

CALDERDALE SPECIES INVENTORY - 2025

MAMMALS

Mammals, including bats, are often under-recorded in Calderdale, leading to gaps in population data. Other species, such as water shrews and polecats, are also likely to be under-reported, highlighting the need for improved survey efforts and monitoring to accurately assess their populations and distribution.

Common name	Scientific name	National	Regional	Local	Habitat	Ref	Notes
BATS	CHIROPTER						
Vespertilionidae							
Noctule Bat	Nyctalus noctule	PS	WYPS	LPS	BB, DW, H, P, U, VT		
Lesser Noctule	Nyctalus leisleri		WYPS	LPS	BB, DW, H, P, U, VT		
Common Pipistrelle	Pipistrellus pipistrellus	PS	WYPS	LPS	BB, DW, H, P, U, VT		
Nathusius' Pipistrelle	Pipistrellus nathusii		WYPS	LPS	BB, DW, H, P, U, VT		
Soprano Pipistrelle	Pipistrellus pygmaeus		WYPS	LPS	BB, DW, H, P, U, VT		
Daubenton's Bat	Myotis daubentonii		WYPS	LPS	BB, DW, PL, RS, UG		
Brandt's Bat	Myotis brandtii		WYPS	LPS	CW, H, P, U		
Natterer's Bat	Myotis nattereri		WYPS	LPS	DW, H		
Brown Long-eared Bat	Plecotus auritus	PS	WYPS	LPS	BB, DW, H		
Whiskered Bat	Myotis mystacinus		WYPS	LPS	CW, DW, UH		
HARES	LAGAMORPHA						
Leporidae							
Brown hare	Lepus europaeus	PS	WYPS	LPS	A, UG, UH		
Mountain hare	Lepus timidus			LPS	UH		
SHREWS AND HEDGEHOGS	EULIPOTYPHLA						

<i>Soricidae</i>							
Eurasian Water Shrew	Arvicola amphibius			LPS	C, RS		
<i>Erinaceidae</i>							
West European Hedgehog	Erinaceus europaeus	PS	WYPS	LPS	DW, G, H, P, S, UG, U		
RODENTS	OTHER RODENTIA						
<i>Cricetidae</i>							
European Water Vole	Arvicola amphibius	PS		LPS	C, PL, R, RS		
<i>Sciuridae</i>							
Red squirrel	Sciurus vulgaris			LPS	CW, DW, UOW		Extinct in Calderdale since the 1980s, but is a candidate for a feasibility study to consider the possibility of reintroduction.
CARNIVORES	OTHER CARNIVORA						
<i>Mustelidae</i>							
Eurasian Badger	Meles meles			LPS	A, DW, P, UOW, U		
Eurasian Otter	Lutra lutra	PS	WYPS	LPS	RS		
Polecat	Mustela putorius	PS	WYPS	LPS	DW, H		
Weasel	Mustela nivalis			LPS	DW, H, UOW		
European pine marten	Martes martes			LPS	DW, H, S, UOW		There was a verified record in 2023, so has the prospect of recolonisation.

Key:

Priority:

PS UK Priority Species
WYPS West Yorkshire Priority Species
LPS Local Priority Species

Habitat:

A Arable
BB Bat boxes
C Canals
CW Coniferous woodland
DW Deciduous woodland
G Gardens
H Hedgerows and drystone walls
PL Ponds and lakes
P Parkland
R Reedbeds
RS Rivers and streams
S Scrub
UH Upland heathland and blanket bog
UG Unimproved grassland
UOW Upland oakwood
U Urban
VT Veteran trees

(Data on mammals kindly provided by Halifax Scientific Society, the National Trust, Upper Calderdale Wildlife Network and West Yorkshire Ecology Services)

BIRDS

The recording of birds in Calderdale is, on the whole, comprehensive, with many priority species being documented. However, some red and amber-listed birds, such as the cornbunting, are excluded from the priority list if they have not bred locally or aren't a migrant, as local conservation efforts are unlikely to significantly impact these species. Future efforts should focus on monitoring the established priority species to ensure their ongoing conservation and restoration.

Common name	Scientific name	National	Regional	Local	Habitat	Ref	Notes
GREBES	PODICIPEDIFORMES						
Podicipedidae							
Great Crested Grebe	Podiceps cristatus	G		LPS	PL		Wintering broods, though not known to breed. There is a chance if numbers and wetland habitat increase.
WATERFOWL	ANSERIFORMES						
Teal	Anas crecca	A		LPS	PL		
HAWKS	ACCIPITRIFORMES						
Accipitridae							
Hen Harrier	Circus cyaneus	R	WYPS	LPS	UG, UH		
Red kite	Milvus milvus			LPS	A, CW, DW, UOW, U		Starting to move into Calderdale from a neighbouring district, though slow at colonising.

Sparrowhawk	Accipiter nisus	A		LPS	G, DW, P, UOW, U		
FALCONS	FALCONIFORMES						
Falconidae							
Kestrel	Falco tinnunculus	A	WYPS	LPS	UG		
Merlin	Falco columbarius	R	WYPS	LPS	UH		Would benefit from improved habitat management.
Peregrine	Falco peregrinus	G	WYPS	LPS	UH, U		Rare breeding bird in Calderdale, though clear opportunity to boost numbers by installing peregrine boxes.
OTHER RAPTORS:	PANDION						
Pandionidae							
Osprey	Pandion haliaetus	A			PL		Osprey pass through Calderdale, so option to put up platforms.
OWLS	STRIGIFORMES						
Tytonidae							
Barn Owl	Tyto alba	G	WYPS	LPS	A, UG		Would benefit from action to boost numbers and protection of breeding sites.
Strigidae							

Long-eared Owl	Asio otus	G		LPS	CW, UOW		Would benefit from action to boost numbers and protection of breeding sites.
Short-eared Owl	Asio flammeus	A	WYPS	LPS	CW, UH		
Tawny Owl	Strix aluco	A		LPS	DW, UOW		Would benefit from action to boost numbers, including installing boxes, and protection of breeding sites.
Little Owl	Athene noctua			LPS	A, CW, DW, H, UOW		Would benefit from habitat management.
GAMEBIRDS	GALLIFORMES						
Red Grouse	Lagopus lagopus	G, PS	WYPS	LPS	UH		
Grey Partridge	Perdix perdix	R, PS	WYPS	LPS	S, UG		Expand hedgerow and scrub.
RAILS	GRUIFORMES						
Rallidae							
Water Rail	Rallus aquaticus	G		LPS	PL		Rare in Calderdale. Would benefit from more extensive habitat.
SHOREBIRDS AND GULLS	CHARADRIIFORMES						
Haematopodidae							

