Cambridgeshire and Peterborough County Wildlife Sites

Selection Guidelines

VERSION 7.3

October 2023

CAMBRIDGESHIRE & PETERBOROUGH COUNTY WILDLIFE SITES PANEL

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The panel includes suitably qualified and experienced representatives from The Wildlife Trust for Bedfordshire, Cambridgeshire and Northamptonshire; Natural England; County, District and City Councils within Cambridgeshire; District Councils within Cambridgeshire, Cambridgeshire and Peterborough Environmental Records Centre, Farming and Wildlife Advisory Group East and amateur recorders and recording groups including the Cambridgeshire Geological Society and the Cambridgeshire Flora Group. Its aim is to agree the basis for site selection, reviewing and amending them as necessary based on the best available biological information concerning the county.

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INTRODUCTION

The Selection Criteria are substantially based on <u>Guidelines for selection of biological</u> <u>SSSIs</u> published by the Nature Conservancy Council (succeeded by English Nature) in 1989. Appropriate modifications have been made to accommodate the aim of selecting a lower tier of sites, i.e. those sites of county and regional rather than national importance. Modifications have also been made to reflect the views of the numerous authorities consulted during the preparation of the Criteria. From time to time it has been necessary to update or modify the criteria to reflect increased scientific knowledge and the changing status of species and habitats within the country and the county.

The Criteria seek to apply concrete definitions and local thresholds to standard concepts of ecological evaluation such as diversity, rarity, size and typicalness. It should not be supposed that the selection of County Wildlife Sites is then a simple matter of rigid comparison between the site and the Criteria. The number of variables that go to make up the ecological value of a site is large and diverse in quality. Best professional judgment must be employed in the assessment of the merits of each individual site. The Criteria help to ensure that subjectivity in assessment is minimised and that a consistent approach to CWS selection is maintained. In some cases sites that do not meet the letter of the Criteria may be proposed for CWS status and, conversely, sites that do qualify on paper will not be proposed. A site will not be deselected if it has suffered willful neglect or malicious damage and there is the potential to restore ecological features that would enable qualification against the Criteria.

For a number of less well known taxonomic groups, such as invertebrates, stoneworts, lichens and fungi, the Criteria are either not well developed or are completely lacking. In many cases it will be necessary to select sites using the knowledge and data of local experts in these groups. It is hoped that as the Cambridgeshire & Peterborough Environmental Records Centre builds up its database of biological information for the county, sufficient information will be available to develop Criteria to encompass these groups in a suitably detailed and rigorous way.

The Local Site System (including Local Geological and Local Wildlife Sites) in Cambridgeshire and Peterborough is operated by the County Wildlife Sites Panel. The <u>Cambridgeshire and Peterborough County Wildlife Site System Handbook</u> sets out how the County Wildlife Site system operates in this area. It is aimed at all people who deal with CWSs such as land owners and managers, local government officers and officers within statutory agencies. It should be read in conjunction with this document and details management and operation of the system, including the processes of site selection and monitoring, data handling and ratification through the CWS Panel.

Unless stated otherwise all uses of the term 'Cambridgeshire' refer to both the current administrative county of Cambridgeshire and Peterborough City Council.

CRITERIA FOR SELECTION OF COUNTY WILDLIFE SITES

1. WOODLAND, TREES and HEDGES

Appendix 1A - ancient woodland indicators, woodland plants & woody species for determining scrub and hedgerow value

Appendix 1B - guidelines for assessing veteran trees

Appendix 1C - fruit and nut species included in traditional orchards in Cambridgeshire and Peterborough

Appendix 1D- rare or scarce fruit varieties and varieties of local significance Appendix 1E - local traditional orchard management practices

- a **All ancient semi-natural woodlands** included in Cambridgeshire Inventory of Ancient Woodlands which retain over 25% semi-natural cover.
- b **Ancient woodlands over 75% replanted** included in Cambridgeshire Inventory of Ancient Woodlands and containing one of the following:
 - (i) more than 10 ancient woodland indicator species
 - (ii) more than 40 woodland plants
- c Ancient semi-natural woods under 2ha with one of the following:
 - (i) more than 5 ancient woodland indicator species
 - (ii) more than 30 woodland plants

(iii) good example of NVC W8 (ash - field maple - dog's mercury woodland)

(iv) good example of NVC W10 (pedunculate oak - bracken - bramble woodland)

d Good examples of the following wet woodlands which are more than 0.5ha. in size:

- (i) NVC W1 (grey willow marsh bedstraw)
- (ii) NVC W2 (grey willow downy birch common reed)
- (iii) NVC W6 (alder stinging nettle)
- e **Areas of scrub more than 0.5ha in extent** with NVC W21 (common hawthorn ivy) with more than 8 woody species.
- f **Hedges:** hedgerow systems at least 500m in length and more than 2m in width, with 5 or more woody species, and with at least part of the hedgerow allowed to flower and fruit. (Normal hedgerow management of coppicing or laying may mean that at least part of the system will not be at the optimum size or condition for wildlife at all times).

g Pasture woodland and Parkland with either:

(i) an average of more than 5 mature trees per hectare
(ii) groups of 5-19 veteran trees when in association with other seminatural features such as grassland, hedgerows or woodlands
(iii) groups of 20 or more veteran trees, even in an arable setting

h Pollard willows:

(i) groups of 5-19 mature pollard willows when in association with other semi-natural features such as grassland, ditches and rivers

(ii) groups of 20 or more mature pollard willows, even in an arable setting

i Traditional Orchards:

Traditional orchards will be selected as CWS if they contain

 A group of 5 or more top fruit¹ or nut trees² (see Appendix 1C for a list of species)

AND satisfy two or more of the following

Biological criteria

- 2. Contain at least **20% of veteran trees** as defined in Appendix 1B.
- 3. The presence of a nationally rare or scarce species or species rare in the county
- 4. Associated natural or semi-natural habitat, within or adjacent to the site (e.g. woodland, unimproved grassland, ponds, hedgerows)

Cultural and aesthetic criteria

- The presence of rare or scarce fruit varieties, or of varieties of local significance³
- Continuing traditional orchard management practices that are sympathetic with biodiversity objectives <u>and</u> reflect local cultural traditions. See Appendix 1E for examples of local traditional orchard management practices.

Some sites, even if not accessible to the public, can be important visually or be reservoirs for wildlife in an intensively managed landscape. People's contact with wildlife and wildlife habitats in their home and work environments is important for promoting quality of life and well-being. Educational use and community involvement in management may also be important.

¹ Any fruit that grows or hangs from a tree.

² A tree that bears edible nuts.

³ Conserving genetic diversity is important as a social and economic resource and to preserve particular varieties that are now not common. See list in Appendix 1D.

2. GRASSLANDS

Appendix 2A - Cambridgeshire neutral and calcareous grassland indicator species Appendix 2B - Cambridgeshire grassland species

Appendix 2C - Cambridgeshire indicator species for dry and wet acidic grasslands and open communities on sandy or acidic substrates

- a **Neutral grasslands** supporting at least 0.05 ha. (either in a block or as a number of smaller areas) of one or more of the following NVC communities:
 - (i) MG4 (meadow foxtail greater burnet flood meadow)
 - (ii) MG5 (crested dog's-tail common knapweed meadow and pasture)
 - (iii) MG8 (crested dog's-tail marsh marigold flood pasture)
 - (iv) MG11 (red fescue creeping bent silverweed inundation pasture)
 - (v) MG13 (creeping bent marsh foxtail inundation grassland)
- b **Calcareous grasslands** supporting at least 0.05 ha. (either in a block or as a number of smaller areas) of one or more of the following NVC communities:
 - (i) CG2 (sheep's fescue meadow oat-grass grassland)
 - (ii) CG3 (upright brome grassland)
 - (iii) CG4 (tor grass grassland)
 - (iv) CG5 (upright brome tor grass grassland)
 - (v) CG7 (sheep's fescue mouse-ear hawkweed wild thyme grassland)
- c Sites supporting locally frequent numbers of either:
 - (i) three or more strong neutral grassland indicator species
 - (ii) six or more strong calcareous grassland indicator species
- d Sites supporting locally frequent numbers of either:

(i) eight or more neutral grassland indicator species (strong and weak)

(ii) sixteen or more calcareous grassland indicator species (strong and weak)

- e Sites supporting more than 50 grassland species.
- f **Acidic grasslands** supporting at least 0.05 ha. (either in a block or as a number of smaller areas) of NVC U1 (sheep's fescue common bent sheep's sorrel grassland).

(At present there is insufficient field evidence and testing to set definitive thresholds for the numbers of strong and weak acid grassland indicator species required to select a County Wildlife Site in Cambridgeshire. In practice any site with substantial numbers and good quality habitats is likely to be worthy of selection).

g Long-established grassland over 1ha in size, which supports at least 8 neutral or calcareous grassland indicator species (of which at least 3 are strong) that have not been deliberately introduced.

3. FENS, SWAMPS AND MARSHES

- a Good examples of **topogenous fens supporting at least 0.05 ha.** (either in a block or as a number of smaller areas) of the following NVC communities:
 - (i) S24 (common reed milk parsley tall herb fen)
 - (ii) S2 (saw sedge swamp and sedge beds)
 - (iii) S3 (tussock sedge swamp)
 - (iv) S13 (lesser reed-mace swamp)
 - (v) S20 (grey club-rush swamp)
- b Good examples of **topogenous fens supporting at least 0.5 ha.** (either in a block or as a number of smaller areas) of the following NVC communities:
 - (i) S25 (common reed hemp agrimony tall herb fen)
 - (ii) S26 (common reed stinging nettle tall herb fen)
 - (iii) S4 (common reed swamp and reed-beds)
 - (iv) S5 (reed sweet-grass swamp)
 - (v) S6 (greater pond-sedge swamp)
 - (vi) S7 (lesser pond-sedge swamp)
- c Good examples of **soligenous fens supporting NVC M13** (black bog-rush blunt flowered rush).
- d Good examples of **fen meadow** supporting at least 0.05 ha. (either in a block or as a number of smaller areas) of the following NVC communities:
 - (i) M22 (blunt-flowered rush marsh thistle fen meadow)
 - (ii) M24 (purple moor-grass meadow thistle fen meadow)
- e Good examples of **fen meadow** supporting at least 0.25 ha. of NVC community M27 (meadowsweet wild angelica mire).
- f **Continuous area of fen** of any category over 2.5 ha which is not appreciably degraded.
- g Sites at least 0.5 ha in extent containing well developed **vegetation mosaics** which represent hydroseral zonation.
- h Sites at least 0.1 ha in extent which have a **combination of two or more fen types.**
- i Chalk or limestone grasslands containing **flushes**, **seepages or springs** which are not appreciably degraded.

4. FRESHWATER HABITATS

Appendix 3 - Classification of standing water types 10A and 10B

- a All **major rivers** together with adjacent semi-natural habitat (grassland, marsh, swamp, scrub, trees and woodland) unless the river has been grossly modified through canalization and/or poor water quality.
- b **Type 10A standing water bodies** with one of the following:
 - (i) 5 submerged and floating species
 - (ii) 15 submerged, floating and emergent species

(most ponds and gravel pits will fall into this vegetation type).

c **Type 10B standing water bodies** with one of the following:

- (i) 3 submerged and floating species
- (ii) 10 submerged, floating and emergent species
- (iii) beds of stoneworts

(this type of community occurs in strongly calcareous water bodies, especially in flooded brickpits, chalkpits and in the chalk lodes).

d Any water body with **three or more species of pondweed** (*Potamogeton spp.*).

e **Ditches** with at least 5 submerged, floating and emergent species per 20m or at least 10 submerged, floating, emergent and wetbank species per 20m. (Normal ditch management will affect the apparent quality of a ditch, which is likely to reach its optimum state two to three years after slubbing out. This variation should be borne in mind when selecting sites.)

5. HABITAT MOSAICS

a Sites of more than 10ha. in size which **support three or more of the following** habitat features in close association:

unimproved/semi-improved grassland 'interesting' ruderal communities mature trees woodland (ancient and recent) scrub hedgerows marshy grassland swamp open water including rivers, streams, ditches, ponds, pits and lakes

At least one habitat feature should either be of or closely approaching County Wildlife Site status in its own right. (Many of these sites will be of value for birds and/or invertebrates, and may qualify under these criteria if sufficient data are available for evaluation).

6. VASCULAR PLANTS

Appendix 4A - Nationally Rare, Nationally Scarce & Red Data List vascular plants found in Cambridgeshire & Peterborough

- a Sites supporting populations of **Nationally Rare**, **Nationally Scarce** or **Red List species** (as listed in Appendix 4A).
- b Locations supporting populations of species which are considered locally rare or scarce, are listed on at least one of the local vice-county Rare Plant Registers and are present at no more than 6 known sites in Cambridgeshire and Peterborough. (A site is defined here as an area of one kilometre radius centred around a population).

Sites should only be selected where it is known that the Nationally Rare, Nationally Scarce or Locally Rare species have been established at the site for *at least* five years and are not the result of a recent human introduction.

Refer to latest BSBI rare plant registers for the appropriate vice-county; 29, 31, 32, available from <u>https://bsbi.org/rare-plant-registers</u>. Specialist advice will be needed to determine whether a site should be selected on the basis of a locally rare plant species, as not all plants on the BSBI rare plant registers are of County Wildlife Site interest (e.g. some might be non-native introductions).

c Sites which support outstanding assemblages of arable plant species on arable or disturbed ground either within the whole site or along its margins with a score of at least 30 for calcareous soils and at least 20 for sandy soils, gravels and heavy clays (see Appendix 4B for Plantlife scoring).

