

SUSSEX LOCAL WILDLIFE SITE REVIEW

**ECOLOGICAL SURVEY
OF
OREHAM COMMON H17**



National Grid Reference TQ 223140

Date: 25/06/17

SURVEYOR: JACQUELINE THOMPSON

SUMMARY TABLE

Original key habitat / features	It consists of herb-rich damp grassland with areas of tall herbs and some scrub and woodland. It has a small pond in the western corner. Important for its range of species and habitat for birds and amphibians.
Changes since original citation	<ul style="list-style-type: none"> • The 1992 citation starts with 'The grassland is most diverse north of the road.' This is certainly not the case for Tall Fescue now dominates the grassland on the north side of the road. • Some aquatic species mentioned such as Arrowhead <i>Sagittaria sagittifolia</i> and Water Soldier <i>Stratiotes aloides</i> are no longer present. • There is much scrub encroachment into the southern part of the site. • There appears to be a second pond that was not mentioned in the original citation towards the southern end of the site.
Retain	YES – entire site
Boundary change	NO
Reason for recommendation	<ul style="list-style-type: none"> • The site contains a wide range of plant species including Common Meadow-rue, which has declined due to land drainage and old meadow indicator species such as Sneezewort <i>Achillea ptarmica</i> and Peppercorn <i>Silaum silaus</i>. • The site is a good mosaic of damp grassland, tall-herb wetland, ponds and scrub of importance to birds, amphibians, invertebrates and likely, reptiles. • There is a local willingness to look after and manage the site.

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INTRODUCTION

1.1 BACKGROUND

Local Wildlife Sites, formerly known as Sites of Nature Conservation Importance, are a non-statutory designation. They form a comprehensive suite of sites of substantive nature conservation value of at least local (County) importance. LWS designation started in Sussex in the early 1990's.

This ecological survey forms part of a review of LWS within Sussex to ensure all areas of substantive nature conservation value are recognized as LWSs, as per national and local guidance. As a result of this review, LWS may be designated, modified or deleted.

1.2 AIM

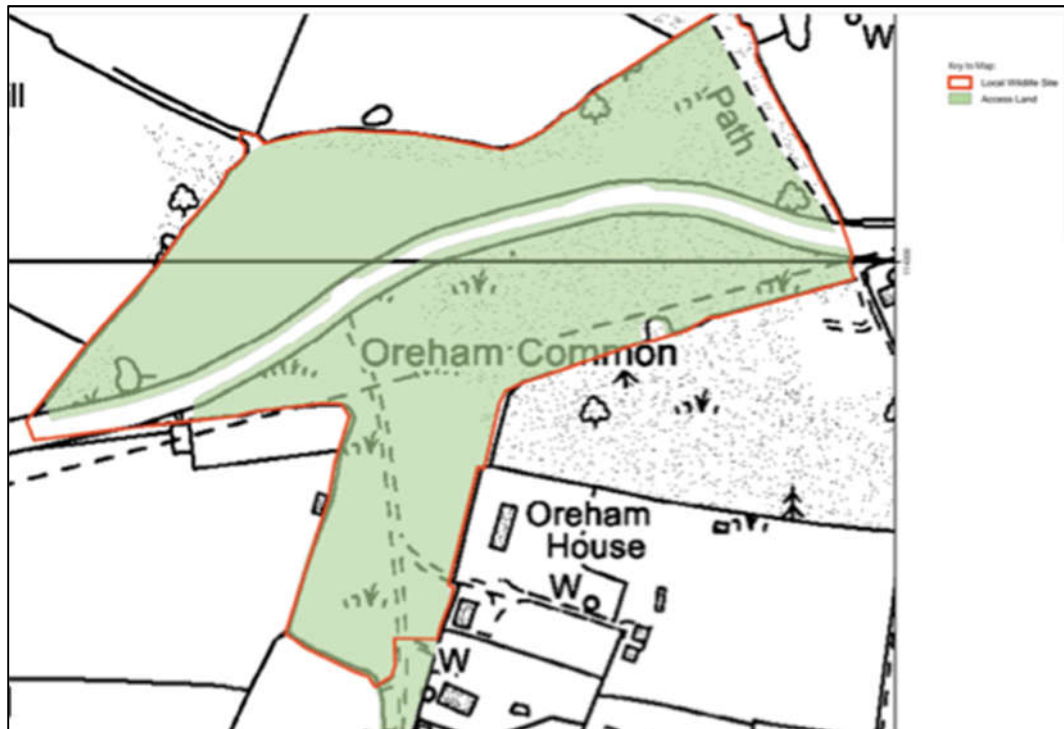
This survey aims to gather sufficient ecological information on the site to establish:

- If the site has/retains substantive nature conservation value, in whole, part, or in combination with nearby land;
- If the site should be designated/modified/retained as a LWS; and
- Basic management recommendations to restore, retain or enhance the sites substantive nature conservation value.

1.3 SITE LOCATION

This is a registered common, located to the south east of Henfield within a predominantly arable landscape. There is some low-density housing at the southern end of the site.

Figure 1: The boundary of Oreham Common



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2 METHODS

Existing biodiversity records from the Sussex Biodiversity Records Centre were reviewed prior to survey.

Favourable weather conditions were sought for survey where possible. Existing Local Wildlife Site (LWS) areas were resurveyed. Additional areas of potential LWS extension and new areas for potential designation were surveyed at the surveyor's discretion, informed with existing data and additional information from local sources.

Distinct land parcels, as indicated on the survey map, were surveyed separately. Survey areas were traversed on foot systematically ensuring even coverage of the survey area and habitats present.