Oystercatcher	Haematopus ostralegus	A		LPS	A, PL		Has had lots of focus on uplands, but needs renewed focus on farmland and post-industrial habitat.
Charadriidae							
Little Ringed Plover	Charadrius dubius	G		LPS	GB, PL		Rare breeding in Calderdale. Would benefit from habitat management.
Ringed Plover	Charadrius hiaticula	R		LPS	GB, PL		
Scolopacidae							
Common sandpiper	Actitis hypoleucos	A			PL, RS, UH		Migrant breeder
Golden Plover	Pluvialis apricaria	G	WYPS	LPS	UH		Needs focus on foraging habitats (e.g. in-bye land)
Lapwing	Vanellus vanellus	R, PS	WYPS	LPS	A, UG, UH		Has had lots of focus on uplands, but needs renewed focus on farmland and post-industrial habitat.
Dunlin	Calidris alpina	R	WYPS	LPS	UH		Blanket bog restoration would benefit this species

Snipe	Gallinago gallinago	A		LPS	UH, UG		
Woodcock	Scolopax rusticola	R		LPS	UOW, S, UH		Under-recorded in Calderdale. Would benefit from scrubland
Curlew	Numenius arquata	R, PS	WYPS	LPS	A, UH, UG		Has had lots of focus on uplands, but needs renewed focus on farmland and post-industrial habitat.
Redshank	Tringa tetanus	A		LPS	UH, PL		Low numbers breeding in Calderdale.
Laridae							
Black-headed Gull	Chroicocephalus ridibundus	A		LPS	PL, RS		
Common gull	Larus canus	A			PL, RS		
Herring Gull	Larus argentatus	R, PS			PL, RS		
Lesser Black-backed Gull	Larus fuscus	A			PL, RS		Migrant, come in for the winter
Common tern	Sterna hirundo	A			PL, RS		Would benefit from platforms or islands to breed on and around wetlands.
PIGEONS AND DOVES	COLUMBIFORMES						
Stock Dove	Columba oenas	A		LPS	DW		

CUCKOOS	CUCULIDAE						
Cuckoo	Cuculus canorus	R, PS	WYPS	LPS	DW, S		
WOODPECKERS	PICIFORMES						
Lesser Spotted Woodpecker	Dryobates minor	R		LPS	DW		
PASSERINES	PASSERIFORME						
Alaudidae							
Skylark	Alauda arvensis	R, PS	WYPS	LPS	UH, UG		
Hirundinidae							
Sand Martin	Riparia riparia	G		LPS	RS, PL		
House Martin	Delichon urbicum	R		LPS	U		
Swift	Apus apus	R	WYPS	LPS	U		
Accentors							
Dunnock	Prunella modularis	A, PS	WYPS	LPS	H		
Motacillidae							
Tree Pipit	Anthus trivialis	R, PS	WYPS	LPS	DW, S		
Meadow Pipit	Anthus pratensis	A		LPS	S, UH, UG		
Grey Wagtail	Motacilla cinerea	A		LPS	PL, RS		
Turdidae							
Song Thrush	Turdus philomelos	A, PS	WYPS	LPS	DW, S		
Mistle Thrush	Turdus viscivorus	A		LPS	G, DW, S		
Ring Ouzel	Turdus torquatus	R, PS	WYPS	LPS	UH		
Troglodytidae							
Wren	Troglodytes troglodytes	A			G, DW, H, S, UH, UG		

Sylviidae							
Garden warbler	Sylvia borin	A			DW, S		Migrant breeder
Grasshopper Warbler	Locustella naevia	R, PS	WYPS	LPS	F, RS		
Sedge Warbler	Acrocephalus schoenobaenus	A			PL		Resident breeder
Wood Warbler	Phylloscopus sibilatrix	R, PS	WYPS	LPS	DW, S		
Willow Warbler	Phylloscopus trochilus	A		LPS	DW, S, WW		
Lesser Whitethroat	Curruca curruca	A		LPS	S, UG		
Whitethroat	Curruca communis	A			H, S, UG		
Muscicapidae							
Spotted Flycatcher	Muscicapa striata	R, PS	WYPS	LPS	DW, S, UOW		
Pied Flycatcher	Ficedula hypoleuca	A		LPS	G, DW, P, S, UOW		Would benefit from nest boxes installed in areas which have been surveyed for suitability.
Redstart	Phoenicurus phoenicurus	A		LPS	H, DW, S, UOW		
Wheatear	Oenanthe Oenanthe	A		LPS	UH		
Whinchat	Saxicola rubetra	R		LPS	UH, UG		
Paridae							
Willow Tit	Poecile montanus	R, PS		LPS	C, S, WW		
Corvidae							
Raven	Corvus corax	G		LPS	DW, UOW		
Rook	Corvus frugilegus			LPS	A, DW, UG, U		Have been declining

							considerably in Calderdale
<i>Sturnidae</i>							
Starling	<i>Sturnus vulgaris</i>	R, PS	WYPS	LPS	G, P, U, UG		
<i>Passeridae</i>							
House Sparrow	<i>Passer domesticus</i>	R, PS	WYPS	LPS	A, U,		
Tree Sparrow	<i>Passer montanus</i>	R, PS	WYPS	LPS	A, DW, H		
<i>Fringillidae</i>							
Linnet	<i>Linaria cannabina</i>	R		LPS	UG, H, A		
Redpoll	<i>Acanthis flammea</i>	R		LPS	LMDW, H		Would benefit from habitat management.
Twite	<i>Linaria flavirostris</i>	R		LPS	UH, UG		
Bullfinch	<i>Pyrrhula pyrrhula</i>	A, PS	WYPS	LPS	DW, H		
Greenfinch	<i>Chloris chloris</i>	R		LPS	A, P, U		
Yellowhammer	<i>Emberiza citrinella</i>	R, PS	WYPS	LPS	UG, H, A		
Reed Bunting	<i>Emberiza schoeniclus</i>	A, PS	WYPS	LPS	F, RS, A		
Siskin	<i>Spinus spinus</i>	G		LPS	CW, DW		Would benefit from habitat management.
<i>Carduelidae</i>							
Crossbill	<i>Loxia curvirostra</i>	G		LPS	CW, UH		Benefit from the retention of conifer plantations.
<i>Cinclidae</i>							
Dipper	<i>Cinclus cinclus</i>	A		LPS	UH, RS		

NIGHTJARS	CAPRIMULGIFORMES						
Nightjar	Caprimulgus europaeus	A, PS	WYPS		UH, CW		

Key:

Priority:

A – Birds of Conservation Concern Amber List
R – Birds of Conservation Concern Red List
PS – UK Priority Species
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LPS – Local Priority Species

Habitat:

A Arable
BB Bat boxes
C Canals
CW Coniferous woodland
DW Deciduous woodland
G Gardens
GB Gravel Beds
F Fens
H Hedgerows and drystone walls
P Parkland
PL Ponds and lakes
R Reedbeds
RS Rivers and streams
S Scrub
UH Upland heathland and blanket bog
UG Unimproved grassland
UOW Upland oakwood
U Urban
VT Veteran trees
WW Wet Woodland

(Data on birds kindly provided by Calderdale Bird Conservation Group, Halifax Scientific Society, Upper Calderdale Wildlife Network and West Yorkshire Ecology Services)

REPTILES AND AMPHIBIANS

Calderdale has a number of nationally significant amphibians and reptiles and some that are considered as regional priority species due to their local rarity, endangered status or declining populations. The key threats to these species is habitat loss from development, unsustainable land use and climate change. Some of these species, such as adders, are also likely to be under-reported, highlighting the need for improved survey efforts and monitoring to accurately assess their populations and distribution.