7. NON-VASCULAR PLANTS

- a Sites supporting populations of **nationally rare** or **nationally scarce species**.
- b Sites listed as **important** in the Bryophyte Site Registers (NCC 1985) for Huntingdonshire and Cambridgeshire.

8. MAMMALS

a **Breeding roosts of the following bats:**

- (i) Natterer's bat
- (ii) Daubenton's bat
- (iii) Brandt's bat
- (iv) Serotine bat
- (v) Noctule bat
- (vi) Leisler's bat
- (vii)Whiskered bat
- (viii) Barbastelle bat

All sites to include any nearby land regularly used for feeding.

b Significant bat hibernation roosts

c Sites containing confirmed breeding populations of the **common dormouse**.

9. BIRDS

Appendix 5A - Estimated national numbers of birds breeding and wintering in Britain species relevant to Cambridgeshire Appendix 5B - Breeding bird indices Appendix 5C - Rare breeding birds in Cambridgeshire

In all cases a site should have qualified for four out of the last five years.

- a A site which regularly contains **0.5% or more of the total British non-breeding population** of any species during any period (e.g. wintering, non-breeding summer, moulting, passage).
- b A site which supports a **range of breeding birds** with a value equal to or exceeding the following indices:
 - (i) Lowland damp grassland:11
 - (ii) Lowland fen without open water: 13
 - (iii) Lowland open water and margins: 24
 - (iv) Scrub: 10
 - (v) Woodland: 26
- c Breeding sites of a **county rarity**.
- d The five largest colonies of **breeding colonial seabirds**, sand martins or **herons**, provided the colony contains more than ten pairs.
- e Wet meadows containing more than three species and/or six pairs of **breeding** wader.
- f Localities with one of the following recorded in the last five years:
 - (i) 50 breeding species
 - (ii) 60 wintering species
 - (iii) 100 passage species

10. AMPHIBIANS AND REPTILES

Appendix 6 - Scoring system for the selection of sites with assemblages of amphibians

Sites identified under this schedule should exclude gardens, swimming pools and any known introduced populations.

- a Sites supporting populations of **adder**.
- b Sites containing water bodies where more than **50 individual great crested newts** can be counted at night or bottle-trapped during the breeding season.
- c Sites supporting good or exceptional populations of **palmate newt**.
- d Sites supporting at least **three amphibian species** and a minimum score of 6 using the table in Appendix 6.
- e Ponds and lakes supporting **common toads** where more than 500 individuals can be counted in the water or where more than 2500 are estimated to breed.

11. INVERTEBRATES

Appendix 7A – Regionally Red-Listed species of butterflies in Great Britain Appendix 7B – The Odonata Red Data List for Great Britain Appendix 7C - Beetles indicative of continuity of saproxylic habitats, and the method of calculation of the index of ecological continuity Appendix 7D – Invertebrate Index Scores

1. Butterflies

- a All sites supporting populations of **critically endangered**, **endangered or vulnerable species**.
- b Sites supporting one of the five strongest populations in the county of **near threatened species.**

2. Dragonflies

- a All sites supporting populations of **critically endangered**, **endangered or vulnerable species**.
- b Sites supporting one of the five strongest populations in the county of **near threatened species.**
- c Any site supporting **twelve or more species**.

For sections 1 and 2 above all records should have been made within 5 years of the selection date. Only confirmed breeding records should be considered. Recent deliberate introductions should not be included.

3. Saproxylic beetles

a Sites with an **ecological continuity index greater than 8** should be considered for inclusion. Records must be post-1950 (in line with requirements for calculating the Index of Ecological Continuity).

4. Water beetles

a Any site supporting **more than 35 species** should be considered for inclusion.

5. White-clawed Crayfish

a Any site supporting **White-clawed Crayfish** should be considered for inclusion.

6. General

- a Any site with an **invertebrate index exceeding 500** (calculated as summation of scores per status using the table in Appendix 7D) should be considered for inclusion. Records should have been made within 20 years of the selection or review date.
- b* Any site with an A, B or C grading in the JNCC Invertebrate Site Register unless re-survey shows that the site has been significantly degraded since the creation of the Register.
 *Note that this criterion is historical only and should not be used to select new sites. Existing sites with this criterion are being reviewed to see if they qualify under 11.6a instead.
- c Any site supporting significant populations of **Red Data Book or nationally scarce species.** (Butterflies and dragonflies are dealt with under sections 1 and 2 above).

Further advice

Invertebrate data needs to be interpreted carefully, not least because, more than in most groups, the apparent interest of a site can be greatly influenced by recording effort. Also, a site may score highly on a miscellany of species without these collectively indicating a site or habitat of very high quality. Specialist advice should be sought from the Wildlife Trust for all prospective sites.

Records should be within the dates specified, but where a site has not been subject to a specialist invertebrate re-survey, older records can still be used and a site should be retained as a CWS unless there is evidence that the integrity of habitats has changed (e.g. major change in tree cover on woodland sites, loss of pond features on wetland sites).

APPENDIX 1A

ANCIENT WOODLAND INDICATORS, WOODLAND PLANTS, WOODY SPECIES FOR DETERMINING SCRUB AND HEDGEROW VALUE

Nomenclature follows *New Flora of the British Isles* 4th Edition, C.A. Stace, C&M Floristics, 2019 (names from the 1st Edition are included for reference).

List updated January 2013

Scientific name	Common name	AWI	Woodland plant	W21 scrub	Hedgerow value
Acer campestre	Field Maple		у	у	у
Adoxa moschatellina	Moschatel		у		
Agrimonia procera	Fragrant Agrimony		y		
Ajuga reptans	Bugle		у		
Alliaria petiolata	Garlic Mustard		y		
Allium ursinum	Ramsons	у			
Alnus glutinosa	Alder		у		
Anemone nemorosa	Wood Anemone	у			
Aquilegia vulgaris	Columbine		у		
Arctium minus	Lesser Burdock		y		
Arum maculatum	Cuckoo-pint		y		
Athyrium filix-femina	Lady-fern		y		
Atropa belladonna	Deadly Nightshade		y		
Betonica officinalis	Betony	у	y		
Betula pendula	Silver Birch		y	У	
Betula pubescens	Downy Birch		y		
Blechnum spicant	Hard-fern		y		
Brachypodium sylvaticum	Wood False-brome		y		
Bromopsis ramosa	Hairy Brome		y		
Calamagrostis canescens	Purple Small-reed	у			
Calamagrostis epigejos	Wood Small-reed		у		
Campanula trachelium	Nettle-leaved Bellflower	У	,		
Cardamine flexuosa	Wavy Bitter-cress	,	У		
Carex pallescens	Pale Sedge	у			
Carex pendula	Pendulous Sedge	y			
Carex remota	Remote Sedge	y			
Carex sylvatica	Wood-sedge	y			
Carpinus betulus	Hornbeam	,	у		У
Chrysosplenium oppositifolium	Opposite-leaved Golden- saxifrage		у		
Circaea lutetiana	Enchanter's-nightshade		у		
Clematis vitalba	Traveller's-joy		у		
Conopodium majus	Pignut	У			
Convallaria majalis	Lily-of-the-valley	У			
Cornus sanguinea	Dogwood		у	у	у
Corylus avellana	Hazel		y	y	у
Crataegus laevigata	Midland Hawthorn	у		y	y
Crataegus monogyna	Common Hawthorn		у	y	y
Dactylorhiza fuchsii	Common Spotted-orchid		y		
Daphne laureola	Spurge-laurel		y		У
Deschampsia cespitosa	Tufted Hair-grass		y		

Scientific name	Common name	AWI	Woodland plant	W21 scrub	Hedgerow value
Digitalis purpurea	Foxglove		у		
Dipsacus pilosus	Small Teasel		y		
Dryopteris affinis ssp. affinis	Golden-scaled Male-fern	у			
Dryopteris affinis ssp. borreri	Borrer's Male-fern	y			
Dryopteris carthusiana	Narrow Buckler-fern		У		
Dryopteris dilatata	Broad-leaved Buckler-fern		y		
Dryopteris filix-mas	Male-fern		y		
Elymus caninus	Bearded Couch		y		
Epilobium montanum	Broad-leaved Willowherb		y		
Epipactis helleborine	Broad-leaved Helleborine	у			
Epipactis purpurata	Violet Helleborine	ý			
Euonymus europaeus	Spindle	ý		у	У
Euphorbia amygdaloides	Wood Spurge	ý			
Euphorbia lathyris	Caper Spurge	,	у		
Ficaria verna	Lesser Celandine		y y		
Filipendula ulmaria	Meadowsweet		y		
Fragaria vesca	Wild Strawberry		y		
Frangula alnus	Alder Buckthorn		y		у
Fraxinus excelsior	Ash		y	y	y
Gagea lutea	Yellow Star-of-bethlehem	у	, , , , , , , , , , , , , , , , , , ,	,	, ,
Galium odoratum	Sweet Woodruff	y			
Geranium robertianum	Herb-robert	y	у		
Geum rivale	Water Avens	У	y		
Geum urbanum	Wood Avens	, ,	У		
Glechoma hederacea	Ground-ivy		y y		
Hedera helix [mature, woody, 'flowering']	Ivy [mature, woody, 'flowering']		y	у	У
Hedera helix [young, unflowering]	Ivy [young, unflowering]		У		
Helleborus viridis	Green Hellebore		у		
Holcus mollis	Creeping Soft-grass	у			
Hordelymus europaeus	Wood Barley	у			
Hyacinthoides non-scripta	Bluebell		у		
Hylotelephium telephium	Orpine	у	-		
Hypericum hirsutum	Hairy St. John's-wort	y			
Hypericum humifusum	Trailing St. John's-wort	У			
llex aquifolium	Holly		У	у	у
Iris foetidissima	Stinking Iris		y		
Lamiastrum galeobdolon ssp. montanum	Yellow Archangel	у			
Lapsana communis	Nipplewort		У		
Lathraea squamaria	Toothwort		у		
Lathyrus linifolius	Bitter Vetch	У			
Lathyrus sylvestris	Narrow-leaved Everlasting Pea	у			
Ligustrum vulgare	Wild Privet		У	у	у
Lithospermum officinale	Common Gromwell		y		
Lonicera periclymenum	Honeysuckle		y		
Luzula multiflora [both spp.]	Heath Wood-rush		y		
Luzula pilosa	Hairy Wood-rush	у			
Luzula sylvatica	Great Wood-rush	y			
Lysimachia nemorum	Yellow Pimpernel	y			
Lysimachia nummularia	Creeping-jenny	Í	у		

Scientific name	Common name	AWI	Woodland plant	W21 scrub	Hedgerow value
Malus sylvestris	Crab Apple	у		у	у
Melampyrum cristatum	Crested Cow-wheat	у			-
Melampyrum pratense	Common Cow-wheat	y			
Melica nutans	Mountain Melick	y			
Melica uniflora	Wood Melick	ý			
Mercurialis perennis	Dog's Mercury	,	у		
Milium effusum	Wood Millet	у	,		
Moehringia trinervia	Three-veined Sandwort	,	у		
Neottia nidus-avis	Bird's-nest Orchid	у	,		
Neottia ovata	Common Twayblade	,	у		
Ophrys insectifera	Fly Orchid		ý		
Orchis mascula	Early-purple Orchid	у	, ,		
Oxalis acetosella	Wood-sorrel	y			
Paris quadrifolia	Herb-paris	y			
Pimpinella major	Greater Burnet-saxifrage	y			
Platanthera chlorantha	Greater Butterfly-orchid	y			
Poa nemoralis	Wood Meadow-grass	у	у		
Polypodium interjectum	Intermediate Polypody		y y		
Polypodium vulgare	Polypody		y y		
Polystichum setiferum	Soft Shield-fern		*		
			у		
Populus tremula	Aspen Trailing Tormentil		у		У
Potentilla anglica Potentilla sterilis	Barren Strawberry		у		
			У		
Primula elatior	Oxlip	У			
Primula vulgaris	Primrose	У			
Prunella vulgaris	Selfheal		у		
Prunus avium	Wild cherry		У		
Prunus spinosa	Blackthorn		У	У	У
Pteridium aquilinum	Bracken		У		
Pyrus pyraster	Wild Pear	У			У
Quercus petraea	Sessile Oak	У			У
Quercus robur	Pedunculate Oak		У	У	У
Ranunculus auricomus	Goldilocks Buttercup	У			
Rhamnus cartharticus	Purging Buckthorn		У	у	У
Ribes rubrum	Redcurrant		у		
Rosa arvensis	Field Rose		У	у	У
Rosa caesia	Northern Dog-rose		У		У
Rosa canina agg.	Dog rose		у	у	У
Rosa obtusifolia	Round-leaved Dog-rose		у		У
Rosa stylosa	Short-styled Field-rose		у		у
Rosa tomentosa	Harsh Downy-rose		у		у
Rosa sp.	Rose species or hybrid		У		У
Rubus caesius	Dewberry		У		
Rubus fruticosus agg.	Bramble		у		
Rubus idaeus	Raspberry		у		
Rumex sanguineus	Wood dock		у		
Salix caprea	Goat Willow		у		У
Salix cinerea	Grey Willow		y	у	y
Sambucus nigra	Elder		y	y	y
Sanicula europaea	Sanicle		y		-
Schedonorus giganteus	Giant Fescue		y		
Scrophularia nodosa	Common Figwort	1	y		

Scientific name	Common name	AWI	Woodland plant	W21 scrub	Hedgerow value
Silene dioica	Red Campion		у		
Silene flos-cuculi	Ragged-robin		У		
Sorbus torminalis	Wild Service-tree	у			у
Stachys sylvatica	Hedge Woundwort		у		
Stellaria holostea	Greater Stitchwort		у		
Tamus communis	Black Bryony		у		
Teucrium scorodonia	Wood Sage		у		
Tilia cordata	Small-leaved Lime	у			у
Ulmus glabra	Wych Elm		у	у	у
Ulmus minor	Small-leaved Elm		у	у	у
Ulmus procera	English Elm		у	у	у
Ulmus sp	Elm species		У	у	У
Veronica chamaedrys	Germander Speedwell		у		
Veronica montana	Wood Speedwell	у			
Viburnum lantana	Wayfaring-tree		у	у	у
Viburnum opulus	Guelder-rose		у		у
Vicia sepium	Bush Vetch		у		
Viola odorata	Sweet Violet		у		
Viola reichenbachiana	Early Dog-violet	у			
Viola riviniana	Common Dog-violet		у		
1	60	52	108	24	38

GUIDELINES FOR ASSESSING VETERAN TREES

These guidelines are intended to assist in the identification of trees that could be considered as 'veteran', whether they are native or non-native, singular or in groups. These guidelines will be useful when considering wood pasture and hedgerow county wildlife sites.