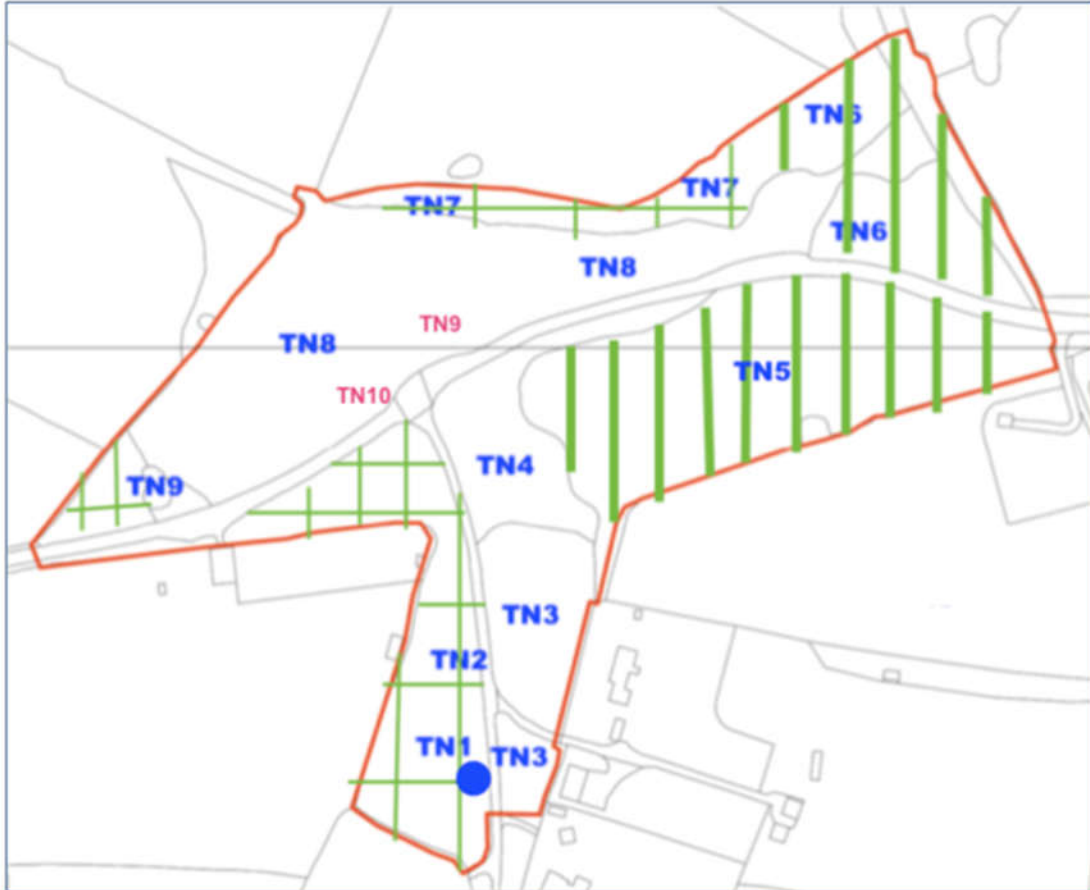
Subjective estimates of the relative abundance of species were added to the plant species list using a modified DAFOR scale. The DAFOR scale ranks species according to their relative abundance in a given parcel of land as follows: d – dominant, a – abundant, f – frequent, o – occasional, r – rare. In addition, the following prefixes are used: l – locally, v – very.

Species of fauna (including birds, mammals, and invertebrates) were recorded and counted numerically.

DAFOR plant records were recorded to the central point of survey compartments. Mobile species records (e.g. birds) were generally recorded to 100 metre resolution. Notable records were recorded to 10 metre resolution where possible.

3 RESULTS

Figure 2: Target Note locations



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Note: Thin hatching is scrub with trees; thick lines are woodland (sometimes scrubby)

Target Note 1. A pond adjacent to the road (Photograph 1) and surrounded by dense scrub of Blackthorn *Prunus spinosa* and Grey Willow *Salix cinerea*. Robust emergent vegetation, such as Bulrush *Typha latifolia* and Yellow Iris *Iris pseudacorus* is throughout the pond showing that the water is shallow. Aquatic vegetation is dominated by Curled Pondweed *Potamogeton crispus* with Common Duckweed *Lemna minor* on the surface. The pond is immediately surrounded by Soft-rush *Juncus effusus*, Hard Rush *Juncus inflexus*, Hemlock Water-dropwort *Oenanthe crocata*, Common Fleabane *Pulicaria dysenterica* and Great Willowherb *Epilobium hirsutum* though this wetland vegetation is becoming invaded by Bramble *Rubus fruticosus* agg. and Creeping Thistle *Cirsium arvense*.

Photograph 1: Pond in the south part of Oreham Common



Target Note 2. A dense scrub thicket dominated by Blackthorn. A Nightingale *Luscinia megarhynchos* could be heard singing from the scrub.

Target Note 3. Species rich grassland that is very variable and has a good range of flowering plants including Wild Carrot *Daucus carota*, Agrimony *Agrimonia eupatoria*, Common Knapweed *Centaurea nigra*, Hoary Ragwort *Senecio erucifolius*, White Clover *Trifolium repens* and Oxeye Daisy *Leucanthemum vulgare*. A range of grasses include False Oat-grass *Arrhenatherum elatius*, Red Fescue *Festuca rubra*, Tufted Hair-grass *Deschampsia cespitosa*, Tall Fescue *Schedonorus arundinaceus* and Crested Dog's-tail *Cynosurus cristatus* though these never reach prominence. A tangle of climbing plants smother the vegetation with Meadow Vetchling *Lathyrus pratensis*, Hairy Tare *Vicia hirsuta*, Hedge Bindweed *Calystegia sepium* and Field Bindweed *Convolvulus arvensis*. The south of this area has a large stand of the uncommon Meadow-rue *Thalictrum flavum*. The grassland, due to its variability, does not fit any National Vegetation Classification community.