Common name	Scientific name	National	Regional	Local	Habitat	Ref	Notes
REPTILES	REPTILIA						
Colubridae							
Grass snake	Natrix natrix	PS		LPS	UG, UH, RS		
Vipera							
Adder	Vipera berus	PS	WYPS	LPS	UH		
Zootoca							
Common Lizard	Zootoca vivipara	PS		LPS	H, UH		
AMPHIBIANS	AMPHIBIA						
Bufonidae							
Common Toad	Bufo bufo	PS	WYPS	LPS	G, PL, S		
Salamandridae							
Great Crested Newt	Triturus cristatus	PS	WYPS	LPS	G, PL		
Smooth Newt	Lissotriton vulgaris			LPS	G, PL		
Palmate Newt	Lissotriton helveticus			LPS	G, PL		

Key:

Priority:

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LPS – Local Priority Species

Habitat:

G	Gardens
H	Hedgerows and drystone walls
PL	Ponds and lakes
RS	Rivers and streams
S	Scrub
UH	Upland heathland and blanket bog
UG	Unimproved grassland

(Data on reptiles and amphibians kindly provided by West Yorkshire Ecology Services)

FISH

Fish populations in Calderdale's rivers and waterways are monitored semi-regularly by the Environment Agency and local partners to assess their health and distribution. A number of species are present or ought to be present, but challenges like habitat degradation and fragmentation and pollution continue to impact their populations.

Common name	Scientific name	National	Regional	Local	Habitat	Ref	Notes
Eel	ANGUILLIFORMES						
European Eel	Anguilla Anguilla	CE, PS	WYPS	LPS	R		
SALMONIDS	SALMONIFORMES						
Atlantic salmon	Salmo salar	PS		LPS	RS		
Brown trout	Salmo trutta	PS	WYPS	LPS	RS		
Grayling	Thymallus thymallus			LPS	RS		
MAIL-CHEEKED FISHES	SCORPAENIFORMES						
European bullhead	Cottus gobio			LPS	RS		
LAMPREY	PETROMYZONTIFORMES						
Lamprey	Petromyzontiformes			LPS	RS		

Key:

Priority:

CE - IUCN Critically Endangered

PS – UK Priority Species

WYPS – West Yorkshire Priority Species

LPS – Local Priority Species

Habitats:

RS Rivers and streams

(Data on fish kindly provided by the Environment Agency)

BUTTERFLIES AND MOTHS

Butterflies and moths in Calderdale are fairly well monitored, with new species regularly being added to the list through ongoing recording. These records help track trends in abundance and distribution, offering valuable insights into the local health of these important pollinators.

Common name	Scientific name	National	Regional	Local	Habitat	Ref	Notes
MOTHS	LEPIDOTERA						
Swift moths	Hepialidae						
Ghost Moth	Hepialis humili	PS	WYPS	LPS	UG		
Silk moths	Saturniidae						
Emperor Moth	Saturnia pavonia			LPS	UH		
Eggar moths	Lasiocampidae						
Oak Eggar	Lasiocampa quercus			LPS			
Drinker	Euthrix potatoria						
Hook-tip moths	Drepanidae						
Oak Hook-tip	Watsonalla binaria		WYPS	LPS	DW, P, UOW		
Pebble Hook-tip	Drepana falcata		WYPS	LPS			
Geometer moths	Geometridae						
Red Carpet	Xanthorhoe decoloraria	PS		LPS	UG, UH		
Dark-barred Twin-spot Carpet	Xanthorhoe ferrugata	PS	WYPS	LPS	DW, F, G, H, UG		
Shaded Broad-bar	Scotopteryx chenopodiata	PS	WYPS	LPS			
Galium Carpet	Epirrhoe galiata	PS	WYPS	LPS	UG, UH		
Grey Mountain Carpet	Entephria caesiata	PS	WYPS	LPS	UH		

Dark Spinach	Pelurga comitata	PS	WYPS	LPS	U		
Spinach	Eulithis mellinata	PS	WYPS	LPS	DW, G, P, S, U		
Small Phoenix	Ecliptopera silacea	PS	WYPS	LPS			
Streak	Chesias legatella	PS	WYPS	LPS			
Latticed Heath	Chiasmia clathrate	PS	WYPS	LPS			
V-moth	Macaria wauaria	PS	WYPS	LPS	G, H, P, S, DW		
August Thorn	Ennomos quercinaria	PS	WYPS	LPS			
Dusky Thorn	Ennomos fuscantaria	PS	WYPS	LPS	DW, U		
September Thorn	Ennomos erosaria	PS	WYPS	LPS	DW		
Brindled Beauty	Lycia hirtaria	PS	WYPS	LPS	DW, U		
Grey Scalloped Bar	Dyscia fagara			LPS	UH		
Tissue	Triphosa dubitata						
Erebidae	Erebidae						
White Ermine	Spilosoma lubricipeda	PS	WYPS	LPS			
Buff Ermine	Spilosoma lutea	PS		LPS			
The Cinnabar	Tyria jacobaeae	PS	WYPS	LPS			
Wood Tiger	Parasemia plantaginis				UG		
Owlet moths	Noctuidae						
White-line Dart	Euxoa tritici	PS		LPS	UG, UH		
Double Dart	Graphiphora augur	PS	WYPS	LPS	DW, UG		
Autumnal Rustic	Eugnorisma glareosa	PS	WYPS	LPS	UG, UH, S, DW		
Small Square- spot	Diarsia rubi	PS	WYPS	LPS			
Neglected Rustic	Xestia castanea	PS	WYPS	LPS			

Heath Rustic	Xestia agathina	PS	WYPS	LPS			
Dot Moth	Melanchra persicariae	PS	WYPS	LPS			
Broom Moth	Ceramica pisi			LPS	UH		
Feathered Gothic	Tholera decimalis	PS	WYPS	LPS			
Powdered Quaker	Orthosia gracilis	PS	WYPS	LPS			
Shoulder-striped Wainscot	Leucania comma			LPS – ditto			
Red Sword-grass	Xylena vetusta			LPS – ditto	UH		
Green-brindled Crescent	Allophyes oxyacanthae	PS	WYPS	LPS			
Flounced Chestnut	Anchoscelis helvola			LPS - ditto	UH		
Beaded Chestnut	Agrochola lychnidis	PS	WYPS		DW, G, H, S, UG, UH, U		
Centre-barred Sallow	Atethmia centrargo	PS	WYPS	LPS			
Sallow	Cirrhia icteritia	PS		LPS	DW, UH, WW		
Dusky-lemon Sallow	Cirrhia gilvago	PS		LPS	G, H, P, DW		
Grey Dagger	Acronicta Psi	PS	WYPS	LPS			
Mouse Moth	Amphipyra tragopoginis	PS	WYPS	LPS	F, G, UH, U		
Dusky Brocade	Apamea remissa	PS	WYPS	LPS			
Rosy Minor	Litoligia literosa			LPS	UG		
Ear Moth	Amphipoea oculea	PS	WYPS	LPS			
Butterbur	Hydraecia petasitis			LPS – ditto	C, RS		
Haworth's Minor	Celaena haworthii	PS	WYPS	LPS			
Rustic	Hoplodrina blanda	PS	WYPS	LPS			
Mottled Rustic	Caradrina Morpheus	PS	WYPS	LPS			
Anomalous	Stilbia anomala	PS			UH, UG		
Confused	Apamea furva						
Rosy Rustic	Hydraecia micacea	PS					