Veteran trees are important features in the English landscape and for a host of wildlife. The holes and hollows are suitable sites for roosting bats and nesting birds. Hundreds of different fungi, lichens and invertebrates depend on ancient trees. Rotten wood is an extremely valuable habitat especially if it is still standing.

The term '*veteran tree*' is not one of precise definition, but encompasses trees defined by three guiding principles (Read, H. English Nature2000)

- 1. Trees of interest, biologically, aesthetically or culturally because of their age, size or condition (some of these are obvious others are not)
- 2. Trees in an ancient stage of their life
- 3. Trees that are old relative to others of the same species.

NB Girth is not a reliable criterion as different species and individuals have different life spans and growth rates. Age is also not an absolute indicator. It is the features of a tree which should and be used to assess if it is veteran or not. The more features the tree displays the stronger the indication it is veteran.

Hollows	hollow areas on trunks or main branches (>150mm)
Holes	small holes in trunk or branches (<150mm)
Water pockets	water filled tree pools on tree or roots
Rot	Red, brown or white
Deadwood	large amounts of deadwood in crown or on ground
Bark	sap stains, loose old thick bark
Broken branch stubs	live branches which have broken with shattered ends
Splits in trunk or branch	wood fibre separation
Runs or sap/other stains	wet exudes from the surface of the bark, wounds or holes
Bore exit holes	from insect tunnelling with dry powdery residues
Species which may be a	ssociated with veteran trees
Fungi	bracket fungi, toadstools with cap and stalk, skin like covering
Invertebrates	beetles, hoverflies, spiders, millipedes etc
Birds	large birds occupying cavities or nesting birds
Mammals	bats, rodents
Reptiles	snakes or lizards under loose bark
Plants and epiphytes	lichens, ferns, ivy, moss etc

Features indicative of high value are shown in the table below (English Nature 2000):

APPENDIX 1C

FRUIT AND NUT SPECIES INCLUDED IN TRADITIONAL ORCHARDS IN CAMBRIDGESHIRE AND PETERBOROUGH

Malus	encompassing all varieties of apple
Pyrus	encompassing all varieties of pear
Prunus	encompassing all varieties of edible, cultivated prunus: plum, gage, quetsche, damson, myrobalan, cherries and hybrids thereof
Quince	
Medlar	
Black mulberry	
Apricot	
Peach	
Walnut	
Hazelnut	encompassing all varieties of hazel, filbert, cob and hybrids thereof

APPENDIX 1D

LIST OF RARE OR SCARCE FRUIT VARIETIES AND VARIETIES OF LOCAL SIGNIFICANCE

The lists below contain the varieties and tree types of those varieties that are important in terms of top fruit conservation in Cambridgeshire. Tree types as well as varieties because:

- Any <u>veteran</u> tree that is not one of the listed exceptions is of interest. In reality, most
 veterans are one of a handful of known varieties and fruit identification will usually
 exclude the tree as a CWS criterion. However, if the tree cannot be identified, then it
 should be preserved if possible at least until propagation material has been taken
 and successfully propagated.
- Clonal variety becomes more and more prevalent as time passes and more and more propagation is carried out. Mature trees of the listed varieties may often be closer to the original source than the clones present in the National Fruit Collection today. This is especially true of old trees close to the original source.
- It is desirable to exclude new plantings of local varieties as a CWS criterion most of these will (usually) arise from a single clone held in the National Fruit Collection.

Varieties that are rare or are of local significance fall into 4 categories:

1. Any <u>veteran</u> fruit tree that cannot be identified by East of England Apples and Orchards Project (EEAOP), National Fruit Collections (NFC), Royal Horticultural Society RHS, or an organisation of similar standing.

The majority of veteran fruit trees in Cambridgeshire will be of the following types and are readily identifiable:

Malus	Pyrus	Prunus
Bramley's Seedling	Conference	Myrobalan
Newton Wonder	William's (aka Barton)	
Blenheim Orange	Comice	

2. Any named and verified top fruit variety that does not appear in the National Fruit Collections

"Named" being the name known to the orchard owners

"Verified" being agreed to match a varietal description by one of the organisations mentioned in 1.

3. Any mature trees of the following varieties

*These varieties are not currently held in the National Fruit Collections and have only been recorded in specific orchards in Cambs. They are of great local significance and considerably at risk until further propagation and distribution has occurred.

4. Any of the 'Lost' Cambridgeshire apple varieties

There are more than 20 named varieties of apple documented as having Cambridgeshire origins. Some of these 'lost' varieties were last recorded just over fifty years ago, so it's quite likely that old trees still survive. If any of these names below are mentioned by orchard owners PLEASE CONTACT EEAOP IMMEDIATELY.

Area	Name	Description			
Chatteris	Mrs. Ward	In existence 1884. First recorded 1872. Scarlet Nonpareil x ?. Raised by Lawrence, nurseryman, Size: small. Shape: intermediate, truncate-conic, convex, not ribbed. Skin: yellow or orange, flushed deep scarlet, occasional russet patches. Flesh: firm, pale yellow. Flavour: sub-acid. Season: mid – very late.			
Cottenham area	John Norman	Last recorded 1946. Similar I shape to the Berkshire variety Charles Ross but duller in colour. Eye more open with long sepals and a thick short stalk.			
	Exhibited 1898 RHS from Cottenham (only record). Size: medium. Shape: rectangular to truncate-conic, convex, ribbed. Skin: pale greenish yellow, flushed pale red. Flesh: dry. Season: very late.				
Histon area	Colwell	Grown locally and only mentioned once in 1936. No description.			
	Histon Cropper	First described in 1919 and raised by John Chivers of Histon. Last recorded in 1947 Size: large. Shape conic, convex, not ribbed. Skin: green flushed red. Season mid.			
	Barton	In existence1946. Resembles a Worcester Pearmain. Size medium. Shape: inter mediate, truncate conic ribbed and convex. Season: mid., Skin: green flushed and striped red.			
Huntingdon	Woodley's Favourite	Exhibited 1888 RHS from Huntingdon. First recorded 1883. Size: large. Shape: intermediate, rectangular, convex, ribbed. Skin: greenish yellow Season: mid.			
Peterborough area	Jenny Brewster	Exhibited at RHS in 1894 (only record). Possibly raised by Rev. Brewster.			
	Orton Favourite	Exhibited 1894 RHS from Orton Longville (only record). Size: :large. Skin: red. Season: early – mid.			
	Paston	Exhibited 1905 RHS (only record) from P/borough Season: mid.			
	Leyden Pippin	Exhibited 1883 RHS (only record) from P/borough Size: medium. Shape: conic, ribbed on body. Skin green flushed with bronze. Flavour: sweet.			

		Exhibited 1883 RHS from Orton Hall near
	Scarlet Russet	Peterborough. First recorded 1831. Size: small.
		Shape: conical. Skin: yellow with russet, flushed
		red.
		Flesh: firm. Flavour: sweet. Season: mid.
	Triumph	Exhibited 1904 RHS (only record) from
	-	Peterborough.
	Wadlow	Exhibited 1902. Only record. Season: mid.
	Pride	,
		Exhibited 1900 RHS. Only record. Season:
	Pinder's Seedling	mid.
	5	
Wisbech		Catalogued 1949. Award of Merit RHS 1905.
area	James Kirk	Exhibited by Cross of Wisbech. Size: medium.
		Shape: truncate-conic, convex. Skin: greenish
		yellow striped red. Flesh: crisp. Flavour: acid.
		Season: late.
		Exhibited 1899 RHS from Wisbech (only record).
	Lord Kitchener	Size: large. Season: early.
	Scarlet Beauty	Exhibited at 1906 RHS from Wisbech (only
	Scaller Deauty	record). No description.
Cambridge	Haggerstone Pippin	A late season dessert apple raised by Mr
Cambridge		Haggerstone in about 1805 from the seed of an
Combridgeobire	Turbenke	American apple variety
Cambridgeshire	Turbanks	Exhibited 1883 RHS from Cambridgeshire (only
		record). No description.

Local fruit identification contacts Email info@eeaop.org.uk or orchardbob@gmail.com

APPENDIX 1E

LOCAL TRADITIONAL MANAGEMENT PRACTICES

Local traditional management practices include the following:

- Growing soft⁴ fruit, vegetables or flowers between the trees, as long as this practice is not detrimental to the trees
- Continuing any cultural practice (e.g. cultivation programme) that has fostered the existence of a nationally rare or scarce or county rare species as listed within the Cambridgeshire and Peterborough Traditional Orchards Biodiversity Action Plan
- Pruning and training techniques that are considered traditional to the county, including the creation and maintenance of open centre trees with a short trunk

⁴ fruit that grows on bushes, such as gooseberry and currant.

APPENDIX 2A

CAMBRIDGESHIRE & PETERBOROUGH NEUTRAL & CALCAREOUS GRASSLAND INDICATORS

Nomenclature follows *New Flora of the British Isles* 4th Edition, C.A. Stace, C&M Floristics, 2019 (names from the 1st Edition are included for reference)

NG – neutral grassland; CG – calcareous grassland; * signifies strong indicators

List updated October 2019.

Scientific name	Common name	NG	NG*	CG	CG*
Achillea ptarmica	Sneezewort		У		
Agrimonia eupatoria	Agrimony	У		у	
Ajuga reptans	Bugle	У			
Alchemilla filicaulis ssp. vestita	Hairy Lady's-mantle		У		
Anacamptis morio	Green-winged Orchid		y		
Anacamptis pyramidalis	Pyramidal Orchid				у
Anthyllis vulneraria	Kidney Vetch				y
Asperula cynanchica	Squinancywort				y
Astragalus danicus	Purple Milk-vetch				y
Avenula pubescens	Downy Oat-grass		У		y
Betonica officinalis	Betony		y		
Blackstonia perfoliata	Yellow-wort		-		у
Brachypodium rupestre	Tor-grass				ý
Briza media	Quaking-grass		у		ý
Bromopsis erecta	Upright Brome		-		y
Bromus racemosus / commutatus	Smooth / Meadow Brome		у		
Bunium bulbocastanum	Great Pignut		-		у
Caltha palustris	Marsh-marigold		у		
Campanula glomerata	Clustered Bellflower		, in the second se		у
Campanula rotundifolia	Harebell				ý
Cardamine pratensis	Cuckooflower	У			
Carex caryophyllea	Spring-sedge		У		у
Carex disticha	Brown Sedge		y		
Carex ericetorum	Rare Spring-sedge				у
Carex flacca	Glaucous Sedge		у		y
Carex nigra	Common Sedge		y		
Carex panicea	Carnation Sedge		y		
Carex spicata	Spiked Sedge		y		
Carlina vulgaris	Carline Thistle				у
Centaurea nigra / debeauxii	Common / Chalk Knapweed	у		у	
Centaurea scabiosa	Greater Knapweed				у
Centaurium erythraea	Common Centaury	у		у	
Cirsium acaule	Dwarf Thistle		У		у
Cirsium eriophorum	Woolly Thistle				y
Clinopodium acinos	Basil-thyme				ý
Clinopodium vulgare	Wild Basil				ý
Conopodium majus	Pignut	у			
Dactylorhiza fuchsii	Common Spotted-orchid		у		у
Dactylorhiza incarnata	Early Marsh-orchid		y		
Dactylorhiza praetermissa	Southern Marsh-orchid		y		
Danthonia decumbens	Heath-grass		y		

