

Important Butterflies & Moths of the CNP

An example of the consultation work done with species experts for one species group, similar work is nearing completion with other groups

Lepidoptera species incorporating butterflies, macro and micro moths - Produced by local and national experts

Priority Status	Species	Common name	Taxon Group	Cairngorms-ness	Cairngorms significance (% UK popn)	International obligations	Red Data Book List	Decline (if known)	Data for Decline	Threat (if know)	Type of Threat	Data for threat	Expert Opinion	When last seen in CNP	Knowledge base	Habitat preference	Notes
very high	<i>Lampronia pubicornis</i>		insect - moth	Y	c30%	N	pRDB1	Not known					Mark Young	2002	Poorly known	Lowland scrub	Feeds on rose but little known
very high	<i>Callisto coffeella</i>		insect - moth	Y	100%	N	pRDB1	Not known					Mark Young	2005		Upland Salix scrub	Larvae feed on Salix myrsinifolia in upland scrub only in Cairngorms
very high	<i>Paraleuoptera sinuella</i>		insect - moth	Y	100%	N	?Extinct	Possibly extinct			Habitat still present		Mark Young	1950		Aspen woods	Only ever found feeding on aspen near Aviemore and Grantown, not seen for over 50 years
very high	<i>Coleophora arctostaphyli</i>		insect - moth	Y	100%	N	pRDB1	Not known		Y	Loss of managed Arctostaphylos heath		Mark Young	2000		Arctostaphylos heath	Larvae on Arctostaphylos
very high	<i>Coleophora pappiferella</i>		insect - moth	Y	100%	N	pRDB1	Not known					Mark Young	2000		Grassland	Larvae on mountain everlasting, one Cairngorm site in mainland Britain
very high	<i>Ethmia pyrausta</i>		insect - moth	Y	c75%	N	pRDB1	Not known		Y	Possible impact of climate warming		Mark Young	2008	Poorly known	Grassland, with meadowrue	Mostly at high altitude in Cairngorms, with one other site near Shin Valley
very high	<i>Gnorimoschema strelicella</i>		insect - moth	Y	100%	N	?Extinct	Probably extinct					Mark Young	1909	Poorly known	Heathland	Last seen near Aviemore
very high	<i>Scrobipalpa murinella</i>		insect - moth	Y	c25%	N	pRDB2	Not known					Mark Young	2005		Rich grassland	Feeds on <i>Antennaria</i>
very high	<i>Synopacma albifrontella</i>		insect - moth	Y	100%	N	pRDB1	Not known					Mark Young	2001	Poorly known	Grassland	Once found near Braemar at only British site
very high	<i>Eana argentana</i>		insect - moth	Y	100%	N	pRDB1/Extinct	Not known					Mark Young	1990		Grassland	One site only in UK, in Glen Tilt
very high	<i>Epione vespertaria</i>	Dark Bordered Beauty	insect - moth	Y	100% Scotland, 75%	N	RDB, UKBA	Slight Increase in range	UKBAP Steering Group	Y	Small area of occupied habitat, succession, inappropriate management, development	UKBAP Steering Group	TP, MY, RL, PM, MT	2011	9	Aspen woodland	only 3 Populations
very high	<i>Zygaena exulans</i>	Mountain Burnet	insect - moth	Y	100%	N	RDB, SBL	Slight Increase in range	PM sabbatical, BSG	Y?	Climate change?	PM sabbatical, BSG	TP, MY, RL, PM, MT	2011	7	Montane	max 6 known colonies in small area
very high	<i>Anarta cordigera</i>	Small Dark Yellow Underwing	insect - moth	Y	75%	N	UKBAP, SBL	Decline	NMRS	N?	Inappropriate management, development	NMRS & expert opinion	TP, MY, RL, PM, MT	2010?	4	Arcto heath	v few records despite targeted recording, v concerned, Precise habitat requirements unknown
very high	<i>Endromis versicolora</i>	Kentish Glory	insect - moth	Y	70%	N	SBL, Na	Stable/decline?	NMRS	Y	Succession, inappropriate management, development	NMRS & expert opinion	TP, MY, RL, PM, MT	2011	7	Regenerating birch	under-recorded?, Still OK at most key sites? Needs transitional habitat
