The Brighton and Hove Local Biodiversity Action Plan

Table 2: list of species requiring conservation action in Brighton and Hove

The table shows important species for which Brighton and Hove has a particular responsibility to conserve, because the city supports suitable habitat or existing native populations of the species. Species which occur only as casual records, garden escapes or which are dependent on habitats which are not represented in the city, are not included. Species highlighted in yellow are recommended for particular attention because their needs are unlikely to be addressed through habitat action alone and these are specifically addressed by chapters in the main report.

Species no.	Latin Name	English Name	Taxon	Status	Notes
1			Bee	RDB1	Coastal Lowland calcareous grassland with abundant Greater Knapweed.
					Requires areas of bare soil, sparsely vegetated or short-turf.
					Retain dead wood, <i>Rubus</i> clumps and pithy dead plant stems,
					flower-rich areas which need to be as large as possible and
					include flowering trees and shrubs. Retain some scrubby and
	Halictus eurygnathus				coarse vegetation areas. Lowland calcareous grassland HAP
2	Ulopa trivia		Leafhopper	Locally notable. Nationally Notable b	Often associated with Coastal vegetated shingle but also known from calcareouys grassland sites in the local area
3			Moss	Locally notable	found in bare soil patches in parks both sides of the A23 in Brighton
	Hennediella macrophylla	_			and opposite the Booth Museum in Dyke Road. Not seen since the late eighties but almost certainly still extant
4	пстисана тасторнуна		Lichen	Locally notable	Found on nutrient-rich, well-lit trunks of wayside and parkland trees;
				Nationally Scarce Species.	steeply sloping, basic rock faces near the sea, on walls near the coast
					and inland in churchyards. Found some time ago in Stanmer Churchyard. Threatened by the repair and maintenance of wall
					surfaces, the inappropriate management of graveyards, including the
					movement of gravestones from their original positions, thereby altering
Г	Physcia clementei	A lichen	Reptile	NERC S41 species	the abiotic factors affecting the lichen, and the cleaning of headstones National action plan recommends species-specific action
5	Vipera berus	Adder	'	'	
6			Butterfly	Locally notable Wildlife and Countryside Act 1981 (Schedule	Lowland calcareous grassland HAP. Sole foodplant is Horseshoe Vetch
	Lysandra bellargus	Adonis Blue		5 Section 9.5a,b)	Horseshoe velch
	Allium ampeloprasum		Vascular	Nationally Scarce	Occurs along the Volks Railway
	var babingtonii	Babington's Leek	Plant	NEDOOM	
7	Clinopodium acinos	Basil Thyme	Vascular Plant	NERC S41 species	Lowland calcareous grassland HAP
8	Cirropodiani doinos	Daon Ingino	Vascular	Locally notable	Lowland calcareous grassland HAP – bare soil on Lowland
	Thesium humifusum	Bastard Toadflax	Plant	,	calcareous grassland.
9	Phoenicurus ochruros	Black Redstart	Bird	W&C Act Schedule 1. Bird Population Status - Amber	Several possible breeding records along the beach from the Palace Pier to Rottingdean. Confirmed breeding at Black Rock.

10	Pyrochroa coccinea	black-headed cardinal beetle	Beetle	Nationally Notable b	Preys on other insects; normally found on flowers at the edges of woodland. Stanmer Park. Lowland Mixed Deciduous Woodland HAP
11	Euphorbia platyphyllos	Broadleaved Spurge	Vascular Plant	Locally notable	Farmlands HAP
12	Thecla betulae	Brown Hairstreak	Butterfly	NERC S41 species	Extrapolated 99% decline over 25 years from 1984. Requires abundant blackthorn with nearby necar sources. Unsympathetic farming practices that involve the flailing of Hedgerows containing overwintering eggs are considered to be one factor causing decline. Recently considered to be quite common in much of West Sussex, although thought to be almost absent from East Sussex. Records from Brighton and Hove. Farmlands HAP, Hedgerows HAP
13	Lepus europaeus	Brown Hare	Mammal	NERC S41 species	Useful farmland indicator species in continuing decline Farmlands HAP
14	Plecotus auritus	Brown Long-eared Bat	Bat	NERC S41 species	Declined in Britain due to changing land use, including modern intensive agricultural practices, which have resulted in the loss of suitable feeding habitats and hollow trees for roosting. It is particularly susceptible to pesticides, especially their use in roofs where it often roosts on exposed timbers. Bats Group SAP
15	Bombus humilis	Brown-banded Carder Bee	Bee	NERC S41 species	Restricted to southern England coastal and chalkland areas. Quite widespread on the downs but preferrs larger areas of flower-rich habitat. Recent records for urban Brighton and Hove.
16	Poa bulbosa	Bulbous Meadow -Grass	Vascular Plant	Locally notable	urban commons HAP –needs dry ground with patchy, open vegetation
17	Pyrrhula pyrrhula subsp. pileata	Bullfinch	Bird	NERC S41 species	70% of the European population in the UK. 43% decline over 25 years. Associaited with overgrown Hedgerows and field margins. The reasons for bullfinch decline are not fully understood. Scattered breeding records across Brighton & Hove. Hedgerows HAP, Farmlands HAP
18	Orchis ustulata	Burnt Orchid	Vascular Plant	NERC S41 species	Occurs only at Castle Hill SAC. Lowland calcareous grassland HAP
19	Monacha cartusiana	Carthusian Snail	Mollusc	Locally notable	Lowland calcareous grassland HAP
20	Contractor	Challe Carret	Moth	NERC S41 species	Benfield Hill. Fairly common and widespread on chalk downland and limestone hills in the south. Bird's-foot trefoil (<i>Lotus</i>) and clover (<i>Trifolium</i>) are the larval foodplants. Appears to be a continuing decline in this species distribution. Seems to be dependant on the earliest successional stages of Lowland calcareous grassland broken soils on calcareous habitats. Around Brighton, distribution is mostly fragmented on steep, incised bostal paths or on vegetating old disused chalk pits Re-creation of extensive areas of early successional Lowland calcareous grassland seems key to the future of this moth. Lowland
0.1	Scotopteryx bipunctaria Euphrasia	Chalk Carpet	Vascular	NERC S41 species	calcareous grassland HAP Near endemic International responsibility. Recorded at Castle Hill.
21	pseudokerneri	Chalk Eyebright	Plant	·	Lowland calcareous grassland HAP
22	Eurysa douglasi (Eurysanoides douglasi)	Chalk Planthopper	Bug	NERC S41 species	Highly restricted distribution; outside England, known only from Siberia - near-endemic in UK. 50% decline over 20 years. only two recent (since 2000) UK records, both in Sussex. Apparently restricted to high quality long-established Lowland calcareous grassland. Incorporate into Lowland calcareous grassland HAP.

