	-	L
<i>Galium pumilum</i>	slender bedstraw	Flw Plants	1	NS	Decline	Rare	High	6	-	no	-	L
<i>Gentiana pneumonanthe</i>	marsh gentian	Flw Plants	1	NS	Stable	Scarce	Low	8	-	no	-	L
<i>Gentianella anglica</i>	early gentian	Flw Plants	1	Is	Decline	Rare	High	6	-	no	-	P
<i>Gentianella germanica</i>	chiltern gentian	Flw Plants	1	RI	Decline	Rare	High	6	20	no	-	L
<i>Geranium purpureum</i> spp. <i>forsteri</i>	little robin	Flw Plants	1	NS	Stable	Rare	High	14	-	no	-	L
<i>Gladiolus illyricus</i>	wild gladiolus	Flw Plants	1	RH	Decline	Scarce	High	nf8	-	no	-	C
<i>Gnaphalium sylvaticum</i>	heath cudweed	Flw Plants	1	NS	Decline	Rare	High	8	1	no	-	C
<i>Hammarbya paludosa</i>	bog orchid	Flw Plants	1	NS	Stable	Rare	Low	8	-	no	-	C
<i>Helleborus foetidus</i>	stinking hellebore	Flw Plants	1	RI	Decline	Scarce	Low	1	-	no	-	L
<i>Herminium monorchis</i>	musk orchid	Flw Plants	1	NS	Decline	Rare	Low	6	-	no	-	L
<i>Hordelymus europaeus</i>	wood barley	Flw Plants	1	Is	Rapid Decline	Rare	High	1	-	no	-	L
<i>Hordeum marinum</i>	sea barley	Flw Plants	1	RI	Decline	Rare	Medium	16	-	no	-	L
<i>Hypochaeris glabra</i>	smooth cat's-ear	Flw Plants	1	Is	Decline	Rare	High	8	4,17,20	no	-	C
<i>Iberis amara</i>	wild candytuft	Flw Plants	1	Is	Decline	Rare	High	6	-	no	-	L
<i>Illecebrum verticillatum</i>	coral necklace	Flw Plants	1	NS	Stable	Rare	Low	8	10a,20	no	-	L
<i>Inula crithmoides</i>	golden samphire	Flw Plants	1	NS	Stable	Scarce	High	15	14	no	-	L
<i>Juniperus communis</i>	juniper	Flw Plants	1	-	Decline	Uncommon	-	6	8	no	-	P
<i>Lathyrus aphaca</i>	yellow vetchling	Flw Plants	1	Is	Decline	Rare	High	4	6	no	-	L
<i>Lathyrus japonicus</i>	sea pea	Flw Plants	1	Is	Decline	Rare	High	14	-	no	-	BC
<i>Leersia oryzoides</i>	cut-grass	Flw Plants	1	Is	Decline	Rare	High	11a	12	no	-	P

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<i>Leucojum aestivum</i>	summer snowflake (Loddon lily)	Flw Plants	1	NS	Decline	Rare	Low	9	11	no	-	L
<i>Lithospermum arvense</i>	corn gromwell	Flw Plants	1	NS	Rapid Decline	Rare	High	4	-	no	-	C
<i>Lobelia urens</i>	heath lobelia	Flw Plants	1	NS	Stable	Rare	High	8	5	yes	D	C
<i>Lotus angustissimus</i>	slender bird's-foot trefoil	Flw Plants	1	NS	Stable	Scarce	Low	5	-	no	-	C
<i>Ludwigia palustris</i>	Hampshire purslane	Flw Plants	1	RH	Stable	Rare	Low	nf10a	nf9,nf11a	no	-	C
<i>Melittis melissophyllum</i>	bastard balm	Flw Plants	1	NS	Decline	Rare	High	1	-	no	-	L
<i>Mentha pulegium</i>	pennyroyal	Flw Plants	1	NS	Stable	Rare	Low	10a	8,20	no	-	P
