

Folkestone and Hythe Birds

Tetrad Guide: TR13 G

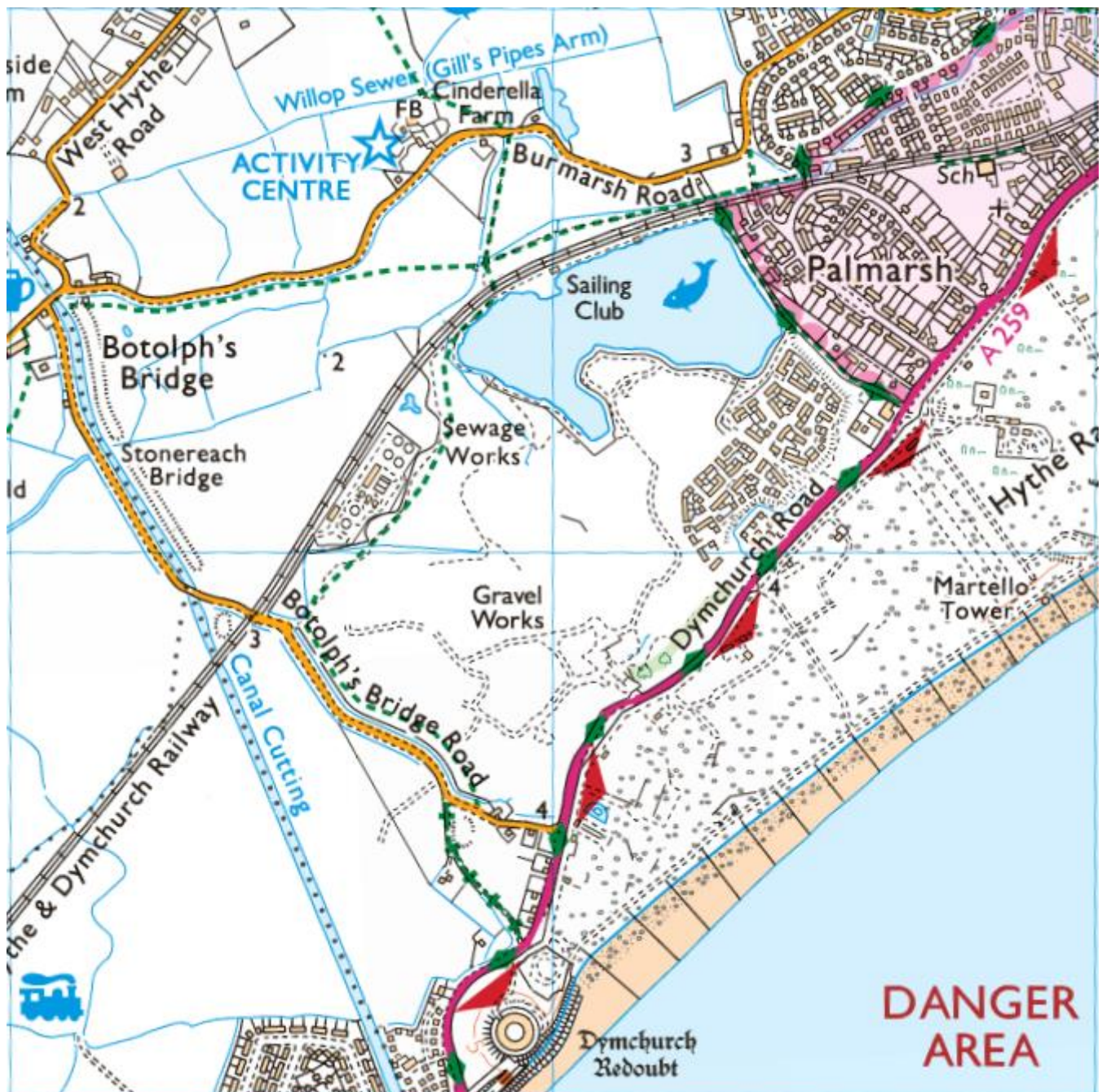
(Botolph's Bridge area, Dymchurch Redoubt, Hythe Ranges West and Nickolls Quarry)



Introduction

The tetrad TR13 G contains the Dymchurch Redoubt, a section of Hythe Ranges and its coastline, the Nickolls Quarry (Palmarsh Gravel Pit) site, the canal cutting running from just north of Botolph's Bridge almost to the sluice and the Gill's Pipes Arm section of the Willop Sewer, and the farmland of the surrounding Romney Marsh. Sadly, a major housing development is currently underway at the Nickolls Quarry site and much of the best habitat is now being disturbed or has already been lost.

Map of TR13 G



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 north-west 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.

Hythe Ranges

Firth (1984) described how it is believed that in about 600 B.C. with a falling sea level, a bay bar of shingle began to grow outwards from the promontory at Cliff End (at Pett Level, in East Sussex), extending north-eastwards in the direction of Hythe and parallel to the prevailing south-west winds and waves. The source of the shingle for the original bar across Romney Bay is chiefly the flint contained in the chalk cliffs further to the west in Sussex, and to a lesser extent the sandstones of the Hastings series, with possibly also the older sandstones and limestones of the Dorset and south Devon coasts.

The trend of the original bar may be traced clearly today by the direction of the ancient shingle beach remnants extending from the present coastline near the Midrips and Lydd beaches, through the towns of Lydd and New Romney to Hythe Ranges. The seaward (south-western) parts of these beaches have long since been eroded or re-orientated. The shingle deposits cover an area of over 8,000 acres and extend to depths of over 50 ft in parts. They thus constitute easily the largest shingle agglomeration in Britain.

The remnants of shingle beach at Hythe Ranges represent the eastern extremity of the original bar across Romney Bay. Where the beaches have not been disturbed by military training, the usual fan-shaped pattern of laterals is discernible, and the older alluvium-filled hollows support mature vegetation. It is highly probable that the alluvium represents what was once the south side of an arm of the sea extending towards West Hythe. There has been some seaward accretion in the past but since the 13th Century and the construction of Dymchurch Wall, erosion has kept pace roughly with accretion.

Habitats and birds

The Nickolls Quarry (Palmarsh Gravel Pit) site has been watched since the late 1940s, though early coverage was patchy, particularly in the 1960s and 1970s. As a working quarry the site has undergone significant changes during this time, expanding from two small pits to a much larger area of open water, whilst during 2001 to 2004 a series of shallow pools were created which proved particularly attractive to waders. In recent years much of the lake has been infilled and a significant proportion of the surrounding habitat has been lost due to an ongoing major housing development.



Nickolls Quarry in 1952. Looking approximately northwards across the “old pit” towards the Hythe Roughs



Nickolls Quarry in 1998. Looking south-west across the site towards Dungeness



The main lake in 2020. Looking west from the eastern footpath

Despite its reduction, the lake continued to be largest area of open water in the local area and so remains one of the best areas for wildfowl, particularly during cold weather, for example in December 2010 when there were peak counts of 170 Wigeon, 107 Coot, 104 Pochard, 100 Teal, 53 Tufted Duck, 34 Gadwall, 18 Mute Swan, 12 Pintail, 10 Bewick's Swan, 8 Shoveler, singles of Goldeneye and Goosander, and 300 White-fronted Geese flew over.

In hard weather as recently as February 2021, counts of 101 Wigeon, 74 Teal, 9 Gadwall, 7 Shoveler, 2 Pintail and singles of Egyptian Goose and Smew were logged. Other occurrences have included Whooper Swan, Tundra Bean Goose, Pink-footed Goose, Snow Goose, Barnacle Goose, Garganey, Scaup and Ruddy Duck.

A single pair of Canada Geese continue to breed and Greylag Geese bred in 2014. Cuckoos are present in summer and the lake can attract large numbers of Swifts and hirundines on passage. Great Crested Grebes have bred in recent years, with Red-necked, Black-necked and Slavonian Grebes having been recorded on passage or during cold weather.

A pair of Oystercatchers breed on the small island in the lake but the margins are too steep typically to hold more than a few Common Sandpipers on passage.

The marshy areas near the sewage works appeal to good numbers of Snipe in winter, usually joined by a few Jack Snipe and sometimes Woodcock. Seasonal flooding can also attract Green Sandpiper and Whimbrel. Little Ringed Plovers bred between at least 1994 and 2006 (and also in some years between 2018 and 2022 when construction works created some temporary suitable habitat), and when shallower areas were present Avocet, Little Stint, Temminck's Stint, Curlew Sandpiper, Ruff, Black-tailed Godwit, Spotted Redshank, Greenshank, Wood Sandpiper and even Black-winged Stilt (twice) were recorded alongside the more regular species.



The “shingle shallows” at Nickolls Quarry. An attractive area for waders in 2001 to 2004 before it was backfilled



Temporary pool created during construction works in 2020

The lake often holds a pre-roost of gulls, particularly during cold weather, and Iceland, Glaucous, Caspian and Yellow-legged have been noted. A pair of Common Terns formerly bred on the island until 1997, with Arctic, Black and Little having been recorded on passage. Three species of diver have occurred.



An accumulation of wildfowl at Nickolls Quarry during hard weather, looking east from near the sailing club



Reed-bed at Nickolls Quarry in 2016

Little Egrets are now seen regularly and Great White Egret, Night Heron, Squacco Heron and Purple Heron have recently been added to the list, with Bitterns recorded in two years and five records of Spoonbill. Marsh Harriers were occurring with increased frequency, with roosting noted for the first time in early 2018, whilst breeding possibly occurred in 2020, but the reedbed area has since been cleared. Hobby remain regular on passage and in summer, as do Peregrine and occasionally Merlin in winter. Scarcer visitors have included Honey Buzzard, Red Kite, Hen Harrier, whilst Montagu's Harrier, Osprey and even Red-footed Falcon, whilst a Rough-legged Buzzard regularly hunted over the site in November to December 2011. Barn Owl, Short-eared Owl and Long-eared Owl have also been recorded.

The lake is surrounded by reeds and scrub which support breeding Cetti's, Reed and Sedge Warblers, and Reed Bunting, with Water Rail on passage and in winter, and Bearded Tit was occurring with increasing regularity until the reed-bed began to be cleared.



Wigeon at Nickolls Quarry



Red-throated Diver at Nickolls Quarry



Black-necked Grebe at Nickolls Quarry



Greylag Geese at Nickolls Quarry



Purple Heron at Nickolls Quarry



Spoonbill at Nickolls Quarry

In the 1990s a reed-bed in the works area was used as a roosting site for Pied and Yellow Wagtails, with peak counts of 281 of the former and 100 of the latter.



Night Heron at Nickolls Quarry



Bearded Tit at Nickolls Quarry



Little Ringed Plover at Nickolls Quarry



Long-eared Owl at Nickolls Quarry



Cuckoo at Nickolls Quarry



Sedge Warbler at Nickolls Quarry

The surrounding bushes, particularly those bordering Botolph's Bridge Road, are worth checking for migrant warblers, crests and flycatchers, and Yellow-browed Warbler has occurred. Wheatear, Whinchat and Redstart can also appear on migration and Stonechats overwinter.



Sand Martin and Swallows at Nickolls Quarry



Bufflehead at Nickolls Quarry



Rough-legged Buzzard at Nickolls Quarry

More unusual occurrences have included Quail, Little Auk, Bee-eater, Lesser Spotted Woodpecker, Hooded Crow, Wood Lark, Marsh Warbler, Waxwing, Bluethroat, Twite and Hawfinch. A list of all 215 category A and C species recorded at the site is provided at the end of this guide.

There are also two category D species on the site list – Bufflehead Duck and Great White Pelican (refer to the species guides on the website for further details).

Further history and description of the site, plus a full systematic list, tables and analysis is provided in Roger Norman's excellent account of [The Birds of Palmarsh Quarry](#).

The tetrad includes a section of the canal cutting, from just north of Botolph's Bridge pub almost as far as the sluice. The cutting remains largely ice-free during cold weather and can hold a good concentration of wildfowl. Regular species include Mallard, Gadwall and Teal, with Wigeon, Pochard, Goosander and even Smew during cold weather. Little Grebes are also frequently seen and Little Egrets are now regular, whilst Bittern, Great White Egret and Night Heron have also been recorded. When the water levels are low muddy fringes are exposed which can attract Redshank, Dunlin, Common and Green Sandpipers in season and Wood Sandpiper in May 2008. There are sections of scrub and *Phragmites* along the cutting which support breeding Reed Warbler and Cetti's Warbler, and Kingfishers have bred in the banks.

The adjacent farmland regularly supports a wintering flock of Mute Swans and has attracted Tundra Bean, Pink-footed and Pale-bellied Brent Geese and may be hunted over by Marsh Harrier, Hen Harrier, Peregrine, Barn Owl and Short-eared Owl, whilst it even received a brief visit from a White-tailed Eagle in February 2012. Skylarks can be present in good numbers and these are joined in summer by Yellow Wagtails, but Turtle Dove has now disappeared. Tree Sparrow and Corn Bunting may still be found, typically in autumn or winter, when Redwings and Fieldfares may be numerous. Wheatear and sometimes Whinchat occur on passage.

The field at the southern end, between Botolph's Bridge Road and the canal cutting, is prone to flooding when it attracts Snipe and occasionally Jack Snipe or Woodcock in winter and passage waders such as Whimbrel in spring, whilst in June 2012 a Marsh Warbler held territory here.



Canal cutting, looking north towards the rail and road bridges



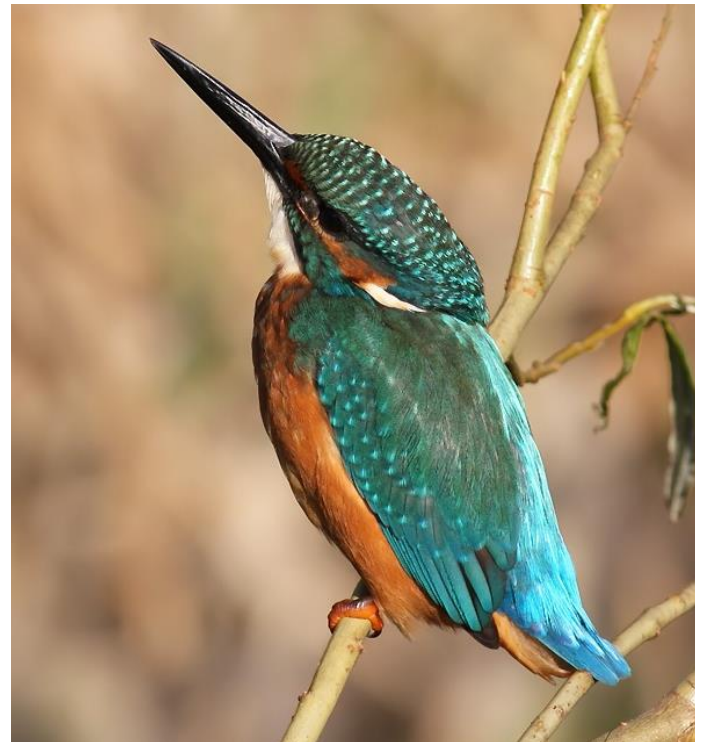
Shoveler at Botolph's Bridge



Turtle Dove at Botolph's Bridge



Dunlin at Botolph's Bridge



Kingfisher at Botolph's Bridge

The tetrad also includes the Dymchurch Redoubt and a significant part of Hythe Ranges. There was a Little Tern colony known at the ranges from at least 1909 and apparently moved progressively westward as range activity increased during the twentieth century. It was the terns which attracted Roger Norman's attention in the late 1940s and he watched the site regularly during the 1950s and 1960s, and again from 1990. In the early days Redshank and Lapwing bred, whilst the Little Terns survived until 1968. Ringed Plover and Wheatear also bred and still do so in some years. Up to ten Nightingales were holding territories in 1958 and still as many as six were present in the 1990s but they are only infrequently recorded today.