23			Butterfly	Locally notable	Horseshoe Vetch is almost the exclusive food plant but three
					other food plants have been recorded: Bird's-foot Trefoil
					Kidney Vetch and Bird's-foot (Ornithopus perpusillus).
	Lysandra coridon	Chalkhill Blue			Lowland calcareous grassland HAP
24			Moth	Locally notable	A nationally local day-flying species found during June and July over much of England and Wales. Found in Lowland calcareous grassland,
					lowland meadow, woodland rides, with larvae feeding on Sheep's
					Sorrel and Common Sorrel. In Sussex it is found on the downs
					between Brighton and Eastbourne. In West Sussex it is very scarce with recent records only from the Downs near Upper Beeding. Larvae
	Adscita geryon	Cistus Forester			feed on common rock-rose. Lowland calcareous grassland HAP
	Gadus morhua	Cod	Fish	NERC S41 species	Overfishing; Brighton Marina
25			Reptile	NERC S41 species	Declining in Southern England. Needs suitable basking, feeding,
	Zootoca vivipara	Common Lizard			breeding and hibernation sites in a connected landscape An"indicator" species for Urban Commons HAP
26	200toca vivipara	Common Lizard	Bat	Locally notable	Semi-natural woodland, tree lines, parks and gardens: Summer roosts
20					in cracks and crevices in new and old buildings Winter roosts: trees,
					buildings. Threats are attributed to the use of agricultural chemicals in the intensification of agriculture and loss of roost sites. Loss of
					Hedgerows and woodland edge habitats. Declining. Numbers unknown
	Pipistrellus pipistellus	Common Pipstrelle			in Brighton & Hove. Bats Group SAP
27			Amphibian	NERC S41 species	Serious decline demonstrated among many populations across large areas of S, E and C England where 50% or more of toad populations
					in rural areas have experienced recent declines (1985-2000) including
					extinction or near-extinction of some populations. Countering the
					effects of habitat fragmentation at the local scale is a
	Bufo bufo	Common Toad			very high priority. Ponds HAP / Gardens HAP
28	Emberiza calandra	Corn Bunting	Bird	NERC S41 species	Dramaric Uk decline. Still breeds at Mile Oak and east of Brighton.,
	subsp. calandra/clanceyi				Farmlands HAP
29	Calanula/Clanceyi		Vascular	Locally notable	Records from the 1980's – may reappear. Arable Annuals Group
29	Lithospermum arvense	Corn Gromwell	Plant	•	SAP, Farmland HAP,
30	Petroselinum segetum	Corn Parsley	Vascular Plant	Locally notable	Arable Annuals Group SAP, Farmland HAP,
31			Vascular	NERC S41 species	Has occurred in the 1980's and more recently as possibly native seed
	Centaurea cyanus	Cornflower	Plant		on road verges in Brighton. Arable Annuals Group SAP, Farmlands HAP.
32	Somadica Gyanus	Commower	Bird	NERC S41 species	57% decline over 25 years Reasons unclear or probably out of the
02					control of the local authority. Still believed to breed on the urban fringe
	Cuculus canorus	Cuckoo			around Moulsecoomb. Lowland Mixed Deciduous Woodland HAP, Hedgerows HAP
33	Subulus ballolus	Dense-flowered	Vascular	Nationally Scarce	Brighton & Hove is the Sussex stronghold for this species. Arable
	Fumaria densiflora	Fumitory	Plant	,	Annuals Group SAP, Farmlands HAP
34	Erynnis tages subsp. tages	Dingy Skipper	Butterfly	NERC S41 species	The main foodplant is Bird's-foot-trefoil (<i>Lotus corniculatus</i>). Ongoing decline.
35	lagos		Fly	Nationally Scarce	Larvae are parasitic on solitary bees, so the species can persist only
		Dotted bee-fly			where there are good host populations, typically open areas, with dry,
	Bombylius discolor				bare soil where the hosts can nest. Suitable sites must also provide

