Folkestone and Hythe Birds

Tetrad Guide: TR13 A

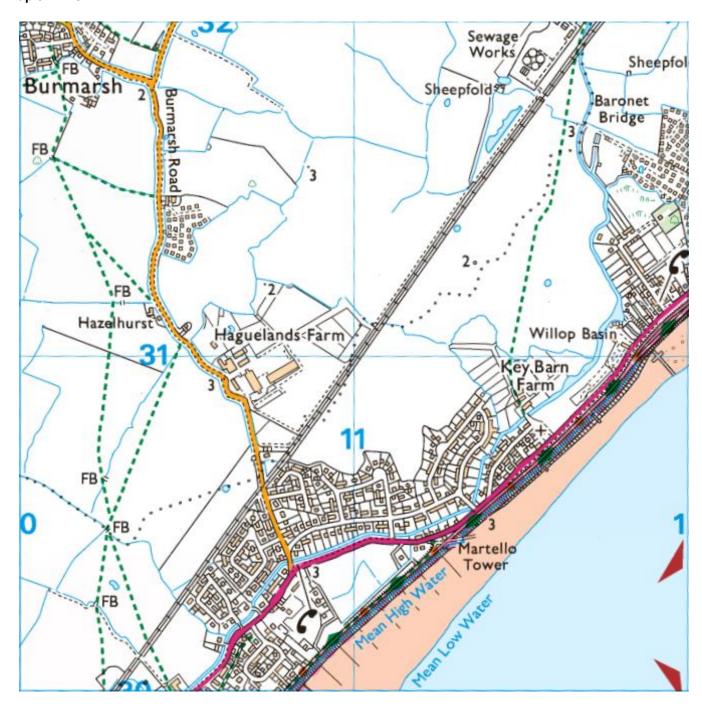
(Willop Basin and Willop Outfall)



Introduction

Situated in the extreme south-western corner of the recording area, the tetrad TR13 A includes the coastline between northern Dymchurch and the New Beach Holiday Park, with a narrow strip of intertidal beach, and a section of the low-lying Romney Marsh stretching inland to the village of Burmarsh and the Willop Sewage Works. It comprises mostly arable and pastoral fields intersected by a series of dykes and sewers, including the Willop Sewer that snakes its way southwards across the tetrad to the Willop Outfall, from whence it can be discharged into the sea, and a section of Hoorne's Sewer that runs parallel to the A259 coast road, before meeting the coast further to the west at Dymchurch.

Map of TR13 A



The Romney Marsh

Rippon (2002) described how the river Rother originally flowed north-east past Old Romney to a tidal estuary at Hythe, with the Roman fortress at Stutfall Castle (situated in TR13 C) being situated beside the tidal inlet. In the Roman period Romney Marsh appears to have been an extensive saltmarsh protected by a shingle barrier that ran from Fairlight (in Sussex) to Dymchurch. There is evidence that the marshes were used by the Romans for salt production and probably seasonal grazing, but there are no indications of reclamation from that time.

In post-Roman times the marshlands were flooded, probably due to a rise in relative sea level seen all around northwest Europe which buried the Romano-British landscape under variable amounts of alluvium. Early medieval charters suggest that reclamation of the marshes was well underway by the 9th century and this may have been made possible by a breach in the shingle barrier at New Romney, which left the eastern section of the marshes relatively flood-free, with there being few substantial freshwater streams flowing off the uplands to the north, and with the coast largely protected by a shingle barrier.

Domesday documents suggest that by the 11th century this part of Romney Marsh, which is considered to be the Romney Marsh "proper" (the area to the north-east of the Yoke Sewer sea wall, which was replaced by the Rhee Wall in the 13th century, that ran roughly north-west to south-east between the present-day settlements of Appledore and New Romney) was extensively occupied, with the village of Burmarsh being one of the earliest known settlements.

The Romney Marsh "proper" is typically a highly irregular landscape created through piecemeal enclosure and drainage, with mainly small, irregularly shaped fields, highly sinuous roads, and a dispersed settlement pattern. Some of the gently curving field boundaries appear to incorporate the lines of naturally meandering creeks. The Romney Marsh is the third largest coastal wetland in Britain.

Habitats and birds

One of the primary areas of interest for birds has traditionally been the Willop Basin, an area that is prone to extensive seasonal flooding. Up until about 2015 it was regularly tilled and used for arable farming that often enabled the formation of floodwaters and muddy margins, which attracted a good numbers and variety of waders, primarily Lapwing, Golden Plover, Dunlin and Redshank, with rarer visitors such as Little Stint (in 2012 and 2013), Avocet (in 2013 and 2015), Black-tailed Godwit (in 2013 and 2014), Little Ringed Plover (in 2014) and Ruff in several years. A Crane was also noted in 2010 and there is a historical record of Spoonbill from 1950.



Lapwings on seasonal flood at the Willop Basin when it was used as arable land

In more recent years it has been left as grassland, which attracts a lower diversity of species but particularly good numbers of Snipe (with a peak of 128 in February 2021) and Jack Snipe (with up to three regularly present), whilst Curlew are regular winterers (though in seemingly declining numbers). A few pairs of Lapwings bred here until 2011 but have not done so since.



Avocets at the Willop Basin



Common Crane at the Willop Basin



Black-tailed Godwits at the Willop Basin



Ruff at the Willop Basin

It can also attract a good variety of wildfowl, particularly geese, with regular records of Greylag Goose, Brent Goose including a Pale-bellied Brent Goose (in 2014), with Barnacle Goose (three in 2018), White-fronted Goose (in several years, with a peak of 51 in December 2020) and Egyptian Goose on four occasions.

The area can still hold good numbers of large gulls and a Caspian Gull was seen in December 2020, whilst Yellow-legged Gulls have been identified on two occasions. Peregrines are frequent visitors, whilst Marsh Harrier, Osprey, Honey Buzzard, Merlin and Hobby have also occurred.

