

### **Notes on the Scottish Macro-moth List, 2015**

This list aims to include every species of macro-moth reliably recorded in Scotland, with an assessment of its Scottish status, as guidance for observers contributing to the National Moth Recording Scheme (NMRS). It updates and amends the previous lists of 2009, 2011, 2012 & 2014.

The requirement for inclusion on this checklist is a minimum of one record that is beyond reasonable doubt. Plausible but unproven species are relegated to an appendix, awaiting confirmation or further records. Unlikely species and known errors are omitted altogether, even if published records exist. Note that inclusion in the *Scottish Invertebrate Records Index (SIRI)* does not imply credibility. At one time or another, virtually every macro-moth on the British list has been reported from Scotland. Many of these claims are almost certainly misidentifications or other errors, including name confusion. However, because the County Moth Recorder (CMR) has the final say, dubious Scottish records for some unlikely species appear in the NMRS dataset.

A modern complication involves the unwitting transportation of moths inside the traps of visiting lepidopterists. Then on the first night of their stay they record a species never seen before or afterwards by the local observers. Various such instances are known or suspected, including three for my own vice-county of Banffshire. Surprising species found in visitors' traps the first time they are used here should always be regarded with caution.

Clerical slips – the wrong scientific name scribbled in a notebook – have long caused confusion. An even greater modern problem involves errors when computerising the data. Such errors are beginning to outweigh misidentifications as the cause of false records, a tribute to the advances that have been made in recent years with the help of modern field guides and internet forums. Computer input errors are particularly prevalent when species are entered by a code number - transposed digits are inevitable sooner or later. Since there is no logic or pattern about such errors, they can be particularly dangerous. The 'experienced observer, unmistakable species' argument is of no use here. Thus a Scarce Burnished Brass claimed for Aberdeenshire in 2013 turned out to be a misentered code for Small Autumnal Moth when queried. There have been many similar instances, particularly affecting the large Rothamsted Insect Survey (RIS) dataset.

Assessments of Scottish status have been reviewed where necessary to take account of range expansions or declines, plus increased knowledge. These assessments are necessarily brief and subjective. They also assume that suitable habitat for the species is present in an area. Note that UK designations such as RBD apply in Scotland too. The geographical terms used are broad: S means south of the River Tay, while W and E divide the country roughly in two. For greater detail of distributions, consult the latest NMRS maps online, particularly those prepared by Mark Cubitt on the Butterfly Conservation East Scotland Branch website. On the same website, the flight time histograms give a good indication of regional abundance too.

The Scottish Macros List follows the revised British checklist of Agassiz *et. al*, (2013). Note that this omits a Scottish designation for 29 of the species on the main Scottish list, yet includes as Scottish nine species for which I have no confirmed record.

### **Species added to the Scottish Macro-moths List since the previous version (January 2014)**

Large Twin-spot Carpet *Xanthorhoe quadrifasiata*, 28 July 2014, Aberlady, VC84, John Harrison.

A female in fair condition, at mv (photo). Totally unexpected: 200km north of its British range.

Pimpinel Pug *Eupithecia pimpinellata*, 2 July and 17 July 2014 (three), St. Abbs, VC81, Barry Prater.

Photos. Previous old Scottish records may have been correct.

Beaded Chestnut *Agrochola lychnidis*, VC86: 1937, 1947, 1953, 1959, 1960, 1976, Cedric Holmes.

Six specimens in Falkirk Museum (photos per David Bryant). Upgraded from Appendix.

This suggests that at least some of the other old records may well have been correct.

Thus the main Scottish Macro-moth List now comprises 563 species, including adventives. The Appendix contains a further 21 plausible but unconfirmed species. If anyone can provide convincing evidence for these, or for any other additions, I would be very pleased to hear from them.

### **Some significant recent Scottish records**

Chinese Character *Cilix glaucata*, 12 June 2014, Flanders Moss VC87, David Bryant. Photo.

At northern edge of range – spreading?

Oleander Hawk-moth, *Dapnis nerii*, 19 Nov 2014, Stirling, VC86, per Heather Young. Photo.

Others reported further south, so most likely a genuine immigrant. Wow!