The Redoubt is a convenient place from which to view the Ranges foreshore (when the Ranges cannot be accessed) and the sea. Sanderling, Turnstone, Oystercatcher and Ringed Plover are regularly recorded, with Purple Sandpiper on occasion, and sometimes passage waders. Terns may roost here at low tide in season – primarily Common and Sandwich, but Black has occurred. Gulls and Cormorants also frequently gather on the shore. Offshore Eider, scoters and, mainly in hard weather, dabbling ducks may shelter in the bay, with a count of 1,550 Wigeon off of the Ranges on the 25th December 2010.



Green Sandpiper at Botolph's Bridge



Fieldfare at Botolph's Bridge



Barn Owl at Botolph's Bridge

Wheatear, Whinchat, Black Redstart and the commoner warblers regularly occur on passage and Grasshopper Warbler, Ring Ouzel, Pied Flycatcher and Tree Pipit have been noted, whilst rarer species have included Stone Curlew, Hooded Crow, Woodlark, Shore Lark and Snow Bunting, with Tundra Bean Goose, Spoonbill and Montagu's Harrier flying over.

A list of all 173 species recorded at the site is provided at the end of this guide, though this also includes those species recorded at the parts of the Ranges which lie within TR13 L and TR13 M.

Further history and description of the site, plus a full systematic list, is provided in Roger Norman's [Some observations of birds on Hythe Ranges since 1950](#).

The gardens in the Palmarsh village have attracted Waxwing and, in autumn 2021, an adult Rose-coloured Starling.



Hythe Ranges, looking east from the Dymchurch Redoubt



Turnstones at the Dymchurch Redoubt



Rose-coloured Starling at Palmarsh

Access and parking

The easiest way to access the Nickolls Quarry site is from Palmbeach Avenue in Palmarsh village. There is free parking at the northern end of Palmbeach Avenue, near the railway, and from here a footpath leads through the park westwards to the north-eastern corner of the lake. The footpath continues across the field and crosses the railway near the sailing club, before continuing along the southern side of the sewage works, and then follows along Botolph's Bridge Road to Rock Cottage, before leading to the Dymchurch Redoubt. A footpath also runs southwards from the north-eastern corner of the lake providing further viewing opportunities. Leisure member permits are unfortunately no longer available at Nickolls Quarry, so access is now restricted to the public paths.

There are several stopping points along the Botolph's Bridge Road which permit viewing of the canal cutting and enable access to the wider area, the most useful of which are by Rock Cottage (at the southern end of the road), the level crossing, the road bridge over the cutting and near the junction with Burmarsh Road.

For access to the seawall near the Dymchurch Redoubt there is limited parking in a small lay-by where the A259 joins the seawall. Since completion of the sea defence works in 2020 access from here to the Ranges has unfortunately been lost and is now only possible from TR13 L, when firing is not taking place (refer to this tetrad guide for details).

A main bus route runs along the A259.

Bird species diversity

The diversity and richness of habitats produced totals of 75 breeding and 125 wintering species recorded during the 2007-2013 BTO/KOS atlas fieldwork, both of which rank as the highest amongst the 31 local tetrads, as the table below demonstrates. The overall total of 230 species recorded within the tetrad ranks as the third highest in the area.

	Total	Rank/31
Breeding species	75	1 st
Wintering species	125	1 st
Species recorded	230	3 rd

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

Other Natural History

As the tetrad has attracted birdwatchers and other naturalists for many years several groups are fairly well-recorded from some areas. Some environmental surveying has also been undertaken as part of the building application for the Nickolls Quarry site. Recent moth trapping undertaken between 2017 and 2021 at Nickolls Quarry has increased the tetrad list to over 480 species, including a number of specialist wetland species such as *Orthotelia sparganella* (Reed Fanner), *Agonopterix conterminella* (Sallow Flat-body), *Cosmopterix scribaiella* (New Marsh Cosmet), *Cosmopterix lienigiella* (Fen Cosmet), *Brachmia inornatella* (Fen Crest), *Apotomis lineana* (Willow Marble), *Anania perlucidalis* (Fenland Pearl), Water Ermine, Reed Dagger, Silky Wainscot, Twin-spotted Wainscot and Double Lobed.



Brachmia inornatella at Nickolls Quarry



Cosmopterix lienigiella at Nickolls Quarry

A number of rare migrants or notable scarce residents have included *Euspilapteryx auroguttella* (Gold-dot Slender), *Sciota adelphella* (Willow Knot-horn), *Acrobasis tumidana* (Scarce Oak Knot-horn), *Ancylosis oblitella* (Saltmarsh Knot-horn), Sub-angled Wave, Portland Ribbon Wave, Oak Processionary, the Blackneck, Golden Twin-spot, Silver Barred, the Four-spotted and Rosy Marbled. Other more regular migrants have included *Palpita vitrealis* (Olive-tree Pearl) and the Vestal. Recent use of pheromone lures has confirmed the presence of both Hornet Moth and Lunar Hornet Moth within the tetrad.

Hythe Ranges however (which also occupies parts of TR13 L and TR13 M) has not been well studied due to access restrictions. It is considered “likely to support an impressive fauna” and a number of rare or scarce species are known or suspected to occur (Davidson 1998). Moth trapping since 2017 at the ranges (primarily within TR13 L) has revealed the presence of several nationally rare or scarce species, some of which were only previously thought to occur at Dungeness or a small number of other sites.



Water Ermine at Nickolls Quarry



Sciota adelphella at Nickolls Quarry

Of particular significance is the Sussex Emerald, a highly localised species otherwise known mainly from Dungeness, with a small population at Kingsdown and another very recently discovered at Rye Harbour (East Sussex), which at the ranges feeds on Wild Carrot along the seawall. It has also strayed to Nickolls Quarry, whilst other presumed wanderers from the ranges have included *Aethes dilucidana* (Short-barred Yellow Conch), *Ethmia terminella* (Five-spot Ermel) and *Ethmia bipunctella* (Bordered Ermel) and *Cynaeda dentalis* (Starry Pearl).



Hornet Moth at Cinderella Farm



Lunar Hornet Moth at Nickolls Quarry



The Blackneck at Nickolls Quarry



Silver Barred at Nickolls Quarry

The migrant butterflies Clouded Yellow and Painted Lady have been noted in the tetrad, whilst the Wall butterfly appears to be a recent colonist.

A colony of at least 70 *Sitaris muralis* (Flame-shouldered Blister Beetle) discovered at Palmarsh on the 14th August 2018 constituted the first county record and probably only the fourth modern British occurrence (and were noted again in 2019).



Rosy Marbled at Nickolls Quarry



Sitaris muralis at Palmarsh

The presence of Great Crested Newt and Marsh Frog in the tetrad are notable. The latter is largest of British frogs and is said to have been introduced in 1935 from Hungary possibly into local garden ponds at Lympne (and at Stone-in-Oxney). It spread very rapidly along the Marsh dykes and by 1940 had reached the western extremity of Romney Marsh at Pett Level, also colonising the Royal Military Canal and surrounding marshland.

Brown Hares may be regularly seen on the farmland to the west of the Botolph's Bridge Road. Visitors should be aware that these have attracted the attentions of hare-courers and that if this illegal activity is observed it should be reported to the Police as a 999 emergency.

A list of all species recorded in the tetrad is provided below in Appendix 2. The fish species listed are based on those with which the lake at Nickolls Quarry has been stocked. The quantities involved can be significant – in 2012 totals of 544 Carp, 3,000 Bream, 4,000 Rudd and 7,000 each of Perch and Roach were introduced. There does not appear to be any record of species which have occurred naturally in the tetrad.

General History

Botolph's Bridge Inn takes its unusual name from a seventh century saint who, according to legend, lived and died here. The pub sign illustrates the story of St Botolph's burial, when a group of monks had to remove his body for protection from marauding Vikings.

The tetrad is heavily influenced by the impending threat of invasion from Napoleonic France in the early nineteenth century, containing the remains of a Martello Tower and the Dymchurch Redoubt. The Martello Tower is number 19 of 74 which were built (and are numbered sequentially) along the coastline between Folkestone (1) and Seaford, Sussex (74). For further information on this and other local Martello towers see: www.ecastles.co.uk/martello.html.

The Dymchurch Redoubt was built between 1804 and 1812 to support the chain of Martello Towers, and to act as a supply depot for them. It is circular in form and built of brick with granite and sandstone dressings, measuring up to 68 metres in diameter and stands 12 metres above the floor of its 9-metre-wide dry moat. Beyond the moat, an earth bank or glacis helped to protect the masonry from artillery fire.

Built on two stories, the upper floor had open emplacements for ten 24 pounder guns mounted on wooden traversing platforms. The lower floor featured 24 vaulted barrack and storage casemates, which opened onto a circular parade ground. They were designed to accommodate 350 officers and men. Entry was originally via a wooden footbridge supported by stilts, which could be collapsed in an emergency.

By the time the Redoubt was finished the threat of invasion by Napoleon was over. During World War I, it was used for troop accommodation and in World War II, when the south coast was again at risk of invasion, two 6-inch breech-loading guns were mounted in casemates built over the original gun emplacements. A prominent battery observation post was built, and pill boxes were sited on the parapet in order to repel an infantry attack. It was fully operational by 1942 as an Emergency Coastal Battery. After the war, the observation post was used as a Coastguard lookout and radar was installed to monitor shipping in the English Channel.



Botolph's Bridge Inn sign



Martello Tower number 19



Dymchurch Redoubt

The army constructed a mock-up of a street of buildings in the interior, for training in urban warfare. The Redoubt is now however disused except as a store but remains the property of the Ministry of Defence. It is a Scheduled Monument and is listed by English Heritage as a 'Building at Risk', although a conservation plan has been agreed. It is not open to the public but can be closely approached on its southern side via the seawall. The military ranges have been in existence since the early nineteenth century and were acquired shortly after the Martello Towers and Redoubt were built.

During World War I an Air Gunnery school was established by the Royal Flying Corps on the present Nickolls Quarry site and operated from 1916-18. It was here that Major Henry Chaney developed the "Hythe Gun Camera" – a Lewis machine gun modified to accept a camera and lens, which proved to be an extremely successful training aid. Chocks for aircraft wheels have been found during gravel extraction, also timber used for ancient waterside staging and parts of Roman amphorae, presumably from nearby *Portus Lemanis*.

For further details of the history of the Nickolls Quarry site refer to Roger Norman's excellent account of [The Birds of Palmarsh Quarry](#).

The railway track which bisects the tetrad is part of the Romney, Hythe & Dymchurch Railway (www.rhdr.org.uk).

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Acknowledgements

The map image was produced from the Ordnance Survey [Get-a-map service](#) and is reproduced with kind permission of [Ordnance Survey](#).

The photographs of Nickolls Quarry in 1952 and 1988 were taken by Roger Norman, those of Red-throated Diver, Black-necked Grebe, Bearded Tit, Cuckoo, Sedge Warbler, Sand Martin and Swallows, the canal cutting, Shoveler, Turtle Dove, Dunlin, Kingfisher, Green Sandpiper, Fieldfare, Barn Owl and Turnstone were taken by Brian Harper (www.brizey.co.uk), the Rose-coloured Starling by John Organ and all others by Ian Roberts. Special thanks to Roger Norman and Brian Harper for useful comments on the first draft of this guide.

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 (www.kmbrc.org.uk).

Appendix 1: Species Lists – Birds: 230 species, excluding category D and 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 G - Bird List	Breeding	Wintering	Other
Red-legged Partridge	●	●	
Grey Partridge			●
★ Quail			●
Pheasant	●	●	
Brent Goose		●	
Canada Goose	●	●	
★ Barnacle Goose			●
★ Snow Goose			●
Greylag Goose	●	●	
★ Pink-footed Goose			●
★ Tundra Bean Goose		●	
★ White-fronted Goose		●	
Mute Swan	●	●	
★ Bewick's Swan		●	
★ Whooper Swan		●	
★ Egyptian Goose		●	
Shelduck	●	●	
Mandarin Duck			●
★ Garganey			●
Shoveler		●	
Gadwall		●	
Wigeon		●	
Mallard	●	●	
Pintail		●	
Teal		●	
Pochard		●	
Tufted Duck	●	●	
★ Scaup			●
Eider		●	
Velvet Scoter			●
Common Scoter		●	
Goldeneye		●	
★ Smew		●	
Goosander		●	
Red-breasted Merganser		●	
★ Ruddy Duck			●
Swift	●		
Cuckoo	●		
Feral Pigeon	●	●	
Stock Dove	●	●	
Woodpigeon	●	●	

TR13 G - Bird List	Breeding	Wintering	Other
★ Purple Heron			●
★ Great White Egret		●	
Little Egret		●	
Osprey			●
Honey Buzzard			●
Sparrowhawk	●	●	
Marsh Harrier		●	
★ Hen Harrier		●	
★ Montagu's Harrier			●
Red Kite			●
★ White-tailed Eagle		●	
★ Rough-legged Buzzard		●	
Buzzard	●	●	
Barn Owl	●	●	
Tawny Owl			●
Little Owl	●	●	
★ Long-eared Owl	●		●
Short-eared Owl		●	
Kingfisher	●		
★ Bee-eater			●
★ Lesser Spotted Woodpecker			●
Great Spotted Woodpecker		●	
Green Woodpecker	●	●	
Kestrel	●	●	
★ Red-footed Falcon			●
Merlin			●
Hobby	●		
Peregrine		●	
★ Ring-necked Parakeet			●
★ Red-backed Shrike			●
★ Great Grey Shrike			●
Jay	●	●	
Magpie	●	●	
Jackdaw	●	●	
Rook		●	
Carrion Crow	●	●	
★ Hooded Crow			●
Raven			●
Waxwing			●
Coal Tit			●
Marsh Tit			●

TR13 G - Bird List		Breeding	Wintering	Other
	Turtle Dove	●		
	Collared Dove	●	●	
	Water Rail		●	
★	Corncrake			●
	Moorhen	●	●	
	Coot	●	●	
★	Crane			●
	Little Grebe	●	●	
★	Red-necked Grebe			●
	Great Crested Grebe	●	●	
★	Slavonian Grebe			●
★	Black-necked Grebe			●
★	Stone Curlew			●
	Oystercatcher	●		
★	Black-winged Stilt			●
	Avocet			●
	Lapwing	●	●	
	Golden Plover		●	
	Grey Plover		●	
	Ringed Plover	●	●	
★	Little Ringed Plover			●
	Whimbrel			●
	Curlew		●	
	Bar-tailed Godwit			●
★	Black-tailed Godwit			●
	Turnstone		●	
	Knot		●	
★	Ruff			●
★	Curlew Sandpiper			●
★	Temminck's Stint			●
	Sanderling			●
	Dunlin		●	
	Purple Sandpiper			●
★	Little Stint			●
	Woodcock		●	
	Jack Snipe		●	
	Snipe	●	●	
	Common Sandpiper		●	
	Green Sandpiper		●	
	Redshank		●	
★	Wood Sandpiper			●
★	Spotted Redshank			●
	Greenshank			●
	Kittiwake		●	
	Black-headed Gull		●	
	Little Gull		●	
	Mediterranean Gull		●	
	Common Gull		●	
	Great Black-backed Gull		●	
★	Glaucous Gull			●