Scientific name	Common name	NG	NG*	CG	CG*
Eleocharis palustris	Common Spike-rush	у			
Euphrasia nemorosa	Eyebright	,	у		у
Euphrasia pseudokerneri	Chalk Eyebright		,		y
Festuca ovina	Sheep's-fescue				y
Ficaria verna	Lesser Celandine	у			,
Filipendula vulgaris	Dropwort	,	у		у
Fritillaria meleagris	Fritillary		y		,
Galium uliginosum	Fen Bedstraw		y		
Galium verum	Lady's Bedstraw	у	,	v	
Genista tinctoria	Dyer's Greenweed	,	у	,	
Gentianella amarella	Autumn Gentian		,		у
Geranium pratense	Meadow Crane's-bill	у			y
Gymnadenia conopsea	Fragrant Orchid	у			у
Helianthemum nummularium	Common Rock-rose				y y
Helictochloa pratensis	Meadow Oat-grass		V		y y
Himantoglossum hircinum	Lizard Orchid		у		-
Hippocrepis comosa	Horseshoe Vetch				У
Hordeum secalinum		v			у
	Meadow Barley Perforate St.John's-wort	у			
Hypericum perforatum				у	
Hypericum tetrapterum	Square-stemmed St. John's-wort	У			
Hypochaeris maculata	Spotted Cat's-ear				у
Inula conyzae	Ploughman's-spikenard				у
Jacobaea aquatica	Marsh Ragwort		у		
Jacobaea erucifolia	Hoary Ragwort	у		у	
Juncus compressus	Round-fruited Rush	у			
Knautia arvensis	Field Scabious		У		У
Koeleria macrantha	Crested Hair-grass		У		У
Lathyrus nissolia	Grass Vetchling		У		
Lathyrus pratensis	Meadow Vetchling	у			
Leontodon hispidus	Rough Hawkbit		у		У
Leontodon saxatilis	Lesser Hawkbit		У		У
Leucanthemum vulgare	Oxeye Daisy	у		у	
Linum catharticum	Fairy Flax		у		у
Linum perenne	Perennial Flax				у
Lotus corniculatus	Common Bird's-foot-trefoil	у		у	
Lotus pedunculatus	Greater Bird's-foot Trefoil	у			
Luzula campestris	Field Wood-rush	у			
Lysimachia nummularia	Creeping-Jenny	у			
Neottia ovata	Common Twayblade	y			
Oenanthe fistulosa	Tubular Water-dropwort		У		
Oenanthe lachenalii	Parsley Water-dropwort		y		
Oenanthe silaifolia	Narrow-leaved Water-dropwort	İ	y		
Onobrychis viciifolia	Sainfoin		-		у
Ononis repens	Common Restharrow	1	у		y
Ononis spinosa	Spiny Restharrow		y		y
Ophioglossum vulgatum	Adder's-tongue Fern		y		,
Orchis anthropophora	Man Orchid		,		у
Origanum vulgare	Marjoram				y
Orobanche elatior	Knapweed Broomrape		<u> </u>		y
Pastinaca sativa	Wild Parsnip		<u> </u>	У	,
Picris hieracioides	Hawkweed Ox-tongue			y	у
Pilosella officinarum	Mouse-ear Hawkweed				y y
Pimpinella saxifraga	Burnet-saxifrage	y		v	y
	Dumersannage	У		у	

Scientific name	Common name	NG	NG*	CG	CG*
Plantago media	Hoary Plantain	у		у	
Polygala vulgaris	Common Milkwort		У		у
Potentilla erecta	Tormentil		У		
Potentilla sterilis	Barren Strawberry		у		
Poterium sanguisorba ssp. sanguisorba	Salad Burnet		у		у
Primula veris	Cowslip	у		у	
Primula vulgaris	Primrose	у			
Pulicaria dysenterica	Common Fleabane	у			
Pulsatilla vulgaris	Pasqueflower				у
Ranunculus auricomus	Goldilocks Buttercup	у			
Ranunculus flammula	Lesser Spearwort		у		
Rhinanthus minor	Yellow Rattle		y		у
Rumex acetosa	Common Sorrel	у			
Sanguisorba officinalis	Great Burnet		у		
Saxifraga granulata	Meadow Saxifrage		У		
Scabiosa columbaria	Small Scabious				у
Serratula tinctoria	Saw-wort		у		y
Seseli libanotis	Moon Carrot				y
Silaum silaus	Pepper-saxifrage		у		
Silene flos-cuculi	Ragged-Robin		у		
Stellaria graminea	Lesser Stitchwort	у			
Succisa pratensis	Devil's-bit Scabious		у		у
Tephroseris integrifolia	Field Fleawort				У
Thalictrum flavum	Common Meadow-rue		у		
Thalictrum minus	Lesser Meadow-rue				у
Thesium humifusum	Bastard-toadflax				у
Thymus drucei	Wild Thyme				У
Thymus pulegioides	Large Thyme				У
Trifolium fragiferum	Strawberry Clover	у			
Trifolium ochroleucon	Sulphur Clover		у		
Triglochin palustris	Marsh Arrow-grass		y		
Trisetum flavescens	Yellow Oat-grass	у		у	
Valeriana dioica	Marsh Valerian		у		
Viola canina	Heath Dog-violet		y		
Viola hirta	Hairy Violet		y		у
		31	56	13	64

APPENDIX 2B

GRASSLAND SPECIES

Nomenclature follows *New Flora of the British Isles* 4th Edition, C. A. Stace, C&M Floristics, 2019. List produced January 2013.

Scientific name **Common name** Achillea millefolium Yarrow Achillea ptarmica Sneezewort Agrimonia eupatoria Agrimony Agrimonia procera Fragrant Agrimony Agrostis canina Velvet Bent Aarostis capillaris Common Bent Agrostis stolonifera **Creeping Bent** Agrostis vinealis **Brown Bent** Silver Hair-grass Aira caryophyllea Aira praecox Early Hair-grass Ajuga reptans Buale Alchemilla filicaulis ssp. vestita Hairy Lady's-mantle Allium oleraceum Field Garlic **Crow Garlic** Allium vineale Alopecurus geniculatus Marsh Foxtail Meadow Foxtail Alopecurus pratensis Anacamptis morio Green-winged Orchid Anacamptis pyramidalis **Pyramidal Orchid** Angelica sylvestris Wild Angelica Anthoxanthum odoratum Sweet Vernal-grass Anthriscus caucalis **Bur Chervil** Anthriscus sylvestris Cow Parsley Anthyllis vulneraria **Kidney Vetch** Aphanes arvensis Parsley-piert Aphanes australis Slender Parsley-piert Arabidopsis thaliana Thale Cress Hairy Rock-cress Arabis hirsuta Arenaria serpyllifolia ssp. serpyllifolia **Thyme-leaved Sandwort** Arrhenatherum elatius False Oat-grass Asperula cynanchica Squinancywort Astragalus danicus Purple Milk-vetch Astragalus glycyphyllos Wild Liquorice Wavy Hair-grass Avenella flexuosa Avenula pubescens **Downy Oat-grass** Bellis perennis Common Daisy Betonica officinalis Betony Bistorta officinalis **Common Bistort** Blackstonia perfoliata Yellow-wort Flat-sedge Blysmus compressus Brachypodium pinnatum Tor-grass Brachypodium rupestre Heath False-brome Briza media Quaking-grass Bromopsis erecta Upright Brome Bromus hordeaceus ssp. hordeaceus Common Soft-brome Smooth / Meadow Brome Bromus racemosus / commutatus

Scientific name	Common name
Bunium bulbocastanum	Great Pignut
Bupleurum tenuissimum	Slender Hare's-ear
Calamagrostis epigejos	Wood Small-reed
Calluna vulgaris	Heather
Caltha palustris	Marsh-marigold
Campanula glomerata	Clustered Bellflower
Campanula rotundifolia	Harebell
Cardamine flexuosa	Wavy Bitter-cress
Cardamine hirsuta	Hairy Bitter-cress
Cardamine pratensis	Cuckooflower
Carduus crispus	Welted Thistle
Carduus nutans	Musk Thistle
Carex acuta	Slender Tufted-sedge
Carex acutiformis	Lesser Pond-sedge
Carex arenaria	Sand Sedge
Carex binervis	Green-ribbed Sedge
Carex caryophyllea	Spring-sedge
Carex distans	Distant Sedge
Carex disticha	Brown Sedge
Carex divulsa s.l.	Grey/Many-leaved Sedge
Carex echinata	Star Sedge
Carex ericetorum	Rare Spring-sedge
Carex flacca	Glaucous Sedge
Carex hirta	Hairy Sedge
Carex leporina	Oval Sedge
Carex muricata ssp. pairae	Small-fruited Prickly-sedge
Carex nigra	Common Sedge
Carex otrubae	False Fox-sedge
Carex panicea	Carnation Sedge
Carex pilulifera	Pill Sedge
Carex spicata	Spiked Sedge
Carlina vulgaris	Carline Thistle
Catapodium rigidum	Fern-grass
Centaurea nigra / debeauxii	Common / Chalk Knapweed
Centaurea scabiosa	Greater Knapweed
Centaurium erythraea	Common Centaury
Centaurium pulchellum	Lesser Centaury
Cerastium arvense	Field Mouse-ear
Cerastium fontanum	Common Mouse-ear
Cerastium glomeratum	Sticky Mouse-ear
Cerastium semidecandrum	Little Mouse-ear
Cirsium acaule	Dwarf Thistle
Cirsium eriophorum	Woolly Thistle
Cirsium palustre	Marsh Thistle
Clinopodium acinos	Basil-thyme
Clinopodium ascendens	Common Calamint
Clinopodium nepeta	Lesser Calamint
Clinopodium vulgare	Wild Basil
Coeloglossum viride	Frog Orchid
Conopodium majus	Pignut
Crepis biennis	Rough Hawk's-beard
Crepis capillaris	Smooth Hawk's-beard
Cruciata laevipes	Crosswort

Cynoglossum officinale Hound's-tongue Cynoglossum officinale Hound's-tongue Cynoglossum officinale Crested Dog's-tail Dactylig optimiza fuchsii Coreks-foot Dactylophiza fuchsii Common Spotted-orchid Dactylorhiza maculata Heath Spotted-orchid Dactylophiza maculata Heath-grass Datutis carota Wild Carrot Deschampsia cespilosa Tufted Hair-grass Dianthus armeria Deptford Pink Dianthus detoides Maiden Pink Dipantus detoides Maiden Pink Dipantus detoides Marsh Willowherb Epilobium palustre Marsh Willowherb Eguisetum palustre Marsh Willowherb Equisetum palustre Common Stork's-bill Erophila verna Common Whitlowgrass Ervul gracile Slender Tare Ervul m carutabium Hemp-agrimony Euphorbia cyparissias Cypress Spurge Euphorbia cyparissias Cypress Spurge Euphorbia agg. Sheey's Pescue [agg.] Festuca outra agg. Sheey's Pescue [agg.] <th>Scientific name</th> <th>Common name</th>	Scientific name	Common name
Öynosurus cristatus Crested Dog's-tail Dactyloriza fuchsii Coomon Spotted-orchid Dactyloriza incarnata Early Marsh-orchid Dactyloriza maculata Heath Spotted-orchid Dactyloriza maculata Heath-Spotted-orchid Dactyloriza maculata Heath-Spotted-orchid Dactyloriza maculata Heath-Spotted-orchid Dactyloriza maculata Wild Carrot Deschampsia cespitosa Tufted Hair-grass Dianthus armeria Deptford Pink Dianthus deltoides Maiden Pink Dispacus fullorum Wild Teasel Echium vulgare Viper's-bugloss Eleocharis palustris Common Spike-rush Egliobium palustre Marsh Horsetail Erodum cicutarium Common Stork's-bill Eronum cicutarium Common Stork's-bill Ervum gracile Slender Tare Ervum teraspermum Smooth Tare Eupatorium cannabinum Hemp-agrimony Eupatorium anabinum Hemp-segritori Festuca rubra Red Fescue Festuca rubra Red Fescue [agg.]		
Dactylis glomerata Cock's-foot Dactylorhiza luchsii Common Spotted-orchid Dactylorhiza incamata Early Marsh-orchid Dactylorhiza maculata Heath Spotted-orchid Dactylorhiza praetermissa Southern Marsh-orchid Dactylorhiza praetermissa Southern Marsh-orchid Dacturo decumbens Heath-grass Daucus carota Wild Carrot Deschampsia cespitosa Tutted Hair-grass Dianthus adetoides Maiden Pink Dianthus detoides Maiden Pink Dipsacus fullonum Wild Teasel Echium vulgare Viper's-bugloss Eleocharis palustris Common Stork's-bill Erodum cicutarium Common Stork's-bill Erophila verna Common Whitlowgrass Ervul hirsuta Hairy Tare Euphorbia cyparissias Cypress Spurge Euphorbia cyparissias Cypress Spurge Euphorbia cyparissias Cypress Spurge Euphorbia cyparissias Cypress Spurge Euphorbia cyparissias Common Cudweed Filago utescons Red Fescue		
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Scientific name	Common name
Helianthemum nummularium	Common Rock-rose
Helictochloa pratensis	Meadow Oat-grass
, Heracleum sphondylium	Hogweed
Herniaria glabra	Smooth Rupturewort
Hieracium agg.	hawkweeds
Himantoglossum hircinum	Lizard Orchid
Hippocrepis comosa	Horseshoe Vetch
Holcus lanatus	Yorkshire-fog
Hordeum secalinum	Meadow Barley
Hypericum hirsutum	Hairy St John's-wort
Hypericum humifusum	Trailing St John's-wort
Hypericum maculatum	Imperforate St John's-wort
Hypericum perforatum	Perforate St John's-wort
Hypericum pulchrum	Slender St John's-wort
Hypericum tetrapterum	Square-stemmed St John's-wort
Hypochaeris glabra	Smooth Cat's-ear
Hypochaeris maculata	Spotted Cat's-ear
Hypochaeris radicata	Cat's-ear
Iberis amara	Wild Candytuft
Inula conyzae	Ploughman's-spikenard
Isolepis setacea	Bristle Club-rush
Jacobaea aquatica	Marsh Ragwort
Jacobaea erucifolia	Hoary Ragwort
Juncus acutiflorus	Sharp-flowered Rush
Juncus articulatus	Jointed Rush
Juncus bulbosus	Bulbous Rush
Juncus compressus	Round-fruited Rush
Juncus conglomeratus	Compact Rush
Juncus effusus	Soft-rush
Juncus inflexus	Hard Rush
Juncus subnodulosus	Blunt-flowered Rush
Knautia arvensis	Field Scabious
Koeleria macrantha	Crested Hair-grass
Lathyrus aphaca	Yellow Vetchling
Lathyrus nissolia	Grass Vetchling
Lathyrus pratensis	Meadow Vetchling
Leontodon hispidus	Rough Hawkbit
Leontodon saxatilis	Lesser Hawkbit
Leucanthemum vulgare	Oxeye Daisy
Linaria vulgaris	Common Toadflax
Linum catharticum	Fairy Flax
Linum perenne	Perennial Flax
Lithospermum officinale	Common Gromwell
Logfia minima	Small Cudweed
Lolium perenne	Perennial Rye-grass
Lotus corniculatus	Common Bird's-foot-trefoil
Lotus pedunculatus	Greater Bird's-foot-trefoil
Lotus tenuis	Narrow-leaved Bird's-foot-trefoil
Luzula campestris	Field Wood-rush
Luzula multiflora	Heath Wood-rush
Lycopus europaeus	Gypsywort
Lysimachia nummularia	Creeping-Jenny
Malva moschata	Musk-mallow