Blomer's Rivulet *Venusia blomeri*, 21 June 2014, Invermoriston VC96, Julie Stoneman. Photo.

This follows the 2013 discovery of this species in VC97, where more were found in 2014.

Sloe Pug *Pasiphila chloerata*, 4 July 2014, Auchendinny, Edinburgh, VC83, Peter Keightley. Photo.

Previously only in Dumfries & Galloway.

Bilberry Pug *Pasiphila debiliata*, two, 29 June 2014, Glen Moriston VC96, Julie Stoneman. Photos.

Surprisingly local in Scotland despite huge areas of apparently ideal habitat.

Plain Pug *Eupithecia simplicata*, 6 July 2014, Prestongrange, VC82, Colin Davison. Photo.

Only the third Scottish locality.

Thyme Pug *Eupithecia distinctaria*, 30 June 2014, Cramalt Burn, VC78, Teyl de Bordes. Photo.

Scarce, local and mainly western coasts; on limestone here.

Peacock Moth *Macaria notata*, 13 June 2014, St. Ola, Orkney VC111, N. Charlton. Photo.

Furthest north; still expanding range.

Lilac Beauty *Apeira syringaria*, 19 June 2014, Glasdrum, Argyll VC98, Andrew Masterman. Photo.

Still expanding northwards, both in west and east.

White-pinion Spotted *Lomographa bimaculata*, 2 June 2014, Mugdock, VC86, John Knowler. Photo.

Still expanding northwards since first Scottish record in VC73, 1997.

Straw Dot *Rivula sericealis*, 11 July 2014, Starhill nr. Keith, VC94, Barry Foster. Photo.

Recent arrival in NE Scotland after easterly range expansion; formerly mainly western.

Dewick's Plusia *Macdunnoughia confusa*, 17 Sept. 2014, Kirkwall, Orkney VC111, A. Stanger. Photo.

Fourth Scottish record of this rare migrant, all in the Northern Isles.

Chamomile Shark *Cucullia chamomillae*, larvae 13 July 2014, Nigg Bay, VC106, Nigel Richards. Photo.

Three larvae, deliberately sought and found, the most northerly record.

Obscure Wainscot *Leucania obsoleta*, 23 June 2014, Humbie, VC82. Jeremy Wilson. Photo.

Previously only in Dumfries & Galloway, the first Scottish record being in 2002.  
Northern Dart *Xestia alpicola*, 65 on 12 July 2014, site withheld, VC78, Teyl de Bordes & M. Lindsay.  
Amazing numbers and a remarkable record, the first for the Borders. Photos.

Note that all these records were backed up by photographs. In some cases the moth was only identified from the photo, while other records would doubtless have been regarded as unproven without this evidence. The digital camera has certainly revolutionised moth recording in recent years. But there are worrying dangers. Three instances of attempted fraud were brought to my attention in 2014, with wholly improbable claims supported by a photograph of the species in question. However, in two cases we found that very same image on the internet – one on a website based in Australia and the other in Florida. Presumably the claims were meant as a spoof or joke.

### **Acknowledgements**

I am grateful to all the observers and CMRs who responded so willingly to my endless queries or requests for information, then gave permission to use it. The task of producing this list was made very much easier by the flight histograms and up-to-date distribution and abundance maps for Scottish species created by Mark Cubitt, using the latest NMRS data. The Scottish vice-county digital vault for voucher photos, also set up by Mark, helped to confirm identifications were correct. Both facilities are available on the Butterfly Conservation East Scotland Branch website. The Dumfries & Galloway Moths website was again invaluable for information on those species that only just reach Scotland, and for tracking the progress of recent colonisers. Compiling the first Scottish macro-moths list in 2008 involved a fair amount of guesswork. Today, we have increasingly solid data, thanks to the efforts of all involved in moth recording.

*Roy Leverton, 28 January 2015*

### **Reference**

Agassiz, J.L., Beavan, S. D. & Heckford, R. J., 2013. *A checklist of the Lepidoptera of the British Isles*. Royal Entomological Society, London.