<i>Minuartia hybrida</i>	fine-leaved sandwort	Flw Plants	1	Is	Decline	Rare	High	6	4,20,21	no	-	L
<i>Oenanthe fluviatilis</i>	river water-dropwort	Flw Plants	1	Is	Rapid Decline	Rare	High	11	12	no	-	C
<i>Orchis morio</i>	green-winged orchid	Flw Plants	1	Wi	Rapid Decline	Uncommon	High	5	6	no	-	BC
<i>Orobanche purpurea</i>	yarrow broomrape	Flw Plants	1	Is	Decline	Rare	High	5	-	no	-	L
<i>Orobanche rapum-genistae</i>	greater broomrape	Flw Plants	1	Is	Decline	Rare	High	5	8	no	-	C
<i>Paropholis incurva</i>	curved hard grass	Flw Plants	1	RI	Decline	Scarce	High	14	13,17	no	-	L
<i>Persicaria mitis</i>	tasteless water-pepper	Flw Plants	1	NS	Decline	Rare	High	10	8,9	no	-	L
<i>Petrorhagia nanteuilii</i>	Childing pink	Flw Plants	1	NS		Rare	High	14	-	yes	C D E	C
<i>Poa bulbosa</i>	bulbous meadow grass	Flw Plants	1	RI	Decline	Rare	High	14	17	no	-	L
<i>Polypogon monspeliensis</i>	annual beard grass	Flw Plants	1	NS	Stable	Rare	High	16	-	no	-	L
<i>Potamogeton trichoides</i>	hair-like pondweed	Flw Plants	1	Is	Decline	Rare	High	10	12	no	-	L
<i>Puccinellia fasciculata</i>	borrer's saltmarsh grass	Flw Plants	1	RI	Decline	Rare	High	15	-	no	-	L
<i>Puccinellia rupestris</i>	stiff saltmarsh grass	Flw Plants	1	RI	Decline	Rare	High	15	-	no	-	L
<i>Pulicaria vulgaris</i>	small fleabane	Flw Plants	1	NS	Stable	Scarce	Low	10a	8	no	-	C
<i>Pulmonaria longifolia</i>	narrow leaved lungwort	Flw Plants	1	NS	Decline	Scarce	Low	nf1	nf8	no	-	L
<i>Ranunculus arvensis</i>	corn buttercup	Flw Plants	1	Is	Rapid Decline	Rare	High	4	-	no	-	C
<i>Ranunculus penicillatus</i>	stream water-crowfoot	Flw Plants	1	NS	Stable	Uncommon	Low	11	12	no	-	C
<i>Ranunculus tripartitus</i>	three-lobed crowfoot	Flw Plants	1?	-	-	Rare	High	10a	8	no	-	P
<i>Rhynchospora fusca</i>	brown-beak sedge	Flw Plants	1	NS	Stable	Scarce	Low	8	-	no	-	L
<i>Ruppia cirrhosa</i>	spiral tasselweed	Flw Plants	1	RI	Decline	Rare	High	19	-	no	-	L
<i>Salicornia pusilla</i>	one-flowered glasswort	Flw Plants	1	RI	Stable	Scarce	Low	15	-	no	-	L
<i>Scandix pecten-veneris</i>	shepherd's-needle	Flw Plants	1	NS	Rapid Decline	Rare	High	4	-	no	-	P
<i>Silene gallica</i>	small-flowered catchfly	Flw Plants	1	NS	Rapid Decline	Rare	High	4	16,20	no	-	P
<i>Silene nutans</i>	Nottingham catchfly	Flw Plants	1	NS	Decline	Scarce	High	14	17	no	-	BC
<i>Sonchus palustris</i>	marsh sow thistle	Flw Plants	1	RI	Decline	Rare	High	15	-	no	-	L
<i>Sparganium angustifolium</i>	floating bur-reed	Flw Plants	1	RI	Decline	Rare	High	10	-	no	-	L