Scientific name	Common name
Marrubium vulgare	White Horehound
Medicago arabica	Spotted Medick
Medicago lupulina	Black Medick
Medicago minima	Bur Medick
Medicago sativa ssp. falcata	Sickle Medick
Melilotus altissimus	Tall Melilot
Mentha aquatica	Water Mint
Mentha arvensis	Corn Mint
Muscari neglectum	Grape-hyacinth
Myosotis discolor	Changing Forget-me-not
Myosotis ramosissima	Early Forget-me-not
Nardus stricta	Mat-grass
Neottia ovata	Common Twayblade
Nepeta cataria	Cat-mint
Odontites vernus	Red Bartsia
Oenanthe fistulosa	Tubular Water-dropwort
Oenanthe lachenalii	Parsley Water-dropwort
Oenanthe pimpinelloides	Corky-fruited Water-dropwort
Oenanthe silaifolia	Narrow-leaved Water-dropwort
Omalotheca sylvatica	Heath Cudweed
Onobrychis viciifolia	Sainfoin
Ononis repens	Common Restharrow
Ononis spinosa	Spiny Restharrow
Ophioglossum vulgatum	Adder's-tongue Fern
Ophrys apifera	Bee Orchid
Ophrys insectifera	Fly Orchid
Orchis anthropophora	Man Orchid
Origanum vulgare	Marjoram
Ornithopus perpusillus	Bird's-foot
Orobanche elatior	Knapweed Broomrape
Orobanche minor	Common Broomrape
Pastinaca sativa	Wild Parsnip
Phleum bertolonii	Smaller Cat's-tail
Phleum phleoides	Purple-stem Cat's-tail
Phleum pratense	Timothy
Picris hieracioides	Hawkweed Ox-tongue
Pilosella officinarum	Mouse-ear Hawkweed
Pimpinella major	Greater Burnet-saxifrage
Pimpinella saxifraga	Burnet-saxifrage
Plantago coronopus	Buck's-horn Plantain
Plantago lanceolata	Ribwort Plantain
Plantago media	Hoary Plantain
Poa angustifolia	Narrow-leaved Meadow-grass
Poa annua	Annual Meadow-grass
Poa compressa	Flattened Meadow-grass
Poa humilis	Spreading Meadow-grass
Poa pratensis	Smooth Meadow-grass
Poa trivialis	Rough Meadow-grass
Polygala serpyllifolia	Heath Milkwort
Polygala vulgaris	Common Milkwort
Potentilla anglica	Trailing Tormentil
Potentilla anserina	Silverweed
Potentilla argentea	Hoary Cinquefoil

Scientific name	Common name
Potentilla erecta	Tormentil
Potentilla reptans	Creeping Cinquefoil
Potentilla sterilis	Barren Strawberry
Potentilla verna	Spring Cinquefoil
Poterium sanguisorba ssp. sanguisorba	Salad Burnet
Primula veris	Cowslip
Primula vulgaris	Primrose
Prunella vulgaris	Self-heal
Pteridium aquilinum	Bracken
Pulicaria dysenterica	Common Fleabane
Pulsatilla vulgaris	Pasqueflower
Ranunculus acris	Meadow Buttercup
Ranunculus auricomus	Goldilocks Buttercup
Ranunculus bulbosus	Bulbous Buttercup
Ranunculus flammula	Lesser Spearwort
Ranunculus parviflorus	Small-flowered Buttercup
Ranunculus repens	Creeping Buttercup
Reseda lutea	Wild Mignonette
Rhinanthus minor	Yellow Rattle
Rumex acetosa	Common Sorrel
Rumex acetosella	Sheep's Sorrel
Rumex pulcher	Fiddle Dock
Sabulina tenuifolia	Fine-leaved Sandwort
Sagina apetala	Annual Pearlwort
Sagina nodosa	Knotted Pearlwort
Salvia verbenaca	Wild Clary
Samolus valerandi	Brookweed
Sanguisorba officinalis	Great Burnet
Saxifraga granulata	Meadow Saxifrage
Saxifraga tridactylites	Rue-leaved Saxifrage
Scabiosa columbaria	Small Scabious
x Schedolium Ioliaceum	Hybrid Fescue
Schedonorus arundinaceus	Tall Fescue
Schedonorus pratensis	Meadow Fescue
Scleranthus annuus	Annual Knawel
Scorzoneroides autumnalis	Autumn Hawkbit
Scrophularia nodosa	Common Figwort
Sedum acre	Biting Stonecrop
Senecio sylvaticus	Heath Groundsel
Serratula tinctoria	Saw-wort
Seseli libanotis	Moon Carrot
Sherardia arvensis	Field Madder
Silaum silaus	Pepper-saxifrage
Silene flos-cuculi	Ragged-Robin
Silene conica	Sand Catchfly
Silene otites	Spanish Catchfly
Silene vulgaris	Bladder Campion
Sison amomum	Stone Parsley
Sison segetum	Corn Parsley
Spergula arvensis	Corn Spurrey
Spergularia rubra	Sand Spurrey
Spergularia rubra	Marsh Woundwort
Stachys palustris	Bog Stitchwort
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Scientific name	Common name
Stellaria graminea	Lesser Stitchwort
Stellaria pallida	Lesser Chickweed
Succisa pratensis	Devil's-bit Scabious
Teesdalia nudicaulis	Shepherd's Cress
Tephroseris integrifolia	Field Fleawort
Teucrium scorodonia	Wood Sage
Thalictrum flavum	Common Meadow-rue
Thalictrum minus	Lesser Meadow-rue
Thesium humifusum	Bastard-toadflax
Thymus drucei	Wild Thyme
Thymus pulegioides	Large Thyme
Torilis nodosa	Knotted Hedge-parsley
Tragopogon pratensis	Goat's-beard
Trifolium arvense	Hare's-foot Clover
Trifolium campestre	Hop Trefoil
Trifolium dubium	Lesser Trefoil
Trifolium fragiferum	Strawberry Clover
Trifolium glomeratum	Clustered Clover
Trifolium medium	Zigzag Clover
Trifolium micranthum	Slender Trefoil
Trifolium ochroleucon	Sulphur Clover
Trifolium pratense	Red Clover
Trifolium repens	White Clover
Trifolium scabrum	Rough Clover
Trifolium striatum	Knotted Clover
Trifolium subterraneum	Subterranean Clover
Triglochin palustris	Marsh Arrow-grass
Trisetum flavescens	Yellow Oat-grass
Turritis glabra	Tower Mustard
Tussilago farfara	Colt's-foot
Valeriana dioica	Marsh Valerian
Valeriana officinalis	Common Valerian
Valerianella locusta	Common Cornsalad
Verbascum nigrum	Dark Mullein
Verbascum pulverulentum	Hoary Mullein
Verbascum thapsus	Great Mullein
Verbena officinalis	Vervain
Veronica arvensis	Wall Speedwell
Veronica chamaedrys	Germander Speedwell
Veronica officinalis	Heath Speedwell
Veronica serpyllifolia	Thyme-leaved Speedwell
Veronica spicata ssp. spicata	Spiked Speedwell
Vicia cracca	Tufted Vetch
Vicia lathyroides	Spring Vetch
Vicia sativa ssp. nigra	Common Vetch
Viola canina	Heath Dog-violet
Viola hirta	Hairy Violet
Viola odorata	Sweet Violet
Viola riviniana	Common Dog-violet
Viola tricolor	Wild Pansy
Vulpia bromoides	Squirrel-tail Fescue
Vulpia ciliata ssp. ambigua	Bearded Fescue
Vulpia myuros	Rat's-tail Fescue

APPENDIX 2C

VASCULAR PLANT AND LICHEN INDICATOR SPECIES FOR DRY AND WET ACIDIC GRASSLANDS AND OPEN COMMUNITIES ON SANDY OR ACIDIC SUBSTRATES

The following list includes indicator species for various grassland and more open communities:

- dry acid grassland communities such as U1 (Festuca ovina Agrostis capillaris - Rumex acetosella)
- the acid/calcareous open communities of the Breck sands (Chippenham & Kennett) and glacial sand/gravel deposits (as exemplified by Hildersham Furze Hills)
- communities grading into the acid end of MG5 (MG5c, Cynosurus cristatus Centaurea nigra grassland, Danthonia decumbens sub-community)
- wet, mineral or slightly peaty ± acid communities (but not including mires)

Nomenclature follows *New Flora of the British Isles* 4th Edition, C. A. Stace, C&M Floristics, 2019.

Scientific name	Common name	Indicator value
Agrostis canina	Velvet Bent	strong
Agrostis vinealis	Brown Bent	strong
Aira caryophyllea	Silver Hair-grass	strong
Aira praecox	Early Hair-grass	strong
Anthriscus caucalis	Bur Parsley	weak
Aphanes arvensis	Parsley-piert	weak
Aphanes australis	Slender Parsley-piert	weak
Arenaria serpyllifolia ssp. serpyllifolia	Thyme-leaved Sandwort	weak
Avenella flexuosa	Wavy Hair-grass	strong
Betonica officinalis	Betony	weak
Calluna vulgaris	Heather	strong
Campanula rotundifolia	Harebell	strong
Carex arenaria	Sand Sedge	strong
Carex echinata	Star Sedge	strong
Carex leporina	Oval Sedge	weak
Carex muricata ssp. pairae	Prickly Sedge	weak
Carex pilulifera	Pill Sedge	strong
Cerastium arvense	Field Mouse-ear	strong
Cerastium semidecandrum	Little Mouse-ear	strong
Cladonia spp.	(Pixie) Cup-lichens	strong
Conopodium majus	Pignut	weak
Dactylorhiza maculata	Heath Spotted-orchid	strong
Danthonia decumbens	Heath-grass	strong
Dianthus deltoides	Maiden Pink	strong
Echium vulgare	Viper's Bugloss	weak
Epilobium palustre	Marsh Willowherb	weak
Erica tetralix	Cross-leaved Heath	strong
Erodium cicutarium agg.	Common Stork's-bill	weak
Erophila verna	Common Whitlow-grass	weak

List updated October 2019

Scientific name	Common name	Indicator value
Festuca ovina agg.	Sheep's Fescue [agg.]	strong
Filago germanica	Common Cudweed	weak
Filago lutescens	Red-tipped Cudweed	strong
Filago pyramidata	Broad-leaved Cudweed	weak
Galium parisiense	Wall Bedstraw	strong
Galium saxatile	Heath Bedstraw	strong
Galium verum	Lady's Bedstraw	weak
Herniaria glabra	Smooth Rupturewort	strong
Hypericum humifusum	Trailing St. John's-wort	weak
Hypericum pulchrum	Slender St. John's-wort	strong
Hypochaeris glabra	Smooth Cat's-ear	strong
Hypochaeris radicata	Common Cat's-ear	weak
Isolepis setacea	Bristle Club-rush	weak
Juncus bulbosus	Bulbous Rush	strong
Logfia minima	Small Cudweed	strong
Lotus corniculatus	Common Bird's-foot-trefoil	weak
Luzula campestris	Field Wood-rush	weak
Luzula multiflora	Heath Wood-rush	strong
Medicago minima	Bur Medick	strong
Medicago sativa ssp. falcata	Sickle Medick	strong
Myosotis discolor	Changing Forget-me-not	weak
Myosotis ramossissima	Early Forget-me-not	weak
Nardus stricta	Mat-grass	strong
Omalotheca sylvatica	Heath Cudweed	strong
Ornithopus perpusillus	Bird's-foot	strong
Peltigera spp	Dog-lichens	weak
Phleum phleoides	Purple-stem Cat's-tail	strong
Pilosella officinarum	Mouse-ear Hawkweed	strong
Plantago coronopus	Buck's-horn Plantain	weak
Polygala serpyllifolia	Heath Milkwort	strong
Potentilla argentea	Hoary Cinquefoil	strong
Potentilla erecta	Tormentil	strong
Pteridium aquilinum	Bracken	weak
Rumex acetosa	Common Sorrel	weak
Rumex acetosella	Sheep's Sorrel	strong
Sabulina tenuifolia	Fine-leaved Sandwort	strong
Sagina apetala	Annual Pearlwort	weak
Sagina nodosa	Knotted Pearlwort	weak
Saxifraga granulata	Meadow Saxifrage	weak
Saxifraga tridactylites	Rue-leaved Saxifrage	weak
Scleranthus annuus	Annual Knawel	strong
Sedum acre	Biting Stonecrop	weak
Senecio sylvaticus	Heath Groundsel	weak
Silene conica	Sand Catchfly	strong
Silene otites	Spanish Catchfly	strong
Spergula arvensis	Corn Spurrey	strong
Spergularia rubra	Sand Spurrey	strong
Stellaria alsine	Bog Stitchwort	strong
Stellaria graminea	Lesser Stitchwort	weak
Stellaria pallida	Lesser Chickweed	weak
Succisa pratensis	Devil's-bit Scabious	weak
Teesdalia nudicaulis	Shepherd's Cress	strong
Teucrium scorodonia	Wood Sage	strong
		cuong