Large Wainscot	Rhizedra lutosa	PS					
Knot Grass	Acronicta rumicis	PS	WYPS	LPS			
Ermine moths	Yponomeutidae						
Ash Bud Moth	Prays fraxinella			LPS			
Tortrix moths	Tortricidae						
Northern Crescent	Grapholita lunulana						Nationally scarce
Acorn Piercer	Pammene fasciana			LPS			
Northern Marble	Phiaris palustrana						Nationally scarce
Northern Heath Twist	Philedonides lunana						Nationally scarce
Tansy Moth	Dichrorampha aeratana						Nationally scarce
Mottled Grey Tortrix	Gypsonoma opressana						Nationally scarce
Cowberry Marble	Stictea mygindiana						Nationally scarce
Case-bearer moths	Coleophoridae						
Heather Case-bearer	Coleophora pyrrhulipennella			LPS			
Red Clover Case - bearer	Coleophora frischella						Nationally scarce
Narrow lichen Case -bearer	Dahlica triquetrella						Nationally scarce
Lichen Case-bearer	Dahlica lichenella						Nationally scarce
Grass-miner moths	Elachistidae						

Woodland Grass-miner	Elachista obliquella						Nationally scarce
Sweet-grass Miner	Elachista poae						Nationally scarce
Moorland sedge miner	Elachista kilmunella						
Fungus moths	Tineidae						
Gold-speckled Fungus Moth	Nemaxera betulinella						Nationally scarce
Life-miner moths	Gracillariidae						
Cowberry Leaf-miner	Phyllonorycter junoniella						Nationally scarce
Goat Willow Leaf-miner	Phyllonorycter dubitella						Nationally scarce
Norway Maple Leaf-miner	Phyllonorycter joannisi						Nationally scarce
Momphidae	Momphidae						
Buff- headed Mompha	Mompha lacteella						Nationally scarce
Choreutidae	Choreutidae						
Alder Signaller	Stathmopoda pedella						Nationally scarce
Plume moths	Pterophoridae						
Saxifrage Plume	Stenoptilia millieridactyla			LPS			
Wood-sage Plume	Capperia britanniodactylus						Nationally scarce
Snout moths	Pyralidae						

Cacao Moth	Ephestia elutella						Nationally scarce
Miscellaneous moths							
Garden Dart	Euxoa nigricans	PS	WYPS	LPS			
Chimney Sweep	Odezia atrata			LPS	UG		Benefits from meadow restoration
Bilberry Dot	Stigmella myrtilella			LPS			
Lotus Pygmy	Trifurcula cryptella						Nationally scarce
Sycamore-seed Dot	Etania decentella						Nationally scarce
Northern Conclear	Denisia similella						Nationally scarce
Heath Concealer	Denisia subaquileia						Added as precautionary measure, needs more information.
Yellow-spotted Drab	Phauleris fulviguttella						Nationally scarce
Water Plantain Straw	Gynnidomorpha alismana						Nationally scarce
Brown Alder Roller	Epinotia sordidana						Nationally scarce
Phiaris schulziana	Phiaris schulziana						
BUTTERFLIES	PAPILIONEM						
Brush-footed butterflies	Nymphalidae						
White-letter Hairstreak	Satyrrium w-album	PS	WYPS		H, UG, DW		Found in anywhere with elm trees

Wall	Lasiommata megera	PS	WYPS	LPS	UG, RW		
Small Heath	Coenonympha pamphilus	PS	WYPS	LPS	UG, UH, U		
Dark Green Fritillary	Argynnis aglaja			LPS			Very rare, but planting Common Dog Violet and Marsh Violet can benefit this species.
Skippers	Erynnis tages						
Dingy Skipper	Erynnis tages	PS			S, U		
Whites and Yellows	Pieridae						
Green-veined White	Pieris napi			LPS			
Blues and Coppers	Lycaenidae						
Green Hairstreak	Callophrys rubi						
Purple Hairstreak	Favonius quercus						
Small Copper	Lycaena phlaeas						
Common Blue	Polyommatus icarus						
Holly Blue	Celastrina argiolus						

Key:

Priority:

PS – UK Priority Species

WYPS – West Yorkshire Priority Species

LPS – Local Priority Species

Habitat:

C	Canals
DW	Deciduous woodland
G	Gardens
F	Fens
H	Hedgerows and drystone walls
P	Parkland
RS	Rivers and streams
S	Scrub
UH	Upland heathland and blanket bog
UG	Unimproved grassland
UOW	Upland oakwood
U	Urban
WW	Wet Woodland

(Data on butterflies and moths kindly provided by Halifax Scientific Society, Upper Calderdale Wildlife Network and West Yorkshire Ecology Services)

BEETLES

Beetles in Calderdale are generally under-recorded and understudied, with little known about these species. More research is needed to better understand local invertebrate populations and the challenges they face from climate change and habitat loss.

Common name	Scientific name	National	Regional	Local	Habitat	Ref	Notes
Diving beetles	Dytiscidae						
Stictonectes lepidus	Stictonectes lepidus			LPS	C, PL		
Agabus arcticus	Agabus arcticus			LPS	C, PL		
Rhantus bistriatus	Rhantus bistriatus			LPS	C, PL		
Ground beetles	Carabidae						
Notiophilus quadripunctatus	Notiophilus quadripunctatus			LPS	UH, UG		
Trechus discus	Blemus discus			LPS	UG, RS		Found in wet grassland areas near rivers and waterways
Trechus rubens	Trechus rubens			LPS			
Bembidion (Diplocampa) clarkii	Bembidion clarkii			LPS	RS		Found in damp sites near to water
Bembidion fumigatum	Bembidion fumigatum			LPS			
Bembidion gilvipes	Bembidion gilvipes			LPS	DW, WW		
Bembidion obliquum	Bembidion obliquum			LPS	PL		Found at the edges of freshwater on acid soils.
Bembidion geniculatum	Bembidion geniculatum				C, PL, RS		Likes damp, sandy areas or clay on the edge of standing or running water.