Target Note 4. Areas of tall herbaceous vegetation dominated by Meadowsweet *Filipendula ulmaria* with occasional associates such as Hemlock Water-dropwort *Oenanthe crocata*, Clustered Dock *Rumex conglomeratus*, Hedge Bindweed *Calystegia sepium* and Greater Bird's-foot-trefoil *Lotus corniculatus*. It has affinities to the NVC type M27b *Filipendula ulmaria*-*Angelica sylvestris* mire, *Urtica dioica*-*Vicia*

cracca sub-community. This community forms a mosaic with areas described in Target Note 3, which support a high number of Common Spotted-orchids *Dactylorhiza fuchsii*. The whole area is becoming colonised by scattered Pedunculate Oak *Quercus robur* and Blackthorn.

Target Note 5. Deciduous woodland with a high canopy dominated by Pedunculate Oaks with a trunk diameter of 35 cm – 70 cm. The shrub layer is sparse and scattered with very occasional coppiced Hazel *Corylus avellana* and infrequent Holly *Ilex aquifolium* and Hawthorn *Crataegus monogyna*. The field layer is bare in places and a dense tangle of Bracken *Pteridium aquilinum* and Bramble in others with scattered Bluebell *Hyacinthoides non-scripta*. Soft Shield-fern *Polystichum setiferum* and Hart's-tongue *Asplenium scolopendrium* surround an area of earthworks. Several trees have splits and other features suitable for bats and nesting birds (Photograph 2). The woodland is most similar to the NVC type W10c *Quercus robur*-*Pteridium aquilinum*-*Rubus fruticosus* woodland, *Holcus lanatus* sub-community.

Photograph 2: A tree with spaces suitable for roosting bats and nesting birds



Target Note 6. This woodland also has a canopy dominated by Pedunculate Oak, though the patchy shrub layer supports dense thickets of Blackthorn with occasional shrubs of Grey Willow in damper areas and a localised area of English Elm *Ulmus procera*. The woodland floor is bare in places and dominated by Common Nettle *Urtica dioica* and Bramble in others and appears to be suffering from nutrient enrichment,

which may be caused by run-off from the golf course. There is littering and signs of fires in this woodland.

Target Note 7. Dense scrub variously dominated by Blackthorn, Grey Willow, Bramble and English Elm with occasional Pedunculate Oak trees.

Target Note 8. Grassland that is dominated by Tall Fescue with associated grasses at lower levels such as Yorkshire-fog *Holcus lanatus*, Meadow Foxtail *Alopecurus pratensis* and Tufted Hair-grass. Sharp-flowered Rush *Juncus acutiflorus* is abundant in places and herbaceous species have a patchy distribution and are abundant at the eastern end of the field where they include Common Fleabane *Pulicaria dysenterica*, Cut-leaved Crane's-bill *Geranium dissectum*, Greater Bird's-foot-trefoil, Wild Angelica *Angelica sylvestris*, Lesser Stitchwort *Stellaria graminea*, and the climbers Hairy Tare and Meadow Vetchling. Less common species such as Sneezewort *Achillea ptarmica* and Common Spotted-orchid were found in just one or two areas. In some areas, however, Tall Fescue forms a monoculture.

Target Note 9. A pond that is surrounded by Pedunculate Oaks and Blackthorn scrub. This has limited the wetland vegetation to some scattered emergent Branched Bur-reed *Sparganium erectum* and very occasional Yellow Iris. The surface is covered with White Water-lily *Nymphaea alba* and the water appears to be shallow and choked with sediment and leaf litter.

Target Note 10. A stand of Goat's-rue *Galega officinalis* that requires clearing as it can become invasive forming large stands to the exclusion of other species.

Birds

During the survey a number of birds were recorded including Treecreeper *Certhia familiaris*, Buzzard *Buteo buteo*, Long-tailed Tit *Aegithalos caudatus* fledglings and the Red-listed Turtle Dove *Streptopelia turtur* and Nightingale *Luscinia megarhynchos* (which has frequently been recorded over the years). Other less common birds that have been recorded within the last 10 years include the Red-listed Cuckoo *Cuculus canorus*, Yellowhammer *Emberiza citronella* and Mistle Thrush *Turdus viscivorus* and the Amber-listed Bullfinch *Pyrrhula pyrrhula*.

Invertebrates

Five species of damselfly and dragonfly were recorded including the Four-spotted Chaser *Libellula quadrimaculata*, the Azure Damselfly *Coenagrion puella* and the Large Red Damselfly *Pyrrhosoma nymphula*.

Six butterfly species were recorded including the Marbled White *Melanargia galathea*, Ringlet *Aphantopus hyperantus*, Gatekeeper *Pyronia tithonus* and Small Skipper *Thymelicus sylvestris*. An additional ten species have been recorded within the last 10

years including the Brown Argus *Aricia agestis* and the Purple Hairstreak *Neozephyrus Quercus*.

Amphibians and reptiles

Palmate Newts *Lissotriton helveticus* have been recorded within the last 10 years and likely use the ponds for breeding. It is possible that other amphibians, together with reptiles are in the area as there is suitable habitat.

4 CONCLUSION

4.1 COMPARISON WITH PREVIOUS SURVEY

- The 1992 citation starts with 'The grassland is most diverse north of the road.' This is certainly not the case for Tall Fescue now dominates the grassland on the north side of the road. This grass appears to be acting in a similar way to Tor-grass *Brachypodium pinnatum* on the chalk.
- Some aquatic species mentioned such as Arrowhead *Sagittaria sagittifolia* and Water Soldier *Stratiotes aloides* are no longer present.
- There is much scrub encroachment into the southern part of the site that is unlikely to have been present in 1992.
- There appears to be a second pond that was not mentioned in the original citation towards the southern end of the site.