TR13 G - Bird List		Breeding	Wintering	Other
	Blue Tit	●	●	
	Great Tit	●	●	
★	Bearded Tit	●	●	
★	Woodlark			●
	Skylark	●	●	
	Shore Lark			●
★	Sand Martin			●
	Swallow	●		
	House Martin	●		
	Cetti's Warbler	●	●	
	Long-tailed Tit	●	●	
★	Yellow-browed Warbler			●
	Willow Warbler	●		
	Chiffchaff	●	●	
	Sedge Warbler	●		
	Reed Warbler	●		
	Marsh Warbler	●		
	Grasshopper Warbler			●
	Blackcap	●	●	
	Garden Warbler			●
	Lesser Whitethroat	●		
	Whitethroat	●		
	Firecrest			●
	Goldcrest	●	●	
	Wren	●	●	
	Nuthatch			●
	Treecreeper			●
★	Rose-coloured Starling			●
	Starling	●	●	
	Ring Ouzel		●	
	Blackbird	●	●	
	Fieldfare		●	
	Redwing		●	
	Song Thrush	●	●	
	Mistle Thrush	●	●	
	Spotted Flycatcher			●
	Robin	●	●	
★	Bluethroat			●
	Nightingale	●		
	Pied Flycatcher			●
	Black Redstart		●	
	Redstart			●
	Whinchat			●
	Stonechat		●	
	Wheatear			●
	House Sparrow	●	●	
	Tree Sparrow		●	
	Dunnock	●	●	
	Yellow Wagtail	●		
	Grey Wagtail		●	

TR13 G - Bird List		Breeding	Wintering	Other
★	Iceland Gull			●
	Herring Gull	●		
★	Caspian Gull			●
★	Yellow-legged Gull			●
	Lesser Black-backed Gull		●	
	Sandwich Tern			●
	Little Tern			●
	Common Tern			●
	Arctic Tern			●
	Black Tern			●
	Arctic Skua			●
★	Little Auk			●
	Guillemot		●	
	Razorbill		●	
	Red-throated Diver		●	
	Black-throated Diver			●
★	Great Northern Diver			●
	Fulmar	●		
★	Balearic Shearwater		●	
	Gannet		●	
	Shag		●	
	Cormorant		●	
★	Spoonbill			●
★	Bittern		●	
★	Night Heron		●	
★	Squacco Heron			●
	Grey Heron		●	

TR13 G - Bird List		Breeding	Wintering	Other
	Pied Wagtail	●	●	
	Meadow Pipit	●	●	
	Tree Pipit			●
★	Water Pipit			●
	Rock Pipit			●
	Chaffinch	●	●	
	Brambling			●
★	Hawfinch			●
	Bullfinch	●	●	
	Greenfinch	●	●	
★	Twite			●
	Linnet	●	●	
	Lesser Redpoll		●	
	Crossbill			●
	Goldfinch	●	●	
	Siskin		●	
	Lapland Bunting			●
	Snow Bunting			●
	Corn Bunting	●		
	Yellowhammer	●	●	
	Reed Bunting	●	●	
Total		71	125	
Confirmed breeding		32		
Probable breeding		25		
Possible breeding		18		
Total species recorded in tetrad				230

Category D (species that would otherwise appear in Category A except that there is reasonable doubt that they have ever occurred in a natural state)

Bufflehead	●
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Great White Pelican	●
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Category E (escapees)

White-faced Whistling Duck	●
Fulvous Whistling Duck	●
Nene	●
Bar-headed Goose	●
Emperor Goose	●
Swan Goose	●

Black Swan	●
Falcated Duck	●
White-cheeked Pintail	●
Red-crested Pochard	●
African Sacred Ibis	●
Pink-backed Pelican	●

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, particularly with the Lepidoptera. Refer to the note above regarding the fish species.



Actinopterygii (Ray-finned Fish): 5 species

Common name	Scientific name	Last recorded
Carp	<i>Cyprinus carpio</i>	2021
Roach	<i>Rutilus rutilus</i>	2012
Perch	<i>Perca fluviatilis</i>	2012
Rudd	<i>Scardinius erythrophthalmus</i>	2012
Bream	<i>Abramis brama</i>	2012

Amphibia (Amphibians): 6 species

Common name	Scientific name	Last recorded
Great Crested Newt	<i>Triturus cristatus</i>	2006
Smooth Newt	<i>Lissotriton vulgaris</i>	2006
Salamander	<i>Salamandra salamandra</i>	2009
Common Toad	<i>Bufo bufo</i>	2006
Common Frog	<i>Rana temporaria</i>	2006
Marsh Frog	<i>Rana ridibunda</i>	2020

Reptilia (Reptiles): 3 species

Common name	Scientific name	Last recorded
Grass Snake	<i>Natrix natrix</i>	2015
Slow-worm	<i>Anguis fragilis</i>	2006
Common Lizard	<i>Zootoca vivipara</i>	2006

Mammalia (Mammals): 18 species

Common name	Scientific name	Last recorded
Wood Mouse	<i>Apodemus sylvaticus</i>	2005
Bank Vole	<i>Clethrionomys glareolus</i>	2005
Field Vole	<i>Microtus agrestis</i>	2005
Water Vole	<i>Arvicola terrestris</i>	2011
Grey Squirrel	<i>Sciurus carolinensis</i>	2022
Hedgehog	<i>Erinaceus europaeus</i>	1992
Rabbit	<i>Oryctolagus cuniculus</i>	2018
Brown Hare	<i>Lepus europaeus</i>	2020
Fox	<i>Vulpes vulpes</i>	2020
Badger	<i>Meles meles</i>	1993
American Mink	<i>Mustela vison</i>	2019
Weasel	<i>Mustela nivalis</i>	2017
Soprano Pipistrelle	<i>Pipistrellus pygmaeus</i>	2012
Common Pipistrelle	<i>Pipistrellus pipistrellus</i>	2006
Noctule	<i>Nyctalus noctula</i>	2005
Serotine	<i>Eptesicus serotinus</i>	2002
Common Seal	<i>Phoca vitulina</i>	2011
Harbour Porpoise	<i>Phocoena phocoena</i>	2017

Arachnida (Spiders): 11 species

Common name	Scientific name	Last recorded
Garden Orb-Web Spider	<i>Araneus diadematus</i>	2005
-	<i>Araniella opisthographa</i>	1997
-	<i>Argiope bruennichi</i>	2005
-	<i>Euophrys frontalis</i>	1997
-	<i>Heliophanus flavipes</i>	1997
-	<i>Philodromus cespitum</i>	1997
Nursery-Web Spider	<i>Pisaura mirabilis</i>	2005
Zebra Spider	<i>Salticus scenicus</i>	1997
-	<i>Dicranopalpus ramosus</i>	2005
-	<i>Paroligolophus agrestis</i>	2005
-	<i>Phalangium opilio</i>	2005

Crustacea (Crustaceans): 3 species

Common name	Scientific name	Last recorded
Common Pill Woodlouse	<i>Armadillidium vulgare</i>	2005
Goose Barnacle	<i>Lepas anatifera</i>	2020
-	<i>Oniscus asellus</i>	2005
-	<i>Porcellio scaber</i>	2005

Odonata (Damselflies and Dragonflies): 14 species

Common name	Scientific name	Last recorded
Banded Demoiselle	<i>Calopteryx splendens</i>	2010
Azure Damselfly	<i>Coenagrion puella</i>	2009
Common Blue Damselfly	<i>Enallagma cyathigerum</i>	2010
Red-eyed Damselfly	<i>Erythromma najas</i>	2010
Small Red-eyed Damselfly	<i>Erythromma viridulum</i>	2010
Blue-tailed Damselfly	<i>Ischnura elegans</i>	2010
Large Red Damselfly	<i>Pyrrhosoma nymphula</i>	2014
Emerald Damselfly	<i>Lestes sponsa</i>	2010
Migrant Hawker	<i>Aeshna mixta</i>	2014
Emperor Dragonfly	<i>Anax imperator</i>	2010
Hairy Dragonfly	<i>Brachytron pratense</i>	2012
Black-tailed Skimmer	<i>Orthetrum cancellatum</i>	2011
Ruddy Darter	<i>Sympetrum sanguineum</i>	2010
Common Darter	<i>Sympetrum striolatum</i>	2005

Orthoptera (Grasshoppers and Crickets): 6 species

Common name	Scientific name	Last recorded
Lesser Marsh Grasshopper	<i>Chorthippus albomarginatus</i>	2005
Field Grasshopper	<i>Chorthippus brunneus</i>	2005
Long-winged Cone-head	<i>Conocephalus discolor</i>	2005
Speckled Bush-cricket	<i>Leptophyes punctatissima</i>	2005
Dark Bush-cricket	<i>Pholidoptera griseoaptera</i>	2005
Great Green Bush Cricket	<i>Tettigonia viridissima</i>	1985

Dermaptera (Earwigs): 1 species

Common name	Scientific name	Last recorded
Common Earwig	<i>Forficula auricularia</i>	2006

Hemiptera (True Bugs): 52 species

Common name	Scientific name	Last recorded
Hawthorn Shieldbug	<i>Acanthosoma haemorrhoidale</i>	2005
	<i>Agallia ribauti</i>	2005
	<i>Anthocoris nemoralis</i>	2005
	<i>Aphrodes bicinctus</i>	2005
Ant Damsel Bug	<i>Aptus mirmicoides</i>	2005
	<i>Cardiastethus fasciiventris</i>	2005
Punctate Corixa	<i>Corixa punctata</i>	2006
	<i>Cymatia bonsdorffii</i>	2006
	<i>Cymatia coleoptrata</i>	1992
	<i>Deraeocoris lutescens</i>	2005
	<i>Empicoris vagabundus</i>	2005
	<i>Eupteryx aurata</i>	2005
Woundwort Shieldbug	<i>Eysarcoris fabricii</i>	2005
Little Pondskater	<i>Gerris argentatus</i>	1992
Common Pondskater	<i>Gerris lacustris</i>	2006
Toothed Pondskater	<i>Gerris odontogaster</i>	1992
	<i>Gerris thoracicus</i>	1992
	<i>Hesperocorixa linnei</i>	1992
	<i>Hesperocorixa sahlbergi</i>	2006
Ant Damsel Bug	<i>Himacerus mirmicoides</i>	2005
Water Measurer	<i>Hydrometra stagnorum</i>	1992
	<i>Idiocerus albicans</i>	2005
	<i>Idiocerus poecilus</i>	2005
	<i>Idiocerus ustulatus</i>	2005
Saucer Bug	<i>Ilyocoris cimicoides</i>	1997
Birch Catkin Bug	<i>Kleidocerys resedae</i>	2005
Birch Catkin Bug	<i>Kleidocerys truncatulus</i>	2005
	<i>Kybos populi</i>	2005
	<i>Liocoris tripustulatus</i>	2005
	<i>Macropsis graminea</i>	2005
Water Cricket	<i>Microvelia reticulata</i>	2006
-	<i>Mocydia crocea</i>	2005
Common Damselbug	<i>Nabis rugosus</i>	2005
	<i>Neophilaenus lineatus</i>	2005
Water Scorpion	<i>Nepa cinerea</i>	1992
Common Backswimmer	<i>Notonecta glauca</i>	2006
	<i>Notostira elongata</i>	2005
	<i>Nysius senecionis</i>	2005
	<i>Opsius stactogalus</i>	2005
-	<i>Orius majusculus</i>	2005
Green Shieldbug	<i>Palomena prasina</i>	2005
	<i>Phytocoris varipes</i>	2005
Gorse Shieldbug	<i>Piezodorus lituratus</i>	2005
	<i>Plagiognathus albipennis</i>	2005
	<i>Plea minutissima</i>	2006
	<i>Psammotettix cephalotes</i>	2005
	<i>Sigara nigrolineata</i>	2006
	<i>Sigara dorsalis</i>	2006
	<i>Stenodema laevigatum</i>	2005
	<i>Trigonotylus caelestialum</i>	2005
	<i>Trigonotylus ruficornis</i>	2005
	<i>Tritomegas sexmaculatus</i>	2015

Neuroptera (Lacewings): 2 species

Common name	Scientific name	Last recorded
-	<i>Chrysopa carnea</i>	2002
-	<i>Micromus angulatus</i>	2002

Coleoptera (Beetles): 88 species

Common name	Scientific name	Last recorded
10-spot Ladybird	<i>Adalia decempunctata</i>	2005
-	<i>Agabus bipustulatus</i>	1992
-	<i>Agabus nebulosus</i>	1992
-	<i>Agabus sturmii</i>	1992
-	<i>Altica lythri</i>	2005
-	<i>Anacaena bipustulata</i>	1992
-	<i>Anacaena limbata</i>	1992
-	<i>Anthicus antherinus</i>	2005
Strawberry-blossom Weevil	<i>Anthonomus rubi</i>	2005
Apion frumentarium	<i>Apion haematodes</i>	2005
-	<i>Bembidion lampros</i>	2005
-	<i>Bembidion varium</i>	1992
-	<i>Berosus affinis</i>	1989
-	<i>Bruchus loti</i>	2005
Mangold Flea Beetle	<i>Chaetocnema concinna</i>	2005
Willow Flea Beetle	<i>Chalcoides aurata</i>	2005
-	<i>Coccidula rufa</i>	2005
7-spot Ladybird	<i>Coccinella septempunctata</i>	2005
-	<i>Coelambus confluens</i>	1989
-	<i>Colymbetes fuscus</i>	1992
-	<i>Copelatus haemorrhoidalis</i>	1992
-	<i>Cryptocephalus pusillus</i>	2005
-	<i>Cymbiodyta marginellus</i>	1992
-	<i>Cyphon palustris</i>	2005
-	<i>Dromius linearis</i>	2005
Great Diving Beetle	<i>Dytiscus marginalis</i>	1992
-	<i>Enochrus bicolor</i>	1989
-	<i>Enochrus coarctatus</i>	1992
-	<i>Enochrus melanocephalus</i>	1992
-	<i>Enochrus testaceus</i>	1992
-	<i>Haliphus heydeni</i>	1992
-	<i>Haliphus immaculatus</i>	1989
-	<i>Haliphus lineatocollis</i>	1992
-	<i>Haliphus ruficollis agg.</i>	1992
-	<i>Harpalus affinis</i>	2005
-	<i>Harpalus rufibarbis</i>	2000
-	<i>Harpalus tardus</i>	2000
-	<i>Helochares lividus</i>	1992
-	<i>Helochares obscurus</i>	1992
-	<i>Helophorus alternans</i>	1992
-	<i>Helophorus brevipalpis</i>	1992
-	<i>Helophorus grandis</i>	1992
-	<i>Helophorus griseus</i>	1992
-	<i>Helophorus minutus</i>	1992
-	<i>Hydrobius fuscipes</i>	1992
-	<i>Hydroglyphus pusillus</i>	1989