Bembidion monticola	Bembidion monticola				RS		Likes bare or sparsely vegetated, fine sand on wooded, upland streambanks. The protection of undisturbed streambanks is essential for this species.
Bembidion nigricorne	Bembidion nigricorne				UH		
Bembidion prasinum	Bembidion prasinum				PL		Lives in wetland margins
Bembidion stephensi	Bembidion stephensi				PL		A generally rare wetland species
Bradycellus caucasicus	Bradycellus collaris				UH		
Carabus nitens	Carabus nitens				UH		
Philorhizus sigma	Philorhizus sigma			LPS	F		
Crucifix Ground Beetle	Panagaeus cruxmajor				F		
Anthracus consputus	Acupalpus consputus				GB, PL, RS		
Acupalpus flavicollis	Acupalpus flavicollis				RS		Lives near fresh, often running water on fine, moist sand
Weevils	Curculionidae						
Barynotus squamosus	Barynotus squamosus			LPS	DW		
Grypus equiseti	Horsetail Weevil			LPS			
Notaris bimaculatus	Tournotaris bimaculatus			LPS			
Notaris scirpi	Notaris scirpi			LPS			

Cneorhinus plumbeus	Attactagenus plumbeus			LPS	UG		Found in fields, meadows and roadsides
Water scavenger beetles	Hydrophilidae						
Cercyon convexiusculus	Cercyon convexiusculus			LPS	PL		
Cercyon lugubris	Cercyon obsoletus			LPS	PL		
Laccobius sinuatus	Laccobius sinuatus			LPS	PL		
Rove beetles	Staphylinidae						
Anotylus mutator	Anotylus mutator			LPS			
Stenus europaeus	Stenus europaeus			LPS			
Stenus niveus	Stenus niveus			LPS			
Gabrius bishop	Gabrius bishop			LPS			
Ocypus fuscatus	Ocypus fuscatus (Staphylinus fuscatus)			LPS	UG		
Atheta aquatilis	Atheta aquatilis			LPS			
Leptusa norvegica	Leptusa norvegica			LPS			
Bolitochara mulsanti	Bolitochara mulsanti			LPS			
Quedius balticus	Quedius molochinus				UH, UG		
Click beetles	Elateridae						
Melasis buprestoides	Melasis buprestoides			LPS	DW		
Elateroides dermestoides	Hylecoetus dermestoides			LPS	DW		Found in dead timber and root stumps
Soldier beetles	Cantharidae						
Blue Soldier Beetle	Ancistrionycha abdominalis			LPS	DW		Found in open areas of woodland and

							on the woodland edge
Malthodes pumilus	Malthodes pumilus				DW		
Root-eating beetles	Rhizophagidae						
Rhizophagus nitidulus	Rhizophagus nitidulus			LPS			
Minute brown scavenger beetles	Latridiidae						
Enicmus fungicola	Enicmus fungicola			LPS	DW, G		Found in compost and leaf litter
Ladybirds	Coccinellidae						
Lady bird	Hyperaspis pseudopustulata			LPS	UG		
Nephus quadrimaculatus	Nephus quadrimaculatus				DW, G		
Leaf beetles	Chrysomelidae						
Alder Leaf Beetle	Agelastica alni				PL, RS		Found in open, sunny areas in wetlands
Psylliodes chalconera	Psylliodes chalconera			LPS	S		Found in thistle buds and shoots, in scrubby areas
Psylliodes cuprea	Psylliodes cuprea						
Bromius obscurus	Bromius obscurus						
Cassida sanguinosa	Cassida sanguinosa						
Mantura rustica	Mantura rustica			LPS			
Scarab beetles	Scarabaeidae						
Northern Dung Beetle	Agoliinus lapponum			LPS	DW, UH		

Plagiogonus arenarius	Aphodius (Plagiogonus) arenarius						
Death-watch and spider beetles	Ptinidae						
Dorcatoma flavicornis	Dorcatoma flavicornis						
Marsh beetles	Scirtidae						
Elodes Pseudominutus	Elodes Pseudominuta						
Whitligig beetles	Gyrinidae						
Gyrinus natator	Gyrinus natator				PL, RS		Found in moving streams, ponds and marshes
Water beetles	Helophoridae						
Helophorus longitarsis	Helophorus longitarsis						
Bark beetles	Scolytidae						
Dryocoetinus alni	Dryocoetes alni			LPS	DW, P		Found in open, deciduous woodland and wooded parkland

Key:

Priority:

PS – Priority Species
WYPS – West Yorkshire Priority Species
LPS – Local Priority Species

Habitat:

C	Canals
DW	Deciduous woodland
G	Gardens
GB	Gravel Beds
F	Fens
P	Parkland
PL	Ponds and lakes
R	Reedbeds
RS	Rivers and streams
S	Scrub
UH	Upland heathland and blanket bog
UG	Unimproved grassland
UOW	Upland oakwood
WW	Wet Woodland

CRUSTACEA

White-clawed crayfish have been identified in one area of Calderdale, but they are under significant pressure from invasive, non-native Signal crayfish. Further surveys are needed to assess the current population size and explore the potential for reintroductions.

Common name	Scientific name	National	Regional	Local	Habitat	Ref	Notes
White-clawed Crayfish	Austropotamobius pallipes	PS	WYPS	LPS	C, PL, RS		Prefer calcareous waters, so upland streams generally not suitable for reintroductions.

Key:

Priority:

PS – Priority Species
WYPS – West Yorkshire Priority Species
LPS – Local Priority Species

Habitat:

C Canals
PL Ponds and lakes
RS Rivers and streams

OTHER INVERTEBRATES

Other invertebrates in Calderdale are generally under-recorded and understudied, with little known about these species. More research is needed to better understand local invertebrate populations and the challenges they face from climate change and habitat loss.

Common name	Scientific name	National	Regional	Local	Habitat	Ref	Notes
FLIES	DIPTERA						
Dance flies	Empididae						
Leptopeza borealis	Leptopeza borealis				RS, PL		
Hoverflies	Syrphidae						
Cheilosia ranunculi	Cheilosia ranunculi				UG, DW		Found in damp meadows and woodland clearings
Cheilosia mutabilis	Cheilosia mutabilis				UH, DW		
Chrysotoxum arcuatum	Chrysotoxum arcuatum			LPS	CW, DW, UG, WW		Found in woodlands and grasslands along streams and poorly drained areas
Heringia verrucula	Heringia verrucula				RS		
Leucozona glaucia	Leucozona glaucia			LPS	DW, RS		Found in woodlands, beside streams
Parasyrphus nigritarsis	Parasyrphus nigritarsis				PL, DW		Found in woodlands and wetlands
Snipe flies	Rhagionidae						
Liverwort snipefly	Spania nigra				RS		
Moorland Snipefly	Symphoromyia crassicornis						

Fungus gnats	Mycetophilidae						
Mycetophila abiecta	Mycetophila abiecta						
Neuratelia nigricornis	Neuratelia nigricornis						
Fungus gnats	Keroplastidae						
Manota unifurcata	Manota unifurcata				UOW		
Crane flies	Limoniidae						
Dicranota exclusa	Dicranota exclusa				UOW		
Dicranomyia chorea	Dicranomyia chorea				G, DW, UOW		Found in leaf litter in gardens and woodlands
Limonia aquosa	Dicranomyia aquosa			LPS	UOW		
Paradelphomyia nielseni	Paradelphomyia nielseni			LPS	UOW		
Pilaria fuscipennis	Pilaria fuscipennis			LPS	UOW		
Scleroprocta sororcula	Scleroprocta sororcula			LPS	UOW		
Tasiocera fuscescens	Tasiocera fuscescens				DW, UOW, WW		Found in wet areas of woodlands
Limnophila trimaculata	Limnophila trimaculata				UOW		
Hairy-eyed crane flies	Pediciidae						
Pedicia occulta	Pedicia occulta				UOW		
Pedicia rivosa	Pedicia rivosa				UOW		
Northern Yellow Splinter	Lipsothrix errans	PS			WW		
STONEFLIES	PLECOPTERA						
Nemouridae							
Amphinemura standfussi	Amphinemura standfussi				UH		