<i>Teucrium botrys</i>	cut-leaved germander	Flw Plants	1	NS	Decline	Rare	High	6	-	no	-	C
<i>Thesium humifusum</i>	bastard toadflax	Flw Plants	1	RI	Decline	Scarce	High	6	-	no	-	L
<i>Torilis arvensis</i>	spreading hedge-parsley	Flw Plants	1	NS	Decline	Rare	High	4	-	no	-	P
<i>Trifolium squamosum</i>	sea clover	Flw Plants	1	NS	Decline	Rare	High	16	-	no	-	L

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<i>Trifolium suffocatum</i>	suffocated clover	Flw Plants	1	RI	Decline	Scarce	High	14	-	no	-	L
<i>Ulmus minor ssp. angustifolia</i>	Goodyer's elm	Flw Plants	1	NS	Rapid Decline	Scarce	High	3	-	no	-	L
<i>Utricularia intermedia</i>	intermediate bladderwort	Flw Plants	1?	Is	Decline	Rare	High	8	-	no	-	L
<i>Valerianella rimosa</i>	broad-fruited corn salad	Flw Plants	1	Is	Rapid Decline	Rare	High	4	-	no	-	P
<i>Viola lactea</i>	pale dog violet	Flw Plants	1	NS	Decline	Scarce	Low	8	5	no	-	L
<i>Vulpia ciliata ssp. ambigua</i>	bearded fescue	Flw Plants	1	NS	Stable	Scarce	Low	8	17	no	-	L
<i>Vulpia fasciculata</i>	dune fescue	Flw Plants	1	Is	Decline	Rare	High	17	14	no	-	L
<i>Vulpia unilaterialis</i>	mat-grass fescue	Flw Plants	1	NS	Stable	Rare	High	6	-	no	-	L
<i>Zostera angustifolia</i>	narrow leaved eelgrass	Flw Plants	1	RI	Decline	Scarce	High	18	-	no	-	BC
<i>Zostera marina</i>	eelgrass	Flw Plants	1	RI	Decline	Scarce	High	18	-	no	-	C
<i>Zostera noltii</i>	dwarf eelgrass	Flw Plants	1	RI	Decline	Scarce	High	18	-	no	-	BC
<i>Boletus regius</i>	royal bolete	Fungi	1	-	Decline	Rare	-	2	-	no	-	P
<i>Boletus satanas</i>	Devil's bolete	Fungi	1	NS	Decline	Rare	-	1	2,6	yes	B E	P
<i>Hericium coralloides</i>	coral fungus	Fungi	1	NS	Decline	Rare	High	nf1	nf2	yes (g)	C D E	L
<i>Hericium erinaceus</i>	hedgehog fungus	Fungi	1	NS	Decline	Rare	High	nf1	nf2	yes (g)	C D E	P
<i>Hydnellum conrescens</i>	a tooth fungus	Fungi	1	NS	-	-	-	1	2	yes (g)	B E	P
<i>Hydnellum scrobiculatum</i>	a tooth fungus	Fungi	1	Is	-	-	-	nf1	nf2	no	-	P
<i>Hydnellum spongiosipes</i>	a tooth fungus	Fungi	1	NS	-	-	-	nf1	nf2	yes (g)	B E	P
<i>Hygrocybe calyptraeformis</i>	a fungus	Fungi	1?	-	-	-	-	5	2,6	no	-	P
<i>Microglossum olivaceum</i>	an earth tongue	Fungi	1	-	Decline	Rare	High	nf8	nf1,nf5	no	-	P
<i>Phellodon confluens</i>	a tooth fungus	Fungi	1	NS	-	-	-	nf1	nf2	yes (g)	B E	P
<i>Phellodon melaleucus</i>	a tooth fungus	Fungi	1	NS	-	-	-	nf1	nf2	yes (g)	B E	P
<i>Phellodon niger</i>	a tooth fungus	Fungi	1	NS	-	-	-	nf1	nf2	yes (g)	B E	L