high	<i>Nematopogon picarella</i>		insect - moth	Y	~40%	N	pRDB1	Not known					Mark Young	2005		On bracket fungi	Highland valleys
high	<i>Archinemapogon yildizae</i>		insect - moth	Y	>75%	N	pRDB1	Not known					Mark Young	2005		On bracket fungi	Highland valleys
high	<i>Leucophaea orobi</i>		insect - moth	Y	c40%	N	pRDB1	Not known					Mark Young	2000	Poorly known	Rich grassland	On vetches
high	<i>Kessleria saxifragae</i>		insect - moth	Y	c30%	N	pRDB3	Not known					Mark Young	2008		Limey springs and flushes	On <i>Saxifraga aizoides</i> in limey flushes
high	<i>Depressaria olerella</i>		insect - moth	Y	c40%	N	pRDB1	Not known					Mark Young	2006	Poorly known	Grass verges	Feeds on yarrow and very little known
high	<i>Levipalpus hepatariella</i>		insect - moth	Y	c75%	N	pRDB1	Not known					Mark Young	2011		Burnt or bare areas on heathland	Feeds on mountain everlasting
high	<i>Dichomeris juniperella</i>		insect - moth	Y	c60%	N	pRDB1	Not known					Mark Young	2011		Juniper scrub	Feeds in spinnings in dense juniper leaves
high	<i>Xystophora pulveratella</i>		insect - moth	Y	c30%	N	pRDB2	Not known					Mark Young	2005		Natural grassland	Feeds on <i>Latu s</i>
high	<i>Athrips tetrapunctella</i>		insect - moth	Y	c25%	N	pRDB2	Not known					Mark Young	2005		Natural grassland	Feeds on <i>Lathyrus</i>
high	<i>Xennolechia aethiops</i>		insect - moth	Y	c10%	N	pRDB3	Not known					Mark Young	2010		Species-rich heath	Feeds on <i>Erica</i>
high	<i>Acleris lipsiana</i>		insect - moth	Y	c40%	N	pRDB3	Not known					Mark Young	2011		Damp moorland	Feeds on <i>Myrica</i> and ericaceous shrubs
high	<i>Ancylis tineana</i>		insect - moth	Y	c65%	N	pRDB2	Not known					Mark Young	2010		Birchy heathland	Only feeds on heavily grazed small birches
high	<i>Pammene luedersiana</i>		insect - moth	Y	c25%	N	pRDB1	Not known					Mark Young	2006	Poorly known	Species-rich heath	Feeds on <i>Myrica</i>
high	<i>Xestia alpica</i>	Northern Dart	insect - moth	N?	60%	N	UKBAP, Na	Decline	NMRS	Y?	Climate change?	NMRS & expert opinion	TP, MY, RL, PM, MT	2011	6	Montane	Cairngorm may become a refuge
high	<i>Glacies coracina</i>	Black Mountain Moth	insect - moth	N?	45%	N	Na	Unknown	NMRS	Y?	Climate change?	NMRS & expert opinion	TP, MY, RL, PM, MT	2011	5	Montane	Cairngorm may become a refuge
high	<i>Anarta melanopa</i>	Broad-bordered White Underwing	insect - moth	N?	30%	N	RDB	Unknown	NMRS	Y?	Climate change?	NMRS & expert opinion	TP, MY, RL, PM, MT	2011	5	Montane	Cairngorm may become a refuge
medium	<i>Stigmella dryadella</i>		insect - moth	Y	c20%	N	pRDB1	Not known					Mark Young	2005		Upland heath	Only feeds on <i>Dryas</i> leaves
medium	<i>Stigmella poterii f. tengstroemi</i>		insect - moth	Y	~60%	N	Nb	Not known					Mark Young	2005	Poorly known	Upland heath	Forms larval mines in Cloudberry leaves at high altitude. Foodplant form of a more wide-spread species
medium	<i>Nematopogon magna</i>		insect - moth	Y	Possibly 50%	N	pRDB2	Not known					Mark Young	2010	Poorly known	Mid-altitude moorland	Distribution very poorly known
medium	<i>Bucculatrix humiliella</i>		insect - moth	Y	~75%	N	pRDB3	Not known					Mark Young	2008		Grass verges	Larvae feed on yarrow leaves
medium	<i>Argyresthia praecocella</i>		insect - moth	Y	c25%	N	pRDB3	Not known		Y	Reduction in juniper woodland		Mark Young	2010		Juniper scrub	Only in juniper scrub