The Willop and Hoorne's Sewers hold breeding Little Grebe and Coot, with Water Rail and good numbers of Teal in the winter (with numbers regularly in excess of and a peak of 105 present in December 2014), whilst a drake Mandarin lingered in early 2022. Redshanks may roost on the sewer banks and Oystercatchers probably also bred here during the 2008-2012 breeding survey.



Willop Basin in recent years, looking north-east across from Key Barn Farm towards the sewage works



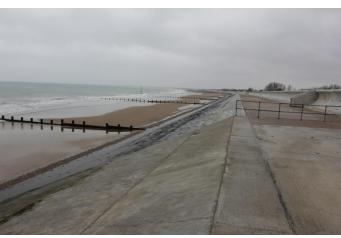
Marsh Harrier at the Willop Basin

Jack Snipe at the Willop Basin

The scrubby area adjacent to the Environment Agency depot holds breeding Cetti's and Sedge Warblers, whilst the depot has hosted a migrant Black Redstart and Grey Wagtails probably nest at the sluice. The horse paddocks opposite at Key Barn Farm have produced Ring Ouzel on passage, whilst a flock of six Bee-eaters were seen at the Sands Estate to the west on the 26th May 2017.



The Willop Sewer looking east from Key Barn Farm



The beach opposite the Martello tower, looking west



Mandarin Duck at the Willop Sewer



Redshanks at the Willop Sewer



Scrub adjacent to the Willop Depot

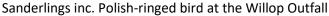


European Bee-eaters at Lower Sands

The coast at Dymchurch has always been vulnerable to incursion by the sea and coastal defence works have been known here since the 13th century (Barne *et al.* 1998). Today, a substantial seawall has been supplemented by a granite rock revetment that can attract wintering Purple Sandpipers and occasionally holds roosting flocks of Turnstone, Sanderling and even Knot at high tide, as well as the occasional Black Redstart and Rock Pipit.

At low tide Sanderling and Oystercatchers often feed on the shore, whilst Turnstone favour the concrete walls of the Willop outfall pipe. The beach may attract Ringed Plovers and, rarely, Grey Plover, whilst the seawall can hold a migrant Wheatear, Black Redstart or Rock Pipit.







Grey Plover at the Willop Outfall



The beach looking east from the Willop Outfall

Offshore the bay regularly holds a flock of Common Scoter which occasionally attracts Velvet Scoter. Other ducks can also been seen, particularly in cold weather, and these have included Scaup, Smew and Goldeneye. On one particularly memorable day (8th December 2012) when a cool north-easterly wind was blowing, there were spectacular counts of wildfowl including 150 Gadwall and 400 Teal (both record day counts for the area), and a drake Goldeneye, 4 Redbreasted Mergansers, 5 Shelduck, 6 Shoveler, 30 Mallard and 255 Wigeon were also logged, as were 14 Avocets.

Great Crested Grebes can also be present offshore in good numbers and Black-throated and Great Northern Divers have been noted, whilst Sooty Shearwater, Arctic Skua, Little Gull, Arctic Tern and Little Tern have also occurred.

The site also produced the largest movement of auks to date when, on the 24th January 2021, around 10,000 passed west and appeared to comprise approximately equal proportions of Guillemots and Razorbills.

The Willop Sewage Works in the extreme north-east of the tetrad (and extending into TR13 B) can attract wintering Chiffchaffs, including birds showing characteristics of the Siberian form *tristis* on two occasions, whilst Firecrest and Yellow-browed Warbler have occurred on passage. Pied Wagtails gather in good numbers in winter and Black Redstart has been recorded, whilst Little Owls are sometimes encountered.

The adjacent sheepfold has a small pond that holds breeding Coot, whilst the field immediately to the west is prone to flooding and has attracted Little Ringed Plover, Green Sandpiper, Great White Egret and Water Pipit, whilst its weedy surrounds provide habitat for Song Thrushes, Stonechat, Linnet, Tree Sparrow, Yellowhammer, Reed Bunting and Corn Bunting.



Smew with Wigeon at the Willop Outfall

Little Ringed Plover by the Willop Sewage Works



Yellow-browed Warbler at the Willop Sewage Works



Water Pipit at the Willop Sewage Works

The other fields to the north of the railway are typically less productive but a range of farmland species may be found, including Red-legged Partridge. In cold weather in February 2021 large numbers of Lapwings and Golden Plovers were present, whilst Bar-tailed Godwit, Dunlin, Merlin, Marsh Harrier and Caspian Gull were also logged.

The small wood at the end of Marine Avenue (near the New Beach Holiday Park) has hosted a rookery in recent years, with up to 75 nests being counted.





Sheep field with sheepfold and small pond

Great White Egret at the Willop Sewage Works

Other oddities have included flyover records of Pink-footed Goose, Bittern, Ring-necked Parakeet, Waxwing (on two occasions, including a flock of 118) and Snow Bunting.

Access and parking

The Willop Basin can be viewed from the seawall near the Willop Outfall (by the Environment Agency's Willop Depot). Parking on the A259 Hythe Road is limited and for access to the seawall it is advisable to park on Marine Avenue (the last right turn before the Willop Basin, if heading from Hythe towards Dymchurch, just after the Neptune Inn).

Alternatively, there is a short stretch of road that runs parallel to the A259 between the Willop Basin and the Martello Tower (the first right turn after passing the Willop Basin, by the bus stop – for access by public transport there is a main bus route that runs along the A259). This second parking area also enables easy access to the public footpath that runs from Key Barn Farm across the Willop Basin to the Willop Sewage Works. The footpath begins behind the Kingdom Hall of Jehovah Witnesses and is accessed via Key Barn Farm though is poorly marked and requires ringing a bell to prompt the landowners to corral their dogs before they open the gate.

The footpath runs through the grassland (wellington boots essential when flooded) and should enable Jack Snipe and numerous Snipe to be flushed and continues to Donkey Street (in TR13 B), which provides an alternative point of access by taking the route in reverse. Disabled access should be possible via the ramp to the seawall but would be likely to prove difficult to the footpath.

The fields to the north of the railway can be viewed from Burmarsh Road or from the network of footpaths that run south from Burmarsh.