					sufficient nectar-rich flowers for the adults to feed on. Lowland calcareous grassland HAP
36	Prunella modularis subsp. occidentalis	Dunnock (Hedge Accentor)	Bird	NERC S41 species	100% of the European population in the UK. 27% decline over 25 years. Deciduous woodland, farmland edges, parks and gardens. Gardens HAP, Hedgerows HAP
37	Gentianella anglica	Early Gentian	Vascular Plant	NERC S41 species	Castle Hill. May not be a separate species. Lowland calcareous grassland HAP
38			Vascular Plant	Locally notable IUCN (pre 1994) - Rare	needs dry ground with patchy, open vegetation. Increasing (or previously overlooked?) in Sussex. Urban Commons HAP
	Poa infirma	Early Meadow-grass			
39	Ophrys sphegodes	Early Spider Orchid	Vascular Plant	Sch. 8, W&C Act 1981, Locally notable	Castle Hill and some other, scattered localities. Lowland calcareous grassland HAP
	Seligeria calycina	English rock-bristle	Bryophyte	Locally notable Lower Risk in Great Britain.	grows in patches on shaded chalk fragments. A Species Action Plan has been produced for this moss under the UK Biodiversity Action Plan. Endemic to Europe; in Britain it has a wide distribution in the chalklands of southeast England, reaching up to Humberside and down to south Devon. Outside of Britain it is very rare; it has been recorded from Belgium, France and Italy. Typically found on the ground in woodlands, but it also occurs in chalk pits and, very rarely, Lowland calcareous grassland. In Sussex it is not uncommon in very steep sided chalk pits where it receives very little competition from other plants. Threatened by growth of scrub and saplings in old chalk pits producing excessive shade. Destruction or inappropriate management of woodlands. Proposed UK action: Monitoring only.
	Anguilla anguilla	European Eel	Fish	NERC S.41, IUCN Red List of Threatened Species (2008) - Critically Endangered	Spawning believed to occur in the Sargasso Sea, south of Bermuda. The larvae drift northeast with the Gulf Stream, arriving in early winter off Southern Europe and in spring or early summer in Northern Europe. The leaf-like larvae then transform into transparent juveniles called glass eels. These gather in river estuaries and swim upstream. They then acquire green and brown pigments to become yellow eels and live iun inland waters for a number of years. Those that survive their time in the river then undergo one final transformation into silver eels. They then start their journey to the Atlantic Ocean to spawn. Fragile Sponge and Anthozoan Communities; on Subtidal Rocky Habitats; Subtidal chalk; Subtidal sands and gravels.
40	Chirocephalus diaphanus	Fairy Shrimp	Crustacean	IUCN Pre 1994 RED vulnerable Wildlife and Countryside Act 1981 Schedule 5	Recorded from ponds around the city. Useful indicator for Dewponds? Ponds HAP
41	Tephroseris integrifolia subsp. integrifolia	Field Fleawort	Vascular Plant	NERC S41 species	Recent records from castle Hill and Newtimber Hill. Needs short Lowland calcareous grassland. Lowland calcareous grassland HAP
42	Fumaria parviflora	Fine-leaved Fumitory	Vascular Plant	Locally notable	Brighton & Hove is the Sussex stronghold for this species Arable Annuals Group SAP, Farmlands HAP
43	Ophrys insectifera	Fly Orchid	Vascular Plant	NERC S41 species	Present in Stanmer / Coldean Woods. Decline across the UK is an indicator of closure of woodland glades, scrubby grassland and eutrophication of Lowland calcareous grassland. Lowland Mixed Deciduous Woodland HAP
44	Adscita statices	Forester	Moth	NERC S41 species	larval foodplant is Common sorrel. 83% decline over 25 years, 1980-2005 seriously declined in Sussex and numbers now a tenth of earlier levels. flagship species for open grassy habitats such as meadows and neutral grassland. An attractive, day-flying species. Maintanence of a

					medium-tall sward with abundant sorrel and nectar plants is essential. Light grazing is required to prevent scrub encroachment, over-grazing can be very detrimental. Lowland calcareous grassland HAP
45	Coeloglossum viride	Frog Orchid	Vascular Plant	NERC S41 species	Declining and a good indicator of a threatened habitat (Lowland calcareous grassland). May be extinct outside Castle Hill NNR. Lowland calcareous grassland HAP
46	Atriplex laciniata	Frosted Orache	Vascular Plant	Locally notable	Recorded from Black Rock Beach in the 1990's. Coastal Vegetated Shingle HAP
47	Lampyris noctiluca	Glow-worm	Beetle	Locally notable	Rough Lowland calcareous grasslands and scrub interface – Lowland calcareous grassland HAP
48	Natrix natrix	Grass Snake	Reptile	NERC S41 species	Widespread in gardens with ponds –Pondfs HAP, Parks & Gardens HAP
49	Hipparchia semele	Grayling	Butterfly	NERC S41 species	Substantial decline since 1980's. – Lowland calcareous grassland HAP
50	Triturus cristatus	Great Crested Newt	Amphibian	NERC S41 species	16 records from Brighton 1983 – 2000. Continued theat from development, habitat fragmentation, fish introductions and lack of habitat management as well as pond loss. Only small populations if now present all in Brighton and Hove – Ponds BAP
51	Perdix perdix	Grey Partridge	Bird	NERC S41 species	Breeds at a number of localities across the Brighton Downs. Farmlands HAP
52	Pyrgus malvae	Grizzled Skipper	Butterfly	NERC S41 species	Found on chlak grasslands with scrub and disused artificial (industrial) habitats such as railway lines. Declined in recent years Lowland calcareous grassland HAP
	Micromys minutus	Harvest Mouse	Mammal	NERC S41 species	71% decline over 18 years. Farmlands HAP
53	Muscardinus avellanarius	Hazel Dormouse	Mammal	NERC S41 species	Recently discovered in Waterhall, Green Ridge and Stanmer Park. Declining populations nationally.
54	Helica itala	Heath Snail	Mollusc	Locally notable	Dry, open habitats Lowland calcareous grassland HAP
55	Erinaceus europaeus	Hedgehog	Mammal	NERC S41 species	20% decline over 4 years (2001-5). 'headline' species for Parks & Gardens HAP
56	Hyoscyamus niger	Henbane	Vascular Plant	Locally notable	Annual. Needs disturbed, fertile ground. Urban Commons HAP
57	Larus argentatus subsp. argenteus	Herring Gull	Bird	NERC S41 species	42% decline over 25 years from 1975 Reasons unclear. Still common in Brighton & Hove and considered a pest by many. No action needed, but population monitoring of value
58	Matthiola incana	Hoary Stock	Vascular Plant	Locally notable IUCN (pre 1994) - Rare	Some confusionas to whether native or introduced (included in RDB ed 1 but excluded from RDB ed 3 as non-native). Known from the cliffs at Kemp Town at Rottingdean from before 1900. The cliffs above the Brighton Marina are its Sussex stronghold, but found in scattered localities to Hastings
59	Asilus crabroniformis	Hornet robberfly	Fly	NERC S41 species	Declining but still found on horse pastures south of Bevendean. Problems include use of Avermectins (wormers and boticides used for treating livestock). habitat loss or deterioration: grassland improvement, overgrazing, absence of suitable dung. Large, showy species with Specialist requirements
60	Delichon urbicum	House Martin	Bird	Locally notable	Numbers in slow decline. Closely associaited with man – potential 'flagship' species. Swift, Swallow and House Martin Group SAP
61	Passer domesticus	House Sparrow	Bird	NERC S41 species	68% decline over 25 years - 1979-2004. Reasons not clear. Parks & Gardens HAP
62	Juniperus communis	Juniper	Vascular	NERC S41 species	Only exists as an introduced plant in the city - planted along the A27