### SCOTTISH MACRO-MOTH LIST, 2015

Vernacular Name	Code	Taxon	UK Status	Scottish Status (provisional)
Orange Swift	3.001	<i>Triodia sylvina</i>	Common	Widespread but local
Common Swift	3.002	<i>Korscheltellus lupulina</i>	Common	Common in south, increasingly scarce northwards
Map-winged Swift	3.003	<i>Korscheltellus fusconebulosa</i>	Local	Common
Gold Swift	3.004	<i>Phymatopus hecta</i>	Local	Common
Ghost Moth	3.005	<i>Hepialus humuli</i>	Common	Common
Goat Moth	50.001	<i>Cossus cossus</i>	Nb	Scarce and very local, mainly Highlands
Lunar Hornet Moth	52.003	<i>Sessia bembeciformis</i>	Common	Widespread but overlooked?
Welsh Clearwing	52.005	<i>Synanthedon scoliaeformis</i>	RDB	Very local in Highlands
Large Red-belted Clearwing	52.007	<i>Synanthedon culiciformis</i>	Nb	Widespread but overlooked?
Red-tipped Clearwing	52.008	<i>Synanthedon formicaeformis</i>	Nb	Dumfries & Galloway, last seen in 1942
Currant Clearwing	52.013	<i>Synanthedon tipuliformis</i>	Nb	Scarce, declining, but present VC80 from 2010-2014
Thrift Clearwing	52.016	<i>Pyropteron muscaeformis</i>	Nb	SW & NE coasts, very local
Forester	54.002	<i>Adscita statures</i>	Local	Very local, W and SW
Transparent Burnet	54.004	<i>Zygaena purpuralis</i>	Na	Very local, west Highlands
Slender Scotch Burnet	54.005	<i>Zygaena loti</i>	RDB	Mull only
Mountain Burnet	54.006	<i>Zygaena exulans</i>	RDB	Very local, VC92
New Forest Burnet	54.007	<i>Zygaena viciae</i>	RDB, protected	Very local, W coast
Six-spot Burnet	54.008	<i>Zygaena filipendulae</i>	Common	Common but mainly coastal
Narrow-bordered Five-spot Burnet	54.009	<i>Zygaena loniceriae</i>	Common	SE, spreading; VC73; ssp. <i>jocelynae</i> on Skye RDB
Scalloped Hook-tip	65.001	<i>Falcaria lacertinaria</i>	Common	Widespread, especially Highlands
Oak Hook-tip	65.002	<i>Watsonalla binaria</i>	Common	Scarce, extreme SW
Pebble Hook-tip	65.005	<i>Drepana falcataria</i>	Common	Widespread but local
Chinese Character	65.007	<i>Cilix glaucata</i>	Common	SW & SE only