<i>Poronia punctata</i>	nail fungus	Fungi	1	NS	Stable	Scarce	Low	8	2	no	-	P
<i>Sarcodon scabrosus</i>	a tooth fungus	Fungi	1	NS	-	-	-	1	2	yes (g)	B E	P
<i>Sarcodon squamosus (imbricatus)</i>	a tooth fungus	Fungi	1	Is	-	-	-	nf1	nf2	no	-	P
<i>Agonimia allobata</i>	a lichen	Lichens	1	NS	Decline	Rare	-	2	-	yes (g)	C E	L
<i>Agonimia octospora</i>	a lichen	Lichens	1	NS	Stable	Scarce	-	2	-	yes (g)	C E	L
<i>Bacidia incompta</i>	a lichen	Lichens	1	-	Decline	Rare	-	2	-	yes (g)	C E	P
<i>Bactrospora corticola</i>	a lichen	Lichens	1?	Is	Rapid Decline	Rare	High	2	-	no	-	L
<i>Catillaria laureri</i>	Laurer's catillaria	Lichens	1	RH	Stable	Rare	Low	nf2	-	yes (g)	C E	C
<i>Enterographa elaborata</i>	New Forest beech lichen	Lichens	1	RH	Stable	Rare	High	nf2	-	yes (g)	C E	P
<i>Enterographa soreliata</i>	a lichen	Lichens	1	NS	-	Scarce	-	nf2	-	yes (g)	C E	P
<i>Lobaria virens</i>	a lichen	Lichens	1	NS	-	Scarce	-	2	-	yes (g)	C E	C
<i>Opegrapha fumosa</i>	a lichen	Lichens	1	NS	-	Scarce	-	2	-	yes (g)	C E	P
<i>Parmelia minarum</i>	New Forest parmelia	Lichens	1	NS	Stable	Scarce	Low	nf2	-	yes (g)	C E	C

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<i>Phyllopsora rosei</i>	a lichen	Lichens	1	NS	-	Scarce	-	2	-	yes (g)	C E	L
<i>Rinodina isidioides</i>	a lichen	Lichens	1	RI	-	Scarce	-	2	-	yes (g)	C E	L
<i>Strigula stigmatella</i>	a lichen	Lichens	1	RH	-	Rare	-	2	-	yes (g)	C E	BC
<i>Zamenhofia rosei</i>	Francis' blue-green lichen	Lichens	1	NS	Stable	Scarce	Low	2	-	yes (g)	C E	P
<i>Apodemus flavicollis</i>	yellow-necked mouse	Mammals	1	RI	Decline	Scarce	Low	1	3	no	-	L
<i>Arvicola terrestris</i>	water vole	Mammals	1	NS	Rapid Decline	Uncommon	High	11	9,10,12	yes	B D E	P
<i>Barbastellus barbastellus</i>	barbastelle bat	Mammals	1	Is	-	Rare	High	m	1,2,3,5,10,11	yes	A D	P
<i>Eptesicus serotinus</i>	Serotine bat	Mammals	1	RI	Stable	Scarce	Low	m	1,2,3,5,10,21	yes	A B	C
<i>Lepus europaeus</i>	brown hare	Mammals	1	Wi	Decline	Uncommon	High	4	5,6,7	no	-	P
<i>Lutra lutra</i>	otter	Mammals	1	Is	Increasing	Scarce	High	11	10,11a	yes	A B D	P
<i>Micromys minutus</i>	harvest mouse	Mammals	1	RI	Decline	Scarce	High	4	3	no	-	L
<i>Muscardinus avellanarius</i>	dormouse	Mammals	1	NS	Decline	Scarce	High	1	3	yes	B D	P
<i>Myotis bechsteinii</i>	Bechstein's bat	Mammals	1	NS	-	Rare	High	m	1,3,5	yes	A D	P
<i>Neomys fodiens</i>	water shrew	Mammals	1	RI	Decline	Uncommon	High	9	10,11	no	-	C
<i>Phoena phocoena</i>	harbour porpoise	Mammals	1	-	-	-	-	22	-	no	-	P