Common name	Scientific name	Last recorded
-	<i>Hydroporus angustatus</i>	1992
-	<i>Hydroporus memnonius</i>	1992
-	<i>Hydroporus palustris</i>	1992
-	<i>Hydroporus planus</i>	1992
-	<i>Hydrovatus clypealis</i>	1992
Screech Beetle	<i>Hygrobia hermanni</i>	1989
-	<i>Hygrotus inaequalis</i>	1992
-	<i>Hygrotus versicolor</i>	1992
-	<i>Hyphydrus ovatus</i>	1992
-	<i>Ilybius ater</i>	1992
-	<i>Laccobius colon</i>	1992
-	<i>Laccobius bipunctatus</i>	1992
-	<i>Laccophilus hyalinus</i>	1992
-	<i>Laccophilus minutus</i>	1992
Common Glow-worm	<i>Lampyris noctulica</i>	2020
-	<i>Lesteva longoelytrata</i>	1992
-	<i>Limnebius nitidus</i>	1992
-	<i>Limnoxenus niger</i>	1992
-	<i>Longitarsus luridus</i>	2005
-	<i>Longitarsus rubiginosus</i>	2005
Common Pollen Beetle	<i>Meligethes aeneus</i>	2005
Larger Noterus	<i>Noterus clavicornis</i>	1992
-	<i>Ochthebius minimus</i>	1992
-	<i>Ochthebius nanus</i>	1992
-	<i>Oxystoma pomonae</i>	2005
-	<i>Paederus littoralis</i>	2005
-	<i>Peltodytes caesus</i>	1992
Mustard Beetle	<i>Phaedon cochleariae</i>	1992
Brassy Willow Beetle	<i>Phratora vitellinae</i>	2005
-	<i>Poophagus sisymbrii</i>	1992
-	<i>Porhydrus lineatus</i>	1992
-	<i>Prasocuris phellandrii</i>	1992
14-spot Ladybird	<i>Propylea quattuordecimpunctata</i>	2015
-	<i>Pseudapion rufirostre</i>	2005
-	<i>Pterostichus cupreus</i>	2005
-	<i>Rhantus suturalis</i>	1992
-	<i>Rhinosimus planirostris</i>	2005
Flame-shouldered Blister Beetle	<i>Sitaris muralis</i>	2019
Pea-leaf Weevil	<i>Sitona lineatus</i>	2005
-	<i>Stenus cicindeloides</i>	1992
-	<i>Stenus latifrons</i>	1992
-	<i>Trichosirocalus troglodytes</i>	2005

Diptera (True Flies): 69 species

Common name	Scientific name	Last recorded
-	<i>Agomyza pseudoreptans</i>	2005
-	<i>Anthomyza gracilis</i>	2005
Murky-legged Black Legionnaire	<i>Beris chalybata</i>	2005
St Mark's Fly	<i>Bibio marci</i>	2014
Dotted Bee-fly	<i>Bombylius discolour</i>	2017
-	<i>Calliopum aeneum</i>	2005
-	<i>Cerodontha denticornis</i>	2005
-	<i>Cheilosia griseiventris</i>	2005

Common name	Scientific name	Last recorded
-	<i>Chlorops hypostigma</i>	2005
-	<i>Chlorops pumilionis</i>	2005
-	<i>Chrysotus gramineus</i>	2005
Horse Fly	<i>Chrysotus relictus</i>	2009
-	<i>Coenosia testacea</i>	2005
-	<i>Delia platura</i>	2005
-	<i>Dichetophora obliterated</i>	2005
Fever Fly	<i>Dilophus febrilis</i>	2005
-	<i>Dolichocephala irrorata</i>	2005
-	<i>Dolichopus griseipennis</i>	2005
-	<i>Elachiptera diastema</i>	2005
-	<i>Ensina sonchi</i>	2005
Marmalade Hoverfly	<i>Episyrphus balteatus</i>	1976
-	<i>Eristalis nemorum</i>	2005
-	<i>Eristalis tenax</i>	2005
-	<i>Geomyza tripunctata</i>	2005
-	<i>Gnophomyia viridipennis</i>	2005
-	<i>Hebecnema nigra</i>	2005
-	<i>Hebecnema umbratica</i>	2005
-	<i>Helina lasiophthalma</i>	2005
-	<i>Helophilus pendulus</i>	2014
-	<i>Hydromya dorsalis</i>	1992
-	<i>Leia fascipennis</i>	2005
-	<i>Leptocera lutosoidea</i>	2005
-	<i>Limonia nubeculosa</i>	2005
-	<i>Liriomyza pedestris</i>	2005
-	<i>Lucilia caesar</i>	2005
-	<i>Melanomya nana</i>	2005
-	<i>Melanostoma scalare</i>	2005
-	<i>Minettia plumicornis</i>	2005
-	<i>Minettia rivos</i>	2005
Spotted Crane-fly	<i>Nephrotoma appendiculata</i>	2012
-	<i>Opomyza germinationis</i>	2005
-	<i>Oscinella nigerrima</i>	2005
-	<i>Oscinella trochanterata</i>	2005
-	<i>Palloptera ustulata</i>	2005
-	<i>Phaonia palpata</i>	2005
-	<i>Phaonia tuguriorum</i>	2005
-	<i>Pherbellia cinerella</i>	2005
-	<i>Phorbia securis</i>	2005
-	<i>Phyto melanocephala</i>	1971
-	<i>Pipunculus thomsoni</i>	2005
-	<i>Platycheirus angustatus</i>	2005
-	<i>Platypalpus minutus</i>	2005
-	<i>Platypalpus pallidiventris</i>	2005
-	<i>Platypalpus strigifrons</i>	2005
-	<i>Profenusa pygmaea</i>	2017
-	<i>Rhaphium caliginosum</i>	2005
-	<i>Rhaphium laticorne</i>	2005
-	<i>Scaptomyza pallida</i>	2005
-	<i>Scathophaga stercoraria</i>	2005
-	<i>Schoenomyza litorella</i>	2005
-	<i>Sphenella marginata</i>	2005
-	<i>Spilogona scutulata</i>	2005

Common name	Scientific name	Last recorded
-	<i>Syntormon pallipes</i>	2005
-	<i>Syritta pipiens</i>	2005
-	<i>Tachytrechus insignis</i>	2005
-	<i>Terellia ruficauda</i>	2005

***Lepidoptera* (Butterflies): 23 species**

Common name	Scientific name	Last recorded
Essex Skipper	<i>Thymelicus lineola</i>	2011
Small Skipper	<i>Thymelicus sylvestris</i>	2011
Large Skipper	<i>Ochlodes sylvanus</i>	2020
Orange-tip	<i>Anthocharis cardamines</i>	2021
Large White	<i>Pieris brassicae</i>	2012
Small White	<i>Pieris rapae</i>	2014
Green-veined White	<i>Pieris napi</i>	2021
Clouded Yellow	<i>Colias croceus</i>	2022
Wall	<i>Lasiommata megera</i>	2013
Speckled Wood	<i>Pararge aegeria</i>	2022
Small Heath	<i>Coenonympha pamphilus</i>	2022
Meadow Brown	<i>Maniola jurtina</i>	2012
Gatekeeper	<i>Pyronia tithonus</i>	2019
Marbled White	<i>Melanargia galathea</i>	2022
Red Admiral	<i>Vanessa atalanta</i>	2021
Painted Lady	<i>Vanessa cardui</i>	2022
Peacock	<i>Inachis io</i>	2022
Small Tortoiseshell	<i>Aglais urticae</i>	2022
Comma	<i>Polygonia c-album</i>	2017
Small Copper	<i>Lycaena phlaeas</i>	2012
Holly Blue	<i>Celastrina argiolus</i>	2021
Brown Argus	<i>Aricia agestis</i>	2012
Common Blue	<i>Polyommatus icarus</i>	2017

***Lepidoptera* (Moths): 482 species**

Common name	Scientific name	Last recorded
Silver-barred Alder Pigmy	<i>Stigmella alnetella</i>	2019
Common Thorn Pigmy	<i>Stigmella crataegella</i>	2019
Common Fruit-tree Pigmy	<i>Stigmella oxyacanthella</i>	2019
Greenish Thorn Pigmy	<i>Stigmella hybnerella</i>	2019
Willow Pigmy	<i>Stigmella obliquella</i>	2019
Scrubland Pigmy	<i>Stigmella plagicolella</i>	2019
Golden Pigmy	<i>Stigmella aurella</i>	2019
New Holm-Oak Pigmy	<i>Ectoedemia heringella</i>	2021
Coast Bramble Pigmy	<i>Ectoedemia erythrogenella</i>	2019
Alder Lift	<i>Heliozela resplendella</i>	2019
Meadow Long-horn	<i>Cauchas rufimitrella</i>	2015
Buff Long-horn	<i>Nematopogon metaxella</i>	2018
Large Long-horn	<i>Nematopogon swammerdamella</i>	2019
Common Bagworm	<i>Psyche casta</i>	2019
Fulvous Clothes Moth	<i>Tinea semifulvella</i>	2020
Bird's-nest Moth	<i>Tinea trinotella</i>	2021
Carrion Moth	<i>Monopis weaverella</i>	2021
Daisy Bent-wing	<i>Bucculatrix nigricomella</i>	2021
Hawthorn Bent-wing	<i>Bucculatrix bechsteinella</i>	2019

Common name	Scientific name	Last recorded
White-triangle Slender	<i>Caloptilia stigmatella</i>	2019
Gold-dot Slender	<i>Euspilapteryx auroguttella</i>	2020
Little Slender	<i>Calybites phasianipennella</i>	2018
Brown Oak Slender	<i>Acrocercops brongniardella</i>	2020
Hawthorn Slender	<i>Parornix anglicella</i>	2019
Common Thorn Midget	<i>Phyllonorycter oxyacanthae</i>	2019
Hawthorn Midget	<i>Phyllonorycter corylifoliella</i>	2019
Firethorn Leaf-miner	<i>Phyllonorycter leucographella</i>	2020
Small Alder Midget	<i>Phyllonorycter stettinensis</i>	2019
Broad-barred Midget	<i>Phyllonorycter froelichiella</i>	2019
Horse Chestnut Leaf-miner	<i>Cameraria ohridella</i>	2022
Kent Bent-wing	<i>Phyllocnistis xenia</i>	2020
Bird-cherry Ermine	<i>Yponomeuta evonymella</i>	2018
Apple Ermine	<i>Yponomeuta malinellus</i>	2016
Wainscot Smudge	<i>Ypsolopha scabrella</i>	2018
Diamond-back Moth	<i>Plutella xylostella</i>	2021
Bitter-cress Diamond-back Moth	<i>Eidophasia messingiella</i>	2020
Reed Fanner	<i>Orthotelia sparganella</i>	2018
Fleabane Fanner	<i>Digitivalva pulicariae</i>	2016
Golden Argent	<i>Argyresthia goedartella</i>	2020
Blackthorn Argent	<i>Argyresthia spinosella</i>	2019
Apple Leaf-miner	<i>Lyonetia clerkella</i>	2019
Ash-bud Moth	<i>Prays fraxinella</i>	2021
Bugloss Spear-wing	<i>Tinagma ocnestomella</i>	2020
Straw Obscure	<i>Oegoconia caradjai</i>	2016
Golden-brown Tubic	<i>Crassa unitella</i>	2020
Long-horned Flat-body	<i>Carcina quercana</i>	2020
Red-letter Flat-body	<i>Agonopterix ocellana</i>	2018
Sallow Flat-body	<i>Agonopterix conterminella</i>	2018
Common Flat-body	<i>Agonopterix heracliata</i>	2019
Brown-spot Flat-body	<i>Agonopterix alstromeriana</i>	2020
Parsnip Moth	<i>Depressaria radiella</i>	2008
Dingy Flat-body	<i>Depressaria daucella</i>	2018
Comfrey Ermel	<i>Ethmia quadrillella</i>	2019
Five-spot Ermel	<i>Ethmia terminella</i>	2020
Bordered Ermel	<i>Ethmia bipunctella</i>	2021
Bulrush Cosmet	<i>Limnaecia phragmitella</i>	2020
New Marsh Cosmet	<i>Cosmopterix scribaiella</i>	2020
Fen Cosmet	<i>Cosmopterix lienigiella</i>	2020
White-strap Sober	<i>Syncopacma larseniella</i>	2020
Gorse Crest	<i>Brachmia blandella</i>	2018
Fen Crest	<i>Brachmia inornatella</i>	2019
Orange Crest	<i>Helcystogramma rufescens</i>	2018
Meadow Neb	<i>Metzneria metzneriella</i>	2020
Wainscot Neb	<i>Monochroa palustrellus</i>	2020
Dusky Groundling	<i>Aroga velocella</i>	2020
Downland Groundling	<i>Chionodes fumatella</i>	2008
Summer Groundling	<i>Scrobipalpa obsoletella</i>	2007
Beet Moth	<i>Scrobipalpa ocellatella</i>	2020
Winter Groundling	<i>Scrobipalpa costella</i>	2017
Beautiful Groundling	<i>Caryocolum marmorea</i>	2020
Large Groundling	<i>Teleiopsis diffinis</i>	2021
Poplar Cosmet	<i>Batrachedra praeangusta</i>	2018
Gorse Case-bearer	<i>Coleophora albicosta</i>	2021

Common name	Scientific name	Last recorded
Swan-feather Dwarf	<i>Elachista argentella</i>	2017
Meadow Dwarf	<i>Elachista triatomea</i>	2019
Brown-barred Dwarf	<i>Elachista subocellea</i>	2020
Yellow-headed Cosmet	<i>Spuleria flavicaput</i>	2006
Buff Cosmet	<i>Mompha ochraceella</i>	2020
Marbled Cosmet	<i>Mompha propinquella</i>	2020
Garden Cosmet	<i>Mompha subbistrigella</i>	2020
Common Cosmet	<i>Mompha epilobiella</i>	2020
Dingy Dowd	<i>Blastobasis adustella</i>	2020
London Dowd	<i>Blastobasis lacticolella</i>	2020
Alder Signal	<i>Stathmopoda pedella</i>	2020
Twenty-plume Moth	<i>Alucita hexadactyla</i>	2018
Triangle Plume	<i>Platyptilia gonodactyla</i>	2021
Crescent Plume	<i>Marasmarcha lunaedactyla</i>	2020
White Plume	<i>Pterophorus pentadactyla</i>	2020
Common Nettle-tap	<i>Anthophila fabriciana</i>	2022
Red-barred Twist	<i>Ditula angustiorana</i>	2020
Large Fruit-tree Tortrix	<i>Archips podana</i>	2020
Variegated Golden Tortrix	<i>Archips xylosteana</i>	2020
Brindled Twist	<i>Ptycholoma lecheana</i>	2021
White-faced Tortrix	<i>Pandemis cinnamomeana</i>	2021
Barred Fruit-tree Tortrix	<i>Pandemis cerasana</i>	2020
Dark Fruit-tree Tortrix	<i>Pandemis heparana</i>	2018
Dark-barred Twist	<i>Syndemis musculana</i>	2017
Timothy Tortrix	<i>Aphelia paleana</i>	2015
Cyclamen Tortrix	<i>Clepsis spectrana</i>	2021
Privet Twist	<i>Clepsis consimilana</i>	2019
Light Brown Apple-moth	<i>Epiphyas postvittana</i>	2020
Green Oak Tortrix	<i>Tortrix viridana</i>	2019
Yellow Oak Button	<i>Aleimma loeflingiana</i>	2021
Ashy Button	<i>Acleris sparsana</i>	2018
Viburnum Button	<i>Acleris schalleriana</i>	2019
Tufted Button	<i>Acleris cristana</i>	2020
Garden Rose Tortrix	<i>Acleris variegana</i>	2020
Ginger Button	<i>Acleris aspersana</i>	2008
Sallow Button	<i>Acleris hastiana</i>	2020
Plain Conch	<i>Phtheochroa inopiana</i>	2020
Common Yellow Conch	<i>Agapeta hamana</i>	2020
Marbled Conch	<i>Eupoecilia angustana</i>	2020
Yarrow Conch	<i>Aethes smeathmanniana</i>	2021
Short-barred Yellow Conch	<i>Aethes dilucidana</i>	2020
Hemlock Yellow Conch	<i>Aethes beatricella</i>	2018
Burdock Conch	<i>Aethes rubigana</i>	2018
Hemp-agrimony Conch	<i>Cochylidia rupicola</i>	2020
Rosy Conch	<i>Cochylis roseana</i>	2018
White-bodied Conch	<i>Neocochylis hybridella</i>	2020
Ox-tongue Conch	<i>Neocochylis molliculana</i>	2019
Black-headed Conch	<i>Cochylis atricapitana</i>	2020
Diamond-back Marble	<i>Eudemis profundana</i>	2020
Willow Marble	<i>Apotomis lineana</i>	2020
White-backed Marble	<i>Hedya salicella</i>	2020
Marbled Orchard Tortrix	<i>Hedya nubiferana</i>	2018
Plum Tortrix	<i>Hedya pruniana</i>	2019
Barred Marble	<i>Celypha striana</i>	2018