4.2 GENERAL

The site supports a good habitat mosaic and a high number of species for a small area including Meadow-rue, a plant species that has undergone widespread declines and old meadow indicators: Sneezewort and Pepper-saxifrage. The most pressing management issue is to reduce the dominance of the Tall Fescue.

4.3 LWS REVIEW RECOMMENDATION

It is recommended that Oreham Common be retained as a Local Wildlife Site to its current LWS boundary. A revised LWS citation for the southern field is appended below for consideration.

4.4 MANAGEMENT RECOMMENDATIONS

The most important management issue is to control and reduce the dominance of Tall Fescue in the northern part of the site. This was clearly far more species rich previously and either the current management / past management or simply milder winters have enabled Tall Fescue to thrive. The conventional management for this is to mow and then graze, as this is the best way to physically break up the grass and create spaces for other plants to colonise. Cutting, without really disturbing the soil, is unlikely to address the issue and could well promote further growth of Tall Fescue. The north part of the Common will likely require some dedicated experimentation in management, such as different cutting regimes with scarification of the soil.

There is much scrub encroachment in the southern part of the site with young oaks and Blackthorn scrub. This is drying the grassland and will be to the detriment of the wetland vegetation if not controlled.

The ponds have become shallow and the pond at the western end of the site is choked with silt and leaf litter. Both ponds would benefit from dredging and re-profiling (though not at the same time), and both require some clearance of surrounding scrub. The pond to the west of the site would benefit from some of the young trees being removed or some branches removed from more mature trees as it is becoming heavily shaded.

A sizable stand of Goat's-rue *Galega officinalis* requires removal, as this can be invasive in some areas and is likely to increase in extent in its current setting.

APPENDIX I CITATIONS

EXISTING LWS CITATION

LOCAL WILDLIFE SITE (LWS)

West Sussex

Site Name:	Oreham Common	Owner:	Horsham District Council
Site Ref:	H17	Size (ha):	5.6
District:	Horsham	Date:	Identified May 1992
Parish:	Henfield	Author:	Marion Finch
National Grid Ref:	TQ223140		
Habitat:	Neutral grassland, scrub, semi-natural woodland and pond		

Summary

The site is a registered common, located close to Henfield. It consists of herb-rich damp grassland with areas of tall herbs and some scrub and woodland. It has a small pond in the western corner.

Site description

The grassland is most diverse north of the road. The abundance of species such as Tufted Hair-grass *Deschampsia caespitosa*, Sneezewort *Achillea ptarmica*, Pepper Saxifrage *Silva silaus*, March Thistle *Cirsium palustre* and Fleabane *Pulicaria dysenterica* indicate damp conditions, caused by the heavy clay soils. Other typical herbs include Common Knapweed *Centaurea nigra*, Meadow Vetchling *Lathyrus pratensis*, Bird's-foot-trefoil *Lotus corniculatus*, Yarrow *Achillea millefolium* and Creeping Buttercup *Ranunculus repens*. Rushes *Juncus* spp are frequent. Uncut areas south of the road have tall herbs including Meadowsweet *Filipendula ulmaria*, Hemlock Water-dropwort *Oenanthe crocata*, Teasel *Dipsacus fullonum* and Great Willowherb *Epilobium hirsutum*, but coarse species such as False Dat-grass *Arrhenatherum elatius*, Creeping Thistle *Cirsium arvense* Rosebay Willowherb *Chamaenerion angustifolium* and Bramble *Rubus fruticosus* are also abundant.

Buckthorn, Hawthorn and Bramble scrub has developed around the margins and there are areas of Oak woodland.

The small pond has a diverse flora, including Arrowhead *Sagittaria sagittifolia* and Water Soldier *Stratiotes aloides*.

The variety of habitats is reflected in the fauna present. Good populations of small birds occur in the woodland and scrub, the grassland attracts a number of common Butterflies and Common Toad, Common Frog, Smooth and Palmate Newts occur in the pond.

Management recommendations

The area north of the road and a small field to the south are mown for hay. The rest is unmanaged and coarse vegetation, Bracken *Pteridium aquilinum* and scrub are encroaching. All the grassland should be cut and the cuttings removed. The pond needs periodic maintenance. The grassland by the track has been enriched and churned up by vehicles, this should be prevented by blocking vehicular access to all but the farmer of the fields opposite. No fertilisers should be used on the grassland.

PROPOSED LWS CITATION

Site Name: Oreham Common
Site Ref: H17
District: Horsham
Parish: Henfield
Grid Ref: TQ 223140
Size (ha): 5.6
Date: 1992; 25 June 2017
Surveyors: Marion Finch (1992); Jacqueline Thompson (2017)

SUMMARY

The site is a registered common, located close to Henfield. It consists of herb-rich damp grassland with areas of tall-herb wetland vegetation and two ponds. There are areas of dense scrub and some deciduous woodland. The habitat supports a number of less common birds such as Nightingales and Turtle Doves.

SITE NOTES

The grassland is most diverse to the south of the road where it comprises a mosaic of species rich grassland and wetland vegetation. Stands of Meadowsweet *Filipendula ulmaria* with Hemlock Water-dropwort *Oenanthe crocata* are interrupted by damp grassland with a range of species including Common Knapweed *Centaurea nigra* Marsh Thistle *Cirsium palustre*, Meadow Vetchling *Lathyrus pratensis*, Hogweed *Heracleum sphondylium*, Greater Bird's-foot-trefoil *Lotus Pedunculatus*, Hoary Ragwort *Senecio erucifolius* and the less common Pepper Saxifrage *Silaum silaus* and Meadow-rue *Thalictrum flavum*. The grassland on the north side of the road is heavily dominated by Tall Fescue *Schedonorus arundinaceus* with occasional Tufted Hair-grass *Deschampsia caespitosa* and Juncus *acutiflorus* Sharp-flowered Rush with areas where herbaceous species reach local prominence.