			Plant		Brighton Bypass – occurs naturally at Devil's Dyke (outside the authority boundary). Lowland calcareous grassland HAP
63	Vanellus vanellus	Lapwing	Bird	NERC S41 species	51% decline over 25 years. Possibly breeds on the downs around the Chattri War memorial. Farmlands HAP
64			Mollusc	Nationally notable	Very slow to recolonise restored Lowland calcareous grassland sites (Boschi & Baur, <u>Basic and Applied Ecology</u> Volume 9, Issue 6, 6 October 2008, Pages 752-761)
	Abida secale	Large Chrysalis Snail	_	N. II. O	Requires short turf. Lowland calcareous grassland HAP
65	Mutilla europaea	Large Velvet Ant	Bee	Nationally Scarce	parasite of bumblebees. Flower-rich, open habitats – Lowland calcareous grassland associate
66	Agrotis cinerea	Light Feathered Rustic	Moth	Locally notable	calcareous soils, shingle beaches, quarries and similar stony areas in the South of England. Larvae feed on low-growing plants, including wild thyme — Lowland calcareous grassland HAP; Vegetated Shingle HAP
67	Carduelis cannabina subsp. autochthona/cannabina	Linnet	Bird	NERC S41 species	Breeding records on the Downs across Brighton & Hove Farmlands HAP
	Scomber	Mackerel	Fish	NERC S41 species	Level of fishing mortality is above level needed for
	scombrus				recovery.
68	Salvia pratensis	Meadow Clary	Vascular Plant	Red Data Book & Schedule 8 Species	Recent records from Roedean School grounds. Lowland calcareous grassland HAP
69	Pupilla muscorum	Moss Snail	Mollusc	Locally notable	Restricted to old calcareous grasslands Lowland calcareous grassland HAP
70	Valerianella dentata	Narrow-fruited Cornsalad	Vascular Plant	Locally notable	Scattered localities from Ditchling Road to Beacon Hill and Saltdean – always on arable. Arable Annual Group SAP; Farmlands HAP
	Ostrea edulis	Native Oyster	Mollusc	NERC S.41 species	Occurrence in and around Brighton Marina
71	Chenopodium murale	Nettle-leaved Goosefoot	Vascular Plant	Locally notable	Occasional records from various urban sites and from the allotments at Warren Road annual needs disturbed, fertile ground Urban Commons BAP
72	Nyctalus noctula	Noctule Bat	Bat	NERC S41 species	Destruction of roost sites through deforestation and removal of winter roosts in buildings threatens remaining populations. Proactive protection of all roosts (trees and buildings) is needed Bat boxes can be used to help maintain existing populations. 21% decline over 6 years. Bats Group SAP
73	Nyctaius noctula	Noctule Dat	Vascular	Locally notable	Castle Hill Lowland calcareous grassland on short turf only Lowland
	Silene nutans	Nottingham Catchfly	Plant		calcareous grassland HAP
74	Falco peregrinus	Peregrine	Bird	Locally notable	Several nesting sites across the city – nest density at maximum sustainable levels without intra-specific competition. No need for conservation action but monitor populations as a measure of the health of urban wildlife
75	Doros profuges	Phantom or Wasp Hoverfly	Fly	NERC S41 species	1980's record from Coldean / Wild Park area. 52% decline over 25 years. Most records of adults are from scrub or wood edge on calcareous grasslands. Factors causing the decline unknown, but calcareous grasslands should incorporate properly managed scrub