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Thyme Marble	<i>Celypha cespitana</i>	2020
Common Marble	<i>Celypha lacunana</i>	2021
Smoky-barred Marble	<i>Lobesia abscisana</i>	2020
Oak Marble	<i>Lobesia reliquana</i>	2021
Shore Marble	<i>Lobesia littoralis</i>	2022
Teasel Marble	<i>Endothenia gentianaeana</i>	2020
Rush Marble	<i>Bactra lancealana</i>	2020
Aspen Roller	<i>Ancylis laetana</i>	2021
Triangle-marked Roller	<i>Ancylis achatana</i>	2020
Nut-bud Moth	<i>Epinotia tenerana</i>	2020
Grey Poplar Bell	<i>Epinotia nisella</i>	2020
Cock's-head Bell	<i>Zeiraphera isertana</i>	2020
Two-coloured Bell	<i>Eucosma obumbratana</i>	2018
Hoary Bell	<i>Eucosma cana</i>	2020
Bright Bell	<i>Eucosma hohenwartiana</i>	2020
Marbled Bell	<i>Eucosma campoliliana</i>	2020
Brindled Shoot	<i>Gypsonoma minutana</i>	2018
Common Cloaked Shoot	<i>Gypsonoma dealbana</i>	2019
White Cloaked Shoot	<i>Gypsonoma sociana</i>	2020
Knapweed Bell	<i>Epiblema cirsiana</i>	2021
White-foot Bell	<i>Epiblema foenella</i>	2020
Bramble Shoot Moth	<i>Notocelia uddmanniana</i>	2020
Triple-blotched Bell	<i>Notocelia trimaculana</i>	2020
Sharp-winged Drill	<i>Dichrorampha acuminatana</i>	2020
Round-winged Drill	<i>Dichrorampha simpliciana</i>	2020
Square-spot Drill	<i>Dichrorampha sequana</i>	2021
Broad-blotch Drill	<i>Dichrorampha alpinana</i>	2019
Pea Moth	<i>Cydia nigricana</i>	2015
Spruce-seed Moth	<i>Cydia strobilella</i>	2021
Codling Moth	<i>Cydia pomonella</i>	2020
Marbled Piercer	<i>Cydia splendana</i>	2018
Red Piercer	<i>Lathronympha strigana</i>	2018
Plum Fruit Piercer	<i>Grapholita funebrana</i>	2020
Orange-spot Piercer	<i>Pammene aurana</i>	2019
Bee Moth	<i>Aphomia sociella</i>	2020
Wax Moth	<i>Galleria mellonella</i>	2019
Willow Knot-horn	<i>Sciota adelphella</i>	2020
Rosy-striped Knot-horn	<i>Oncocera semirubella</i>	2020
Gorse Knot-horn	<i>Pempelia genistella</i>	2020
Dark Pine Knot-horn	<i>Dioryctria abietella</i>	2019
Spindle Knot-horn	<i>Nephopterix angustella</i>	2020
Scarce Oak Knot-horn	<i>Acrobasis tumidana</i>	2020
Warted Knot-horn	<i>Acrobasis repandana</i>	2020
Grey Knot-horn	<i>Acrobasis advenella</i>	2020
Marbled Knot-horn	<i>Acrobasis marmorea</i>	2020
Thistle Ermine	<i>Myelois circumvoluta</i>	2020
Ash-bark Knot-horn	<i>Euzophera pinguis</i>	2020
Saltmarsh Knot-horn	<i>Ancylosis oblitella</i>	2020
Twin-barred Knot-horn	<i>Homoeosoma sinuella</i>	2020
Ermine Knot-horn	<i>Phycitodes binaevella</i>	2020
False Cacao Moth	<i>Ephestia unicolorella</i>	2018
Long-legged Tabby	<i>Synaphe punctalis</i>	2020
Double-striped Tabby	<i>Hypsopygia glaucinalis</i>	2018
Rosy Tabby	<i>Endotricha flammealis</i>	2020

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Straw-barred Pearl	<i>Pyrausta despicata</i>	2020
Small Purple & Gold	<i>Pyrausta aurata</i>	2020
Sulphur Pearl	<i>Sitochroa palealis</i>	2018
Elder Pearl	<i>Anania coronata</i>	2020
Fenland Pearl	<i>Anania perlucidalis</i>	2021
Ochreous Pearl	<i>Anania crocealis</i>	2020
Small Magpie	<i>Anania hortulata</i>	2018
European Corn-borer	<i>Ostrinia nubilalis</i>	2020
Rusty-dot Pearl	<i>Udea ferrugalis</i>	2020
Pale Straw Pearl	<i>Udea lutealis</i>	2018
Olive Pearl	<i>Udea olivalis</i>	2019
Mother of Pearl	<i>Pleuroptya ruralis</i>	2020
Olive-tree Pearl	<i>Palpita vitrealis</i>	2020
Long-legged China-mark	<i>Dolicharthria punctalis</i>	2020
Rush Veneer	<i>Nomophila noctuella</i>	2020
Starry Pearl	<i>Cynaeda dentalis</i>	2020
Garden Pebble	<i>Evergestis forficalis</i>	2021
Marbled Yellow Pearl	<i>Evergestis extimalis</i>	2019
Dark Bordered Pearl	<i>Evergestis limbata</i>	2020
Large Grey	<i>Scoparia subfusca</i>	2018
Meadow Grey	<i>Scoparia pyralella</i>	2020
Little Grey	<i>Eudonia lacustrata</i>	2020
Narrow-winged Grey	<i>Eudonia angustea</i>	2019
Marsh Grey	<i>Eudonia pallida</i>	2020
Reed Veneer	<i>Chilo phragmitella</i>	2018
Bulrush Veneer	<i>Calamotropha paludella</i>	2020
Garden Grass-veneer	<i>Chrysoteuchia culmella</i>	2022
Inlaid Grass-veneer	<i>Crambus pascuella</i>	2020
Hook-streak Grass-veneer	<i>Crambus lathoniellus</i>	2018
Satin Grass-veneer	<i>Crambus perlella</i>	2020
Common Grass-veneer	<i>Agriphila tristella</i>	2020
Pale-streak Grass-veneer	<i>Agriphila selasella</i>	2020
Straw Grass-veneer	<i>Agriphila straminella</i>	2016
Elbow-stripe Grass-veneer	<i>Agriphila geniculea</i>	2020
Pearl Grass-veneer	<i>Catoptria pinella</i>	2020
Chequered Grass-veneer	<i>Catoptria falsella</i>	2020
Little Grass-veneer	<i>Platytes cerussella</i>	2019
Brown China-mark	<i>Elophila nymphaeata</i>	2020
Water Veneer	<i>Acentria ephemerella</i>	2020
Small China-mark	<i>Cataclysta lemnata</i>	2020
Ringed China-mark	<i>Parapoynx stratiotata</i>	2020
Giant Water-veneer	<i>Schoenobius gigantella</i>	2021
Pale Water-veneer	<i>Donacaula forficella</i>	2019
Orange Swift	<i>Triodia sylvina</i>	2020
Common Swift	<i>Korscheltellus lupulina</i>	2021
Ghost Moth	<i>Hepialus humuli</i>	2018
Leopard Moth	<i>Zeuzera pyrina</i>	2018
Hornet Moth	<i>Sesia apiformis</i>	2022
Lunar Hornet Moth	<i>Sesia bembeciformis</i>	2020
Six-spot Burnet	<i>Zygaena filipendulae</i>	2000
Oak Hook-tip	<i>Watsonalla binaria</i>	2020
Pebble Hook-tip	<i>Drepana falcataria</i>	2021
Chinese Character	<i>Cilix glaucata</i>	2020
Peach Blossom	<i>Thyatira batis</i>	2021

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Buff Arches	<i>Habrosyne pyritoides</i>	2018
Figure of Eighty	<i>Tethea ocularis</i>	2021
Poplar Lutestring	<i>Tethea or</i>	2020
Satin Lutestring	<i>Tetheella fluctuosa</i>	2019
Common Lutestring	<i>Ochropacha duplaris</i>	2020
The Lackey	<i>Malacosoma neustria</i>	2020
Oak Eggar	<i>Lasiocampa quercus</i>	2020
The Drinker	<i>Euthrix potatoria</i>	2020
Lime Hawk-moth	<i>Mimas tiliae</i>	2021
Eyed Hawk-moth	<i>Smerinthus ocellata</i>	2018
Poplar Hawk-moth	<i>Laothoe populi</i>	2021
Privet Hawk-moth	<i>Sphinx ligustri</i>	2020
Hummingbird Hawk-moth	<i>Macroglossum stellatarum</i>	2017
Elephant Hawk-moth	<i>Deilephila elpenor</i>	2020
Small Elephant Hawk-moth	<i>Deilephila porcellus</i>	2020
Least Carpet	<i>Idaea rusticata</i>	2020
Dwarf Cream Wave	<i>Idaea fuscovenosa</i>	2020
Small Dusty Wave	<i>Idaea seriata</i>	2019
Satin Wave	<i>Idaea subsericeata</i>	2021
Single-dotted Wave	<i>Idaea dimidiata</i>	2020
Treble Brown Spot	<i>Idaea trigeminata</i>	2019
Small Fan-footed Wave	<i>Idaea biselata</i>	2020
Riband Wave	<i>Idaea aversata</i>	2020
Portland Ribbon Wave	<i>Idaea degeneraria</i>	2020
Sub-angled Wave	<i>Scopula nigropunctata</i>	2020
Mullein Wave	<i>Scopula marginepunctata</i>	2020
Small Blood-vein	<i>Scopula imitaria</i>	2020
Blood-Vein	<i>Timandra comae</i>	2021
Maiden's Blush	<i>Cyclophora punctaria</i>	2020
Clay Triple-lines	<i>Cyclophora linearia</i>	2018
The Vestal	<i>Rhodometra sacraria</i>	2020
Shaded Broad-bar	<i>Scotopteryx chenopodiata</i>	2020
Garden Carpet	<i>Xanthorhoe fluctuata</i>	2021
Red Twin-spot Carpet	<i>Xanthorhoe spadicearia</i>	2021
Dark-barred Twin-spot Carpet	<i>Xanthorhoe ferrugata</i>	2016
Silver-ground Carpet	<i>Xanthorhoe montanata</i>	2007
Ruddy Carpet	<i>Catarhoe rubidata</i>	2020
Yellow Shell	<i>Camptogramma bilineata</i>	2020
Common Carpet	<i>Epirrhoe alternata</i>	2020
July Highflyer	<i>Hydriomena furcata</i>	2020
Cypress Carpet	<i>Thera cupressata</i>	2020
Blue-bordered Carpet	<i>Plemyria rubiginata</i>	2020
Barred Yellow	<i>Cidaria fulvata</i>	2020
Purple Bar	<i>Cosmorhoe ocellata</i>	2020
Barred Straw	<i>Gandaritis pyraliata</i>	2020
Small Phoenix	<i>Ecliptopera silaceata</i>	2020
Common Marbled Carpet	<i>Dysstroma truncata</i>	2021
Green Carpet	<i>Colostygia pectinataria</i>	2021
Cryptic Fern	<i>Horisme radicularia</i>	2020
Pretty Chalk Carpet	<i>Melanthia procellata</i>	2017
Double-striped Pug	<i>Gymnoscelis rufifasciata</i>	2020
The V-Pug	<i>Chloroclystis v-ata</i>	2020
Green Pug	<i>Pasiphila rectangulata</i>	2020
Haworth's Pug	<i>Eupithecia haworthiata</i>	2018

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Channel Islands Pug	<i>Eupithecia ultimaria</i>	2020
White-spotted Pug	<i>Eupithecia tripunctaria</i>	2018
Plain Pug	<i>Eupithecia simplicata</i>	2020
Lime-speck Pug	<i>Eupithecia centaureata</i>	2021
Wormwood Pug	<i>Eupithecia absinthiata</i>	2020
Currant Pug	<i>Eupithecia assimilata</i>	2018
Common Pug	<i>Eupithecia vulgata</i>	2020
Mottled Pug	<i>Eupithecia exiguata</i>	2007
Yarrow Pug	<i>Eupithecia millefoliata</i>	2018
Tawny Speckled Pug	<i>Eupithecia icterata</i>	2020
Bordered Pug	<i>Eupithecia succenturiata</i>	2018
Treble-bar	<i>Aplocera plagiata</i>	2019
The Seraphim	<i>Lobophora halterata</i>	2021
Yellow-barred Brindle	<i>Acasis viretata</i>	2020
Clouded Border	<i>Lomaspilis marginata</i>	2021
Peacock Moth	<i>Macaria notata</i>	2019
Sharp-angled Peacock	<i>Macaria alternata</i>	2020
Tawny-barred Angle	<i>Macaria liturata</i>	2020
Latticed Heath	<i>Chiasmia clathrata</i>	2018
Scorched Wing	<i>Plagodis dolabraria</i>	2020
Brimstone Moth	<i>Opisthograptis luteolata</i>	2020
Bordered Beauty	<i>Epione repandaria</i>	2020
Canary-shouldered Thorn	<i>Ennomos alniaria</i>	2020
Dusky Thorn	<i>Ennomos fuscantaria</i>	2020
Early Thorn	<i>Selenia dentaria</i>	2020
Scalloped Oak	<i>Crocallis elinguaris</i>	2020
Swallow-tailed Moth	<i>Ourapteryx sambucaria</i>	2020
Peppered Moth	<i>Biston betularia</i>	2020
Waved Umber	<i>Menophra abruptaria</i>	2017
Willow Beauty	<i>Peribatodes rhomboidaria</i>	2021
Mottled Beauty	<i>Alcis repandata</i>	2020
Pale Oak Beauty	<i>Hypomecis punctinalis</i>	2018
Common White Wave	<i>Cabera pusaria</i>	2020
Common Wave	<i>Cabera exanthemata</i>	2021
Clouded Silver	<i>Lomographa temerata</i>	2021
Early Moth	<i>Theria primaria</i>	2020
Light Emerald	<i>Campaea margaritaria</i>	2021
Yellow Belle	<i>Aspitates ochrearia</i>	2017
Rest Harrow	<i>Aplasta ononaria</i>	2020
Grass Emerald	<i>Pseudoterpna pruinata</i>	2018
Large Emerald	<i>Geometra papilionaria</i>	2020
Small Emerald	<i>Hemistola chrysoprasaria</i>	2020
Sussex Emerald	<i>Thalera fimbrialis</i>	2020
Common Emerald	<i>Hemithea aestivaria</i>	2020
Oak Processionary	<i>Thaumetopoea processionea</i>	2020
Puss Moth	<i>Cerura vinula</i>	2007
Sallow Kitten	<i>Furcula furcula</i>	2020
Poplar Kitten	<i>Furcula bifida</i>	2021
Iron Prominent	<i>Notodonta dromedarius</i>	2020
Pebble Prominent	<i>Notodonta ziczac</i>	2020
Swallow Prominent	<i>Pheosia tremula</i>	2021
Pale Prominent	<i>Pterostoma palpina</i>	2021
Buff-tip	<i>Phalera bucephala</i>	2020
Chocolate-tip	<i>Clostera curtula</i>	2017