The ponds support a limited range of vegetation including emergent and fringing Bulrush *Typha latifolia*, Yellow Iris *Iris pseudacorus* and Branched Bur-reed *Sparganium erectum* and aquatics such as Curled Pondweed *Potamogeton crispus* and *Nymphaea alba* White Water-lily. The woodland is dominated by Pedunculate Oak *Quercus robur* with a field layer supporting Bluebells *Hyacinthoides non-scripta*. Areas of dense scrub dominated by Blackthorn *Prunus spinosa* are along the woodland edges where light levels are higher and encroaching into the grassland.

The mosaic of habitats with a rich variety of plants support a good number of butterflies with fifteen species recorded recently including the Purple Hairstreak *Neozephyrus Quercus* and Brown Argus *Aricia agestis*. Five species of damselfly and dragonfly were recorded during the survey.

APPENDIX II SPECIES LISTS

OREHAM COMMON NORTH - HIGHER PLANTS AND BRYOPHYTES

Latin name	English name	Abundance	Grid reference
Grasses, sedges and rushes			
<i>Agrostis stolonifera</i>	Creeping Bent	F	TQ222140
<i>Alopecurus geniculatus</i>	Marsh Foxtail	R	TQ222141
<i>Alopecurus pratensis</i>	Meadow Foxtail	F	TQ222142
<i>Anthoxanthum odoratum</i>	Sweet Vernal-grass	LF	TQ222143
<i>Brachypodium sylvaticum</i>	False Brome	R	TQ222144
<i>Bromus hordeaceus</i>	Soft-brome	O	TQ222145
<i>Carex flacca</i>	Glaucous Sedge	VO	TQ222146
<i>Carex hirta</i>	Hairy Sedge	F	TQ222147
<i>Carex otrubae</i>	False Fox-sedge	LF	TQ222148
<i>Carex ovalis</i>	Oval Sedge	O	TQ222149
<i>Carex sylvatica</i>	Wood-sedge	R	TQ222150
<i>Cynosurus cristatus</i>	Crested Dog's-tail	LF	TQ222151
<i>Dactylis glomerata</i>	Cock's-foot	VO	TQ222152
<i>Deschampsia cespitosa</i>	Tufted Hair-grass	LF	TQ222153
<i>Festuca rubra</i>	Red Fescue	F	TQ222155
<i>Holcus lanatus</i>	Yorkshire-fog	F	TQ222156
<i>Juncus acutiflorus</i>	Sharp-flowered Rush	F	TQ222157
<i>Juncus effusus</i>	Soft-rush	LF	TQ222158
<i>Poa pratensis</i>	Smooth Meadow-grass	O	TQ222159
<i>Poa trivialis</i>	Rough Meadow-grass	O	TQ222160
<i>Schedonorus arundinaceus</i>	Tall Fescue	A / LD	TQ222154
Flowering plants			
<i>Achillea millefolium</i>	Yarrow	O	TQ222162
<i>Achillea ptarmica</i>	Sneezewort	LF	TQ222163
<i>Agrimonia eupatoria</i>	Agrimony	O	TQ222164
<i>Anthriscus sylvestris</i>	Cow Parsley	LF	TQ222165
<i>Calystegia sepium</i>	Hedge Bindweed	LF	TQ222166
<i>Calystegia silvatica</i>	Large Bindweed	R	TQ222167
<i>Cerastium fontanum</i>	Common Mouse-ear	R	TQ222168
<i>Circaea lutetiana</i>	Enchanter's-nightshade	O	TQ222169
<i>Cirsium palustre</i>	Marsh Thistle	LF	TQ222170
<i>Cirsium vulgare</i>	Spear Thistle	O	TQ222171
<i>Dactylorhiza fuchsii</i>	Common Spotted-orchid	O	TQ222172
<i>Epilobium hirsutum</i>	Great Willowherb	LF	TQ222173
<i>Filipendula ulmaria</i>	Meadowsweet	F / LA	TQ222174
<i>Galium aparine</i>	Cleavers	O	TQ222175
<i>Galega officinalis</i>	Goat's-rue	LA	TQ222176
<i>Geranium dissectum</i>	Cut-leaved Crane's-bill	VO	TQ222177