					and woodland edge habitats as positive features. Lowland calcareous grassland HAP
76	Adonis annua	Pheasant's-eye	Vascular Plant	NERC S41 species IUCN (1994) - Vulnerable	A member of the buttercup family, this annual plant of well-drained, disturbed ground and arable margins is found on calcareous soils in southern England. It may possibly be an ancient introduction, formerly widespread it has declined steadily since the 1880s, now present at half a dozen sites in East Sussex, but long extinct in West Sussex.Not recorded for 17 years in Brighton and Hove but dormant seed may still lead to new sightings. Possible 'flagship' species for Arable Annual Group SAP .
	Pleuronectes		Fish	NERC S41 species	Long-lived, vulnerable and low recovery. Brighton
	platessa	Plaice			Marina Outer Harbour
77	Atypus affinis	Purseweb spider	Spider	Locally notable	Rough chalky grassland – Lowland calcareous grassland HAP
78	Vertigo pygmaea	Pygmy Snail	Mollusc	Locally notable	Lowland calcareous grassland HAP
79	Centaurea calcitrapa	Red Star-thistle	Vascular Plant	NERC S41 species RDB – critically endangered	Marked decline in the UK. In Brighton and Hove, found in hard grazed horse pastures at Mile Oak and Woodingdean, where it can be abundant.
80	Vallonia costata	Ribbed Vallonia	Mollusc	Locally notable	Dry and open habitats on calcareous subground, grassy and sunny slopes. Lowland calcareous grassland HAP
81	Phyteuma orbiculare	Round-headed Rampion	Vascular Plant	Locally notable	Flagship for Lowland calcareous grassland HAP
82	Adscita globulaiae	Scarce Forester	Moth	Nationally Scarce	larval foodplants are common knapweed (<i>Centaurea nigra</i>) and greater knapweed (<i>C. scabiosa</i>). Lowland calcareous grassland HAP
83			Vascular	Locally notable	1980's record from stable shingle near the Marina. Coastal Vegetated
84	Calystegia soldanella Frankenia laevis	Sea Bindweed Sea Heath	Plant Vascular Plant	Nationally Scarce	Shingle HAP Along the cliff top and foreshore from the Marina to Saltdean, particularly around Woodingdean. No need for conservation action but monitor health of population.
85	Polygonum maritimum	Sea Knotgrass	Vascular Plant	Schedule 8 Species Nationally Rare	Records prior to 1996 on shingle at Black Rock. Coastal Vegetated Shingle HAP
86	Cakile maritima	Sea Rocket	Vascular Plant	Locally notable	1980's records from Black Rock. Annual dispersed by sea water, confined to coastal habitats Coastal Vegetated Shingle HAP
87	Eptesicus serotinus	Serotine Bat	Bat	Locally notable	Prefers open habitats. Often found in buildings at the edges of towns. Declined due to loss of feeding habitat where large insects such as chafers and dung beetles can be found. As it roosts almost entirely in buildings it is subject to the effects of building work and the use of toxic chemicals in remedial timber treatment. Bat Group SAP
88	Scandix pecten-veneris	Shepherd's-needle	Vascular Plant	NERC S41 species	Still occurs on the roadside by Roedean School Grounds. Arable Annual Group SAP.
89	Hippocampus hippocampus	Short-snouted Seahorse	Fish	NERC S41 species	Prefers shallow, still seawater. Recorded at Brighton Marina in 2006
-	Hesperia comma	Silver Spotted Skipper	Butterfly	Former UK BAP priority species	Restricted to chalk downland slopes in Southern England. Has increased significantly since 1980. Requires close grazed turf with bare patches (e.g. through cattle grazing). In Brighton and Hove therae re recent records from Sheepcote Valley and grassland north of

					Roedean School. Lowland calcareous grassland HAP
90	Alauda arvensis subsp. arvensis	Sky Lark	Bird	NERC S41 species Birds Directive Annex 2.2	59% deline over 25 years. Still common on Lowland calcareous grassland around Brighton & Hove. Lowland calcareous grassland HAP
91	Anguia fragilia	Slow-worm	Reptile	NERC S41 species Wildlife and Countryside Act 1981 (Schedule 5 Section 9.1, 9.5a,b)	A legless lizard found throughout much of Europe. It is widespread in southern England where it is found in a range of open habitats such as rough grassland and heathland with structural variation. Common and widespread in the city. Gardens HAP, Lowland calcareous grassland HAP
92	Anguis fragilis	Slow-world	Butterfly	NERC S41 species	69% decline over 25 years, 1984-2003 Still quite common on Lowland
92	Cupido minimus	Small Blue	Batterny	NETTO OFFI Species	calcareous grassland around the city. Lowland calcareous grassland HAP flagship species(?)
93	Coenonympha pamphilus	Small Heath	Butterfly	NERC S41 species	62% decline over 25 years, 1984-2003. Feeds on Fine grasses, especially fescues (<i>Festuca</i> spp.), meadow-grasses (<i>Poa</i> spp.), and bents (<i>Agrostis</i> spp.). On dry, well-drained situations. Still quite common – a S41 species for research purposes only due to rapid decline.
	Solea solea	Sole	Fish	NERC S41 species	Overfishing. Brighton Marina
94	Turdus philomelos subsp. clarkei	Song Thrush	Bird	NERC S41 species	Over 25% of world population in UK; 25% decline over 25 years. Still quite common in Brighton & Hove. Gardens HAP – flagship species?
95	Muscicapa striata	Spotted Flycatcher	Bird	NERC S41 species	Summer migrant. Breeding records for Preston Park area, Patcham and Stanmer. Woodland edges, parks and gardens. 81% decline over 25 years – reasons unclear but may include lack of nesting opportunities, unsuitable woodland edge' habitat; pesticide use (many farmland birds suffer from low invertebrate prey abundance in the summer); decreases in livestock (which attract flies); problems in the wintering area, or during the migration. Lowland Mixed Deciduous Woodland HAP, Hedgerows HAP
96	Torilis arvensis	Spreading Hedge- parsley	Vascular Plant	NERC S41 species	Arable weed species in sharp decline. Older records for Brighton & Hove. Arable Annual Group SAP
97	Lucanus cervus	Stag Beetle	Beetle	NERC S41 species	Very few verifiable records for Brighton and Hove, although there are records for it as close at Worthing. Soil type seems to be an important influence on its distribution. Most populations breed in timber on warm alluvial soils. Soils over chalk appear to be less favoured and stag beetles are rare or completely from areas with extensive underlying chalk, with the exception of alluvial soils in river valleys.
98	Sturnus vulgaris subsp. vulgaris	Starling	Bird	NERC S41 species	87% decline over 25 years: England-only. Reasons unclear but urban population decline may be due to changing garden management and reduced numbers of invertebrates. Rural population loss may bedue to farming practices. Iconic species in Brighton & Hove die to West Pier roost. Parks & Gardens HAP, Farmlands HAP
99	Weissia sterilis	Sterile Beardless-moss	Bryophyte	NERC S41 species	No recent records in Brighton & Hove but the moss recorded in Saddlescoomb chalk pit in 1993. Requires bare patches of chalky soil in short Lowland calcareous grassland on south facing slopes. Decline may be due to loss of suitable Lowland calcareous grassland and encroachment of scrub. Lowland calcareous grassland HAP
100	Hirundo rustica	Swallow	Bird	Locally notable	Not beleived to be under immediate threat but a bird closely associaited with man – potential 'flagship' species. Swift, Swallow ,