Bird species diversity

The mix of coastal and farmland habitats has produced an overall total of 168 species within the tetrad, which ranks as the eighth richest in diversity amongst the 31 local tetrads as the table below demonstrates. The number of breeding and wintering species relate to those recorded in the 2007-2013 BTO/KOS atlas fieldwork.

	Total	Rank/31
Breeding species	52	13 th
Wintering species	92	5 th
Species recorded	169	8 th

A number of typical woodland species are largely absent from Romney Marsh due to the sparsity of trees and there have been no records in this tetrad of Tawny Owl, Jay, Coal Tit, Nuthatch, Treecreeper or Bullfinch.

The full list of species that have been recorded is provided as Appendix 1.

Other Natural History

There is a flourishing population of Brown Hare in the fields within the tetrad which have unfortunately on a couple of recent occasions attracted the attentions of hare-coursers. If this illegal activity is witnessed, it should be reported to the Police as a 999 emergency.

Relatively little moth trapping has been undertaken in the tetrad. On the night of the 16th June 2022 Ian Roberts trapped close to the Willop Basin and a range of wetland and grassland species were noted, including *Brachmia inornatella* (Fen Crest), *Homoeosoma sinuella* (Twin-barred Knot-horn), *Anania perlucidalis* (Fenland Pearl), *Anania crocealis* (Ochreous Pearl), *Ostrinia nubilalis* (European Corn-borer), *Evergestis extimalis* (Marbled Yellow Pearl), *Schoenobius gigantella* (Giant Water-veneer), Dusky Brocade, Obscure Wainscot and Cream-bordered Green Pea. A migrant Hummingbird Hawk-moth was also attracted to light.





Brachmia inornatella at the Willop Basin

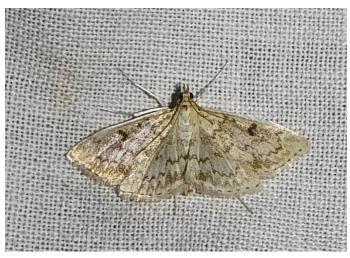
Ostrinia nubilalis at the Willop Basin

Earlier in June 2022 exit holes and a recent exuvia of the Hornet Moth were found at the base of a Black Poplar tree along Burmarsh Road, opposite Haguelands Farm.

The rarest moth to be recorded was the only area occurrence of Eastern Bordered Straw, which was trapped by Tony Thunder at Dymchurch on the night of the 1st June 2006. This was part of an exceptional influx into Britain at this time, involving 19 individuals, which constitute half of the total national records to date (Atropos no date).

Some more regular trapping appears to have been undertaken in 1976 and 1977, when the more notable captures included *Pyrausta cingulata* (Silver-barred Sable), Rosy Wave, Dark Spinach, Tawny-barred Angle, Latticed Heath, Rest Harrow, Large Emerald, Water Ermine, Golden Plusia, the Crescent, Bulrush Wainscot, Twin-spotted Wainscot, Webb's Wainscot, Dingy Shears, Broom Moth and Pearly Underwing.

A list of all species recorded in the tetrad is provided below in Appendix 2.



Anania perlucidalis at the Willop Basin



Evergestis extimalis at the Willop Basin



Cream-bordered Green Pea at the Willop Basin



Hornet Moth exuvia on Black Poplar at Burmarsh Road



Eastern Bordered Straw at Dymchurch

General History

The tetrad contains Martello tower number 23 of 74 which were built (and are numbered sequentially) along the coastline between Folkestone (1) and Seaford, Sussex (74). The Martello Tower, which was built in 1806 to meet the threat of invasion from Napoleonic France, is situated where the A259 Hythe Road leaves the seawall towards Dymchurch.

The slightly tapering, circular tower is about 30 feet high with walls 5.5 feet to 6 feet thick. The brick walls are covered with cement render and are in reasonably good condition. The interior is said to have had a central brick pillar with vaulted arches, a magazine on the ground floor and two rooms as quarters for the garrison above. It is now a grade II listed building and has been converted for use as a private residence.

The railway track which crosses the tetrad is part of the Romney, Hythe & Dymchurch Railway (www.rhdr.org.uk). The village of Burmarsh in the extreme north-west of the tetrad is one of the earliest known settlements on Romney Marsh but the most notable landmarks (All Saints Church and the Shepherd and Crook Inn) are within the tetrad to the north (TR13 B).



Martello tower number 23

References

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Rippon, S. 2002. Romney Marsh: Coastal and Landscape Change through the Ages. OUSA Monograph 56: 84-100.

Acknowledgements

The map image was produced from the Ordnance Survey <u>Get-a-map service</u> and is reproduced with kind permission of <u>Ordnance Survey</u>.

The photographs of Lapwings, Avocets, Crane, Marsh Harrier, Jack Snipe, Mandarin Duck, Redshanks, Sanderlings, Smew, Little Ringed Plover, Yellow-browed Warbler and Water Pipit were taken by Brian Harper (www.brizey.co.uk), the European Bee-eaters by Paul Apps (www.paulappsfineart.com) and all others by Ian Roberts.

I am grateful to Sean Clancy for allowing access to the Eastern Bordered Straw housed in his collection.

Lists of the other fauna and flora which have been recorded in the tetrad were kindly provided by the Kent and Medway Biological Records Centre (<u>www.kmbrc.org.uk</u>).