<i>Pipistrellus pipistrellus</i>	pipistrelle bat	Mammals	1	Wi	Rapid Decline	Scarce	High	m	1,3,5,9,11,21	yes	A B	P
<i>Plecotus austriacus</i>	grey long-eared bat	Mammals	1	NS	-	Rare	High	m	1,3,5,21	no	-	C
<i>Rhinolophus ferrumequinum</i>	greater horseshoe bat	Mammals	1	Is	Decline	Rare	High	m	1,3,5,8,11	yes	A D	P
<i>Chordeuma proximum</i>	a millipede	Millipedes	1?	-	-	-	-	1	-	no	-	C
<i>Melagona scutullare</i>	a millipede	Millipedes	1?	-	-	-	-	1	3,21	no	-	C
<i>Nanogona polydesmoides</i>	a millipede	Millipedes	1?	-	-	-	-	1	5,6	no	-	C
<i>Polydesmus coriaceus (inconstans)</i>	a millipede	Millipedes	1?	-	-	-	-	7	4,5	no	-	C
<i>Ashfordia granulata</i>	a snail	Molluscs	1	Wi	-	Uncommon	-	7	1,3,9	no	-	C
<i>Ena montana</i>	mountain bulin snail	Molluscs	1	RI	Stable	Rare	Low	1	3	no	-	C
<i>Heleobia stagnorum</i>	a marine snail	Molluscs	1?	-	-	-	-	19	-	no	-	L
<i>Helicella itala</i>	heath snail	Molluscs	1?	Is	Decline	Rare	High	6	17,20	no	-	BC
<i>Helicodonta obvolvata</i>	cheese snail	Molluscs	1	NS	Stable	Rare	Low	1	-	no	-	C
<i>Hydrobia ventrosa</i>	spire snail	Molluscs	1?	NS	Decline	Scarce	High	19	15,16	no	-	C
<i>Lymnaea glabra</i>	glutinous snail	Molluscs	1?	-	Decline	Rare	High	10a	8,9	no	-	C
<i>Monacha carthusiana</i>	carthusian snail	Molluscs	1	Is	Decline	Rare	High	6	16,17,20	no	-	C
<i>Ostrea edulis</i>	European oyster	Molluscs	1	NS	Stable	Uncommon	High	22	18	no	-	P
<i>Pisidium tenuilineatum</i>	Fine-lined pea mussel	Molluscs	1	NS	Decline	Rare	High	11	12	no	-	P
<i>Pseudanodonta complanata</i>	depressed river mussel	Molluscs	1?	Wi	Stable	Rare	High	11	12	no	-	P
<i>Truncatella subcylindrica</i>	looping snail	Molluscs	1	NS	Decline	Rare	High	19	14,15	no	-	C
<i>Valvata macrostoma</i>	Large mouthed valve snail	Molluscs	1	-	Decline	Rare	High	7	9,10	yes	C D	C
<i>Vertigo moulinsiana</i>	Desmoulin's whorl snail	Molluscs	1	NS/locally Wi	Stable?	Scarce?	Low	9	7,10,11	no	-	P

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<i>Acosmetia caliginosa</i>	reddish buff	Moths	1 (x/reintro)	Is	Decline	Rare	High	nf8	-	yes	C D E	P
<i>Adscita geryon</i>	cistus forester	Moths	1	Wi	Rapid Decline	Rare	High	6	-	no	-	L
<i>Adscita statures</i>	forester moth	Moths	1	Wi	Rapid Decline	Rare	High	5	1,8	no	-	C
<i>Agrochola haematidea</i>	southern chestnut	Moths	1	NS	Increasing?	Rare	-	8	-	no	-	C
<i>Agrotis cinerea</i>	light feathered rustic	Moths	1	RI	Stable ?	Scarce	-	6	-	no	-	C
<i>Apoda limacodes</i>	festoon	Moths	1	NS	Decline	Rare	Low	1	2	no	-	C