medium	<i>Argyresthia abdominalis</i>		insect - moth	Y	c10%	N	pRDB2	Not known		Y	Reduction in juniper woodland		Mark Young	2010		Juniper scrub	Only in juniper scrub
medium	<i>Argyresthia aurulentella</i>		insect - moth	Y	c30%	N	pRDB3	Not known		Y	Reduction in juniper woodland		Mark Young	2010		Juniper scrub	Only in juniper scrub
medium	<i>Coleophora glitzella</i>		insect - moth	Y	~50%	N	Na	Not known					Mark Young	2010		Open woodland	Larvae on cowberry
medium	<i>Coleophora idaeella</i>		insect - moth	Y	100%	N	pRDB2	Not known					Mark Young	2010		Open woodland	Larvae on cowberry
medium	<i>Elachista orstadii</i>		insect - moth	Y	c30%	N	pRDB3	Not known					Mark Young	2000	Poorly known	Grassland	Habits very little known
medium	<i>Elachista eskoi</i>		insect - moth	Y	c30%	N	pRDB2	Not known					Mark Young	2003	Poorly known	Natural grassland	Likely to be a grass feeder
medium	<i>Depressaria siliacina</i>		insect - moth	Y	100%	N	pRDB2	Not known					Mark Young	2000		Grass verges	Feeds on yarrow
medium	<i>Exaeretia ciniflonella</i>		insect - moth	Y	c60%	N	pRDB1	Not known					Mark Young	2011		Birch woodland	Feeds on birch
medium	<i>Prolita solutella</i>		insect - moth	Y	c50%	N	pRDB2	Not known		Y	Reduction in <i>Genista</i>		Mark Young	2010		Grassy heaths	Feeds on <i>Genista</i> , itself declining
medium	<i>Olethreutes metallicana</i>		insect - moth	Y	c40%	N	pRDB2	Not known					Mark Young	2011		Bilberry understory in woodland	Feeds on bilberry and characteristic of open pine and birch woodland
medium	<i>Olethreutes obsoletana</i>		insect - moth	Y	c50%	N	pRDB3	Not known		Y	Possible impact of climate warming		Mark Young	2011		Upland grassland	Mountain species
medium	<i>Cydia cognatana</i>		insect - moth	Y	c35%	N	pRDB2	Not known					Mark Young	2000		Pine woodland	Only found in mature Scots pine woodland
medium	<i>Catoptria permutatella</i>		insect - moth	Y	c60%	N	Na	Not known					Mark Young	2011		Open woodland	Specialist of Deeside and some Perthshire glens
medium	<i>Catoptria furcatellus</i>		insect - moth	Y	c40%	N	Na	Not known		Y	Possible impact of climate warming		Mark Young	2010		Upland grassland	Mountain species
medium	<i>Eudonia alpina</i>		insect - moth	Y	c50%	N	Na	Not known		Y	Possible impact of climate warming		Mark Young	2010		Grassland	Mostly a mountain species but rarely at lower levels in Speyside and north to Shetland.
medium	<i>Macaria carbonaria</i>	Netted Mountain Moth	insect - moth	Y	90%	N	UKBAP, SBL	Stable	NMRS	Y	Inappropriate management, development	NMRS & expert opinion	TP, MY, RL, PM, MT	2011	7	Arcto heath	More widespread/common than SDYU
medium	<i>Protolampra sobrina</i>	Cousin German	insect - moth	Y	80%	N	UKBAP, SBL	Stable	NMRS	Y	Inappropriate management, development	NMRS & expert opinion	TP, MY, RL, PM, MT	2011	6	Birch woodland	precise habitat requirements unclear

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medium	<i>Brachionycha nubeculosa</i>	Rannoch Sprawler	insect - moth	Y	55%	N	RDB	Stable	NMRS	Y	Inappropriate management, development	NMRS & expert opinion	TP, MY, RL, PM, MT	2011	8	Open mature birch	
medium	<i>Polia trimaculosa</i>	Silvery Arches	insect - moth	Y	55% Scotland, 30%	N	Nb	Decline?	NMRS	Unknown		NMRS & expert opinion	TP, MY, RL, PM, MT	2010	4	Scrubby woodland on moorland	
medium	<i>Perizoma minorata</i>	Heath Rivulet	insect - moth	Y	60% Scotland, 50%	N	Nb	Decline?	NMRS	Unknown		NMRS & expert opinion	TP, MY, RL, PM, MT	2010	4	Moorland & upland pasture	Possible decline. Very few recent records, poss overlooked as diurnal?