Scientific name	Common name	Indicator value
Trifolium arvense	Hare's-foot Clover	weak
Trifolium glomeratum	Clustered Clover	strong
Trifolium scabrum	Rough Clover	strong
Trifolium striatum	Soft Clover	strong
Trifolium subterraneum	Subterranean Clover	strong
Turritis glabra	Tower Mustard	strong
Veronica arvensis	Wall Speedwell	weak
Veronica officinalis	Heath Speedwell	strong
Veronica spicata ssp. spicata	Spiked Speedwell	strong
Vicia lathyroides	Spring Vetch	strong
Viola canina	Heath Dog-violet	strong
Vulpia ciliata ssp. ambigua	Bearded Fescue	strong

APPENDIX 3

CLASSIFICATION OF STANDING WATER TYPES 10A AND 10B SUBMERGED AND FLOATING VEGETATION

Classification taken from Research & survey in nature conservation No. 19: A botanical classification of standing waters in Great Britain. Margaret Palmer JNCC 1992.

Nomenclature follows *New Flora of the British Isles* 4th Edition, C.A. Stace, C&M Floristics, 2019

	10A	10B
Potamogeton natans	111	
Potamogeton perfoliatus	II	
Potamogeton obtusifolius	II	
Potamogeton berchtoldii	III	
Callitriche agg.	II	
Elodea canadensis	IV*	
Nuphar lutea	II	
Lemna minor	IV	
Lemna trisulca	II	
Elodea nuttallii		
Potamogeton lucens		II
Sparganium emersum	II	I
Persicaria amphibia	111	I
Enteromorpha spp.	II	
Myriophyllum spicatum	111	
Potamogeton crispus	111	
Stuckenia (Potamogeton) pectinatus	111	IV
Potamogeton pusillus	II	
Chara spp.		IV
Average number of species per site	10	6
(submerged and floating)		
Average number of species per site	22	15
(submerged, floating and emergent)		

KEY to constancy classes

- V = 80-100%
- IV = 60-80%
- III = 40-60%
- II = 20-40%
- * = cover value high

APPENDIX 4A

NATIONALLY RARE, NATIONALLY SCARCE & RED DATA LIST VASCULAR PLANTS FOUND IN CAMBRIDGESHIRE & PETERBOROUGH

Species have been included in this appendix if they are:

- Nationally Rare, NR (occur in 15 or fewer 10km squares in Britain)
- Nationally Scarce, NS (occur in 100-16 10km squares in Britain)
- given an English or GB Red Data List status of Near Threatened or higher **and** are close to being NS **and** are scarce or declining in Cambridgeshire and Peterborough (excluding still widespread arable weeds)

NR & NS status based on the *Taxon Designations_20180725* spreadsheet downloaded from the JNCC website, 28/10/2019

Red data list status is taken from *The Vascular Plant Red Data List for Great Britain*, C.Cheffings & L.Farrell (eds.), JNCC, 2005, with minor updates from the Taxon Designations spreadsheet (2019) and/or the English Red List (Stroh et al., 2014).

Species that occur solely as casuals/introductions/escapes or which are not considered native in Cambridgeshire and Peterborough, even if native elsewhere in Britain, are not included in the appendix.

Species are included only if there are local records from 2000 or later. Data provided by BSBI vice-county recorders for Huntingdonshire, Cambridgeshire, Peterborough and Northhamptonshire.

Scientific names follow *New Flora of the British Isles* 4th Edition, C. A. Stace, C&M Floristics, 2019.

Scientific name	Common name	English RDL status	GB RDL status	NR/NS
Adonis annua*	Pheasant's Eye	EN	EN	NS
Ajuga chamaepitys*	Ground-pine	EN	EN	NR
Alisma gramineum	Ribbon-leaved Water-plantain	CR	CR	NR
Bromus secalinus	Rye Brome	NT	VU	NS
Bunium bulbocastanum	Great Pignut	LC	LC	NR
Bupleurum tenuissimum	Slender Hare's-ear	VU	VU	NS
Carex appropinquata	Fibrous Tussock-sedge	LC	NT	NS
Carex ericetorum	Rare Spring-sedge	VU	VU	NS
Cirsium tuberosum	Tuberous Thistle	NT	NT	NR
Clinopodium nepeta	Lesser Calamint	LC	VU	NS
Cuscuta europaea	Greater Dodder	LC	LC	NS
Dactylorhiza incarnata ssp. ochroleuca*	Early Marsh-orchid subspecies	CR	CR	NR
Dactylorhiza praetermissima subsp. schoenophila	Narrow-leaved Marsh-orchid	LC	LC	NS
Dianthus armeria	Deptford Pink	EN	EN	NS
Dianthus deltoides	Maiden Pink	VU	NT	NS
Epipactis phyllanthes	Green-flowered Helleborine	LC	LC	NS

List updated October 2019.

Scientific name	Common name	English RDL status	GB RDL status	NR/NS
Ervum gracile	Slender Tare	VU	VU	NS
Euphrasia pseudokerneri	Chalk Eyebright	VU	EN	NS
Filago lutescens	Red-tipped Cudweed	EN	EN	NS
Filago pyramidata	Broad-leaved Cudweed	EN	EN	NS
Fritillaria meleagris	Fritillary	WL	Neophyte	NS
Fumaria parviflora	Fine-leaved Fumitory	NT	VU	NS
Fumaria vaillantii	Few-flowered Fumitory	EN	VU	NS
Galeopsis angustifolia*	Red Hemp-nettle	CR	CR	NS
Galium parisiense	Wall Bedstraw	VU	VU	NS
Galium tricornutum*	Corn Cleavers	CR	CR	NR
Herniaria glabra	Smooth Rupturewort	LC	LC	NR
Himantoglossum hircinum	Lizard Orchid	LC	NT	NS
Hordelymus europaeus*	Wood Barley	LC	LC	NS
Hypochaeris glabra	Smooth Cat's-ear	VU	VU	
Hypochaeris maculata	Spotted Cat's-ear	VU	NT	NR
Iberis amara	Wild Candytuft	VU	VU	NS
Jacobaea paludosa	Fen Ragwort	CR	CR	NR
Lathyrus aphaca	Yellow Vetchling	VU	VU	NS
Lathyrus palustris	Marsh Pea	NT	NT	NS
Limosella aquatica*	Mudwort	LC	LC	NS
Linum perenne	Perennial Flax	LC	VU	NS
Luzula pallescens	Fen Wood-rush	CR	CR	NR
Lysimachia foemina	Blue Pimpernel	DD	LC	NS
Lythrum hyssopifolia	Grass-poly	EN	EN	NR
Medicago minima	Bur Medick	VU	VU	NS
Medicago sativa ssp. falcata	Sickle Medick	LC	LC	NS
Melampyrum cristatum	Crested Cow-wheat	EN	VU	NR
Muscari neglectum	Grape-hyacinth	WL	Neophyte	NR
Myosurus minimus	Mousetail	VU	VU	
Nymphoides peltata	Fringed Water-lily	LC	LC	NS
Oenanthe silaifolia	Narrow-leaved Water-dropwort	LC	NT	NS
Ophrys insectifera*	Fly Orchid	VU	VU	NO
Orchis anthropophora	Man Orchid	EN	EN	NS
Ornithogalum pyrenaicum*	Spiked Star-of-Bethlehem	LC	LC	NS
Oxybasis glauca	Oak-leaved Goosefoot	VU	VU	NS
Persicaria minor	Small Water-pepper	LC	VU	110
Persicaria mitis	Tasteless Water-pepper	VU	VU	NS
		LC	LC	
Phleum phleoides Poa infirma	Purple-stem Cat's-tail	LC	LC	NR
	Early Meadow-grass			NS
Potamogeton coloratus	Fen Pondweed			NS
Potamogeton compressus	Grass-wrack Pondweed	EN	EN	NS
Potamogeton friesii	Flat-stalked Pondweed	VU	NT	NS
Potamogeton praelongus	Long-stalked Pondweed	EN	NT	
Potentilla verna	Spring Cinquefoil	LC	LC	NS
Primula elatior	Oxlip	LC	NT	NS
Pulsatilla vulgaris	Pasqueflower	VU	VU	NS
Rubus bucknallii	A bramble			NR

Scientific name	Common name	English RDL status	GB RDL status	NR/NS
Sabulina tenuifolia	Fine-leaved Sandwort	EN	EN	NS
Selinum carvifolia	Cambridge Milk-parsley	EN	VU	NR
Seseli libanotis	Moon Carrot	NT	NT	NR
Silene conica	Sand Catchfly	EN	VU	NS
Silene gallica	Small-flowered Catchfly	EN	EN	NS
Silene otites	Spanish Catchfly	EN	EN	NR
Sium latifolium	Greater Water-parsnip	EN	EN	NS
Sonchus palustris	Marsh Sow-thistle	LC	LC	NS
Tephroseris integrifolia ssp. integrifolia	Field Fleawort	VU	EN	NS
Teucrium scordium	Water Germander	EN	EN	NR
Thelypteris palustris	Marsh Fern	LC	LC	NS
Thesium humifusum	Bastard-toadflax	LC	LC	NS
Thysselinum palustre	Milk-parsley	VU	VU	NS
Torilis arvensis	Spreading Hedge-parsley	EN	EN	NS
Trifolium glomeratum	Clustered Clover	LC	LC	NS
Trifolium ochroleucon	Sulphur Clover	VU	NT	NS
Turritis glabra	Tower Mustard	EN	EN	NS
Verbascum pulverulentum	Hoary Mullein	LC	LC	NS
Veronica spicata ssp. spicata	Spiked Speedwell	LC	LC	NR
Viola canina ssp. ruppii*	Heath Dog-violet (fen subsp)	EN	EN	NR
Viola stagnina	Fen Violet	CR	EN	NR
<i>Vulpia ciliata</i> subsp. <i>ambigua</i>	Bearded Fescue	LC	LC	NS
Vulpia unilateralis	Mat-grass Fescue	LC	LC	NS

* Thought likely to be extinct in Cambridgeshire and/or Peterborough

Red Data List status key:

EX – Extinct

 $\ensuremath{\mathsf{EW}}-\ensuremath{\mathsf{Extinct}}$ in the wild

- CR Critically endangered
- EN Endangered
- VU Vulnerable
- NT Near threatened
- LC Least concern
- DD Data deficient

NE - Not evaluated

APPENDIX 4B

SCORING SYSTEM FOR THE SELECTION OF SITES WITH OUTSTANDING ASSEMBLAGES OF ARABLE PLANTS

This system was developed by Plantlife and is a scoring system that tallies the weighted individual score of each species present based on its rarity and decline across Britain. Weightings for England are used here and the threshold scores for different geological substrates are as follows:

Substrate	County importance	National importance	International importance
Sandy and other free draining non-calcareous soils	20 - 34	35 - 69	70 +
Heavier clay soils	20 - 29	30 - 69	70 +
Dry calcareous soils on chalk and limestone	30 - 44	45 - 89	90 +

Due to the sporadic nature of arable plants any records from the last 10 years can be used in the calculation of the score and where survey effort is limited records from back to 1985 may be included.