<i>Catocala promissa</i>	light crimson underwing	Moths	1	NS	Stable	Rare	Low	nf1	nf2	no	-	P
<i>Catocala sponsa</i>	dark crimson underwing	Moths	1	NS	Stable	Rare	Low	nf1	nf2	no	-	P
<i>Chlorissa viridata</i>	small grass emerald	Moths	1	NS	Decline	Rare	Low	8	-	no	-	L
<i>Cleora cinctaria</i>	ringed carpet	Moths	1	NS	Rapid Decline	Rare	Low	8	-	no	-	L
<i>Coscinia cribaria bivittata</i>	speckled footman moth	Moths	1?	-	Decline	Rare	High	8	-	no	-	P
<i>Cosmia diffinis</i>	white spotted pinion	Moths	1?	Wi	Rapid Decline	Rare	High	1	2,3,20	no	-	P
<i>Cossus cossus</i>	goat moth	Moths	1	Wi	Rapid Decline	Rare	High	1	2,3,8,9,20,21	no	-	C
<i>Cuculia asteris</i>	starwort	Moths	1	NS	Decline	Rare	Low	15	1,2	no	-	C
<i>Cucullia lychnitis</i>	striped lychnis	Moths	1	NS	Stable	Scarce	Low	20	1,2,3,4,6	yes	A C D E	P
<i>Cyclophora pendularia</i>	dingy mocha	Moths	1	NS	Rapid Decline	Rare	High	nf8	-	yes	C D	P
<i>Dicycla oo</i>	heart moth	Moths	1	RI	Decline	Rare	Low	2	1	no	-	P
<i>Dyscia fagara</i>	Grey scalloped bar	Moths	1	Wi	Rapid Decline	Rare	Low	8	-	no	-	C
<i>Eilema sororcula</i>	orange footman	Moths	1	RI	Stable?	Scarce	-	1	-	no	-	C
<i>Eriogaster lanestris</i>	small eggar moth	Moths	1	Wi/RI	Severe Decline in past - now stable?	Rare	High	3	-	no	-	C
<i>Hadena albimacula</i>	white spot moth	Moths	1	NS	Decline	Rare	Low	14	13	no	-	P
<i>Heliophobus reticulata</i>	bordered gothic	Moths	1	Is	Rapid Decline	Rare	High	6	13	no	-	P
<i>Heliiothis maritima warnecke</i>	shouder-striped clover	Moths	1	NS	Decline	Rare	Low	8	-	no	-	C
<i>Heliiothis viriplaca</i>	marbled clover	Moths	1	RI	Decline	Rare	-	6	4	no	-	C
<i>Hemaris fuciformis</i>	broad-bordered bee hawk	Moths	1	RI	Decline	Scarce	-	1	-	no	-	C
<i>Hemaris tityus</i>	narrow-bordered bee hawk	Moths	1	RI	Rapid Decline (Hants. stable?)	Rare	Low	5	6,7,8	no	-	P
<i>Heterogenea asella</i>	triangle moth	Moths	1	NS	Stable	Rare	Low	1	2	no	-	C
<i>Hypena rostralis</i>	buttoned snout	Moths	1	Wi/Is	Decline	Scarce	Low	3	1,21	no	-	P
<i>Jodia croceago</i>	orange upperwing moth	Moths	1?	RI	Decline	Rare	High	1	-	no	-	P
<i>Lasiocampa trifolii</i>	grass eggar	Moths	1	RI	Stable	Scarce	Low	17	8	no	-	L
<i>Mecyna flavalis</i>	a pyralid moth	Moths	1	RI	Stable	Rare	Low	6	-	no	-	L
<i>Meganola strigula</i>	small black arches	Moths	1	RI	Decline	Rare	-	1	2	no	-	C
<i>Microthrix similella</i>	a pyralid moth	Moths	1	RI	Stable	Scarce	Low	1	2	no	-	L