<i>Taeniopterygidae</i>							
Northern February Red	Brachyptera putata	PS			RS, UH, UG		Found in well-oxygenated upland rivers running through heathlands and grasslands
MAYFLIES	EPHEMEROPTERA						
<i>Ameletidae</i>							
Upland Summer Mayfly	Ameletus inopinatus				RS		Found in the cool waters of upland streams
TRUE BUGS	HEMIPTERA						
<i>Water striders</i>	<i>Gerridae</i>						
Aquarius paludum	Aquarius paludum				PL		
<i>Shore bugs</i>	<i>Saldidae</i>						
Salda morio	Salda morio				UH		Found in peat bogs at the margin of pools
GRASSHOPPERS AND CRICKETS	ORTHOPTERA						
<i>Grasshoppers</i>	<i>Acrididae</i>						
Woodland Grasshopper	Omocestus rufipes				UH, DW		
WASPS, ANTS AND BEES	HYMENOPTERA						
Wasps	Cynipidae						

Trybliographa cubitalis	Trybliographa cubitalis				UOW		
Ants	Formicidae						
Hairy Wood Ant	Formica lugubris			LPS	UOW		Found in wooded upland areas
Red Wood Ant	Formica rufa			LPS	CW, DW		
Bees	Apidae						
Bilberry Bumblebee	Bombus monticola			LPS	UH		
Moss Carder Bee	Bombus muscorum	PS			UG, UH		Found in bogs and flowery grasslands
Red-shanked Carder Bee	Bombus rudarius	PS			UG, S		

Key:

Priority:

PS – Priority Species

WYPS – West Yorkshire Priority Species

LPS – Local Priority Species

Habitat:

CW Coniferous woodland
DW Deciduous woodland
PL Ponds and lakes
RS Rivers and streams
S Scrub
UH Upland heathland and blanket bog
UG Unimproved grassland
UOW Upland oakwood
WW Wet Woodland

VASCULAR PLANTS

While Calderdale supports relatively few botanical species of national concern, key species can still be found. Although national conservation priorities are limited, there is a long list of native vascular plants occurring at a number of sites across the borough. Field work is needed to gain a deeper understanding of the species present in Calderdale.

Common name	Scientific name	National	Regional	Local	Habitat	Ref	Notes
FERNS AND ALLIES	PTERIDOPHYTA						
OPHIOGLOSSALES							
Ophioglossaceae							
Adder's Tongue	Ophioglossum vulgatum						
Moonwort	Botrychium lunaria						
POLYPODIALES							
Cystopteridaceae							
Oak fern	Gymnocarpium Dryopteris						In well-lit, rocky woods and upland areas. Often along watercourses and ravines
Hymenophyllaceae							
Killarney fern	Vandenboschia speciosa						
Wilson's filmy fern	Hymenophyllum wilsonii						In very humid places on tree bases, rocks and

							throughout humid river valleys.
<i>Thelypteridaceae</i>							
Beech fern	Phegopteris connectilis						On soils, boulders and wet rock faces.
<i>OSMUNDALES</i>							
<i>Osmundaceae</i>							
Royal fern	Osmunda regalis						
<i>FLOWERING PLANTS</i>	<i>ANGIOSPERMS</i>						
<i>ROSALES</i>							
<i>Rosaceae</i>							
Cloudberry	Rubus chamaemorus						
Stone bramble	Rubus saxatilis			LPS			
Wild strawberry	Fragaria vesca						
Great Burnet	Sanguisorba officinalis						
<i>RANUNCULALES</i>							
<i>Ranunculaceae</i>							
Ivy-leaved Crowfoot	Ranunculus hederaceus						
Greater spearwort	Ranunculus lingua						
Water avens	Geum rivale						
<i>CARYOPHYLLALES</i>							

<i>Caryophyllaceae</i>							
Wood stitchwort	Stellaria nemorum						
Bog stitchwort	Stellaria alsine						
Ragged robin	Lychnis flos-cuculi	NT					Found in damp meadows and along the sides of streams
<i>Amaranthaceae</i>							
Common Cudweed	Filago vulgaris	NT					Rare but a casual of disturbed ground
<i>Polygonaceae</i>							
Tasteless water-pepper	Persicaria mitis	VU					Further investigation, not seen by SH.
<i>POALES</i>							
<i>Cyperaceae</i>							
Flea sedge	Carex pulicaris	NT					
Greater Tussock-sedge	Carex paniculata	VU		LPS	B, M		
Slender Tufted-sedge	Carex acuta	VU					
Star Sedge	Carex echinate	VU					
<i>Poaceae</i>							
Quaking Grass	Briza media	NT					
Wood Barley	Hordelymus europaeus						

Wood Fescue	Festuca altissima						
ASPARAGALES							
Amaryllidaceae							
Wild daffodil	Narcissus pseudonarcissus						
Orchidaceae							
Bee Orchid	Ophrys apifera			LPS	UG		
Broad-leaved Helleborine	Epipactis helleborine						
ERICALES							
Droseraceae							
Round-leaved Sundew	Drosera rotundifolia	VU					
Great sundew	Drosera anglica	EN					
Ericaceae							
Bog rosemary	Andromeda polifolia	NT					
Cowberry	Vaccinium vitis- idaea						
Cross-leaved Heath	Erica tetralix						
Intermediate Wintergreen	Pyrola media	VU		LPS			
Pyrola rotundifolia subsp. Rotundifolia	Pyrola rotundifolia subsp. rotundifolia	NT					
Monotropaceae							
Yellow Bird's-nest	Monotropa hypopitys						

Primulaceae							
Yellow Loosestrife	Lysimachia vulgaris						
FABLES							
Fabaceae							
Petty whin	Genista anglica	VU					
Dyer's greenweed	Genista tinctoria	VU					
GENTIANALES							
Gentianaceae							
Autumn gentian	Gentianella amarella	NT					
Field gentian	Gentianella campestris	EN					
Common Centaury	Centaureum erythraea						
LAMIALES							
Boraginaceae							
Pale Forget-me-not	M. stolonifera			LPS	UH		Distribution not well known and associated habitat not well understood
Lamiaceae							
Wall Germander	Teucrium chamaedrys						
Corn Mint	Mentha arvensis						
Orobanchaceae							