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The Herald	<i>Scoliopteryx libatrix</i>	2018
Straw Dot	<i>Rivula sericealis</i>	2020
The Snout	<i>Hypena proboscidalis</i>	2020
White Satin Moth	<i>Leucoma salicis</i>	2020
Brown-tail	<i>Euproctis chrysorrhoea</i>	2020
Yellow-tail	<i>Euproctis similis</i>	2018
Pale Tussock	<i>Calliteara pudibunda</i>	2019
Buff Ermine	<i>Spilosoma lutea</i>	2020
White Ermine	<i>Spilosoma lubricipeda</i>	2021
Water Ermine	<i>Spilosoma urticae</i>	2018
Ruby Tiger	<i>Phragmatobia fuliginosa</i>	2020
Garden Tiger	<i>Arctia caja</i>	2018
Jersey Tiger	<i>Euplagia quadripunctaria</i>	2020
The Cinnabar	<i>Tyria jacobaeae</i>	2022
Rosy Footman	<i>Miltochrista miniata</i>	2020
Round-winged Muslin	<i>Thumatha senex</i>	2018
Four-spotted Footman	<i>Lithosia quadra</i>	2018
Red-necked Footman	<i>Atolmis rubricollis</i>	2019
Dingy Footman	<i>Eilema griseola</i>	2020
Common Footman	<i>Eilema lurideola</i>	2020
Scarce Footman	<i>Eilema complana</i>	2020
Hoary Footman	<i>Eilema caniola</i>	2016
Orange Footman	<i>Eilema sororcula</i>	2020
The Fan-foot	<i>Herminia tarsipennalis</i>	2020
Small Fan-foot	<i>Herminia grisealis</i>	2019
Plumed Fan-foot	<i>Pechipogo plumigeralis</i>	2018
Pinion-streaked Snout	<i>Schrankia costaestrigalis</i>	2016
The Blackneck	<i>Lygephila pastinum</i>	2018
Beautiful Hook-tip	<i>Laspeyria flexula</i>	2020
Mother Shipton	<i>Euclidia mi</i>	2021
The Spectacle	<i>Abrostola tripartita</i>	2020
Dark Spectacle	<i>Abrostola triplasia</i>	2018
Golden Twin-spot	<i>Chrysodeixis chalcites</i>	2020
Burnished Brass	<i>Diachrysia chrysis</i>	2020
Silver Y	<i>Autographa gamma</i>	2022
Plain Golden Y	<i>Autographa jota</i>	2018
Gold Spot	<i>Plusia festucae</i>	2020
Marbled White Spot	<i>Deltote pygarga</i>	2020
Silver Barred	<i>Deltote bankiana</i>	2018
The Four-spotted	<i>Tyta luctuosa</i>	2018
Reed Dagger	<i>Simyra albovenosa</i>	2020
Dark/Grey Dagger	<i>Acronicta tridens/psi agg.</i>	2020
The Sycamore	<i>Acronicta aceris</i>	2020
Knot Grass	<i>Acronicta rumicis</i>	2020
Poplar Grey	<i>Subacronicta megacephala</i>	2021
The Coronet	<i>Craniophora ligustri</i>	2021
The Mullein	<i>Cucullia verbasci</i>	2020
Mouse Moth	<i>Amphipyra tragopoginis</i>	2018
Bordered Sallow	<i>Pyrrhia umbra</i>	2020
Tree-lichen Beauty	<i>Cryphia algae</i>	2020
Marbled Green	<i>Nyctobrya muralis</i>	2020
Rosy Marbled	<i>Elaphria venustula</i>	2020
Mottled Rustic	<i>Caradrina morpheus</i>	2021
Pale Mottled Willow	<i>Caradrina clavipalpis</i>	2007

Common name	Scientific name	Last recorded
The Uncertain	<i>Hoplodrina octogenaria</i>	2020
The Rustic	<i>Hoplodrina blanda</i>	2020
Vine's Rustic	<i>Hoplodrina ambigua</i>	2020
Silky Wainscot	<i>Chilodes maritima</i>	2020
Treble Lines	<i>Charanyca trigrammica</i>	2021
Brown Rustic	<i>Rusina ferruginea</i>	2020
Bird's Wing	<i>Dypterygia scabriuscula</i>	2018
Straw Underwing	<i>Thalpophila matura</i>	2020
Angle Shades	<i>Phlogophora meticulosa</i>	2020
Dusky Sallow	<i>Eremobia ochroleuca</i>	2020
Rosy Rustic	<i>Hydraecia micacea</i>	2020
Flounced Rustic	<i>Luperina testacea</i>	2020
Fen Wainscot	<i>Arenostola phragmitidis</i>	2020
Twin-spotted Wainscot	<i>Lenisa geminipuncta</i>	2018
Small Wainscot	<i>Denticucullus pygmina</i>	2018
Webb's Wainscot	<i>Globia sparganii</i>	2020
Dusky Brocade	<i>Apamea remissa</i>	2018
Rustic Shoulder-knot	<i>Apamea sordens</i>	2021
Small Clouded Brindle	<i>Apamea unanims</i>	2019
Dark Arches	<i>Apamea monoglypha</i>	2020
Light Arches	<i>Apamea lithoxylaea</i>	2021
Double Lobed	<i>Lateroligia ophiogramma</i>	2018
Common Rustic	<i>Mesapamea secalis</i>	2020
Cloaked Minor	<i>Mesoligia furuncula</i>	2020
Marbled Minor agg.	<i>Oligia agg.</i>	2020
Middle-barred Minor	<i>Oligia fasciuncula</i>	2019
The Sallow	<i>Cirrhia icteritia</i>	2008
Lunar Underwing	<i>Omphaloscelis lunosa</i>	2008
The Chestnut	<i>Conistra vaccinii</i>	2019
Blair's Shoulder-knot	<i>Lithophane leautieri</i>	2008
The Satellite	<i>Eupsilia transversa</i>	2008
The Olive	<i>Ipimorpha subtusa</i>	2018
Lesser-spotted Pinion	<i>Cosmia affinis</i>	2020
The Dun-bar	<i>Cosmia trapezina</i>	2020
The Suspected	<i>Parastichtis suspecta</i>	2020
Dingy Shears	<i>Apterogenum ypsilon</i>	2020
Brindled Green	<i>Dryobotodes eremita</i>	2008
Feathered Brindle	<i>Aporophyla australis</i>	2008
Deep-brown Dart	<i>Aporophyla lutulenta</i>	2008
Black Rustic	<i>Aporophyla nigra</i>	2008
Large Ranunculus	<i>Polymixis flavicincta</i>	2008
Common Quaker	<i>Orthosia cerasi</i>	2017
Hebrew Character	<i>Orthosia gothica</i>	2021
Hedge Rustic	<i>Tholera cespitis</i>	2008
The Nutmeg	<i>Anarta trifolii</i>	2018
Grey Arches	<i>Polia nebulosa</i>	2018
Light Brocade	<i>Lacanobia w-latinum</i>	2021
Bright-line Brown-eye	<i>Lacanobia oleracea</i>	2020
Dot Moth	<i>Melanchra persicariae</i>	2018
The Shears	<i>Hada plebeja</i>	2019
Broad-barred White	<i>Hecatera bicolorata</i>	2020
Marbled Coronet	<i>Hadena confusa</i>	2020
Tawny Shears	<i>Hadena perplexa</i>	2020
Common Wainscot	<i>Mythimna pallens</i>	2021

Common name	Scientific name	Last recorded
Smoky Wainscot	<i>Mythimna impura</i>	2019
White-point	<i>Mythimna albipuncta</i>	2021
The Clay	<i>Mythimna ferrago</i>	2020
L-album Wainscot	<i>Mythimna l-album</i>	2020
Shoulder-striped Wainscot	<i>Leucania comma</i>	2020
Obscure Wainscot	<i>Leucania obsoleta</i>	2021
White-line Dart	<i>Euxoa tritici</i>	2018
Light Feathered Rustic	<i>Agrotis cinerea</i>	2021
Heart and Dart	<i>Agrotis exclamationis</i>	2021
Turnip Moth	<i>Agrotis segetum</i>	2021
Heart and Club	<i>Agrotis clavis</i>	2019
Shuttle-shaped Dart	<i>Agrotis puta</i>	2021
Dark Sword-grass	<i>Agrotis ipsilon</i>	2020
The Flame	<i>Axylia putris</i>	2020
Flame Shoulder	<i>Ochropleura plecta</i>	2020
Small Square-spot	<i>Diarsia rubi</i>	2020
Large Yellow Underwing	<i>Noctua pronuba</i>	2021
Broad-bordered Yellow Underwing	<i>Noctua fimbriata</i>	2019
Lesser Yellow Underwing	<i>Noctua comes</i>	2020
Least Yellow Underwing	<i>Noctua interjecta</i>	2020
Langmaid's Yellow Underwing	<i>Noctua janthina</i>	2020
Lesser Br.-bordered Y. Underwing	<i>Noctua janthe</i>	2020
Square-spot Rustic	<i>Xestia xanthographa</i>	2020
Six-striped Rustic	<i>Xestia sexstrigata</i>	2020
Setaceous Hebrew Character	<i>Xestia c-nigrum</i>	2020
Double Square-spot	<i>Xestia triangulum</i>	2019
Autumnal Rustic	<i>Eugnorisma glareosa</i>	2008
Kent Black Arches	<i>Meganola albula</i>	2020
Short-cloaked Moth	<i>Nola cucullatella</i>	2020
Oak Nycteoline	<i>Nycteola revayana</i>	2018
Cream-bordered Green Pea	<i>Earias clorana</i>	2020

Hymenoptera (Wasps, Bees and Ants): 25 species

Common name	Scientific name	Last recorded
Red Banded Sand Wasp	<i>Ammophila sabulosa</i>	2005
Honey Bee	<i>Apis mellifera</i>	2005
Large Red-tailed Bumble Bee	<i>Bombus lapidarius</i>	2014
White-tailed Bumble Bee	<i>Bombus lucorum</i>	1977
Common Carder Bee	<i>Bombus pascuorum</i>	1973
Early Bumble Bee	<i>Bombus pratorum</i>	1973
Buff-tailed Bumble Bee	<i>Bombus terrestris</i>	2016
Ornate-tailed Digger Wasp	<i>Cerceris rybyensis</i>	2005
-	<i>Crossocerus capitosus</i>	2005
-	<i>Formica cunicularia</i>	1997
Slender Mining Bee	<i>Lasioglossum calceatum</i>	1971
-	<i>Lasioglossum leucozonium</i>	2005
Least Mining Bee	<i>Lasioglossum minutissimum</i>	1971
Brassy Mining Bee	<i>Lasioglossum morio</i>	2005
Small Black Ant	<i>Lasius niger</i>	2005
-	<i>Leptothorax tuberum</i>	1997
-	<i>Myrmica specioides</i>	1971
Bee Wolf	<i>Philanthus triangulum</i>	2005
-	<i>Priocnemis exaltata</i>	2005

Common name	Scientific name	Last recorded
-	<i>Pristiphora pallipes</i>	2005
Barbut's Cuckoo Bee	<i>Psithyrus barbutellus</i>	1977
-	<i>Sphecodes fasciatus</i>	1997
-	<i>Sphecodes puncticeps</i>	1971
-	<i>Sphecodes reticulatus</i>	2005
-	<i>Tenthredo scrophulariae</i>	2011

Mollusca (Molluscs): 30 species

Common name	Scientific name	Last recorded
White-lipped Ramshorn	<i>Anisus leucostoma</i>	1992
Whirlpool Ramshorn	<i>Anisus vortex</i>	1992
Nautilus Ramshorn	<i>Armiger crista</i>	1992
Leach's Bithynia	<i>Bithynia leachii</i>	1992
Common Bithynia	<i>Bithynia tentaculata</i>	1992
White Lipped Snail	<i>Cepaea hortensis</i>	1992
Brown-lipped Snail	<i>Cepaea nemoralis</i>	2005
Striped Snail	<i>Ceruella virgata</i>	2005
Rounded Snail	<i>Discus rotundatus</i>	2005
White Ramshorn	<i>Gyraulus albus</i>	1992
-	<i>Hippeutis complanatus</i>	1992
-	<i>Hydrobia ventrosa</i> agg.	1992
Marsh Pond Snail	<i>Lymnaea palustris</i>	1992
Wandering Snail	<i>Lymnaea peregra</i>	1992
Great Pond Snail	<i>Lymnaea stagnalis</i>	1992
Dwarf Pond Snail	<i>Lymnaea truncatula</i>	1992
Kentish Snail	<i>Monacha cantiana</i>	1992
Pfeiffer's Amber Snail	<i>Oxyloma pfeifferi</i>	1992
-	<i>Physa acuta</i>	1992
-	<i>Pisidium milium</i>	1992
-	<i>Pisidium obtusale</i>	1992
-	<i>Pisidium pseudosphaerium</i>	1992
-	<i>Planorbis planorbis</i>	1992
Jenkins' Spire Snail	<i>Potamopyrgus jenkinsi</i>	1992
-	<i>Sphaerium corneum</i>	1992
-	<i>Sphaerium lacustre</i>	1992
-	<i>Succinea putris</i>	1992
Flat Valve Snail	<i>Valvata cristata</i>	1992
Valve Snail	<i>Valvata piscinalis</i>	1992
-	<i>Vitrina pellucida</i>	2005

Lichens: 8 species

Common name	Scientific name	Last recorded
-	<i>Cladonia ciliata</i>	1995
-	<i>Cladonia rangiformis</i>	1995
-	<i>Diploicia canescens</i>	2005
Oak Moss	<i>Evernia prunastri</i>	2005
-	<i>Lepraria incana</i>	2000
-	<i>Physcia adscendens</i>	2005
-	<i>Physcia tenella</i>	2005
-	<i>Xanthoria parietina</i>	2005

Mosses: 2 species

Common name	Scientific name	Last recorded
Whitish Feather-moss	<i>Brachythecium albicans</i>	2006
Pointed Spear-moss	<i>Calliergon cuspidatum</i>	2005

***Pteridophyta* (Ferns and Horsetails): 5 species**

Common name	Scientific name	Last recorded
Black Spleenwort	<i>Asplenium adiantum-nigrum</i>	1991
Wall-rue	<i>Asplenium ruta-muraria</i>	1991
Male-fern	<i>Dryopteris filix-mas</i>	2013
Field Horsetail	<i>Equisetum arvense</i>	2005
Marsh Horsetail	<i>Equisetum palustre</i>	1993

Flowering Plants: 357 species

Common name	Scientific name	Last recorded
Yarrow	<i>Achillea millefolium</i>	2013
Agrimony	<i>Agrimonia eupatoria</i>	2013
Creeping Bent	<i>Agrostis stolonifera</i>	2013
Early Hair-grass	<i>Aira praecox</i>	2013
Bugle	<i>Ajuga reptans</i>	1993
Water-plantain	<i>Alisma plantago-aquatica</i>	1993
Garlic Mustard	<i>Alliaria petiolata</i>	1991
Wild Onion	<i>Allium vineale</i>	2000
Alder	<i>Alnus glutinosa</i>	2005
Grey Alder	<i>Alnus incana</i>	2005
Marsh Foxtail	<i>Alopecurus geniculatus</i>	2005
Black-grass	<i>Alopecurus myosuroides</i>	1991
Meadow Foxtail	<i>Alopecurus pratensis</i>	1993
Scarlet Pimpernel	<i>Anagallis arvensis</i>	2005
Barren Brome	<i>Anisantha sterilis</i>	1991
Sweet Vernal-grass	<i>Anthoxanthum odoratum</i>	1993
Bur Chervil	<i>Anthriscus caucalis</i>	1991
Cow Parsley	<i>Anthriscus sylvestris</i>	1995
Parsley Piert	<i>Aphanes arvensis agg.</i>	1991
Slender Parsley-piert	<i>Aphanes inexpectata</i>	1991
Wild Celery	<i>Apium graveolens</i>	1991
Fool's-water-cress	<i>Apium nodiflorum</i>	1994
Thale Cress	<i>Arabidopsis thaliana</i>	1991
Lesser Burdock	<i>Arctium minus</i>	1991
Thyme-Leaved Sandwort	<i>Arenaria serpyllifolia</i>	1991
Slender Sandwort	<i>Arenaria serpyllifolia leptoclados</i>	1991
Sea Pink	<i>Armeria maritima</i>	2013
False Oat-grass	<i>Arrhenatherum elatius</i>	2006
Mugwort	<i>Artemisia vulgaris</i>	2013
Lords-and-Ladies	<i>Arum maculatum</i>	1991
Sea Aster	<i>Aster tripolium</i>	2013
Common Orache	<i>Atriplex patula</i>	2004
Spear-leaved Orache	<i>Atriplex prostrata</i>	2000
Wild-oat	<i>Avena fatua</i>	1991
Black Horehound	<i>Ballota nigra</i>	2005
American Winter-cress	<i>Barbarea verna</i>	1991
Winter-cress	<i>Barbarea vulgaris</i>	1991