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<i>Minoa murinata</i>	drab looper	Moths	1	Wi	Decline	Rare	Low	1	-	no	-	P
<i>Moma alpium</i>	scarce merveille du jour	Moths	1	NS	Decline	Scarce	Low	1	2	no	-	P
<i>Mythimna favicolor</i>	Matthew's wainscot	Moths	1	RI	Decline	Rare	Low	15	-	no	-	C
<i>Mythimna turca</i>	double line	Moths	1?	Is	Rapid Decline	-	-	8	1	no	-	P
<i>Noctua orbona</i>	lunar yellow underwing	Moths	1	NS	Stable	Rare	Low	6	1,2,3,5,7	no	-	P
<i>Oncocera genistella</i>	a pyralid moth	Moths	1	RI	Stable	Rare	Low	14	-	no	-	L
<i>Oria musculosa</i>	Brighton wainscot moth	Moths	1?	RI	Rapid Decline	Rare	High	4	-	no	-	P
<i>Paracolax tristalis (derivalis)</i>	clay fan foot	Moths	1?	Is	-	Rare	Low	1	-	no	-	P
<i>Pareulype berberata</i>	barberry carpet	Moths	1	NS	Rapid Decline	Rare	High	3	6	yes	C D E	P
<i>Pechipogo strigilata</i>	common fan foot	Moths	1	Wi	Rapid Decline	Rare	High	1	2	no	-	P
<i>Polia bombycina</i>	pale shining brown	Moths	1	Wi	Rapid Decline	Rare	High	6	1	no	-	P
<i>Rheumaptera hastata</i>	argent and sable	Moths	1	Wi	Decline	Rare	High	1	2,8	no	-	P
<i>Schrankia taenialis</i>	white-line snout	Moths	1	Wi	Rapid Decline	Rare	High	1	-	no	-	P
<i>Scotopteryx bipunctaria</i>	chalk carpet	Moths	1	Wi	Decline	Rare	High	6	-	no	-	P
<i>Spilosoma urticae</i>	water ermine	Moths	1?	Is	Rapid Decline	Rare	-	9	-	no	-	C
<i>Trichopteryx polycommata</i>	barred tooth-striped	Moths	1	Wi	Rapid Decline	Rare	High	3	1,6	yes	C D	P
<i>Tyta luctuosa</i>	four-spotted	Moths	1?	-	Rapid Decline	Rare	High	6	4	no	-	P
<i>Xanthorhoe biriviata</i>	balsam carpet	Moths	1	RI	Increasing	Rare	Low	7	11,12	no	-	L
<i>Coronella austriaca</i>	smooth snake	Reptiles	1	NS	Decline	Rare	High	8	-	yes	D E	C
<i>Lacerta agilis</i>	sand lizard	Reptiles	1	NS	Decline	Rare	High	8	-	no	-	P
<i>Nematostella vectensis</i>	starlet sea-anemone	Sea-anemones	1	NS	Decline	Scarce	High	19	-	no	-	P
<i>Centromerus albidus</i>	a spider	Spiders	1	NS	-	Rare	Low	1	-	no	-	C
<i>Hyptiotes paradoxus</i>	a spider	Spiders	1	-	-	Rare	Low	1	2	no	-	C
<i>Uloborus walckenaerius</i>	a spider	Spiders	1	-	Decline	Rare	Low	8	-	no	-	P
<i>Cicadetta montana</i>	New Forest cicada	True Bugs	1	RH	Rapid Decline	Rare	Low	8	-	no	-	P
<i>Orthotylus rubidus</i>	a capsid bug	True Bugs	1?	Is	Decline	Rare	High	15	-	no	-	P
<i>Chrysis fulgida</i>	a ruby-tailed wasp	Wasps	1	RH	-	-	-	8	-	yes	C D E	P
<i>Crossocerus vagabundus</i>	a wasp	Wasps	1	NS	-	Rare	-	nf1	nf2,nf9	yes	C E	C
<i>Homonotus sanguinolentus</i>	a spider wasp	Wasps	1	NS	-	Rare	-	8	-	no	-	P