					House Martin Group SAP
101	Apus apus	Swift	Bird	Locally notable	Remaining nesting sites threatened by development and housing improvements. Amber Stautus bird. Swift, Swallow, House Martin Group SAP
102	Ribautodelphax imitans	Tall Fescue Planthopper	Bug	NERC S41 species	Recorded from only four sites in southern England, with only two records from the last 35 years, including Castle Hill NNR. Most strongly associated with calcareous grasslands. Threatened from inappropriate management, including grazing which produces a uniform sward.
103	Calophasia lunula	Toadflax Brocade	Moth	Locally notable IUCN (pre 1994) - Rare	restricted to the south-east and central southern coasts of England, where it frequents mainly shingle beaches and brownfield land with Purple Toadflax. Urban Commons, Coastal Vegetated Shingle HAP
104	Hericium erinaceum	Tree Hedgehog fungus	Fungus (non lichenised)	NERC S41 species	Single extant record for Stanmer Park. Threatened in over 50% of countries in European range. on the dead wood of veteran treesmostly beech but occasionally other broadleved tree flagship veteran tree fungi dependant on securing a long term supply of dead wood. Lowland Mixed Deciduous Woodland HAP flagship
105	Passer montanus	Tree Sparrow	Bird	NERC S41 species	96% decline over 25 years. Farmland bird requiring scrub or Hedgerows away from human disturbance. No nesting sites recorded in Brighton & Hove but potential on the downland. Farmland HAP, Hedgerows HAP
106	Streptopelia turtur	Turtle Dove	Bird	NERC S41 species	Breeds on the Downs around the University of Sussex, Coldean, Balsdean, Sheepcote Valley 79% decline over 25 years across UK. Lowland agricultural land with copses, large Hedgerows, and orchards near to cereal or weedy fields increased use of herbicides and pesticides, reducing food availability, and the removal of Hedgerows and scrub which has removed nesting sites. Persecution diuring migration to Africa. Farmlands HAP, Hedgerows HAP
107	Lasiommata megera	Wall	Butterfly	NERC S41 species	In rapid decline in many inland areas, for reasons unknown. Monitoring required. Foodplants are various grasses. Breeds in short, open grassland where the turf is broken or stony. Found in coastal habitats, including vegetated undercliffs and rocky foreshores, disturbed land, disused quarries, derelict land. Lowland calcareous grassland HAP / Urban Commons HAP, Martime Cliff and Slope HAP
108	Decticus verrucivorus	Wart-biter	Cricket	NERC S41 species Schedule 5 of the Wildlife and Countryside Act 1981.	Occurs at Castle Hill NNR only in Brighton and Hove . Requires a finely balanced habitat mosaic: bare ground/short turf, into which eggs are laid; grass tussocks, amongst which older nymphs and adults conceal themselves from predators; and a sward rich in flowering forbs and invertebrates, which provide nutrition, on warm, south-facing slopes. Inappropraite Lowland calcareous grassland management is the main threat. Lowland calcareous grassland HAP
109	Misopates orontium	Weasel's Snout	Vascular Plant	Locally notable	Arabale weed which still occurs sporadically on Whitehawk Hill allotments. Arable Annual Group SAP; Farmlands HAP
110	Cephalanthera damasonium	White Helleborine	Vascular Plant	NERC S41 species	Confirmed extant record at Stanmer Park. In decline due to loss of habitat caused by the clearance of woodlands. In beechwoods on chalk in southern England.
444	Merlangius merlangus	Whiting	Fish Butterfly	NERC S41 species NERC S41 species	Overrfishing; Brighton Marina Recent records throughout Brighton and Hove, particularly London
111	Satyrium w-album	White-letter Hairstreak	Dutterily	TVETTO 041 Species	Tiodonic records unroughout brighton and hove, particularly condon

					Road, Preston Park and The Level. Across the UK 99% decline in abundance over 25 years, although numbers appear to now be stabalising; breeds on elm species, including Wych Elm (<i>Ulmus glabra</i>), English Elm (<i>U. procera</i>), and Small-leaved Elm (<i>U. minor</i>). Breeds on mature trees or abundant sucker growth near dead trees. Survive on the Dutch Elm Disease-resistant variety of <i>U. japonica</i> , Sapporo Autumn Gold.
112	Vicia lutea	Yellow Vetch	Vascular Plant	Locally notable	Whitehawk Hill allotments. needs dry soil with patchy, open vegetation. Urban Commons SAP
113	Lathyrus aphaca	Yellow Vetchling	Vascular Plant	Locally notable	Rapid decline in UK. Sussex stronghold in Brighton – Mile Oak, Whitehawk Hill and Wilson Avenue – annual needs disturbed, dry ground. Urban Commons BAP
114	Emberiza citrinella	Yellowhammer	Bird	NERC S41 species	Confirmed breeding around the Brighton downs. 53% decline over 25 years. Requires abundant invertebrate prey in summer and seed in winter. Farmlands HAP, Hedgerows HAP
115	Drilus flavescens	Yellowish Drile	Beetle	Nationally Notable A	Predates on snails. Known from Whitehawk Hill and Stanmer Park. Frequent on the Downs in southern coastal areas. Downland specialist. Lowland calcareous grassland HAP