A much higher score may identify a site as of National or European importance and the thresholds for these are given as per the Plantlife document *Important Arable Plant Areas (Byfield and Wilson, 2005).*

List updated February 2023

Scientific name	Common name	England
	Common name	Score
Adonis annua	Pheasant's-eye	8
Agrostemma githago	Corncockle	9
Ajuga chamaepitys	Ground Pine	8
Althaea hirsuta	Hairy Mallow or Rough Marsh-mallow	6
Anthemis arvensis	Corn Chamomile	8
Anthemis cotula	Stinking Chamomile	7
Anthriscus caucalis	Bur Chervil	3
Apera interrupta	Dense Silky-bent	4
Apera spica-venti	Loose Silky-bent	6
Aphanes australis	Slender Parsley-piert	1
Arnoseris minima	Lamb's-succory	9
Avena strigosa	Bristle Oat	5
Brassica nigra	Black Mustard	2
Briza minor	Lesser Quaking-grass	5
Bromus interruptus	Interrupted Brome	6
Bromus secalinus	Rye Brome	7
Buglossoides arvensis	Corn Gromwell	8
Bunium bulbocastanum	Greater Pignut	6
Bupleurum rotundifolium	Thorow-wax	9
Camelina sativa	False Flax	5
Caucalis platycarpos	Small Bur-parsley	9
Centaurea cyanus	Cornflower	8
Chaenorhinum minus	Small Toadflax	1
Chenopodiastrum hybridum	Maple-leaved Goosefoot	3
Chenopodiastrum murale	Nettle-leaved Goosefoot	8
Chenopodium ficifolium	Fig-leaved Goosefoot	2
Descurainia sophia	Tansy Mustard or Flixweed	3
Echium plantagineum	Purple Bugloss	6
Erodium cicutarium	Common Stork's-bill	1

Erodium moschatum	Musk Stork's-bill	4
Ervum gracile	Slender Tare	7
Ervum tetraspermum	Smooth Tare	2
Erysimum cheiranthoides	Treacle Mustard	6
Euphorbia exigua	Dwarf Spurge	7
Euphorbia platyphyllos	Broad-leaved Spurge	3
Filago germanica	Common Cudweed	6
Filago lutescens	Red-tipped Cudweed	8
Filago pyramidata	Broad-leaved Cudweed	8
Fumaria bastardii	Tall Ramping-fumitory	2
Fumaria capreolata	White Ramping-fumitory	3
Fumaria densiflora	Dense-flowered Fumitory	3
Fumaria muralis ssp. neglecta	Common Ramping-fumitory	7
Fumaria occidentalis	Western Fumitory	5
Fumaria parviflora	Fine-leaved Fumitory	7
Fumaria purpurea	Purple Ramping-fumitory	7
Fumaria reuteri	Martin's Ramping-fumitory	6
Fumaria vaillantii	Few-flowered Fumitory	8
Galeopsis angustifolia	Red Hemp-nettle	9
Galeopsis bifida	Bifed hemp-nettle	1
Galeopsis segetum	Downy Hemp-nettle	9
Galeopsis speciosa	Large-flowered Hemp-nettle	7
Galium spurium	False Cleavers	6
Galium tricornutum	Corn Cleavers	9
Gastridium ventricosum	Nit-grass	5
Geranium columbinum	Long-stalked Crane's-bill	2
Geranium pusillum	Small-flowered Crane's-bill	2
Glebionis segetum	Corn Marigold	7
Holosteum umbellatum	Jagged Chickweed	6
Hyoscyamus niger	Henbane	7
Hypochaeris glabra	Smooth Cat's-ear	7
Iberis amara	Wild Candytuft	7
Kickxia elatine	Sharp-leaved Fluellen	2
Kickxia spuria	Round-leaved Fluellen	3
Lamium amplexicaule	Henbit Dead-nettle	1
Lamium confertum	Northern Dead-nettle	8
Lamium hybridum	Cut-leaved Dead-nettle	1
Lathyrus aphaca	Yellow Vetchling	7
Lavatera cretica	Small Tree-mallow	6
Legousia hybrida	Venus's-looking-glass	3
Legousia speculum-veneris	Greater Venus's-looking-glass	6
Lepidium campestre	Field Pepperwort	6
Lipandra polysperma	Many-seeded Goosefoot	2
Logfia gallica	Narrow-leaved Cudweed	9
Lolium temulentum	Darnel	9
Lycopsis arvensis	Small Bugloss	1
Lysimachia foemina	Blue Pimpernel	5
Lythrum hyssopifolium	Grass-poly	8
Malva neglecta	Common Mallow	2
Melampyrum arvense	Field Cow-wheat	8
Melilotus altissimus	Tall Melilot	1
Mentha arvensis	Corn Mint	6
Mercurialis annua	Annual Mercury	2
Microthlaspi perfoliatum	Perfoliate Penny-cress	7
Misopates orontium	Weasel's-snout	7
Myosurus minimus	Mousetail	7
Nepeta cataria	Cat-mint	7
Orobanche minor	Common Broomrape	2
Oxybasis urbica	Upright Goosefoot	9
Papaver argemone	Prickly Poppy	8
Papaver dubium	Long-headed Poppy	1
Papaver lecogii	Babington's Poppy	2

Polycarpon tetraphyllumFour-leaved Allseed5Polygonum borealeNorthern Knotgrass4Polygonum rurivagumCornfield Knotgrass3Ranunculus arvensisCorn Buttercup9Ranunculus muricatusRough-fruited Buttercup6Ranunculus parvillorusSmall-flowered buttercup3Raphanus raphanistrum subsp. RaphanistrumWild Radish1Reseda luteaWild Mignonette1Reseda luteaWild Mignonette6Scantix pecten-venerisShepherd's Needle9Scleranthus angustifoliusGreater Hay-rattle6Scleranthus annuusAnnual Knawel8Sherardia arvensisField Madder1Silene gallicaSmall-flowered Catchfly8Silene noctifloraNight-flowering Catchfly7Sinapis albaWhite Mustard2Son segetumCorn Parsley3Spergula arvensisField Woundwort6Teurium botrysCut-leaved Germander6Torilis arvensisSpreading Hedge-parsley3Valerianella ericoarpaHairy-fruited Cornsalad8Valerianella dentataNarrow-fruited Cornsalad8Valerianella ericoarpaHairy-fruited Cornsalad8Valerianella ericoarpaHairy-fruited Cornsalad8Valerianella ericoarpaHairy-fruited Cornsalad8Valerianella ericoarpaHairy-fruited Cornsalad8Valerianella ericoarpaHairy-fruited Cornsalad8	Papaver rhoeas	Common Poppy	1
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Veronica praecoxBreckland Speedwell6Veronica triphyllosFingered Speedwell9Veronica vernaSpring Speedwell8	Veronica agrestis	Green Field-speedwell	1
Veronica triphyllosFingered Speedwell9Veronica vernaSpring Speedwell8	Veronica polita	Grey Field-speedwell	2
Veronica verna Spring Speedwell 8			6
Veronica verna Spring Speedwell 8	Veronica triphyllos	Fingered Speedwell	
Viola tricolor ssp. tricolor Wild Pansy 6	Veronica verna		8
	Viola tricolor ssp. tricolor	Wild Pansy	6

APPENDIX 5A

ESTIMATED NATIONAL NUMBERS OF BIRDS BREEDING AND WINTERING IN BRITAIN - SPECIES RELEVANT TO CAMBRIDGESHIRE

	Breeding pairs	Wintering individuals
Little Grebe Great Crested Grebe Red-necked Grebe Slavonian Grebe Black-necked Grebe Cormorant Bittern Grey Heron Mute Swan Bewicks Swan Whooper Swan Greylag Goose Canada Goose Shelduck Wigeon Gadwall Teal Mallard Pintail Garganey Shoveler Pochard Tufted Duck Goldeneye Red-breasted Merganser Marsh Harrier Hen Harrier	Breeding pairs 9-14K 3-3.4K 0-1k 70-80 <20 6.2K 47-51 3.5-8.5K 3.1K - 0-1 600-1000 10K 15K 300-500 260 3.5-6K 40K 16-41 <55 500 200 1.5-2K >40 1-2K 20-23 400 1-3	Wintering individuals 8K+ 5-15K 100-170 400 100 15-20K 50-150 25K 18K 5K 4.5K 100K 40K 75K 200K 4K 100K 500K 25K - 9K 50K 60K 15K 10K ? 750 -
Shoveler Pochard Tufted Duck Goldeneye Red-breasted Merganser Marsh Harrier Hen Harrier Montagu's Harrier Sparrowhawk Kestrel Hobby Grey Partridge Water Rail Moorhen Coot Oystercatcher Stone Curlew Little Ringed Plover Ringed Plover	500 200 1.5-2K >40 1-2K 20-23 400 1-3 15-20K 30-40K 1K 100-200K 1.5-3K 200K 40-80K 33-43K 150 475 8600	50K 60K 15K 10K ? 750 - 75-130K 75K - ? ? 1M 150K 280K - - 23K
Golden Plover Lapwing	23K 180K	200K 1M

BREEDING BIRD INDICES

This list covers only those species which have bred or are likely to breed in Cambridgeshire; other species can be used from the relevant list if they occur.

Calculate the total score by adding up the Index score if indicated by an asterix for that species in the habitat. Thresholds for each habitat are given at the end of the table.

- A Lowland Damp Grassland
- B Lowland Fen Without Water
- C Lowland Open Water and Margins
- D Scrub
- E Woodland

Species	Index score	Α	В	С	D	E
Little Grebe	2.5		*	*		
Great Crested Grebe	3			*		
Bittern	5		*	*		
Grey Heron	3			*	*	
Mute Swan	3	*		*		
Shelduck	2	*		*		
Gadwall	4	*	*	*		
Teal	3	*	*	*		
Garganey	5	*	*	*		
Shoveler	4	*	*	*		
Pochard	4		*	*		
Tufted Duck	3			*		
Marsh Harrier	5	*	*	*		
Montagu's Harrier	6		*	*		
Sparrowhawk	2					*
Hobby	4					*
Quail	5	*				
Water Rail	3		*	*		
Woodcock	2					*
Lapwing	1	*				
Avocet	4			*		
Ruff	5	*				
Little Ringed Plover	4			*		
Ringed Plover	3			*		
Snipe	2	*	*	*		
Black-tailed Godwit	5	*				
Curlew	2	*				
Redshank	2	*		*		
Common Tern	3			*		
Turtle Dove	1.5				*	
Stock Dove	1					*
Cuckoo	2	*	*	*	*	*
Tawny Owl	2					*
Long-eared Owl	3				*	*

Species	Index score	Α	В	С	D	E
Short-eared Owl	3	*				
Nightjar	3				*	*
Green Woodpecker	2					*
Greater Spotted Woodpecker	2					*
Lesser Spotted Woodpecker	3					*
Kingfisher	3			*		
Yellow Wagtail	1	*		*		
Grey Wagtail	2			*		
Tree Pipit	1.5				*	*
Nightingale	3				*	*
Redstart	1					*
Whinchat	2	*	*		*	
Stonechat	2				*	
Cetti's Warbler	4		*	*		
Grasshopper Warbler	2	*	*	*	*	
Whitethroat	2				*	
Lesser Whitethroat	2				*	
Garden Warbler	1					*
Blackcap	1				*	*
Wood Warbler	2					*
Chiffchaff	1					*
Goldcrest	1					*
Savi's Warbler	5		*	*		
Sedge Warbler	1	*	*	*		
Reed Warbler	2		*	*		
Marsh Warbler	5		*	*		
Spotted Flycatcher	1					*
Pied Flycatcher	2					*
Long-tailed Tit	1					*
Marsh Tit	1					*
Willow Tit	2					*
Coal Tit	1					*
Red-backed Shrike	5				*	
Bearded Tit	4		*	*		
Nuthatch	2					*
Tree Creeper	1					*
Reed Bunting	1	*		*		
Linnet	1				*	
Golden Oriole	5					*
Jay	1					*
Siskin	2					*
Redpoll	1					*
Index threshold required		11	13	24	10	26

APPENDIX 5C

RARE BREEDING BIRDS IN CAMBRIDGESHIRE

Garganey Pochard Marsh Harrier Hobby Quail Stone Curlew Black-tailed Godwit Long-eared Owl Short-eared Owl Tree Pipit Grey Wagtail Black Redstart Redstart Wheatear Cetti's Warbler Wood Warbler Pied Flycatcher Bearded Tit Nuthatch Golden Oriole Hawfinch

APPENDIX 6

SCORING SYSTEM FOR THE SELECTION OF SITES WITH ASSEMBLAGES OF AMPHIBIANS

		Low Population	Good Population	Exceptional Population
		Score 1	Score 2	Score 3
Great Crested Newt	Seen or netted during the day Counted or bottle trapped at night	<5 <10	5-50 10-100	>50 >100
Smooth Newt	Netted in day Counted at night	<10	10-100	>100
Palmate Newt	Netted in day Counted at night	<10	10-100	>100
Common Toad	Estimated Counted	<500 <100	500-5000 100-1000	>5000 >1000
Common Frog	Spawn clumps counted	<50	50-100	>500

Scores must be for breeding sites observed during the breeding season. Daytime netting should be made during a 15-minute period for sites with less than 50m of water's edge, for 30 minutes for sites with 50-100m and so on. To compute the total score for a site, add the scores for individual species and add one point for four species present and two points for five species.

APPENDIX 7A

REGIONAL RED LIST ASSESSMENT FOR BUTTERFLIES

Based on Fox, R., Dennis, E.B., Brown, A.F. and Curson, J. (2022). *A revised Red List of British Butterflies*. Insect Conservation and Diversity 15(5): 485-495.

[Previous Red Listing from Fox, R., Warren, M.S., and Brereton, T.M. (2010). *A New Red List of British Butterflies*, Species Status 12; 1-32. Joint Nature Conservation Committee, Peterborough.]

List edited to show species present in Cambridgeshire which are listed on the current UK Red List.

List updated October 2023. Silver-spotted Skipper, Swallowtail, Wood White, Duke of Burgundy and Brown Hairstreak have been removed as they are not currently present in the county. Dingy Skipper and Purple Emporer have been removed as they are now regarded as Least Concern.

Species	2022 UK Red Listing	2010 UK Red Listing
Wall	Endangered	Near Threatened
Black Hairstreak	Endangered	Endangered
Grizzled Skipper	Vulnerable	Vulnerable
Small Heath	Vulnerable	Near Threatened
White Admiral	Vulnerable	Vulnerable
White-letter Hairstreak*	Vulnerable	Endangered
Chalkhill Blue	Vulnerable	Near Threatened
Dark Green Fritillary	Near Threatened	Least Concern
Small Blue	Near Threatened	Near Threatened

*White-letter Hairstreak is relatively widespread in Cambridgeshire (2023), sites should only be selected for this species if they are locally notable.