Appendix 1: Species Lists – Birds: 169 species, excluding category E species

- Recorded in winter survey 2007-2012
- Recorded in breeding survey 2008-2013 Confirmed breeding
- Recorded in breeding survey 2008-2013 Probable breeding
- Recorded in breeding survey 2008-2013 Possible breeding
- Recorded in breeding survey as a non-breeder or recorded outside of survey period
- Rare migrant or vagrant (less than 50 area records)

	TR13 A - Bird List	Breeding	Wintering	Other			TR13 A - Bird List	Breeding	Wintering	Other
	Red-legged Partridge						Black-throated Diver			
	Grey Partridge				7	7	Great Northern Diver			
*	Quail						Fulmar			Ŏ
	Pheasant				7	\	Sooty Shearwater			
	Brent Goose						Gannet			
	Canada Goose						Cormorant			
*	Barnacle Goose				7	7	Spoonbill			
	Greylag Goose				7	7	Bittern			
*	Pink-footed Goose						Grey Heron			
*	Tundra Bean Goose				7	7	Great White Egret			
	White-fronted Goose						Little Egret			
	Mute Swan	•					Osprey			
	Egyptian Goose						Honey Buzzard			
	Shelduck						Sparrowhawk			
	Mandarin Duck						Marsh Harrier			
	Shoveler						Red Kite			
	Gadwall						Buzzard			
	Wigeon						Little Owl	•		
	Mallard						Kingfisher			
	Pintail					<u></u>	Bee-eater			
	Teal						Great Spotted Woodpecker	•		
	Pochard						Green Woodpecker			
	Tufted Duck						Kestrel			
	Scaup						Merlin			
	Eider						Hobby	•		
	Velvet Scoter					\	Peregrine			
	Common Scoter					<u></u>	Ring-necked Parakeet			
	Goldeneye						Magpie			
	Smew						Jackdaw			
	Goosander						Rook			
	Red-breasted Merganser						Carrion Crow			
	Swift						Raven			
	Cuckoo						Waxwing			
	Feral Pigeon	•					Blue Tit			
	Stock Dove	•					Great Tit			
	Woodpigeon						Skylark			
	Turtle Dove						Sand Martin			
	Collared Dove	•					Swallow			
	Water Rail						House Martin	•		
	Moorhen						Cetti's Warbler			
	Coot						Long-tailed Tit			

IK	13 A - Bird List	Breeding	Wintering	Other		TR13 A - Bird List	Breeding	Wintering	Other
Cra	ane				*	Yellow-browed Warbler			
Lit	tle Grebe					Willow Warbler			
Gr	eat Crested Grebe					Chiffchaff			
Oy	rstercatcher					Sedge Warbler			
	ocet					Reed Warbler			
La	pwing					Blackcap			
	olden Plover					Lesser Whitethroat			
Gr	ey Plover					Whitethroat			
	nged Plover					Firecrest			
4	tle Ringed Plover					Goldcrest			
	himbrel					Wren			
	rlew					Starling			
	r-tailed Godwit					Ring Ouzel			
	ack-tailed Godwit					Blackbird			
	rnstone					Fieldfare			
Kn						Redwing			
Ru						Song Thrush			
	nderling					Mistle Thrush			
	ınlin					Robin			
	rple Sandpiper					Black Redstart			
<u> </u>	tle Stint					Stonechat			
	oodcock					Wheatear			
	ck Snipe					House Sparrow			
	ipe					Tree Sparrow			
	•					Dunnock			
	mmon Sandpiper een Sandpiper					Yellow Wagtail			
	dshank								
	tiwake					Grey Wagtail			
						Pied Wagtail			
	ack-headed Gull					Meadow Pipit			
	tle Gull					Water Pipit			
	editerranean Gull					Rock Pipit			
	mmon Gull					Chaffinch			
	eat Black-backed Gull					Greenfinch			
	rring Gull					Linnet			
	spian Gull					Lesser Redpoll			
	llow-legged Gull					Goldfinch	•		
	sser Black-backed Gull					Siskin			
	ndwich Tern					Snow Bunting			
	tle Tern					Corn Bunting	•		
	mmon Tern					Yellowhammer			
	ctic Tern					Reed Bunting			
	eat Skua					Total	52	92	
	ctic Skua					Confirmed breeding	17		
	illemot					Probable breeding	25		
Ra	zorbill					Possible breeding	10		
Re	d-throated Diver					Total species recorded in t	etrad		10
egory	E (escapees)								

Appendix 2: Species Lists – Other Natural History

Information on other natural history has been kindly provided by the Kent and Medway Biological Records Centre (www.kmbrc.org.uk), with particular thanks to Tony Witts. A few additional records from other sources are also included.



Amphibia (Amphibians): 2 species

Common name	Scientific name	Last recorded
Common Frog	Rana temporaria	2012
Salamander	Salamandra salamandra	2012

Reptilia (Reptiles): 3 species

Common name	Scientific name	Last recorded
Grass Snake	Natrix natrix	2005
Slow-worm	Anguis fragilis	2011
Common Lizard	Zootoca vivipara	2008

Mammalia (Mammals): 13 species

Common name	Scientific name	Last recorded
Water Vole	Arvicola amphibious	1997
Brown Rat	Rattus norvegicus	1970
Grey Squirrel	Sciurus carolinensis	2017
Hedgehog	Erinaceus europaeus	2007
Brown Hare	Lepus europaeus	2022
Fox	Vulpes vulpes	2022
Badger	Meles meles	2021
American Mink	Mustela vison	2022
Brown Long-eared Bat	Plecotus auritus	1992
Soprano Pipistrelle	Pipistrellus pygmaeus	2011
Common Seal	Phoca vitulina	2016
Grey Seal	Halichoerus grypus	2020
Common Porpoise	Phocoena phocoena	2016

Arachnida (Spiders): 1 species

Common name	Scientific name	Last recorded
-	Theridion sisyphium	1997

Odonata (Damselflies and Dragonflies): 4 species

Common name	Scientific name	Last recorded
Azure Damselfly	Coenagrion puella	2009
Blue-Tailed Damselfly	Ischnura elegans	2003
Migrant Hawker	Aeshna mixta	2000
Black-tailed Skimmer	Orthetrum cancellatum	2011

Orthoptera (Grasshoppers and Crickets): 1 species

Common name	Scientific name	Last recorded
Common Field Grasshopper	Chorthippus brunneus	2000

Coleoptera (Beetles): 6 species

Common name	Scientific name	Last recorded
-	Agabus bipustulatus	1981
-	Agabus sturmii	1981
-	Ilybius ater	1981
Common Red Soldier Beetle	Rhagonycha fulva	2000
-	Rhantus suturalis	1981
-	Agabus bipustulatus	1981