Latin name	English name	Abundance	Grid reference
Flowering plants contd.			
<i>Geum urbanum</i>	Wood Avens	O	TQ222178
<i>Glechoma hederacea</i>	Ground-ivy	LF	TQ222179
<i>Heracleum sphondylium</i>	Hogweed	O	TQ222180
<i>Hyacinthoides non-scripta</i>	Bluebell	LF	TQ222181
<i>Iris pseudacorus</i>	Yellow Iris	LF	TQ222182
<i>Lathyrus pratensis</i>	Meadow Vetchling	F	TQ222183
<i>Lotus pedunculatus</i>	Greater Bird's-foot-trefoil	O / LA	TQ222184
<i>Lysimachia nummularia</i>	Creeping Jenny	R	TQ222185
<i>Mercurialis perennis</i>	Dog's Mercury	LF	TQ222186
<i>Nymphaea alba</i>	White Water-lily	LF	TQ222187
<i>Oenanthe crocata</i>	Hemlock Water-dropwort	LF	TQ222188
<i>Plantago lanceolata</i>	Ribwort Plantain	O	TQ222189
<i>Potentilla anserina</i>	Silverweed	LF	TQ222190
<i>Potentilla reptans</i>	Creeping Cinquefoil	O	TQ222191
<i>Primula vulgaris</i>	Primrose	LF	TQ222192
<i>Pulicaria dysenterica</i>	Common Fleabane	F / LA	TQ222193
<i>Ranunculus acris</i>	Meadow Buttercup	O	TQ222194
<i>Ranunculus repens</i>	Creeping Buttercup	LF	TQ222195
<i>Rumex acetosa</i>	Common Sorrel	O	TQ222196
<i>Rumex conglomeratus</i>	Clustered Dock	LF	TQ222197
<i>Rumex crispus</i>	Curled Dock	O	TQ222198
<i>Rumex obtusifolius</i>	Broad-leaved Dock	O	TQ222199
<i>Rumex sanguineus</i>	Wood Dock	O	TQ222200
<i>Senecio erucifolius</i>	Hoary Ragwort	O	TQ222201
<i>Silene dioica</i>	Red Campion	LF	TQ222202
<i>Solanum dulcamara</i>	Bittersweet	LF	TQ222203
<i>Sparganium erectum</i>	Branched Bur-reed	LF	TQ222204
<i>Stellaria graminea</i>	Lesser Stitchwort	O	TQ222205
<i>Trifolium repens</i>	White Clover	O / LF	TQ222206
<i>Urtica dioica</i>	Common Nettle	LF	TQ222207
<i>Vicia cracca</i>	Tufted Vetch	LF	TQ222208
<i>Vicia hirsuta</i>	Hairy Tare	LF	TQ222209
<i>Vicia sepium</i>	Bush Vetch	O	TQ222210
<i>Viola odorata</i>	Sweet Violet	VO	TQ222211
Woody species			
<i>Acer campestre</i>	Field Maple	R	TQ222213
<i>Cornus sanguinea</i>	Dogwood	R	TQ222214
<i>Corylus avellana</i>	Hazel	LF	TQ222215
<i>Crataegus laevigata</i>	Midland Hawthorn	R	TQ222216
<i>Crataegus monogyna</i>	Hawthorn	O	TQ222217
<i>Fraxinus excelsior</i>	Ash	O	TQ222218
<i>Hedera helix</i>	Ivy	LF	TQ222219
<i>Ilex aquifolium</i>	Holly	O	TQ222220

Latin name	English name	Abundance	Grid reference
Woody species contd.			
<i>Ligustrum vulgare</i>	Wild Privet	LF	TQ222221
<i>Prunus spinosa</i>	Blackthorn	O / LA	TQ222222
<i>Quercus robur</i>	Pedunculate Oak	LF	TQ222223
<i>Rubus fruticosus agg.</i>	Bramble	LF	TQ222224
<i>Salix caprea</i>	Goat Willow	O	TQ222225
<i>Salix cinerea</i>	Grey Willow	LF	TQ222226
<i>Ulmus procera</i>	English Elm	LF	TQ222227
Ferns			TQ222228
<i>Dryopteris dilatata</i>	Broad Buckler-fern	O	TQ222229
<i>Dryopteris filix-mas</i>	Male-fern	O	TQ222230
<i>Pteridium aquilinum</i>	Bracken	LF	TQ222231
Bryophytes			TQ222232
<i>Atrichum undulatum</i>		LF	TQ222233
<i>Kindbergia praelonga</i>		O	TQ222234

OREHAM COMMON SOUTH - HIGHER PLANTS AND BRYOPHYTES

Latin name	English name	Abundance	Grid reference
Grasses, sedges and rushes			
<i>Agrostis stolonifera</i>	Creeping Bent	LF	TQ222139
<i>Alopecurus pratensis</i>	Meadow Foxtail	LF	TQ222139
<i>Anthoxanthum odoratum</i>	Sweet Vernal-grass	LF	TQ222139
<i>Arrhenatherum elatius</i>	False Oat-grass	LF	TQ222139
<i>Brachypodium sylvaticum</i>	False Brome	R	TQ222139
<i>Bromus hordeaceus</i>	Soft-brome	O	TQ222139
<i>Carex flacca</i>	Glaucous Sedge	LF	TQ222139
<i>Carex hirta</i>	Hairy Sedge	F	TQ222139
<i>Carex otrubae</i>	False Fox-sedge	R	TQ222139
<i>Carex remota</i>	Remote Sedge	R	TQ222139
<i>Carex sylvatica</i>	Wood-sedge	LF	TQ222139
<i>Dactylis glomerata</i>	Cock's-foot	O	TQ222139
<i>Deschampsia cespitosa</i>	Tufted Hair-grass	VO	TQ222139
<i>Festuca rubra</i>	Red Fescue	F	TQ222139
<i>Holcus lanatus</i>	Yorkshire-fog	F	TQ222139
<i>Hordeum secalinum</i>	Meadow Barley	R	TQ222139
<i>Juncus effusus</i>	Soft-rush	LA	TQ222139
<i>Juncus inflexus</i>	Hard Rush	LA	TQ222139
<i>Lolium perenne</i>	Perennial Rye-grass	R	TQ222139
<i>Luzula campestris</i>	Field Wood-rush	VO	TQ222139
<i>Milium effusum</i>	Wood Millet	R	TQ222139
<i>Phleum pratense</i>	Timothy	O	TQ222139
<i>Poa pratensis</i>	Smooth Meadow-grass	VO	TQ222139
<i>Schedonorus arundinaceus</i>	Tall Fescue	LA	TQ222154
<i>Poa trivialis</i>	Rough Meadow-grass	O	TQ222139
Flowering plants			
<i>Aegopodium podagraria</i>	Ground-elder	LF	TQ222139
<i>Agrimonia eupatoria</i>	Agrimony	O	TQ222139
<i>Angelica sylvestris</i>	Wild Angelica	O	TQ222139
<i>Apium nodiflorum</i>	Fool's Water-cress	R	TQ222139
<i>Artemisia vulgaris</i>	Mugwort	LF	TQ222139
<i>Bellis perennis</i>	Daisy	LF	TQ222139
<i>Calystegia sepium</i>	Hedge Bindweed	LF	TQ222139
<i>Calystegia silvatica</i>	Large Bindweed	R	TQ222139
<i>Cardamine flexuosa</i>	Wavy Bitter-cress	O	TQ222139
<i>Centaurea nigra</i>	Common Knapweed	F / LA	TQ222139
<i>Circaea lutetiana</i>	Enchanter's-nightshade	LF	TQ222139
<i>Cirsium arvense</i>	Creeping Thistle	LF	TQ222139
<i>Cirsium palustre</i>	Marsh Thistle	O	TQ222139
<i>Convolvulus arvensis</i>	Field Bindweed	LF	TQ222139
<i>Dactylorhiza fuchsii</i>	Common Spotted-orchid	LA	TQ222139
<i>Daucus carota</i>	Wild Carrot	O	TQ222139