APPENDIX 7B

THE ODONATA RED DATA LIST FOR GREAT BRITAIN

From Daguet, C.A., French, G.C. and Taylor, P. (2008). *The Odonata Red Data List for Great Britain.* Species Status 11; 1-34. Joint Nature Conservation Committee, Peterborough.

List edited to show only species present in Cambridgeshire and surrounding counties as of March 2014.

List produced March 2014.

Endangered Aeshna isosceles (Norfolk Hawker)

Near Threatened

Lestes dryas (Scarce Emerald Damselfly) Ischnura pumilio (Scarce Blue-tailed Damselfly) Coenagrion pulchellum (Variable Damselfly) Libellula fulva (Scarce Chaser)

APPENDIX 7C

BEETLES INDICATIVE OF CONTINUITY OF SAPROXYLIC HABITATS, AND THE METHOD OF CALCULATION OF THE INDEX OF ECOLOGICAL CONTINUITY

From Alexander, K.N.A., *Revision of the Index of Ecological Continuity as used for saproxylic beetles,* English Nature Research Report No. 574, 2004, Peterborough.

For detail on the derivation of this method, see:

- Harding P. and Rose F., *Pasture Woodlands in Lowland Britain*, Institute of Terrestrial Ecology, 1986
- Alexander, K.N.A., 1988. The development of an index of ecological continuity for deadwood associated beetles. *In*: R.C. Welch. Insect indicators of ancient woodland. *Antenna*, **12**, pp. 69-70
- Harding, P.T. & Alexander, K.N.A., 1994. The use of saproxylic invertebrates in the selection and evaluation of areas of relic forest in pasture-woodlands. *British Journal of Entomology and Natural History*, **7** (Suppl. 1), pp. 21-26

For information on rarity, see the JNCC spreadsheet "Conservation Designations for UK Taxa". Available from <u>http://jncc.defra.gov.uk/</u> (12/06/2013).

To calculate the Index of Ecological Continuity: score 3 for Grade 1 species, score 2 for Grade 2 and 1 for Grade 3 and then add the scores. All admissable records for a site must be post-1950.

Family	Species	Continuity grade	Other names in common usage
Histeridae	Plegaderus dissectus	2	
Histeridae	Abraeus granulum	1	
Histeridae	Aeletes atomarius	1	
Ptiliidae	Ptenidium gressneri	2	
Ptiliidae	Ptenidium turgidum	2	
Ptiliidae	Micridium halidaii	1	
Ptiliidae	Ptinella limbata	2	
Scydmaenidae	Eutheia formicetorum	1	
Scydmaenidae	Eutheia linearis	1	
Scydmaenidae	Stenichnus bicolor	3	
Scydmaenidae	Stenichnus godarti	2	
Scydmaenidae	Microscydmus minimus	1	
Scydmaenidae	Microscydmus nanus	2	
Scydmaenidae	Euconnus pragensis	1	
Scydmaenidae	Scydmaenus rufus	3	
Omaliinae	Phyllodrepa nigra	1	
Staphylininae	Xantholinus angularis	2	
Staphylininae	Velleius dilatatus	1	
Staphylininae	Quedius aetolicus	3	
Staphylininae	Quedius maurus	3	
Staphylininae	Quedius microps	3	
Staphylininae	Quedius scitus	2	
Staphylininae	Quedius truncicola	3	ventralis
Staphylininae	Quedius xanthopus	3	
Aleocharinae	Euryusa optabilis	2	
Aleocharinae	Euryusa sinuata	2	

Family	Species	Continuity grade	Other names in common usage
Aleocharinae	Tachyusida gracilis	1	
Pselaphidae	Bibloporus minutus	2	
Pselaphidae	Euplectus nanus	1	
Pselaphidae	Euplectus punctatus	1	
Pselaphidae	Plectophloeus nitidus	1	
Pselaphidae	Batrisodes adnexus	1	buqueti
Pselaphidae	Batrisodes delaporti	1	
Pselaphidae	Batrisodes venustus	1	
Scirtidae	Prionocyphon serricornis	3	
Scarabaeidae	Gnorimus nobilis	1	
Scarabaeidae	Gnorimus variabilis	1	•
Eucnemidae	Melasis buprestoides	3	
Eucnemidae	Microrhagus pygmaeus	3	
Eucnemidae	Eucnemis capucina	1	
Throscidae	Aulonothroscus brevicollis	. 1	
Elateridae	Lacon querceus	1	
Elateridae	Calambus bipustulatus	3	
Elateridae	Limoniscus violaceus	1	
Elateridae	Stenagostus rhombeus	3	villosus
Elateridae	Ampedus cardinalis	1	VIIIOSUS
Elateridae	Ampedus cardinalis Ampedus cinnabarinus	1	
Elateridae	Ampedus elongantulus	3	
Elateridae	Ampedus eiongantulus Ampedus nigerrimus	1	
Elateridae		3	
	Ampedus pomorum		
Elateridae	Ampedus quercicola	1	pomonae
Elateridae	Ampedus ruficeps	1	
Elateridae	Ampedus rufipennis	1	
Elateridae	Ischnodes sanguinicollis	2	
Elateridae	Megapenthes lugens	1	
Elateridae	Procraeus tibialis	1	
Elateridae	Elater ferrugineus	1	
Lycidae	Pyropterus nigroruber	3	
Lycidae	Platycis cosnardi	1	
Lycidae	Platycis minutus	3	
Cantharidae	Malthodes crassicornis	1	
Dermestidae	Globicornis rufitarsis	1	nigripes
Dermestidae	Trinodes hirtus	1	
Bostrichidae	Lyctus brunneus	3	
Anobiidae	Xestobium rufovillosum	3	
Anobiidae	Gastrallus immarginatus	1	
Anobiidae	Dorcatoma ambjoerni	2	
Anobiidae	Dorcatoma chrysomelina	3	
Anobiidae	Dorcatoma dresdensis	2	
Anobiidae	Dorcatoma flavicornis	3	
Anobiidae	Dorcatoma serra	2	
Anobiidae	Anitys rubens	1	
Ptininae	Ptinus subpilosus	2	
Lymexylidae	Hylecoetus dermestoides	3	
Lymexylidae	Lymexylon navalis	2	
Phloiophilidae	Phloiophilus edwardsii	3	
Trogossitidae	Thymalus limbatus	2	
Cleridae	Tillus elongatus	3	•

Family	Species	Continuity grade	Other names in common usage
Cleridae	Opilo mollis	3	
Cleridae	Thanasimus formicarius	3	
Cleridae	Korynetes caeruleus	3	
Melyridae	Aplocnemus impressus	2	pini
Melyridae	Aplocnemus nigricornis	2	
Melyridae	Hypebaeus flavipes	1	
Nitidulidae	Carpophilus sexpustulatus	3	
Nitidulidae	Epuraea angustula	3	
Rhizophagidae	Rhizophagus nitidulus	3	
Rhizophagidae	Rhizophagus oblongicollis	1	
Silvanidae	Silvanus bidentatus	2	
Silvanidae	Silvanus unidentatus	3	
Silvanidae	Uleiota planata	2	
Cucujidae	Pediacus depressus	2	
Cucujidae	Pediacus dermestoides	3	
Laemophloeidae	Notolaemus unifasciatus	2	
Cryptophagidae	Cryptophagus micaceus	1	
Erotylidae	Triplax lacordairii	3	
Erotylidae	Triplax russica	3	
Erotylidae	Triplax scutellaris	3	
Erotylidae	Tritoma bipustulata	3	
Biphyllidae	Biphyllus lunatus	3	
Biphyllidae	Diplocoelus fagi	3	
Cerylonidae	Cerylon fagi	2	
Endomychidae	Symbiotes latus	3	
Lathridiidae	Lathridius consimilis	1	
Lathridiidae	Enicmus brevicornis	3	
Lathridiidae		2	
Lathridiidae	Enicmus rugosus Corticaria alleni	1	
Mycetophagidae	Pseudotriphyllus suturalis	3	
Mycetophagidae	Triphyllus bicolor	2	
Mycetophagidae	Mycetophagus atomarius	3	
Mycetophagidae	Mycetophagus piceus	2	
Mycetophagidae	Mycetophagus populi	2	
Mycetophagidae	Mycetophagus quadriguttatus	2	
Ciidae	Cis coluber	2	
Tetratomidae	Tetratoma ancora	3	
Tetratomidae	Tetratoma desmaresti	3	
Melandryidae	Hallomenus binotatus	3	
Melandryidae	Orchesia undulata	3	
Melandryidae	Anisoxya fuscula	3	
Melandryidae	Abdera biflexuosa	3	
Melandryidae	Abdera quadrifasciata	1	
Melandryidae	Phloiotrya vaudoueri	2	
Melandryidae	Hypulus quercinus	1	
Melandryidae	Melandrya barbata	1	
Melandryidae	Melandrya caraboides	3	
Melandryidae	Conopalpus testaceus	3	
Mordellidae	Tomoxia bucephala	3	
Mordellidae	Mordellistena neuwaldeggiana	3	
Colydiidae	Synchita humeralis	3	
Colydiidae	Synchita separanda	3	

Family	Species	Continuity grade	Other names in common usage
Colydiidae	Cicones variegata	2	
Colydiidae	Bitoma crenata	3	
Colydiidae	Teredus cylindricus	1	
Colydiidae	Oxylaemus variolosus	2	
Tenebrionidae	Eledona agricola	3	
Tenebrionidae	Corticeus unicolor	2	
Tenebrionidae	Prionychus ater	3	
Tenebrionidae	Prionychus melanarius	1	
Tenebrionidae	Pseudocistela ceramboides	2	
Tenebrionidae	Mycetochara humeralis	2	
Oedemeridae	Ischnomera caerulea	1	
Oedemeridae	Ischnomera cinerascens	3	
Oedemeridae	Ischnomera cyanea	3	
Oedemeridae	Ischnomera sanguinicollis	1	
Pyrochroidae	Pyrochroa coccinea	3	
Aderidae	Aderus brevicornis	1	
Aderidae	Aderus oculatus	. 3	
Scraptiidae	Scraptia fuscula	1	
Scraptiidae	Scraptia testacea	1	
Scraptiidae	Anaspis septentrionalis	. 1	schilskyana
Cerambycidae	Prionus coriarius	3	Sormonyana
Cerambycidae	Grammoptera ustulata	1	
Cerambycidae	Grammoptera variegata	3	abdominalis
Cerambycidae	Anoplodera scutellata	1	abuummans
Cerambycidae	Anoplodera sexguttata	2	
Cerambycidae	Leptura aurulenta	3	
Cerambycidae		3	
Cerambycidae	Leptura quadrifasciata Leptura revestita	2	
Cerambycidae	******	1	
	Pyrrhidium sanguineum		
Cerambycidae	Phymatodes testaceus Mesosa nebulosa	3	
Cerambycidae		2	
Cerambycidae	Saperda scalaris	3	
Anthribidae	Platyrhinus resinosus	3	
Anthribidae	Tropideres sepicola	1	
Anthribidae	Tropideres niveirostris	3	
Anthribidae	Platystomos albinus	3	
Rhynchophoridae	Dryophthorus corticalis	1	
Curculionidae	Rhopalomesites tardyi	3	
Curculionidae	Cossonus parallelepipedus	3	
Curculionidae	Stereocorynes truncorum	1	
Curculionidae	Trachodes hispidus	3	
Scolytinae	Ernoporicus caucasicus	2	
Scolytinae	Ernoporicus fagi	3	
Scolytinae	Ernoporus tiliae	2	
Scolytinae	Xyleborinus saxeseni	3	
Scolytinae	Xyleborus dispar	3	
Scolytinae	Xyleborus dryographus	3	
Scolytinae	Trypodendron domesticum	3	
Scolytinae	Trypodendron signatum	3	
Platypodidae	Platypus cylindrus	3	

APPENDIX 7D

INVERTEBRATE INDEX SCORES

The Invertebrate Index was developed internally in the old Nature Conservancy Council and appears in various limited circulation reports, such as county Invertebrate Site Register reports from at least the mid-1980s. It does not appear to have an official publication associated with it but is widely accepted and used by entomologists.

IUCN Status	National Rarity Status	Local Status	Score
none	Notable	n/a	50
none	Notable B	n/a	50
none	Notable A	n/a	50
none	Red Data Book 3 (Rare)	n/a	100
none	Red Data Book 2 (Vulnerable)	n/a	100
none	Red Data Book 1 (Endangered)	n/a	100
none	Red Data Book K (Unknown)	n/a	100
none	Red Data Book I (Indeterminate)	n/a	100
Critically Endangered	Nationally Scarce	n/a	100
Critically Endangered	Nationally Rare	n/a	100
Critically Endangered	none	n/a	100
Endangered	Nationally Scarce	n/a	100
Endangered	Nationally Rare	n/a	100
Endangered	none	n/a	100
Vulnerable	Nationally Scarce	n/a	100
Vulnerable	Nationally Rare	n/a	100
Vulnerable	none	n/a	100
Near Threatened	Nationally Scarce	n/a	100
Near Threatened	Nationally Rare	n/a	100
Near Threatened	none	n/a	50
Data Deficient	Nationally Scarce	n/a	50
Data Deficient	Nationally Rare	n/a	100
Data Deficient	none	n/a	0
Least Concern	Nationally Scarce	n/a	50
Least Concern	Nationally Rare	n/a	100
none	none	CPASI	50