Diptera (True Flies): 1 species

Common name	Scientific name	Last recorded
Marmalade Hoverfly	Episyrphus balteatus	2000

Lepidoptera (Butterflies): 16 species

Common name	Scientific name	Last recorded
Essex Skipper	Thymelicus lineola	2000
Orange-tip	Anthocharis cardamines	2019
Large White	Pieris brassicae	2020
Small White	Pieris rapae	2012
Clouded Yellow	Colias croceus	2005
Small Heath	Coenonympha pamphilus	2022
Meadow Brown	Maniola jurtina	2000
Gatekeeper	Pyronia tithonus	2000
Marbled White	Melanargia galathea	2000
Red Admiral	Vanessa atalanta	2020
Painted Lady	Cynthia cardui	2022
Peacock	Inachis io	2019
Small Tortoiseshell	Aglais urticae	2022
Comma	Polygonia c-album	1997
Holly Blue	Celastrina argiolus	2021
Common Blue	Polyommatus icarus	2022

Lepidoptera (Moths): 189 species

Common name	Scientific name	Last recorded
Rose Leaf-miner	Stigmella anomalella	2020
Sallow Pigmy	Stigmella salicis	2020
Golden Pigmy	Stigmella aurella	2020
White-triangle Slender	Caloptilia stigmatella	1999
Hawthorn Midget	Phyllonorycter corylifoliella	2020
Horse Chestnut Leaf-miner	Cameraria ohridella	2022
Poplar Bent-wing	Phyllocnistis unipunctella	2020
Diamond-back Moth	Plutella xylostella	2022
Cypress-tip Moth	Argyresthia cupressella	2022
Apple Leaf-miner	Lyonetia clerkella	2020
Fen Crest	Brachmia inornatella	2022
Swan-feather Dwarf	Elachista argentella	1999
Common Cosmet	Mompha epilobiella	2022
White Plume	Pterophorus pentadactyla	1977
Large Fruit-tree Tortrix	Archips podana	1976
Cyclamen Tortrix	Clepsis spectrana	2022
Light Brown Apple-moth	Epiphyas postvittana	2022

Common name	Scientific name	Last recorded
Orange Pine Tortrix	Lozotaeniodes formosana	1977
Common Yellow Conch	Agapeta hamana	2022
Ox-tongue Conch	Cochylis molliculana	2022
Black-headed Conch	Cochylis atricapitana	2022
Marbled Orchard Tortrix	Hedya nubiferana	2022
Plum Tortrix	Hedya pruniana	2022
Common Marble	Celypha lacunana	2022
Bramble Shoot Moth	Notocelia uddmanniana	2022
Hornet Moth	Sesia apiformis	2022
Bee Moth	Aphomia sociella	2022
Thistle Ermine	Myelois circumvoluta	1977
Twin-barred Knot-horn	Homoeosoma sinuella	2022
Silver-barred Sable	Pyrausta cingulata	1977
Fenland Pearl	Anania perlucidalis	2022
Ochreous Pearl	Anania crocealis	2022
Small Magpie	Anania hortulata	1977
European Corn-borer	Ostrinia nubilalis	2022
Mother of Pearl	Pleuroptya ruralis	1977
Marbled Yellow Pearl	Evergestis extimalis	2022
Marsh Grey	Eudonia pallida	2022
Garden Grass-veneer	Chrysoteuchia culmella	2022
Hook-streak Grass-veneer	Crambus lathoniellus	2022
Giant Water-veneer	Schoenobius gigantella	2022
Orange Swift	Triodia sylvina	1976
Common Swift	Korscheltellus lupulina	2022
Oak Hook-tip	Watsonalla binaria	1976
Chinese Character	Cilix glaucata	1976
Buff Arches	Habrosyne pyritoides	1977
The Lackey	Malacosoma neustria	1977
The Drinker	Euthrix potatoria	1977
Eyed Hawk-moth	Smerinthus ocellata	1977
Poplar Hawk-moth	Laothoe populi	2022
Privet Hawk-moth	Sphinx ligustri	1977
Hummingbird Hawk-moth	Macroglossum stellatarum	2022
Elephant Hawk-moth	Deilephila elpenor	2022
Small Elephant Hawk-moth	Deilephila porcellus	2022
Satin Wave	Idaea subsericeata	2022
Riband Wave	Idaea aversata	1977
Mullein Wave	Scopula marginepunctata	1977
Small Blood-vein	Scopula imitaria	1977
Rosy Wave	Scopula imitaria	1977
Blood-Vein	Timandra comae	1977
Yellow Shell	Camptogramma bilineata	2022
Common Carpet	Epirrhoe alternata	2022
Dark Spinach	Pelurga comitata	1977
July Highflyer	Hydriomena furcata	1977
· · · · · · · · · · · · · · · · · · ·		1977
Blue-bordered Carpet	Plemyria rubiginata	
Barred Yellow	Cidaria fulvata	2022
Purple Bar	Cosmorhoe ocellata	1976
Barred Straw	Gandaritis pyraliata	1977
Green Pug	Pasiphila rectangulata	2022
Lime-speck Pug	Eupithecia centaureata	2022
Common Pug	Eupithecia vulgata	2022
The Magpie	Abraxas grossulariata	1977