Latin name	English name	Abundance	Grid reference
Flowering plants			
<i>Dipsacus fullonum</i>	Teasel	O	TQ222139
<i>Epilobium hirsutum</i>	Great Willowherb	O	TQ222139
<i>Eupatorium cannabinum</i>	Hemp-agrimony	O	TQ222139
<i>Filipendula ulmaria</i>	Meadowsweet	LD	TQ222139
<i>Galium aparine</i>	Cleavers	O / LF	TQ222139
<i>Galium palustre</i>	Common Marsh-bedstraw	LF	TQ222139
<i>Geranium dissectum</i>	Cut-leaved Crane's-bill	O	TQ222139
<i>Geranium robertianum</i>	Herb-Robert	LF	TQ222139
<i>Geum urbanum</i>	Wood Avens	R	TQ222139
<i>Glechoma hederacea</i>	Ground-ivy	LF	TQ222139
<i>Helminthotheca echioides</i>	Bristly Oxtongue	R	TQ222139
<i>Heracleum sphondylium</i>	Hogweed	LF	TQ222139
<i>Hyacinthoides non-scripta</i>	Bluebell	LA	TQ222139
<i>Hypericum tetrapterum</i>	Square-stalked So that John's-wort	R	TQ222139
<i>Iris foetidissima</i>	Stinking Iris	R	TQ222139
<i>Iris pseudacorus</i>	Yellow Iris	R	TQ222139
<i>Lapsana communis</i>	Nipplewort	R	TQ222139
<i>Lathyrus nissolia</i>	Grass Vetchling	R	TQ222139
<i>Lathyrus pratensis</i>	Meadow Vetchling	LF	TQ222139
<i>Lemna minor</i>	Common Duckweed	LF	TQ222139
<i>Leucanthemum vulgare</i>	Oxeye Daisy	LF	TQ222139
<i>Lotus corniculatus</i>	Common Bird's-foot-trefoil	O	TQ222139
<i>Lotus pedunculatus</i>	Greater Bird's-foot-trefoil	LF	TQ222139
<i>Lysimachia vulgaris</i>	Yellow Loosestrife	R	TQ222139
<i>Lythrum salicaria</i>	Purple-loosestrife	R	TQ222139
<i>Mentha aquatica</i>	Water Mint	LF	TQ222139
<i>Myosotis discolor</i>	Changing Forget-me-not	VO	TQ222139
<i>Nymphaea alba</i>	White Water-lily	LF	TQ222139
<i>Oenanthe crocata</i>	Hemlock Water-dropwort	LD	TQ222139
<i>Plantago lanceolata</i>	Ribwort Plantain	O	TQ222139
<i>Potamogeton crispus</i>	Curled Pondweed	LF	TQ222139
<i>Potentilla anserina</i>	Silverweed	LF	TQ222139
<i>Potentilla reptans</i>	Creeping Cinquefoil	O	TQ222139
<i>Primula vulgaris</i>	Primrose	LF	TQ222139
<i>Prunella vulgaris</i>	Selfheal	LF	TQ222139
<i>Pulicaria dysenterica</i>	Common Fleabane	O / LF	TQ222139
<i>Ranunculus acris</i>	Meadow Buttercup	O	TQ222139
<i>Ranunculus repens</i>	Creeping Buttercup	O	TQ222139
<i>Rumex acetosa</i>	Common Sorrel	O	TQ222139
<i>Rumex conglomeratus</i>	Clustered Dock	VO	TQ222139
<i>Rumex crispus</i>	Curled Dock	O	TQ222139
<i>Rumex sanguineus</i>	Wood Dock	LF	TQ222139
<i>Scrophularia nodosa</i>	Common Figwort	R	TQ222139