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Peach Blossom	65.008	<i>Thyatira batis</i>	Common	Common
Buff Arches	65.009	<i>Habrosyne pyritoides</i>	Common	Scarce, extreme SW, but singles VC84 2011, VC80 2013
Figure of Eighty	65.010	<i>Tethea ocularis</i>	Common	SW & SE, expanding range: reached VC84 in 2011
Poplar Lutestring	65.011	<i>Tethea or</i>	Local	Widespread, Highlands
Satin Lutestring	65.012	<i>Tetheella fluctuosa</i>	Local	Local, Great Glen and adjacent areas
Common Lutestring	65.013	<i>Ochropacha duplaris</i>	Common	Common
Yellow Horned	65.016	<i>Achyla flavicornis</i>	Common	Common
December Moth	66.001	<i>Poecilocampa populi</i>	Common	Common
Pale Eggar	66.002	<i>Trichiura crataegi</i>	Common	Widespread
Small Eggar	66.005	<i>Eriogaster lanestris</i>	Nb	Extinct, previously in SW & SE
Northern Eggar	66.007	<i>Lasiocampa quercus callunae</i>	Common	Common
Fox Moth	66.008	<i>Macrothylacia rubi</i>	Common	Common
Pine-tree Lappet	66.009	<i>Dendrolimus pini</i>		Very local, near Inverness
Drinker	66.010	<i>Euthrix potatoria</i>	Common	Common W, absent E except Berwickshire coast
Kentish Glory	67.001	<i>Endromis versicolora</i>	Na	Very local, Highlands
Emperor Moth	68.001	<i>Saturnia pavonia</i>	Common	Common
Eyed Hawk-moth	69.002	<i>Smerinthus ocellata</i>	Common	Scarce SW, though known there since 1860
Poplar Hawk-moth	69.003	<i>Laothe populi</i>	Common	Common
Convolvulus Hawk-moth	69.004	<i>Agrius convolvuli</i>	Immigrant	Scarce immigrant
Death's-head Hawk-moth	69.005	<i>Acherontia atropos</i>	Immigrant	Rare immigrant
Rustic Sphinx	69.0052	<i>Manduca rustica</i>	Adventive	Adventive, Aberdeen docks, 1983
Pine Hawk-moth	69.007	<i>Sphinx pinastri</i>	Local	Old records, some plausible, e.g. two Aberdeen, 1928
Narrow-bordered Bee Hawk-moth	69.008	<i>Hemaris tityus</i>	Nb	Recent recovery - now widespread in Highlands
Humming-bird Hawk-moth	69.010	<i>Macroglossum stellatarum</i>	Immigrant	Regular immigrant, has bred
Oleander Hawk-moth	69.011	<i>Daphnis nerii</i>	Immigrant	Very rare immigrant, last VC86 in 2014
Jade Hawk-moth	69.0111	<i>Daphnis hypothous</i>	Adventive	Adventive, Perthshire 1873
Bedstraw Hawk-moth	69.014	<i>Hyles gallii</i>	Imm, trans resident	Immigrant, esp. to Northern Isles. Has bred.
Striped Hawk-moth	69.015	<i>Hyles livornica</i>	Immigrant	Rare immigrant
Elephant Hawk-moth	69.016	<i>Deilephila elpenor</i>	Common	Common after range increase
Small Elephant Hawk-moth	69.017	<i>Deilephila porcellus</i>	Local	Widespread, mainly eastern
Silver-striped Hawk-moth	69.018	<i>Hippotion celerio</i>	Immigrant	Very rare immigrant, last VC101 in 2010

Vernacular Name	Code	Taxon	UK Status	Scottish Status (provisional)
Small Dusty Wave	70.008	<i>Idaea seriata</i>	Common	Widespread in E, strangely absent W
Satin Wave	70.009	<i>Idaea subsericeata</i>	Common	Scarce, Dumfries & Galloway; specimens confirmed
Single-dotted Wave	70.011	<i>Idaea dimidiata</i>	Common	Widespread in S, mainly coastal.
Small Fan-footed Wave	70.013	<i>Idaea biselata</i>	Common	Common
Riband Wave	70.016	<i>Idaea aversata</i>	Common	Common
Plain Wave	70.018	<i>Idaea straminata</i>	Local	Widespread, mainly Highlands
Mullein Wave	70.023	<i>Scopula marginepunctata</i>	Local	Scarce, Dumfries & Galloway
Lesser Cream Wave	70.025	<i>Scopula immutata</i>	Local	Scarce, SW; specimens confirmed
Smoky Wave	70.026	<i>Scopula ternata</i>	Local	Common, mainly western and Highlands
Cream Wave	70.027	<i>Scopula floslactata</i>	Local	Widespread in W, absent E
Blood-vein	70.029	<i>Timandra comae</i>	Common	Scarce stray or immigrant, mainly to Northern Isles
Birch Mocha	70.032	<i>Cyclophora albipunctata</i>	Local	Widespread Highlands, scarce or stray S
Maiden's Blush	70.036	<i>Cyclophora punctaria</i>	Local	Uncertain: last seen in VC95 in 1984 (specimen)
Clay Triple-lines	70.037	<i>Cyclophora linearia</i>	Local	One confirmed from VC73 in 2011
Vestal	70.038	<i>Rhodometra sacraria</i>	Immigrant	Immigrant, infrequent
Lead Belle	70.040	<i>Scotopteryx mucronata</i>	Local	Local, in Central Highlands only?
July Belle	70.041	<i>Scotopteryx luridata</i>	Common	Widespread, mainly eastern or coastal
Shaded Broad-bar	70.045	<i>Scotopteryx chenopodiata</i>	Common	Common, except in W
Oblique Carpet	70.046	<i>Orthonama vittata</i>	Local	Widespread, but local and infrequent
Gem	70.047	<i>Nycterosea obstipata</i>	Immigrant	Immigrant, infrequent
Red Carpet	70.048	<i>Xanthorhoe decoloraria</i>	Common, N,W	Common
Garden Carpet	70.049	<i>Xanthorhoe fluctuata</i>	Common	Common
Red Twin-spot Carpet	70.051	<i>Xanthorhoe spadicearia</i>	Common	Common
Dark-barred Twin-spot Carpet	70.052	<i>Xanthorhoe ferrugata</i>	Common	Common in W, scarce or absent in E
Flame Carpet	70.053	<i>Xanthorhoe designata</i>	Common	Common
Silver-ground Carpet	70.054	<i>Xanthorhoe montanata</i>	Common	Abundant
Large Twin-spot Carpet	70.055	<i>Xanthorhoe quadrifasiata</i>	Local	One in VC84 in 2014, status unknown
Royal Mantle	70.056	<i>Catarhoe cuculata</i>	Local	Very local and scarce, E central
Yellow Shell	70.059	<i>Camptogramma bilineata</i>	Common	Common, especially near coast
Small Argent and Sable	70.060	<i>Epirrhoe tristata</i>	Common, N,W	Common, mainly Western, but also Borders
Common Carpet	70.061	<i>Epirrita alternata</i>	Common	Common