Table 2.1: Moth Species occurring in Brighton and Hove which are listed in the UK BAP as Priority Species for national research purposes only (these are not addressed in the draft Brighton & Hove LBAP)

Latin Name	English Name	Taxon	Status	Notes
Acronicta psi	Grey Dagger	Moth	NERC S41 species	Declined by 77% over the last 35 years.
Agrochola helvola	Flounced Chestnut	Moth	NERC S41 species	larvae feed on deciduous trees. Declined by 88% over the last 35 years
Agrochola litura	Brown-spot Pinion	Moth	NERC S41 species	Declined by 76% over the last 35 years, although remains common larvae live on herbaceous plants when young, and later on the leaves of deciduous trees, such as oak and hawthorn. JNCC recommends a grouped action plan that investigates the causes of decline of widespread moth species.
Agrochola lychnidis	Beaded Chestnut	Moth	NERC S41 species	larvae feed on low plants when small, later consuming the leaves of various trees and shrubs. JNCC recommends a grouped action plan that investigates the causes of decline of widespread moth species Threats poorly understood
Allophyes oxyacanthae	Green-brindled Crescent	Moth	NERC S41 species	Found in woodland, Hedgerows and suburban habitats. Caterpillars feed on a variety of trees and bushes. Declined by 79% over the last 35 years
Amphipoea oculea	Ear Moth	Moth	NERC S41 species	larvae feed at the base of various grasses and low plants Declined by 71% over the last 35 years. Very distinctive ear-shaped markings on wings
Amphipyra tragopoginis	Mouse Moth	Moth	NERC S41 species	Range of habitats and food plants. Declined by 73% over the last 35 years -

	-	Moth	NERC S41 species	Larvae feed on grasses. Declined by 76% over the last 35 years.
		WOUT	NETTO OTT Species	JNCC recommends a grouped action plan that investigates the causes
Apamea remissa	Dusky Brocade			of decline of widespread moth species
, ipamea remieca	Buony Broodes	Moth	NERC S41 species	Larvae feed on grasses and bushes such as hawthorn. Declined by
		Wiotii	TVETTO 041 Species	90% over the last 35 years. JNCC recommends a grouped action plan
Aporophyla lutulenta	Deep-brown Dart			that investigates the causes of decline of widespread moth species
r iporopriyia iataionia	Boop Brown Bart	Moth	NERC S41 species	caterpillars feed on a number of herbaceous plants. Frequents
Arctia caja	Garden Tiger	Wietri	142110 011 000000	gardens. Declined by 89% over the last 35 years
, otta oaja	Garasii iigo.	Moth	NERC S41 species	A woodland species - feed on the foliage of a range of deciduous
Asteroscopus sphinx	Sprawler		112.10 0 11 0 0 000	trees. Declined by 83% over the last 35 years
		Moth	NERC S41 species	Woodland and hedgerows. Food plant is Ash. Declined by 74% over
				the last 35 years JNCC recommends a grouped action plan that
Atethmia centrago	Centre-barred Sallow			investigates the causes of decline of widespread moth species
		Moth	NERC S41 species	larvae feed in spring on willow Declined by 73% over the last 35 years.
Brachylomia viminalis	Minor Shoulder-knot		'	. , , , , , , , , , , , , , , , , , , ,
•		Moth	NERC S41 species	Range of habitats including suburban areas. Larvae feed on a number
			•	of herbaceous plants, especially nettle (Urtica) and dandelion
Caradrina morpheus	Mottled Rustic			(Taraxacum). Declined by 73% over the last 35 years
•		Moth	NERC S41 species	larval foodplants are a range of herbaceous species Declined by 85%
Diarsia rubi	Small Square-spot		·	over the last 35 years
		Moth	NERC S41 species	The larvae feed on hawthorn, blackthorn and apple. Declined by 95%
Diloba caeruleocephala	Figure of Eight		·	over the last 35 years. Distinctive markings
·		Moth	NERC S41 species	larval foodplants are willowherbs (<i>Epilobium spp.</i>). Declined by 77%
Ecliptopera silaceata	Small Phoenix			over the last 35 years
		Moth	NERC S41 species	feeds on oak (Quercus), birch (Betula) or lime (Tilia). Declined by 91%
Ennomos erosaria	September Thorn			over the last 35 years
		Moth	NERC S41 species	Declined by 98% over the last 35 years. deciduous woods and their
				margins, and suburban habitats, where the larval foodplant, Ash
Ennomos fuscantaria	Dusky Thorn			grows
		Moth	NERC S41 species	Woodland and suburban habitats. JNCC recommends a grouped
				action plan that investigates the causes of decline of widespread moth
Ennomos quercinaria	August Thorn			species. Threats poorly understood
		Moth	NERC S41 species	bedstraw feeding species, on chalk downland and sea-cliffs. It has a
Epirrhoe galiata	Galium Carpet			preference for coastal sites. Declined by 76% over the last 35 years
		Moth	NERC S41 species	Woodland fringes on chalky soils. JNCC recommends a grouped
				action plan that investigates the causes of decline of widespread moth
Eugnorisma glareosa	Autumnal Rustic		NEDOCK	species. Threats poorly understood
		Moth	NERC S41 species	feeds on various Ribes species, such as red currant and black currant,
Fullation of the sta	Oraliza a a la			and can therefore be found in suburban areas as well as woodland
Eulithis mellinata	Spinach		NEDO O44	and similar habitats. Declined by 95% over the last 35 years
		Moth	NERC S41 species	caterpillars feed on a range of herbaceous plants, including clover
Europ piggioons	Cardon Dart			(<i>Trifolium</i>), plantain (<i>Plantago</i>), as well as various cultivated varieties.
Euxoa nigricans	Garden Dart	Moth	NEDC 641 appaigs	Frequents gardens. Declined by 97% over the last 35 years.
Acronicta rumicis	Knot Grass	Moth	NERC S41 species	larvae feed on a range of herbaceous plants, including garden varieties. Declined by 80% over the last 35 years.
Hemistola	MIUL GIASS	Moth	NERC S41 species	inhabits woodland edges and hedgerows mainly on chalk downs
	Small Emerald	IVIOLITI	NERO 541 species	Declined by 82% over the last 35 years
chrysoprasaria	Siliali Ellieralu	Moth	NEDC S41 appoins	lance feed underground on the rests of grasses and small plants
Hepialus humuli	Ghost Moth	Moth	NERC S41 species	larvae feed underground on the roots of grasses and small plants. Declined by 73% over the last 35 years -
неріаіиѕ питіиіі Hoplodrina blanda	Rustic	Moth	NERC S41 species	Foodplants are a variety of low plants. Declined by 75% over the last
порюшна віанца	กนรแบ	IVIOLITI	INERO 341 Species	Foouplaints are a variety of low plants. Declined by 75% over the last