medium	<i>Boloria euphrosyne</i>	Pearl-bordered Fritillary	insect - butterfly	N	10%	N	UKBAP, SBL	National Decline. 10 years	BNM & UKBMS	Y?	Inappropriate management, succession	BNM & expert opinion	TP, MY, RL, PM, MT	2011	8	South facing woodland edges/glades	Doing better in Deeside than Speyside? Good network of colonies in Deeside and Speyside
low	<i>Itame brunneata</i>	Rannoch Looper	insect - moth	N	25%	N	Na	Decline?	NMRS	Unknown		NMRS & expert opinion	TP, MY, RL, PM, MT	2011	6	Blaeberry glades in woodland	
low	<i>Xylota exsoleta</i>	Sword-grass	insect - moth	N	35% Scotland, 30%	N	UKBAP, Nb	Decline	NMRS	Unknown		NMRS & expert opinion	TP, MY, RL, PM, MT	2011	4	Upland	Cairngorm may become a refuge
low	<i>Apamea zeta</i>	Northern Arches	insect - moth	N	20% (A. zeta), 30%	N	Na	Decline?	NMRS	Unknown		NMRS & expert opinion	TP, MY, RL, PM, MT	2011	4	Upland moorland	Cairngorm may become a refuge, endemic subspecies in Scotland. Under-recorded more widespread out of park than records suggest
low	<i>Acronicta euphorbiae</i>	Sweet Gale	insect - moth	N	35%	N	Na	Decline?	NMRS	Unknown		NMRS & expert opinion	TP, MY, RL, PM, MT	2011	4	Moorland	
low	<i>Lycia lapponaria</i>	Rannoch Brindled Beauty	insect - moth	N	20%	N	Na	Decline	NMRS	Unknown		NMRS & expert opinion	TP, MY, RL, PM, MT	2011	6	Moorland	few recent records
low	<i>Thera cognata</i>	Chestnut-coloured Carpet	insect - moth	N	25%	N	Nb	Slight decline?	NMRS	Unknown		NMRS & expert opinion	TP, MY, RL, PM, MT	2011	4	Woodland & Moorland with juniper	
low	<i>Gnophos abfuscata</i>	Scotch Annulet	insect - moth	N	30%	N	Nb	Decline?	NMRS	Unknown		NMRS & expert opinion	TP, MY, RL, PM, MT	2011	4	Upland & Moorland	
low	<i>Thumatha senex</i>	Round-winged Muslin	insect - moth	N	40% (Scotland) 1%	N	SBL, Local	Unknown	NMRS	Unknown		NMRS & expert opinion	TP, MY, RL, PM, MT	2008	4	Wetland	Little info, few records
low	<i>Clostera curtula</i>	Chocolate-tip	insect - moth	N	100% (Scotland) <	N	Local	Unknown	NMRS	Unknown		NMRS & expert opinion	TP, MY, RL, PM, MT	2008	6	Woodland	Little info, few records
low	<i>Clostera pigra</i>	Small Chocolate-tip	insect - moth	N	20% (Scotland) 2%	N	Nb	Decline	NMRS	Unknown		NMRS & expert opinion	TP, MY, RL, PM, MT	2008	6	Woodland	Little info, few records
low	<i>Erynnis tages</i>	Dingy Skipper	insect - butterfly	N	10% (Scotland) <1%	N	UKBAP, SBL	Decline	BNM	Y	Inappropriate management, succession	BNM & expert opinion	TP, MY, RL, PM, MT	2011	8	Tracksides, riverbanks	One of only two inland sites in Scotland?
low	<i>Cupido minimus</i>	Small Blue	insect - butterfly	N	10% (Scotland) <1%	N	UKBAP	Decline	BNM	Y	Inappropriate management, succession	BNM & expert opinion	TP, MY, RL, PM, MT	2011	8	Tracksides, riverbanks	Only remaining inland site in Scotland?
low	<i>Aricia artaxerxes</i>	Northern Brown Argus	insect - butterfly	N	10%	N	UKBAP, SBL	Stable?	BNM	Unknown	Inappropriate management?	BNM & expert opinion	TP, MY, RL, PM, MT	2011	8	Species-rich grassland	OK maybe increasing

**Acronyms**  
Red Data list column: pRDB = provisional Red Data Book assessment ; RDB1 = endangered; RDB2 = vulnerable; RDB3 = rare; Na = Nationally scarce A, found in 16 - 30 1km squares in the UK; Nb = Nationally scarce B, found in 30 - 100 1km squares; Local = found in 101 - 300 1km squares  
BNM = Butterflies for the New Millennium recording scheme  
UKBMS = UK Butterfly Monitoring Scheme  
NMRS = National Moth Recording Scheme  
UKBAP = UK Biodiversity Action Plan  
SBL = Scottish Biodiversity List  
A body of local and national experts produced this list: TP = Tom Prescott; MY = Mark Young; RL = Roy Leverton; PM = Pete Moore; MT = Mike Taylor, MP = Mark Parsons