Common name	Scientific name	Last recorded
Daisy	<i>Bellis perennis</i>	2006
Sea Beet	<i>Beta vulgaris</i>	2005
Silver Birch	<i>Betula pendula</i>	2005
Sea Club-rush	<i>Bolboschoenus maritimus</i>	2013
Borage	<i>Borago officinalis</i>	1991
Black Mustard	<i>Brassica nigra</i>	2005
Lesser Soft-Brome	<i>Bromus hordeaceus</i>	2006
Common Soft-brome	<i>Bromus hordeaceus hordeaceus</i>	1991
Lesser Soft-brome	<i>Bromus x subsp. pseudothominei</i>	1991
White Bryony	<i>Bryonia dioica</i>	2013
Butterfly-bush	<i>Buddleja davidii</i>	2013
Sea Rocket	<i>Cakile maritima</i>	2013
Blunt-fruited Water-starwort	<i>Callitriche obtusangula</i>	1994
Hedge Bindweed	<i>Calystegia sepium</i>	2005
Large Bindweed	<i>Calystegia silvatica</i>	2013
Sea Bindweed	<i>Calystegia soldanella</i>	2013
Shepherd's-purse	<i>Capsella bursa-pastoris</i>	1991
Hairy Bitter-cress	<i>Cardamine hirsuta</i>	1991
Cuckooflower	<i>Cardamine pratensis</i>	1993
Wetted Thistle	<i>Carduus crispus</i>	1991
Slender Thistle	<i>Carduus tenuiflorus</i>	2013
Lesser Pond-sedge	<i>Carex acutiformis</i>	2005
Distant Sedge	<i>Carex distans</i>	1993
Brown Sedge	<i>Carex disticha</i>	1991
Divided Sedge	<i>Carex divisa</i>	2006
Hairy Sedge	<i>Carex hirta</i>	2006
False Fox-sedge	<i>Carex otrubae</i>	1993
Pendulous Sedge	<i>Carex pendula</i>	2005
Spiked Sedge	<i>Carex spicata</i>	2013
Carline Thistle	<i>Carlina vulgaris</i>	2013
Sea Fern-grass	<i>Catapodium maritimum</i>	2000
Fern-grass	<i>Catapodium rigidum</i>	1991
Common Centaury	<i>Centaurium erythraea</i>	2013
Red Valerian	<i>Centranthus ruber</i>	2013
Mouse-Ear	<i>Cerastium</i>	1995
Sea Mouse-ear	<i>Cerastium diffusum</i>	1991
Common Mouse-ear	<i>Cerastium fontanum</i>	2006
Sticky Mouse-ear	<i>Cerastium glomeratum</i>	2006
Little Mouse-ear	<i>Cerastium semidecandrum</i>	2013
Snow-in-summer	<i>Cerastium tomentosum</i>	1991
Rigid Hornwort	<i>Ceratophyllum demersum</i>	1994
Rough Chervil	<i>Chaerophyllum temulum</i>	1991
Rosebay Willowherb	<i>Chamerion angustifolium</i>	2013
Fat-hen	<i>Chenopodium album</i>	2005
Many-seeded Goosefoot	<i>Chenopodium polyspermum</i>	2005
Red Goosefoot	<i>Chenopodium rubrum</i>	2004
Creeping Thistle	<i>Cirsium arvense</i>	2006
Spear Thistle	<i>Cirsium vulgare</i>	2013
Traveller's-joy	<i>Clematis vitalba</i>	2006
Danish Scurvygrass	<i>Cochlearia danica</i>	1991
Hemlock	<i>Conium maculatum</i>	2013
Field Bindweed	<i>Convolvulus arvensis</i>	2005
Canadian Fleabane	<i>Conyza canadensis</i>	2005
Lesser Swine-cress	<i>Coronopus didymus</i>	1991

Common name	Scientific name	Last recorded
Swine-cress	<i>Coronopus squamatus</i>	1991
Sea-kale	<i>Crambe maritima</i>	2013
Hawthorn	<i>Crataegus monogyna</i>	2013
Smooth Hawk's-beard	<i>Crepis capillaris</i>	2013
Beaked Hawk's-beard	<i>Crepis vesicaria</i>	2006
Rock Samphire	<i>Crithmum maritimum</i>	2013
Montbretia	<i>Crocsmia x crocosmiiflora</i>	2005
Ivy-leaved Toadflax	<i>Cymbalaria muralis</i>	1991
Crested Dog's-tail	<i>Cynosurus cristatus</i>	2005
Broom	<i>Cytisus scoparius</i>	2013
Cock's-foot	<i>Dactylis glomerata</i>	2006
Carrot	<i>Daucus carota</i>	2006
Foxglove	<i>Digitalis purpurea</i>	2013
Annual Wall-rocket	<i>Diplotaxis muralis</i>	1995
Perennial Wall-rocket	<i>Diplotaxis tenuifolia</i>	1991
Wild Teasel	<i>Dipsacus fullonum</i>	2005
Viper's-bugloss	<i>Echium vulgare</i>	2013
Common Spike-rush	<i>Eleocharis palustris</i>	2004
Sea Couch	<i>Elytrigia atherica</i>	2013
Common Couch	<i>Elytrigia repens</i>	2006
American Willowherb	<i>Epilobium ciliatum</i>	2005
Great Willowherb	<i>Epilobium hirsutum</i>	2013
Spear-leaved Willowherb	<i>Epilobium lanceolatum</i>	2013
Square-stalked Willowherb	<i>Epilobium tetragonum</i>	2000
Blue Fleabane	<i>Erigeron acer</i>	2013
Seaside Daisy	<i>Erigeron glaucus</i>	2000
Common Stork's-bill	<i>Erodium cicutarium</i>	2006
Common Whitlowgrass	<i>Erophila verna</i>	1991
Wallflower	<i>Erysimum cheiri</i>	1991
Sun Spurge	<i>Euphorbia helioscopia</i>	2005
Purple Spurge	<i>Euphorbia peplis</i>	2005
Japanese Knotweed	<i>Fallopia japonica</i>	1995
Tall Fescue	<i>Festuca arundinacea</i>	2013
Sheep's Fescue agg.	<i>Festuca ovina</i> agg.	2000
Red Fescue	<i>Festuca rubra</i>	2013
Red-tipped Cudweed	<i>Filago lutescens</i>	2006
Common Cudweed	<i>Filago vulgaris</i>	2013
Fennel	<i>Foeniculum vulgare</i>	1991
Ash	<i>Fraxinus excelsior</i>	2005
Goat's-rue	<i>Galega officinalis</i>	1991
Cleavers	<i>Galium aparine</i>	1995
Hedge Bedstraw	<i>Galium mollugo</i>	1995
Upright Hedge Bedstraw	<i>Galium mollugo</i> subsp. <i>erectum</i>	2013
Common Marsh-bedstraw	<i>Galium palustre</i>	1993
Cut-leaved Crane's-bill	<i>Geranium dissectum</i>	2013
Dove's-foot Crane's-bill	<i>Geranium molle</i>	2013
Small-flowered Crane's-bill	<i>Geranium pusillum</i>	1991
Hedgerow Crane's-bill	<i>Geranium pyrenaicum</i>	2013
Herb-Robert	<i>Geranium robertianum</i>	2013
Yellow Horned-poppy	<i>Glaucium flavum</i>	2000
Ground-ivy	<i>Glechoma hederacea</i>	1991
Floating Sweet-grass	<i>Glyceria fluitans</i>	1991
Reed Sweet-grass	<i>Glyceria maxima</i>	1991
Ivy	<i>Hedera helix</i>	1991

Common name	Scientific name	Last recorded
Atlantic Ivy	<i>Hedera hibernica</i>	2013
Hogweed	<i>Heracleum sphondylium</i>	2013
Hawkweed	<i>Hieracium</i>	1995
Hoary Mustard	<i>Hirschfeldia incana</i>	2006
Yorkshire-fog	<i>Holcus lanatus</i>	2006
Sea Sandwort	<i>Honckenya peploides</i>	2013
Wall Barley	<i>Hordeum murinum</i>	2000
Meadow Barley	<i>Hordeum secalinum</i>	1991
Hop	<i>Humulus lupulus</i>	2000
Frogbit	<i>Hydrocharis morsus-ranae</i>	1994
Perforate St John's-wort	<i>Hypericum perforatum</i>	1995
Cat's-ear	<i>Hypochaeris radicata</i>	2000
Ploughman's-spikenard	<i>Inula conyzae</i>	2013
Stinking Iris	<i>Iris foetidissima</i>	2013
Yellow Iris	<i>Iris pseudacorus</i>	1993
Hard Rush	<i>Juncus inflexus</i>	2013
Field Scabious	<i>Knautia arvensis</i>	2005
Crested Hair-grass	<i>Koeleria macrantha</i>	1991
Prickly Lettuce	<i>Lactuca serriola</i>	1991
Great Lettuce	<i>Lactuca virosa</i>	2013
White Dead-nettle	<i>Lamium album</i>	2013
Red Dead-nettle	<i>Lamium purpureum</i>	1991
Nipplewort	<i>Lapsana communis</i>	1991
Broad-leaved Everlasting-pea	<i>Lathyrus latifolius</i>	1995
Grass Vetchling	<i>Lathyrus nissolia</i>	2013
Meadow Vetchling	<i>Lathyrus pratensis</i>	2013
Fat Duckweed	<i>Lemna gibba</i>	2004
Common Duckweed	<i>Lemna minor</i>	1991
Least Duckweed	<i>Lemna minuta</i>	1991
Autumn Hawkbit	<i>Leontodon autumnalis</i>	2005
Lesser Hawkbit	<i>Leontodon saxatilis</i>	2000
Hoary Cress	<i>Lepidium draba</i>	2013
Oxeye Daisy	<i>Leucanthemum vulgare</i>	2006
Shasta Daisy	<i>Leucanthemum x superbum</i>	2005
Purple Toadflax	<i>Linaria purpurea</i>	2005
Italian Rye-grass	<i>Lolium multiflorum</i>	1991
Perennial Rye-grass	<i>Lolium perenne</i>	2013
Honeysuckle	<i>Lonicera periclymenum</i>	1991
Common Bird's-foot-trefoil	<i>Lotus corniculatus</i>	2013
Oregon-grape	<i>Mahonia aquifolium</i>	1995
Apple	<i>Malus domestica</i>	1991
Common Mallow	<i>Malva sylvestris</i>	2013
Pineappleweed	<i>Matricaria discoidea</i>	1991
Scented Mayweed	<i>Matricaria recutita</i>	2013
Hoary Stock	<i>Matthiola incana</i>	2013
Spotted Medick	<i>Medicago arabica</i>	2013
Black Medick	<i>Medicago lupulina</i>	2013
White Melilot	<i>Melilotus albus</i>	2005
Tall Melilot	<i>Melilotus altissimus</i>	2005
Ribbed Melilot	<i>Melilotus officinalis</i>	2005
Balm	<i>Melissa officinalis</i>	1991
Annual Mercury	<i>Mercurialis annua</i>	2013
Upright Chickweed	<i>Moenchia erecta</i>	1991
Blinks	<i>Montia fontana</i>	1991

Common name	Scientific name	Last recorded
Garden Grape-hyacinth	<i>Muscari armeniacum</i>	1991
Field Forget-me-not	<i>Myosotis arvensis</i>	2005
Early Forget-me-not	<i>Myosotis ramosissima</i>	1991
Water Forget-me-not	<i>Myosotis scorpioides</i>	1994
Spiked Water-milfoil	<i>Myriophyllum spicatum</i>	1991
Daffodil	<i>Narcissus</i>	1991
Water Cress	<i>Nasturtium officinale</i> agg.	1991
Fine-leaved Water-dropwort	<i>Oenanthe aquatica</i>	2004
Tubular Water-dropwort	<i>Oenanthe fistulosa</i>	1994
Common Evening-primrose	<i>Oenothera biennis</i>	1995
Bee Orchid	<i>Ophrys apifera</i>	2019
Common Poppy	<i>Papaver rhoeas</i>	2005
Opium Poppy	<i>Papaver somniferum</i>	2005
Hard-grass	<i>Parapholis strigosa</i>	2000
Wild Parsnip	<i>Pastinaca sativa</i>	2013
Green Alkanet	<i>Pentaglottis sempervirens</i>	2013
Pale Persicaria	<i>Persicaria lapathifolia</i>	1991
Redshank	<i>Persicaria maculosa</i>	1991
Corn Parsley	<i>Petroselinum segetum</i>	1991
Smaller Cat's-tail	<i>Phleum bertolonii</i>	2000
Common Reed	<i>Phragmites australis</i>	2005
Bristly Oxtongue	<i>Picris echioides</i>	2005
Hawkweed Oxtongue	<i>Picris hieracioides</i>	1995
Mouse-ear-hawkweed	<i>Pilosella officinarum</i>	1995
Buck's-horn Plantain	<i>Plantago coronopus</i>	2013
Ribwort Plantain	<i>Plantago lanceolata</i>	2006
Greater Plantain	<i>Plantago major</i>	2006
Annual Meadow-grass	<i>Poa annua</i>	2006
Bulbous Meadow-grass	<i>Poa bulbosa</i>	2006
Spreading Meadow-grass	<i>Poa humilis</i>	2013
Early Meadow-grass	<i>Poa infirma</i>	2012
Smooth Meadow-grass	<i>Poa pratensis</i>	2006
Rough Meadow-grass	<i>Poa trivialis</i>	2013
Equal-leaved Knotgrass	<i>Polygonum arenastrum</i>	2005
Knotgrass agg.	<i>Polygonum aviculare</i> agg.	2005
Annual Beard-grass	<i>Polypogon monspeliensis</i>	2016
White Poplar	<i>Populus alba</i>	2005
Grey Poplar	<i>Populus x canescens</i>	2005
Fennel Pondweed	<i>Potamogeton pectinatus</i>	2005
Silverweed	<i>Potentilla anserina</i>	2005
Creeping Cinquefoil	<i>Potentilla reptans</i>	2013
Selfheal	<i>Prunella vulgaris</i>	2013
Wild Cherry	<i>Prunus avium</i>	1991
Wild Plum	<i>Prunus domestica</i>	2005
Blackthorn	<i>Prunus spinosa</i>	2013
Reflexed Saltmarsh-Grass	<i>Puccinellia distans</i>	2000
Common Fleabane	<i>Pulicaria dysenterica</i>	2013
Evergreen Oak	<i>Quercus ilex</i>	1995
Pedunculate Oak	<i>Quercus robur</i>	2005
Meadow Buttercup	<i>Ranunculus acris</i>	1993
Bulbous Buttercup	<i>Ranunculus bulbosus</i>	2013
Lesser Celandine	<i>Ranunculus ficaria</i>	1991
Creeping Buttercup	<i>Ranunculus repens</i>	2005
Celery-leaved Buttercup	<i>Ranunculus sceleratus</i>	1991