Common name	Scientific name	Last recorded
Clouded Border	Lomaspilis marginata	2022
Tawny-barred Angle	Macaria liturata	1977
Latticed Heath	Chiasmia clathrata	1976
Brimstone Moth	Opisthograptis luteolata	2022
Scalloped Oak	Crocallis elinguaria	1977
Swallow-tailed Moth	Ourapteryx sambucaria	1977
Peppered Moth	Biston betularia	2022
Willow Beauty	Peribatodes rhomboidaria	2022
Light Emerald	Campaea margaritaria	2022
Rest Harrow	Aplasta ononaria	1976
Large Emerald	Geometra papilionaria	1977
Small Emerald	Hemistola chrysoprasaria	1977
Common Emerald	Hemithea aestivaria	1977
Puss Moth	Cerura vinula	1977
Sallow Kitten	Furcula furcula	1977
Pebble Prominent	Notodonta ziczac	1976
Lesser Swallow Prominent	Pheosia gnoma	1976
Pale Prominent	Pterostoma palpina	2022
Buff-tip	Phalera bucephala	1977
The Herald	Scoliopteryx libatrix	1976
Straw Dot	Rivula sericealis	2022
The Snout	Hypena proboscidalis	2022
White Satin Moth	Leucoma salicis	1977
Brown-tail	Euproctis chrysorrhoea	1977
Yellow-tail	Euproctis similis	1977
Buff Ermine	Spilosoma lutea	2022
White Ermine	Spilosoma lubricipeda	2022
Water Ermine	Spilosoma urticae	1977
Ruby Tiger	Phragmatobia fuliginosa	1976
Garden Tiger	Arctia caja	1977
The Cinnabar	Tyria jacobaeae	2000
Red Underwing	Catocala nupta	1976
Burnet Companion	Euclidia glyphica	2022
The Spectacle	Abrostola tripartita	1977
Dark Spectacle	Abrostola triplasia	2022
Burnished Brass	Diachrysia chrysitis	2022
Golden Plusia	Polychrysia moneta	1977
Silver Y	Autographa gamma	2000
Plain Golden Y	Autographa jota	1977
Dark/Grey Dagger	Acronicta tridens/psi agg.	2022
The Sycamore	Acronicta trideris, psi dyg. Acronicta aceris	1977
The Miller	Acronicta deeris Acronicta leporina	1976
Poplar Grey	Subacronicta megacephala	2022
The Shark	Cucullia umbratica	1977
Mouse Moth	Amphipyra tragopoginis	1977
Bordered Sallow	Pyrrhia umbra	1976
Eastern Bordered Straw	Heliothis nubigera	
		2006
Marbled Green	Nyctobrya muralis	1977
Mottled Rustic	Caradrina morpheus	1977
Pale Mottled Willow	Caradrina clavipalpis	1977
The Uncertain	Hoplodrina octogenaria	2022
The Rustic	Hoplodrina blanda	1977
Bird's Wing	Dypterygia scabriuscula	1977
Straw Underwing	Thalpophila matura	1977

Common name	Scientific name	Last recorded
Angle Shades	Phlogophora meticulosa	2022
The Crescent	Helotropha leucostigma	1976
Dusky Sallow	Eremobia ochroleuca	1977
Frosted Orange	Gortyna flavago	1976
Rosy Rustic	Hydraecia micacea	1976
Flounced Rustic	Luperina testacea	1976
Large Wainscot	Rhizedra lutosa	1976
Bulrush Wainscot	Nonagria typhae	1976
Fen Wainscot	Arenostola phragmitidis	1977
Twin-spotted Wainscot	Lenisa geminipuncta	1976
Small Rufous	Coenobia rufa	1976
Small Wainscot	Denticucullus pygmina	1977
Small Dotted Buff	Photedes minima	1977
Webb's Wainscot	Globia sparganii	1976
Dusky Brocade	Apamea remissa	2022
Dark Arches	Apamea monoglypha	2022
Light Arches	Apamea lithoxylaea	1977
Rosy Minor	Litoligia literosa	1977
Cloaked Minor	Mesoligia furuncula	1977
Marbled Minor agg.	Oligia agg.	2022
Middle-barred Minor	Oligia fasciuncula	2022
The Brick	Agrochola circellaris	1976
Dingy Shears	Apterogenum ypsillon	1977
The Nutmeg	Anarta trifolii	1977
Light Brocade	Lacanobia w-latinum	1977
Bright-line Brown-eye	Lacanobia oleracea	2022
Dot Moth	Melanchra persicariae	1977
Broom Moth	Ceramica pisi	1977
The Shears	Hada plebeja	1977
Cabbage Moth	Mamestra brassicae	1977
Broad-barred White	Hecatera bicolorata	1977
The Lychnis	Hadena bicruris	1977
Varied Coronet	Hadena compta	1977
Tawny Shears	Hadena perplexa	1977
Common Wainscot	Mythimna pallens	1977
Smoky Wainscot	Mythimna impura	2022
Southern Wainscot	Mythimna straminea	1977
White-point	Mythimna albipuncta	2022
The Clay	Mythimna ferrago	2022
Shoulder-striped Wainscot	Leucania comma	1977
Obscure Wainscot	Leucania obsoleta	2022
Pearly Underwing	Peridroma saucia	1976
White-line Dart	Euxoa tritici	1976
Garden Dart		1977
	Euxoa nigricans	
Heart and Dart	Agrotis exclamationis	2022
Turnip Moth	Agrotis segetum	1977
Heart and Club	Agrotis clavis	1977
Shuttle-shaped Dart	Agrotis puta	2022
Dark Sword-grass	Agrotis ipsilon	1977
The Flame	Axylia putris	2022
Flame Shoulder	Ochropleura plecta	2022
Small Square-spot	Diarsia rubi	2022
Large Yellow Underwing	Noctua pronuba	2022
Broad-bordered Yellow Underwing	Noctua fimbriata	1977

Common name	Scientific name	Last recorded
Lesser Yellow Underwing	Noctua comes	1977
Least Yellow Underwing	Noctua interjecta	1977
Lesser Brbordered Y. Underwing	Noctua janthe	1977
Square-spot Rustic	Xestia xanthographa	1977
Six-striped Rustic	Xestia sexstrigata	1976
Setaceous Hebrew Character	Xestia c-nigrum	2022
Double Square-spot	Xestia triangulum	1977
The Gothic	Naenia typica	1977
Short-cloaked Moth	Nola cucullatella	1977
Cream-bordered Green Pea	Earias clorana	2022

Hymenoptera (Wasps, Bees and Ants): 6 species

Common name	Scientific name	Last recorded
Large Red-tailed Bumble Bee	Bombus lapidarius	2000
Common Carder Bee	Bombus pascuorum	2000
Early Bumble Bee	Bombus pratorum	1996
Buff-tailed Bumble Bee	Bombus terrestris	1996
-	Lasioglossum malachurus	2000
Small Black Ant	Lasius niger	2000