Common Cow-wheat	Melampyrum pratense						
Scrophulariaceae							
Water figwort	Scrophularia auriculata						
Muskflower	Erythranthe moschata						
SOLANALES							
Solanaceae							
Deadly Nightshade	Atropa belladonna						
ASTERALES							
Asteraceae							
Rough Hawkbit	Leontodon hispidus						
Marsh Fleawort	Tephrosieris palustris	EX (listed as extinct on IUCN GB Red List, but we have records for this in Calderdale for 1981 – 1990 and 2011 - 2023)					Further investigation of this species required, in case of mis-identification.
SCROPHULARIALES							
Plantaginaceae							
Floating Water-plantain	Luronium natans	PS	WYPS	LPS	C		
Lentibulariaceae							

Common Butterwort	Pinguicula vulgaris						
CAPRIFOLIALES							
Caprifoliaceae							
Marsh Valerian	Valeriana dioica			LPS	B, M		
MYRTALES							
Onagraceae							
Bog bean	Menyanthes						
Upland Enchanter's- nightshade	Circaea lutetiana x alpina = C. x intermedia			LPS			Important species
VIOLALES							
Violaceae							
Yellow mountain Pansy	Viola lutea						
MALPIGHIALES							
Linaceae							
Fairy Flax	Linum catharticum						
FABALES							
Polygalaceae							
Heath Milkwort	Polygala serpyllifolia	NT					
SAXIFRAGALES							
Haloragaceae							

Alternate Water-milfoil	Myriophyllum alterniflorum			LPS	PL, RS		
Whorled Water-milfoil	Myriophyllum verticillatum	VU					
Saxifragaceae							
Alternate-leaved Golden-saxifrage	Chrysosplenium alternifolium			LPS	WW		
GERANIALES							
Geraniaceae							
Wood Crane's-bill	Geranium sylvaticum			LPS			
ALISMATALES							
Potamogetonaceae							
American Pondweed	Potamogeton epiphydrus	VU					

Key:

PS – UK Priority Species

WYPS – West Yorkshire Priority Species

LPS – Local Priority Species

CR – Critically Endangered (IUCN GB Red List)

EX – Extinct (IUCN GB Red List)

NT – Near Threatened (IUCN GB Red List)

VU – Vulnerable (IUCN GB Red List)

Habitat:

B Bogs

C Canals

F Fen

M Marsh

N Neutral Grassland

H Hedgerow

PL	Ponds and lakes
RS	Rivers and streams
UG	Unimproved grassland
UH	Upland heathland and blanket bog
UOW	Upland oakwood
WW	Wet woodland
W	Old Walls

(Data on vascular plants kindly provided by Halifax Scientific Society, the National Trust, Upper Calderdale Wildlife Network and West Yorkshire Ecology Services)

MOSSES AND LIVERWORTS

Mosses and liverworts are under-recorded in Calderdale, despite the borough's ideal combination of woodland and peatland habitats and wet weather that supports their growth. Field work is needed to contribute a deeper understanding of the species present in the borough. We are also actively seeking more lichen records to better inform our conservation efforts.

Common name	Scientific name	National	Regional	Local	Habitat	Ref	Notes
MOSESSES	BRYOPHYTA						
HOOKERIALES							
Daltoniaceae							
Irish daltonia	Daltonia splachnoides						
DICRANALES	DICRANALES						
Dicranaceae							
Beaked Bow-moss	Dicranodontium denudatum			LPS	DW, UH		Grows on decaying logs and on rocks and stones in old woodlands of conservation importance.
BARTRAMIALES	BARTRAMIALES						
Bartramiaceae							
Straight-leaved Apple-moss	Bartramia ithyphylla			LPS			
SPHAGNUM MOSSES	SPHAGNALES						
Sphagnaceae							
Papillose peatmoss	Sphagnum papillosum				UH		

Sphagnum medium	Sphagnum medium				UH		
Sphagnum capillifolium	Sphagnum capillifolium				UH		
Austin's sphagnum	Sphagnum austinii				UH		Absent from Calderdale, but a candidate for reintroduction
HYPNALES	HYPNALES						
Amblystegiaceae							
Flagellate Feather-moss	Hycomium armoricum						
Rusty Hook-moss	Scorpidium revolvens						
CLUBMOSES	LYCOPODIALES						
Lycopodiaceae							
Fir Clubmoss	Huperzia selago						
Stag's-horn Clubmoss	Lycopodium clavatum						
Alpine Clubmoss	Diphasiastrum alpinum						
LIVERWORTS	MARCHANTIOPHYTA						
JUNGERMANNIALES							
Scapaniaceae							
Grove Earwort	Scapania nemorea			LPS	LMDW, UOW		
Western earwort	Scapania gracilis						Humid rock faces and tree trunks.
Jubulaceae							
Hutchins' hollywort	Jubula hutchinsiae						Ravines, vertical rock faces and boulders in splash zone.

Hutchins' Hollywort	Jubula hutchinsiae			LPS	LMDW, UOW		
Plagiochilaceae							
Spotted featherwort	Plagiochila punctata						Trees and rock faces, usually close to watercourses.
Prickly featherwort	Plagiochila spinulosa						Trees and rock faces, usually close to watercourses.
Adelanthaceae							
Deceptive featherwort	Pseudomarsupidium decipiens (Adelanthus decipiens)						Dry rock faces in humid woods. Occasionally on tree bases or dead wood.
Lepidoziaceae							
Rock fingerwort	Lepidozia cupressina						Rocks, tree bases and decaying wood, often near ravines
PORELLALES							
Scapaniaceae							
Delicate Flapwort	Endogemma caespiticia						

Key:

LPS Local Priority Species

LMDW Lowland Mixed Deciduous woodland

UH Upland heathland and blanket bog

UOW Upland oakwood

FUNGI

Several nationally significant species of fungi are known to occur in Calderdale. However, assessing fungi can be challenging due to their unique ecology, as only the fruiting bodies are recorded. These appear only at specific stages of the lifecycle and some species only fruit once every 10 to 20 years. Survey work is ongoing to document fungi in Calderdale.

Common name	Scientific name	National	Regional	Local	Habitat	Ref	Notes
AGARICALES							
Waxcaps and allies	Hygrophoraceae						
Date Waxcap	Hygrocybe spadicea	PS	WYPS	LPS	UG		
Rosy Woodwax	Hygrophorus pudorinus	PS	WYPS	LPS	UG		
Pink Waxcap	Hygrocybe calyptriformis var. calyptriformis			LPS	UG		
Glistening Waxcap	Gloioxanthomyce				UG		Endangered
Jubilee Waxcap	Gliophorus reginae				UG		Vulnerable
Pinkgills	Entolomataceae						
Big Blue Pinkgill	Entoloma bloxamii	PS			UG		
Entoloma atromadidum	Entoloma atromadidum				UG		
Entoloma luteobasis	Entoloma luteobasis				UG		
Entoloma maximum	Entoloma maximum				UG		
Tricholomataceae							
Mealy Meadowcap	Pseudotricholoma metapodium				UG		Endangered
Lyophyllaceae							
Black Magic	Dermoloma magicum				UG		