				35 years
Hydraecia micacea	Rosy Rustic	Moth	NERC S41 species	larvae live on a range of low plants, but especially dock (<i>Rumex spp.</i>). Declined by 86% over the last 35 years
		Moth	NERC S41 species	Woodland and suburban habitats, and feeds on a range of deciduous trees common and widespread, but rapidly declining moth – declined by 81% over the last 35 years. JNCC recommends a grouped action plan that investigates the causes of decline of widespread moth
Lycia hirtaria	Brindled Beauty		NEDO O44	species
Melanchra persicariae	Dot Moth	Moth	NERC S41 species	Range of suburban habitats, including gardens, waste ground and roadside verges. Larvae feed on a wide range of garden and wild plants. Visually distinctive 'flagship' for ? Declined by 88% over the last 35 years. JNCC recommends a grouped action plan that investigates the causes of decline of widespread moth species
Melanchra pisi	Broom Moth	Moth	NERC S41 species	Declined by 77% over the last 35 years. caterpillar feeds on broom (<i>Cytisus scoparius</i>), bracken (<i>Pteridium aquilinum</i>) and other trees and plants. JNCC recommends a grouped action plan that investigates the causes of decline of widespread moth species
Melanthia procellata	Pretty Chalk Carpet	Moth	NERC S41 species	occupies Hedgerows and scrubland, particularly in chalky localities, and feeds on traveller's joy (<i>Clematis vitalba</i>). Declined by 87% over the last 35 years
Mesoligia literosa	Rosy Minor	Moth	NERC S41 species	larvae feed on the stems and roots of several types of grass. Declined by 81% over the last 35 years
Mythimna comma	Shoulder-striped Wainscot	Moth	NERC S41 species	Caterpillar feeds by night on various grasses, especially cock's-foot (Dactylis glomerata). Declined by 72% over the last 35 years
Orthosia gracilis	Powdered Quaker	Moth	NERC S41 species	larvae often feed on sallows (Salix spp.). Declined by 76% over the last 35 years
Scopula marginepunctata	Mullein Wave	Moth	NERC S41 species	Mainly coastal species. Larvae feed on low plants including yarrow (<i>Achillea millefolium</i>) and mugwort (<i>Artemesia vulgaris</i>). Declined by 76% over the last 35 years
Scotopteryx chenopodiata	Shaded Broad-bar	Moth	NERC S41 species	larvae feed on vetch (Vicia) and clover (Trifolium). Declined by 73% over the last 35 years
Spilosoma lubricipeda	White Ermine	Moth	NERC S41 species	larvae feed on a variety of herbaceous plants Declined by 77% over the last 35 years -
Spilosoma luteum	Buff Ermine	Moth	NERC S41 species	common and widespread, but rapidly declining - by 73% over the last 35 years. Wide range of food plants. JNCC recommends a grouped action plan that investigates the causes of decline of widespread moth species
Tholera decimalis	Feathered Gothic	Moth	NERC S41 species	grass-feeding species. Declined by 90% over the last 35 years
		Moth	NERC S41 species	Larvae feed on low-growing plants such as dock (<i>Rumex</i>). JNCC recommends a grouped action plan that investigates the causes of
Timandra comae	Blood-Vein	1		decline of widespread moth species. Threats poorly understood.
Trichiura crataegi	Pale Eggar	Moth	NERC S41 species	Found in scrub on the edge of woodland. Declined by 86% over the last 35 years
Trichopteryx polycommata	Barred Tooth-striped	Moth	NERC S41 species	Lowland calcareous grassland and scrub species – larvae feed on Privet and Ash. Threats poorly understood.
Tyria jacobaeae	Cinnabar	Moth	NERC S41 species	Declined by 83% over the last 35 years. Food plant is Ragwort (Senecio jacobaea). JNCC recommends a grouped action plan that investigates the causes of decline of widespread moth species
Watsonalla binaria	Oak Hook-tip	Moth	NERC S41 species	oak (Quercus) is the larval foodplant. Declined by 81% over the last 35 years

		Moth	NERC S41 species	larvae feed at first on sallow (Salix) catkins, and then later on
Xanthia icteritia	Sallow			herbaceous plants. Declined by 82% over the last 35 years
		Moth	NERC S41 species	Larvae eat a variety of low plants. Declined by 92% over the last 35
	Dark-barred Twin-spot			years. JNCC recommends a grouped action plan that investigates the
Xanthorhoe ferrugata	Carpet			causes of decline of widespread moth species

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