Molluscs: 2 species

Common name	Scientific name	Last recorded
Striped Snail	Cernuella virgata	1991
Common Garden Snail	Helix aspersa	2000

Lichens: 19 species

Scientific name	Last recorded
Caloplaca citrina	2000
Caloplaca flavescens	2000
Caloplaca holocarpa	2000
Candelariella medians	2000
Lecanora crenulata	2000
Lecanora dispersa	2000
Lecidella stigmatea	2000
Phaeophyscia orbicularis	2000
Physcia caesia	2000
Tephromela atra	2000
Verrucaria macrostoma	2000
Verrucaria nigrescens	2000
Verrucaria viridula	2000
Xanthoria parietina	2000
	Caloplaca citrina Caloplaca flavescens Caloplaca holocarpa Candelariella medians Lecanora crenulata Lecanora dispersa Lecidella stigmatea Phaeophyscia orbicularis Physcia caesia Tephromela atra Verrucaria macrostoma Verrucaria nigrescens Verrucaria viridula

Mosses: 5 species

Scientific name	Last recorded
Grimmia pulvinata	2000
Homalothecium lutescens	2000
Rhytidiadelphus squarrosus	2000
Tortula intermedia	2000
Tortula muralis	2000
	Grimmia pulvinata Homalothecium lutescens Rhytidiadelphus squarrosus Tortula intermedia

Pteridophyta (Ferns and Horsetails): 2 species

Common name	Scientific name	Last recorded
Field Horsetail	Equisetum arvense	1991
Marsh Horsetail	Equisetum palustre	2012

Flowering Plants: 188 species

Common name	Scientific name	Last recorded
Sycamore	Acer pseudoplatanus	1991
Yarrow	Achillea millefolium	2000
Ground-Elder	Aegopodium podagraria	1991
Black Bent	Agrostis gigantea	2000
Creeping Bent	Agrostis stolonifera	2012
Garlic Mustard	Alliaria petiolata	1991
Marsh Foxtail	Alopecurus geniculatus	2004
Meadow Foxtail	Alopecurus pratensis	2004
Marsh-Mallow	Althaea officinalis	1991
Scarlet Pimpernel	Anagallis arvensis	2004
Barren Brome	Anisantha sterilis	1991
Cow Parsley	Anthriscus sylvestris	1991
Wild Celery	Apium graveolens	2000
False Oat-Grass	Arrhenatherum elatius	2000
Mugwort	Artemisia vulgaris	2000
Lords-And-Ladies	Arum maculatum	1991
Asparagus	Asparagus officinalis	1991
Spear-Leaved Orache	Atriplex prostrata	1991
Wild Oat	Avena fatua	1991
Black Horehound	Ballota nigra	2000
Daisy	Bellis perennis	2000
Sea Beet	Beta vulgaris	2000
Sea Club-Rush	Bolboschoenus maritimus	2000
Oil-Seed Rape	Brassica napus	1991
Soft-Brome	Bromus hordeaceus	2004
Hedge Bindweed	Calystegia sepium	1991
Large Bindweed	Calystegia silvatica	2000
Shepherd's-Purse	Capsella bursa-pastoris	1991
Glaucous Sedge	Carex flacca	2000
Hairy Sedge	Carex hirta	2000
Sea Fern-Grass	Catapodium marinum	2000
Common Knapweed	Centaurea nigra	2004
Red Valerian	Centranthus ruber	2004
Common Mouse-Ear	Cerastium fontanum	1991
Fat-Hen	Chenopodium album	1991
Red Goosefoot	Chenopodium rubrum	1991
Creeping Thistle	Cirsium arvense	2000
Spear Thistle	Cirsium vulgare	2000
Danish Scurvygrass	Cochlearia danica	1991
Field Bindweed	Convolvulus arvensis	2000
Swine-Cress	Coronopus squamatus	1991
Hawthorn	Crataegus monogyna	2000
Smooth Hawk's-Beard	Crepis capillaris	2000
Ivy-Leaved Toadflax	Cymbalaria muralis	1991
Crested Dog's-tail	Cynosurus cristatus	2012
Cock's-foot	Dactylis glomerata	2012
COCK S-1001	Ductylis giomerata	2012

Common name	Scientific name	Last recorded
Wild Carrot	Daucus carota	2000
Wild Teasel	Dipsacus fullonum	2000
Viper's Bugloss	Echium vulgare	2000
Sea Couch	Elytrigia atherica	1991
Common Couch	Elytrigia repens	2000
American Willowherb	Epilobium ciliatum	2004
Great Willowherb	Epilobium hirsutum	1991
Common Stork's-Bill	Erodium cicutarium	2000
Petty Spurge	Euphorbia peplus	1991
Tall Fescue	Festuca arundinacea	1991
Sheep's Fescue agg.	Festuca ovina agg.	2000
Red Fescue	Festuca rubra agg.	2000
Ash	Fraxinus excelsior	1991
Cleavers	Galium aparine	1991
Hedge Bedstraw	Galium mollugo	2000
Marsh-bedstraw	Galium palustre	2012
Cut-Leaved Crane's-Bill	Geranium dissectum	2000
Dove's-Foot Crane's-Bill	Geranium molle	2000
Floating Sweet-Grass	Glyceria fluitans	2004
Reed Sweet-Grass	Glyceria maxima	1991
lvy	Hedera helix	1991
Hogweed	Heracleum sphondylium	1991
Hoary Mustard	Hirschfeldia incana	2005
Yorkshire-fog	Holcus lanatus	2012
Wall Barley	Hordeum murinum	1991
Meadow Barley	Hordeum secalinum	2012
Spanish Bluebell	Hyacinthoides hispanica	1991
Perforate St. John's-wort	Hypericum perforatum	1991
Stinking Iris	Iris foetidissima	1991
Yellow Iris	Iris pseudacorus	1991
Rush	Juncus	2012
Saltmarsh Rush	Juncus gerardii	2000
Hard Rush	Juncus inflexus	1991
Prickly Lettuce	Lactuca serriola	2000
White Dead-nettle	Lamium album	1991
Spotted Dead-nettle	Lamium maculatum	1991
Red Dead-nettle	Lamium purpureum	1991
Nipplewort	Lapsana communis	1991
Broad-Leaved Everlasting-pea	Lathyrus latifolius	2000
Grass Vetchling	Lathyrus nissolia	2000
Meadow Vetchling	Lathyrus pratensis	2004
Common Duckweed	Lemna minor	1991
lvy-Leaved Duckweed	Lemna trisulca	1991
Autumnal Hawkbit	Leontodon autumnalis	2000
Autumnai Hawkbit	Leontodon autumnalis	2000
Hoary Cress	Lepidium draba	2000
Oxeye Daisy	Leucanthemum vulgare	2004
Garden Privet	Ligustrum ovalifolium	1991
Wild Privet	Ligustrum vulgare	1991
Perennial Rye-grass	Lolium perenne	2012
Common Bird's-Foot-Trefoil	Lotus corniculatus	2000
Apple	Malus domestica	1991
Dwarf Mallow	Malva neglecta	1991
Common Mallow	Malva sylvestris	2000