CANTHARELLALES							
Club and Coral Fungi	Clavariaceae						
Straw Club	Clavaria straminea			LPS	UG		
PEZIZALES							
Discinaceae							
False Morel	Gyromitra esculenta			LPS	CW, DW		Grows on sandy soil in temperate coniferous forest and occasionally deciduous woodland
BOLETALES							
Boletes	Boletaceae						
Old Man Of The Woods	Strobilomyces strobilaceus			LPS	DW, UOW		
Ghost Bolete	Leccinum holopus			LPS	WW		Found beneath birch, mainly on wet heathland, woodland edges and scrub
Dusky Bolete	Porphyrellus porphyrosporus			LPS	CW, WW		
HELOTIALES							
Earthtongues	Geoglossaceae						
Olive Earthtongue	Microglossum olivaceum	PS			WW		

AGARICOMYCETES							
Squamanita							
Powdercap strangler	Dissoderma paradoxum				UG		

(Data on fungi kindly provided by the National Trust and West Yorkshire Ecology Services)

Key:

PS – UK Priority Species

WYPS – West Yorkshire Priority Species

LPS – Local Priority Species

Habitats:

CW Coniferous woodland

DW Deciduous woodland

UG Unimproved grassland

UOW Upland oakwood

WW Wet Woodland

LICHENS

Lichens are under-recorded in Calderdale, despite the borough's ideal combination of woodland habitats and wet weather that supports their growth. Field work is needed to contribute a deeper understanding of the species present in the borough. We are also actively seeking more lichen records to better inform our conservation efforts.

Common name	Scientific name	National	Regional	Local	Habitat	Ref	Notes
ACAROSPORALES							
Acarosporales							
Acarospora veronensis	Acarospora veronensis						
CALICIALES							
Physciaceae							
Buellia pulverea	Buellia pulverea						
VERRUCARIALES							
Verrucariaceae							
Verrucaria funckii	Verrucaria funckii						
LECIDEALES							
Lecideaceae							
Lecidea fuliginosa	Lecidea fuliginosa						
PELTIGERALES							
Collemataceae							
Cushion jelly' or 'Octopus suckers'	Gabura fascicularis (Collema fascicularis)				Ash, hazel, willow, elm and old oak		Base-rich bark and rock but particularly old, undisturbed hazel.

'Blobby' jelly-skin lichen	Leptogium brebissonii				Ash, hazel, willow, elm and old oak		On base-rich bark and mossy, base-rich rocks.
Frilly-fruited jelly-skin lichen	Leptogium burgessii				Ash, hazel, willow, elm and old oak		On base-rich bark and mossy, base-rich rocks.
Blue jelly-skin lichen	Leptogium cyanescens				Ash, hazel, willow, elm and old oak		On mossy, base-rich trees and rocks, usually near watercourses.
Lobariaceae							
Tree lungwort	Lobaria pulmonaria				Ash, hazel, willow, elm and old oak		On base-rich bark and rock
Lob scrob	Lobarina scrobiculata (Lobaria scrobiculata)				Ash, hazel, willow, elm and old oak		Mainly on old base-rich trees, occasionally rocks
Parchment lichen	Ricasolia amplissima (Lobaria amplissima)				Ash, hazel, willow, elm and old oak		Mainly on old base-rich trees, occasionally rocks
Green satin lichen	Ricasolia virens (Lobaria virens)				Ash, hazel, willow, elm and old oak		On base-rich bark and rock. More shade-tolerant than other Lobaria species.
Nephromataceae							
A kidney lichen	Nephroma laevigatum				Ash, hazel, willow, elm and old oak		On base-rich bark and rock.

Powdery kidney lichen	Nephroma parile				Ash, hazel, willow, elm and old oak		On base-rich bark and rock.
Pannariaceae							
Brown-shingle lichen	Nevesia sampaiana (Fuscopannaria sampaiana)				Ash, hazel, willow, elm and old oak		Base-rich bark on old trees.
Mealy-rimmed shingle lichen	Pannaria conoplea				Ash, hazel, willow, elm and old oak		On mossy, base-rich trees
Red-eyed shingle lichen	Pannaria rubiginosa				Ash, hazel, willow, elm and old oak		On mossy, base-rich trees and rocks.
Black-bordered shingle lichen	Parmeliella triptophylla				Ash, hazel, willow, elm and old oak		On shaded, mossy base-rich trees and rocks
Peltigeraceae							
Floury dog lichen	Peltigera collina				Ash, hazel, willow, elm and old oak		On mossy, base-rich trees and rocks
A dog lichen	Peltigera collina				Ash, hazel, willow, elm and old oak		On mossy, base-rich trees and rocks
Pseudocyphellariaceae							
Yellow specklebelly	Pseudocyphellaria citrina (Pseudocyphellaria crocata)				Ash, hazel, willow, elm and old oak		In sheltered woods on mossy, base-rich trees and rocks
Norwegian specklebelly	Pseudocyphellaria norvegica				Ash, hazel, willow, elm and old oak		In sheltered woods on mossy, base-rich trees and rocks.

Stictaceae							
A stinky Sticta	Sticta fuliginosa s. lat.				Ash, hazel, willow, elm and old oak		On mossy, base-rich trees and rocks.
Floury Sticta	Sticta limbata				Ash, hazel, willow, elm and old oak		On mossy, base-rich trees and rocks
A stinky Sticta	Sticta sylvatica				Ash, hazel, willow, elm and old oak		On mossy, base-rich trees and rocks
LECANORALES							
Parmeliaceae							
Horsehair lichen	Bryoria fuscescens				Oak, birch and alder		On acid bark trees and rock - very sensitive to air pollution.
Black-eyed Susan	Bunodophoron melanocarpum				Oak, birch and alder		On mossy, acidic rock
Speckled sea-storm lichen	Ceterelia olivetorum s. lat.				Oak, birch and alder		On mossy acid-bark trees, rarely on rock.
Smooth loop lichen	Hypotrachyna laevigata				Oak, birch and alder		On mossy acid-bark trees and acid rock
Green loop lichen	Hypotrachyna sinuosa				Oak, birch and alder		On well-lit acid-bark trees and rocks e.g. woodland edges, wood pasture.
Tailed loop lichen	Hypotrachyna taylorensis				Oak, birch and alder		On mossy acid-bark trees and acid rocks.
Tree flute	Menegazzia terebrata				Oak, birch and alder		On shaded acid bark, including

							heather stems, and acidic rocks.
Hairy-spined shield lichen	Parmelinopsis horrescens				Oak, birch and alder		On acid to neutral bark.
Desperate Dan	Parmotrema crinitum				Oak, birch and alder		On well-lit, mossy, acid-bark trees and rock
MYCOBLASTALES							
Mycoblastaceae							
Bloody-heart lichen	Mycoblastus sanguinarius				Oak, birch and alder		On acid bark and rock, also on lignum.
PERTUSARIALES							
Ochrolechiaceae							
A cudbear lichen	Ochrolechia tartarea				Oak, birch and alder		On acid bark and rock.
SPHAEROPHORACEAE							
Sphaerophoraceae							
A coral lichen	Sphaerophorus globosus				Oak, birch and alder		On well-lit mossy acid-bark trees and rock. Also directly on peaty soils.