Common name	Scientific name	Last recorded
Wild Mignonette	<i>Reseda lutea</i>	2013
Weld	<i>Reseda luteola</i>	2013
Narrow-fruited Water-cress	<i>Rorippa microphylla</i>	1991
Water-cress	<i>Rorippa nasturtium-aquaticum</i>	1994
Dog Rose	<i>Rosa canina</i> agg.	2013
Japanese Rose	<i>Rosa rugosa</i>	2013
Bramble	<i>Rubus fruticosus</i> agg.	2013
Bramble	<i>Rubus ulmifolius</i>	1991
Common Sorrel	<i>Rumex acetosa</i>	2006
Sheep's Sorrel	<i>Rumex acetosella</i>	1995
Clustered Dock	<i>Rumex conglomeratus</i>	1991
Curled Dock	<i>Rumex crispus</i>	2006
Water Dock	<i>Rumex hydrolapathum</i>	1991
Broad-leaved Dock	<i>Rumex obtusifolius</i>	2006
Fiddle Dock	<i>Rumex pulcher</i>	2013
Wood Dock	<i>Rumex sanguineus</i>	2000
Annual Pearlwort	<i>Sagina apetala</i>	1991
Procumbent Pearlwort	<i>Sagina procumbens</i>	2000
White Willow	<i>Salix alba</i>	2005
Willow	<i>Salix caprea</i>	2005
Common Sallow	<i>Salix cinerea</i>	1995
Rusty Willow	<i>Salix cinerea</i> subsp. <i>oleifolia</i>	2005
Crack-willow	<i>Salix fragilis</i>	1991
Osier	<i>Salix viminalis</i>	2005
Hybrid Crack-willow	<i>Salix x rubens</i>	1991
Wild Clary	<i>Salvia verbenaca</i>	1991
Elder	<i>Sambucus nigra</i>	2013
Grey Club-rush	<i>Schoenoplectus tabernaemontani</i>	2005
Water Figwort	<i>Scrophularia auriculata</i>	2013
Biting Stonecrop	<i>Sedum acre</i>	1991
White Stonecrop	<i>Sedum album</i>	2013
English Stonecrop	<i>Sedum anglicum</i>	1991
Hoary Ragwort	<i>Senecio erucifolius</i>	2013
Common Ragwort	<i>Senecio jacobaea</i>	2005
Oxford Ragwort	<i>Senecio squalidus</i>	2013
Sticky Groundsel	<i>Senecio viscosus</i>	2013
Groundsel	<i>Senecio vulgaris</i>	2005
Field Madder	<i>Sherardia arvensis</i>	2013
White Campion	<i>Silene latifolia</i>	1991
Nottingham Catchfly	<i>Silene nutans</i>	2013
Sea Campion	<i>Silene uniflora</i>	1995
Charlock	<i>Sinapis arvensis</i>	1991
Hedge Mustard	<i>Sisymbrium officinale</i>	1991
Pale Yellow-eyed-grass	<i>Sisyrinchium striatum</i>	1991
Greater Water-parsnip	<i>Sium latifolium</i>	2000
Alexanders	<i>Smyrnum olusatrum</i>	1995
Bittersweet	<i>Solanum dulcamara</i>	2005
Black Nightshade	<i>Solanum nigrum</i>	2005
Perennial Sow-thistle	<i>Sonchus arvensis</i>	2013
Prickly Sow-thistle	<i>Sonchus asper</i>	1991
Smooth Sow-thistle	<i>Sonchus oleraceus</i>	2005
Rowan	<i>Sorbus aucuparia</i>	1991
Branched Bur-reed	<i>Sparganium erectum</i>	1994
Lesser Sea-spurrey	<i>Spergularia marina</i>	2000

Common name	Scientific name	Last recorded
Sand Spurrey	<i>Spergularia rubra</i>	2005
Greater Duckweed	<i>Spirodela polyrhiza</i>	1994
Hedge Woundwort	<i>Stachys sylvatica</i>	2013
Common Chickweed	<i>Stellaria media</i>	1991
Lesser Chickweed	<i>Stellaria pallida</i>	1991
Common Comfrey	<i>Symphytum officinale</i>	1995
Russian Comfrey	<i>Symphytum x uplandicum</i>	2000
Tamarisk	<i>Tamarix gallica</i>	2005
Dandelion	<i>Taraxacum officinale</i> agg.	1995
Wood Sage	<i>Teucrium scorodonia</i>	2013
Field Penny-cress	<i>Thlaspi arvense</i>	1991
Upright Hedge-parsley	<i>Torilis japonica</i>	2005
Knotted Hedge-parsley	<i>Torilis nodosa</i>	1991
Goat's-beard	<i>Tragopogon pratensis</i>	2006
Hop Trefoil	<i>Trifolium campestre</i>	2006
Lesser Trefoil	<i>Trifolium dubium</i>	2013
Bird's-foot Clover	<i>Trifolium ornithopodioides</i>	2006
Red Clover	<i>Trifolium pratense</i>	2013
White Clover	<i>Trifolium repens</i>	2006
Rough Clover	<i>Trifolium scabrum</i>	2013
Knotted Clover	<i>Trifolium striatum</i>	1991
Scentless Mayweed	<i>Tripleurospermum inodorum</i>	2005
Sea Mayweed	<i>Tripleurospermum maritimum</i>	2013
Yellow Oat-grass	<i>Trisetum flavescens</i>	2013
Colt's-foot	<i>Tussilago farfara</i>	2005
Lesser Bulrush	<i>Typha angustifolia</i>	2013
Bulrush	<i>Typha latifolia</i>	1993
Gorse	<i>Ulex europaeus</i>	1995
English Elm	<i>Ulmus procera</i>	1991
Common Nettle	<i>Urtica dioica</i>	2013

Appendix 3: Site List – Nickolls Quarry: 215 species, excluding category D and E species

1	Red-legged Partridge
2	Grey Partridge
3	Quail
4	Pheasant
5	Brent Goose
6	Canada Goose
7	Barnacle Goose
8	Snow Goose
9	Greylag Goose
10	Pink-footed Goose
11	Tundra Bean Goose
12	White-fronted Goose
13	Mute Swan
14	Bewick's Swan
15	Whooper Swan
16	Egyptian Goose
17	Shelduck
18	Mandarin Duck
19	Garganey
20	Shoveler
21	Gadwall
22	Wigeon
23	Mallard
24	Pintail
25	Teal
26	Pochard
27	Tufted Duck
28	Scaup
29	Eider
30	Velvet Scoter
31	Common Scoter
32	Goldeneye
33	Smew
34	Goosander
35	Red-breasted Merganser
36	Ruddy Duck
37	Swift
38	Cuckoo
39	Feral Pigeon
40	Stock Dove
41	Woodpigeon
42	Turtle Dove
43	Collared Dove
44	Water Rail
45	Corncrake
46	Moorhen
47	Coot
48	Little Grebe
49	Red-necked Grebe
50	Great Crested Grebe
51	Slavonian Grebe
52	Black-necked Grebe
53	Oystercatcher

109	Squacco Heron
110	Grey Heron
111	Purple Heron
112	Great White Egret
113	Little Egret
114	Osprey
115	Honey Buzzard
116	Sparrowhawk
117	Marsh Harrier
118	Hen Harrier
119	Montagu's Harrier
120	Red Kite
121	Rough-legged Buzzard
122	Buzzard
123	Barn Owl
124	Tawny Owl
125	Little Owl
126	Long-eared Owl
127	Short-eared Owl
128	Kingfisher
129	Bee-eater
130	Lesser Spotted Woodpecker
131	Great Spotted Woodpecker
132	Green Woodpecker
133	Kestrel
134	Red-footed Falcon
135	Merlin
136	Hobby
137	Peregrine
138	Ring-necked Parakeet
139	Red-backed Shrike
140	Jay
141	Magpie
142	Jackdaw
143	Rook
144	Carrion Crow
145	Hooded Crow
146	Raven
147	Waxwing
148	Coal Tit
149	Marsh Tit
150	Blue Tit
151	Great Tit
152	Bearded Tit
153	Woodlark
154	Skylark
155	Sand Martin
156	Swallow
157	House Martin
158	Cetti's Warbler
159	Long-tailed Tit
160	Yellow-browed Warbler
161	Willow Warbler

54	Black-winged Stilt
55	Avocet
56	Lapwing
57	Golden Plover
58	Grey Plover
59	Ringed Plover
60	Little Ringed Plover
61	Whimbrel
62	Curlew
63	Bar-tailed Godwit
64	Black-tailed Godwit
65	Turnstone
66	Knot
67	Ruff
68	Curlew Sandpiper
69	Temminck's Stint
70	Sanderling
71	Dunlin
72	Little Stint
73	Woodcock
74	Jack Snipe
75	Snipe
76	Common Sandpiper
77	Green Sandpiper
78	Redshank
79	Wood Sandpiper
80	Spotted Redshank
81	Greenshank
82	Kittiwake
83	Black-headed Gull
84	Little Gull
85	Mediterranean Gull
86	Common Gull
87	Great Black-backed Gull
88	Glaucous Gull
89	Iceland Gull
90	Herring Gull
91	Caspian Gull
92	Yellow-legged Gull
93	Lesser Black-backed Gull
94	Sandwich Tern
95	Little Tern
96	Common Tern
97	Arctic Tern
98	Black Tern
99	Little Auk
100	Red-throated Diver
101	Black-throated Diver
102	Great Northern Diver
103	Fulmar
104	Shag
105	Cormorant
106	Spoonbill
107	Bittern
108	Night Heron

162	Chiffchaff
163	Sedge Warbler
164	Reed Warbler
165	Marsh Warbler
166	Blackcap
167	Garden Warbler
168	Lesser Whitethroat
169	Whitethroat
170	Firecrest
171	Goldcrest
172	Wren
173	Nuthatch
174	Treecreeper
175	Starling
176	Ring Ouzel
177	Blackbird
178	Fieldfare
179	Redwing
180	Song Thrush
181	Mistle Thrush
182	Spotted Flycatcher
183	Robin
184	Bluethroat
185	Nightingale
186	Pied Flycatcher
187	Black Redstart
188	Redstart
189	Whinchat
190	Stonechat
191	Wheatear
192	House Sparrow
193	Tree Sparrow
194	Dunnock
195	Yellow Wagtail
196	Grey Wagtail
197	Pied Wagtail
198	Meadow Pipit
199	Tree Pipit
200	Rock Pipit
201	Chaffinch
202	Brambling
203	Hawfinch
204	Bullfinch
205	Greenfinch
206	Twite
207	Linnet
208	Lesser Redpoll
209	Goldfinch
210	Siskin
211	Lapland Bunting
212	Snow Bunting
213	Corn Bunting
214	Yellowhammer
215	Reed Bunting

Category D

1	Bufflehead
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Category E

1	White-faced Whistling Duck
2	Fulvous Whistling Duck
3	Nene
4	Bar-headed Goose
5	Emperor Goose
6	Swan Goose

2	Great White Pelican
7	Black Swan
8	Falcated Duck
9	White-cheeked Pintail
10	Red-crested Pochard
11	African Sacred Ibis
12	Pink-backed Pelican

Appendix 4: Site List – Hythe Ranges: 175 species (including parts of site within TR13 L and TR13 M)

1	Red-legged Partridge
2	Grey Partridge
3	Pheasant
4	Brent Goose
5	Canada Goose
6	Greylag Goose
7	Pink-footed Goose
8	Tundra Bean Goose
9	White-fronted Goose
10	Mute Swan
11	Bewick's Swan
12	Shelduck
13	Gadwall
14	Wigeon
15	Mallard
16	Pintail
17	Teal
18	Tufted Duck
19	Eider
20	Velvet Scoter
21	Common Scoter
22	Long-tailed Duck
23	Goldeneye
24	Red-breasted Merganser
25	Swift
26	Cuckoo
27	Feral Pigeon
28	Stock Dove
29	Woodpigeon
30	Turtle Dove
31	Collared Dove
32	Moorhen
33	Red-necked Grebe
34	Great Crested Grebe
35	Slavonian Grebe
36	Stone Curlew
37	Oystercatcher
38	Avocet
39	Lapwing

89	Spoonbill
90	Grey Heron
91	Little Egret
92	Sparrowhawk
93	Montagu's Harrier
94	Barn Owl
95	Tawny Owl
96	Little Owl
97	Long-eared Owl
98	Short-eared Owl
99	Hoopoe
100	Kingfisher
101	Lesser Spotted Woodpecker
102	Great Spotted Woodpecker
103	Green Woodpecker
104	Kestrel
105	Merlin
106	Hobby
107	Red-backed Shrike
108	Jay
109	Magpie
110	Jackdaw
111	Rook
112	Carrion Crow
113	Hooded Crow
114	Raven
115	Coal Tit
116	Blue Tit
117	Great Tit
118	Woodlark
119	Skylark
120	Shore Lark
121	Sand Martin
122	Swallow
123	House Martin
124	Long-tailed Tit
125	Willow Warbler
126	Chiffchaff
127	Sedge Warbler

40	Golden Plover
41	Grey Plover
42	Ringed Plover
43	Little Ringed Plover
44	Whimbrel
45	Curlew
46	Bar-tailed Godwit
47	Black-tailed Godwit
48	Turnstone
49	Knot
50	Sanderling
51	Dunlin
52	Purple Sandpiper
53	Woodcock
54	Jack Snipe
55	Snipe
56	Common Sandpiper
57	Green Sandpiper
58	Redshank
59	Greenshank
60	Kittiwake
61	Black-headed Gull
62	Little Gull
63	Mediterranean Gull
64	Common Gull
65	Great Black-backed Gull
66	Herring Gull
67	Caspian Gull
68	Lesser Black-backed Gull
69	Sandwich Tern
70	Little Tern
71	Common Tern
72	Arctic Tern
73	Black Tern
74	Great Skua
75	Pomarine Skua
76	Arctic Skua
77	Little Auk
78	Guillemot
79	Razorbill
80	Red-throated Diver
81	Black-throated Diver
82	Great Northern Diver
83	Fulmar
84	Manx Shearwater
85	Balearic Shearwater
86	Gannet
87	Shag
88	Cormorant

128	Reed Warbler
129	Grasshopper Warbler
130	Blackcap
131	Garden Warbler
132	Lesser Whitethroat
133	Whitethroat
134	Dartford Warbler
135	Firecrest
136	Goldcrest
137	Wren
138	Starling
139	Ring Ouzel
140	Blackbird
141	Fieldfare
142	Redwing
143	Song Thrush
144	Mistle Thrush
145	Spotted Flycatcher
146	Robin
147	Nightingale
148	Black Redstart
149	Redstart
150	Whinchat
151	Stonechat
152	Wheatear
153	House Sparrow
154	Tree Sparrow
155	Dunnock
156	Yellow Wagtail
157	Grey Wagtail
158	Pied Wagtail
159	Meadow Pipit
160	Tree Pipit
161	Rock Pipit
162	Chaffinch
163	Brambling
164	Bullfinch
165	Greenfinch
166	Twite
167	Linnet
168	Lesser Redpoll
169	Goldfinch
170	Siskin
171	Lapland Bunting
172	Snow Bunting
173	Corn Bunting
174	Yellowhammer
175	Reed Bunting