Latin name	English name	Abundance	Grid reference
Flowering plants contd.			
<i>Senecio erucifolius</i>	Hoary Ragwort	O	TQ222139
<i>Silaum silaus</i>	Pepper Saxifrage	LF	TQ222139
<i>Silene dioica</i>	Red Campion	R	TQ222139
<i>Solanum dulcamara</i>	Bittersweet	LF	TQ222139
<i>Sparganium erectum</i>	Branched Bur-reed	LF	TQ222139
<i>Stachys sylvatica</i>	Hedge Woundwort	LF	TQ222139
<i>Stellaria graminea</i>	Lesser Stitchwort	O	TQ222139
<i>Stellaria holostea</i>	Greater Stitchwort	R	TQ222139
<i>Tamus communis</i>	Black Bryony	LF	TQ222139
<i>Taraxacum sect. Ruderalia</i>	Common Dandelion	O	TQ222139
<i>Thalictrum flavum</i>	Common Meadow-rue	LD	TQ222139
<i>Tragopogon pratensis</i>	Goat's-beard	O	TQ222139
<i>Trifolium campestre</i>	Hop Trefoil	LF	TQ222139
<i>Trifolium dubium</i>	Lesser Trefoil	LF	TQ222139
<i>Trifolium repens</i>	White Clover	O	TQ222139
<i>Typha latifolia</i>	Bulrush	LF	TQ222139
<i>Urtica dioica</i>	Common Nettle	O	TQ222139
<i>Veronica beccabunga</i>	Brooklime	R	TQ222139
<i>Veronica serpyllifolia</i>	Thyme-leaved Speedwell	R	TQ222139
<i>Vicia cracca</i>	Tufted Vetch	O	TQ222139
<i>Vicia hirsuta</i>	Hairy Tare	F	TQ222139
<i>Vicia sepium</i>	Bush Vetch	O	TQ222139
<i>Vicia tetrasperma</i>	Smooth Tare	F	TQ222139
<i>Viola odorata</i>	Sweet Violet	R	TQ222139
<i>Viola riviniana</i>	Common Dog-violet	R	TQ222139
Woody species			
<i>Acer campestre</i>	Field Maple	R	TQ222139
<i>Aesculus hippocastanum</i>	Horse-chestnut	R	TQ222139
<i>Corylus avellana</i>	Hazel	LF	TQ222139
<i>Crataegus monogyna</i>	Hawthorn	LF	TQ222139
<i>Fraxinus excelsior</i>	Ash	O	TQ222139
<i>Hedera helix</i>	Ivy	LA	TQ222139
<i>Lonicera periclymenum</i>	Honeysuckle	LF	TQ222139
<i>Malus sylvestris</i>	Crab Apple	R	TQ222139
<i>Prunus spinosa</i>	Blackthorn	O / LD	TQ222139
<i>Quercus robur</i>	Pedunculate Oak	LF	TQ222139
<i>Rubus fruticosus agg.</i>	Bramble	LF	TQ222139
<i>Salix caprea</i>	Goat Willow	O	TQ222139
<i>Salix cinerea</i>	Grey Willow	LA	TQ222139
Ferns			
<i>Asplenium scolopendrium</i>	Hart's-tongue	LF	TQ222139
<i>Dryopteris dilatata</i>	Broad Buckler-fern	O	TQ222139
<i>Polystichum setiferum</i>	Soft Shield-fern	LF	TQ222139

Latin name	English name	Abundance	Grid reference
Ferns contd.			
<i>Pteridium aquilinum</i>	Bracken	LF	TQ222139
Bryophytes			TQ222139
<i>Atrichum undulatum</i>		LF	TQ222139
<i>Brachythecium rutabulum</i>		O	TQ222139
<i>Kindbergia praelonga</i>		O	TQ222139

OREHAM COMMON – INVERTEBRATES AND BIRDS

Latin name	English name	Abundance	Grid reference
<i>Anax imperator</i>	Emperor dragonfly	1 adult	TQ 22344 13943
<i>Anax imperator</i>	Emperor dragonfly	1 adult	TQ 22250 13827
<i>Coenagrion puella</i>	Azure Damselfly	8 adult	TQ 22250 13827
<i>Libellula quadrimaculata</i>	Four-spotted Chaser	1 adult	TQ 22250 13827
<i>Chorthippus parallelus</i>	Meadow Grasshopper	10+ adults	TQ 22335 14036
<i>Enallagma cyathigerum</i>	Common Blue damselfly	6 adult	TQ 22134 13945
<i>Pyrrhosoma nymphula</i>	Large Red Damselfly	1 adult	TQ 22273 13826
<i>Aphantopus hyperantus</i>	Ringlet	2 adult	TQ 22294 13923
<i>Aphantopus hyperantus</i>	Ringlet	1 adult	TQ 22335 14036
<i>Aphantopus hyperantus</i>	Ringlet	2 adult	TQ 22145 13972
<i>Maniola jurtina</i>	Meadow Brown Butterfly	3 adult	TQ 22275 13863
<i>Maniola jurtina</i>	Meadow Brown Butterfly	10 adult	TQ22273 13910
<i>Maniola jurtina</i>	Meadow Brown Butterfly	1 adult	TQ 22335 14036
<i>Melanargia galathea</i>	Marbled White	1 adult	TQ 22275 13863
<i>Melanargia galathea</i>	Marbled White	1 adult	TQ22273 13910
<i>Melanargia galathea</i>	Marbled White	1 adult	TQ 22335 14036
<i>Melanargia galathea</i>	Marbled White	7 adult	TQ 22145 13972
<i>Ochlodes sylvanus</i>	Large Skipper	2 adult	TQ 22143 13947
<i>Pyronia tithonus</i>	Gatekeeper	1 adult	TQ 22294 13923
<i>Thymelicus sylvestris</i>	Small Skipper	1 adult	TQ22273 13910
<i>Apis mellifera</i>	Honey Bee	1 adult	TQ 22335 14036
<i>Metriopectera roeselii</i>	Roesel's Bush-cricket	1 adult	TQ 22335 14036
<i>Aegithalos caudatus</i>	Long-tailed Tit	5	TQ 22401 14001
<i>Buteo buteo</i>	Buzzard	1	TQ 22381 13972
<i>Certhia familiaris</i>	Treecreeper	1	TQ 22381 13972
<i>Cyanistes caeruleus</i>	Blue Tit	2	TQ 22250 13827
<i>Cyanistes caeruleus</i>	Blue Tit	3 fledgelings	TQ 22381 13972
<i>Fringilla coelebs</i>	Chaffinch	1	TQ 22389 14068
<i>Luscinia megarhynchos</i>	Nightingale	1	TQ 22116 13950
<i>Phylloscopus collybita</i>	Chiffchaff	2	TQ 22389 14068
<i>Pica pica</i>	Magpie	2	TQ 22134 13945
<i>Streptopelia turtur</i>	Turtle Dove	2	TQ 22301 13905
<i>Turdus merula</i>	Blackbird	1	TQ 22381 13972
<i>Turdus merula</i>	Blackbird	1	TQ 22389 14068