Common name	Scientific name	Last recorded
Pineapple Weed	Matricaria discoidea	1991
Scented Mayweed	Matricaria recutita	1991
Spotted Medick	Medicago arabica	2000
Black Medick	Medicago lupulina	2004
Annual Mercury	Mercurialis annua	1991
Garden Grape-Hyacinth	Muscari armeniacum	1991
Field Forget-Me-Not	Myosotis arvensis	2004
Hemlock Water-Dropwort	Oenanthe crocata	1991
Bee Orchid	Ophrys apifera	2021
Common Poppy	Papaver rhoeas	2004
Hard Grass	Parapholis strigosa	1991
Wild Parsnip	Pastinaca sativa	2000
Winter Heliotrope	Petasites fragrans	1991
Smaller Cat's-Tail	Phleum bertolonii	1991
Common Reed	Phragmites australis	2000
Bristly Oxtongue	Picris echioides	2000
Buck's-Horn Plantain	Plantago coronopus	2000
Ribwort Plantain	Plantago lanceolata	2000
Greater Plantain	Plantago major	2000
Annual Meadow-Grass	Poa annua	2000
Smooth Meadow-Grass	Poa pratensis	2004
Rough Meadow-grass	Poa trivialis	2012
Equal-Leaved Knotgrass	Polygonum arenastrum	1991
Hybrid Black Poplar	Populus x canadensis	2004
Silverweed	Potentilla anserina	2000
Creeping Cinquefoil	Potentilla reptans	2000
Blackthorn	Prunus spinosa	1991
Common Fleabane	Pulicaria dysenterica	1991
Common Water-Crowfoot	Ranunculus aquatilis	1991
Bulbous Buttercup	Ranunculus bulbosus	2004
Lesser Celandine	Ranunculus ficaria	1991
Creeping Buttercup	Ranunculus repens	1991
Dog Rose	Rosa canina	2004
Short-Styled Field-Rose	Rosa stylosa	1991
Bramble	Rubus armeniacus	1991
Dewberry	Rubus caesius	2000
Bramble	Rubus cuesius Rubus ulmifolius	1991
Clustered Dock	Rumex conglomeratus	2000
Curled Dock	Rumex crispus	2000
Broad-Leaved Dock	Rumex obtusifolius	2000
Wood Dock	Rumex sanguineus	1991
Dock	Rumex x pratensis	1991
Goat Willow	Salix caprea	1991
Crack Willow	Salix taprea Salix fragilis	2000
	Salix yragilis Salix viminalis	
Osier		1991
Hybrid Crack-Willow	Salix x rubens	1991
Elder White Stephene	Sambucus nigra	1991
White Stonecrop	Sedum album	2000
Hoary Ragwort	Senecio erucifolius	2000
Common Ragwort	Senecio jacobaea	2000
Groundsel	Senecio vulgaris	2000
Charlock	Sinapis arvensis	2004
Hedge Mustard	Sisymbrium officinale	1991
Alexanders	Smyrnium olusatrum	1991

Common name	Scientific name	Last recorded
Bittersweet	Solanum dulcamara	1991
Black Nightshade	Solanum nigrum	1991
Perennial Sow-Thistle	Sonchus arvensis	1991
Prickly Sow-Thistle	Sonchus asper	1991
Smooth Sow-Thistle	Sonchus oleraceus	1991
Lesser Sea-Spurrey	Spergularia marina	1991
Autumn Lady's-Tresses	Spiranthes spiralis	2004
Common Chickweed	Stellaria media	1991
Lesser Chickweed	Stellaria pallida	1991
Russian Comfrey	Symphytum x uplandicum	1991
Tamarisk	Tamarix gallica	1991
Feverfew	Tanacetum parthenium	1991
Dandelion	Taraxacum officinale agg.	1991
Upright Hedge-Parsley	Torilis japonica	1991
Goat's-Beard	Tragopogon pratensis	1991
Lesser Trefoil	Trifolium dubium	2004
Slender Trefoil	Trifolium micranthum	2004
Red Clover	Trifolium pratense	1991
White Clover	Trifolium repens	2000
Rough Clover	Trifolium scabrum	2000
Scentless Mayweed	Tripleurospermum inodorum	2000
Yellow Oat-grass	Trisetum flavescens	2005
Colt's-Foot	Tussilago farfara	1991
Bulrush	Typha latifolia	1991
Common Nettle	Urtica dioica	2000
Keeled-fruited Cornsalad	Valerianella carinata	1991
Great Mullein	Verbascum thapsus	1991
Wall Speedwell	Veronica arvensis	1991
Slender Speedwell	Veronica filiformis	1991
Ivy-Leaved Speedwell agg.	Veronica hederifolia	1991
Common Field-Speedwell	Veronica persica	2000
Common Vetch	Vicia sativa	2000
Vetch	Vicia sativa	2004
Greater Periwinkle	Vinca major	2004
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