Vernacular Name	Code	Taxon	UK Status	Scottish Status (provisional)
Wood Carpet	70.062	<i>Epirrita rivata</i>	Local	Identification problems; perhaps reaches Borders
Galium Carpet	70.063	<i>Epirrita galiata</i>	Local	Scattered and scarce, on limestone or basic rocks
Cloaked Carpet	70.064	<i>Euphyia biangulata</i>	Nb	Dumfries & Galloway, local and scarce
Shoulder Stripe	70.066	<i>Earophila badiata</i>	Common	Widespread, but scarce in W
Streamer	70.067	<i>Anticlea derivata</i>	Common	Common
Beautiful Carpet	70.068	<i>Mesoleuca albicillata</i>	Common	Widespread, but low density
Dark Spinach	70.069	<i>Pelurga comitata</i>	Common	Widespread but scarce, probably migratory
Mallow	70.070	<i>Larentia clavaria</i>	Common	Extinct? Old records (specimens) from SW & SE
Yellow-ringed Carpet	70.071	<i>Entephria flavicinctata</i>	Local, NW	Widespread, mainly Highlands and NW
Grey Mountain Carpet	70.072	<i>Entephria caesiata</i>	Common	Common
July Highflyer	70.074	<i>Hydriomena furcata</i>	Common	Common
May Highflyer	70.075	<i>Hydriomena impluviata</i>	Common	Widespread
Ruddy Highflyer	70.076	<i>Hydriomena ruberata</i>	Local	Local, most frequent in NW
Pine Carpet	70.077	<i>Pennithera firmata</i>	Common	Common
Chestnut-coloured Carpet	70.078	<i>Thera cognata</i>	Nb	Widespread in Highlands and Islands
Spruce Carpet	70.079	<i>Thera britannica</i>	Common	Common after range expansion northwards
Grey Pine Carpet	70.081	<i>Thera obeliscata</i>	Common	Common; probably not obeliscata!
Juniper Carpet	70.082	<i>Thera juniperata</i>	Local	Local, mainly Highlands
Blue-bordered Carpet	70.084	<i>Plemyra rubiginata</i>	Common	Widespread
Barred Yellow	70.085	<i>Cidaria fulvata</i>	Common	Common
Broken-barred Carpet	70.086	<i>Electrophaes corylata</i>	Common	Common
Purple Bar	70.087	<i>Cosmorhoe ocellata</i>	Common	Common
Phoenix	70.089	<i>Eulithis prunata</i>	Common	Widespread, but scarce in NW; low density species
Chevron	70.090	<i>Eulithis testata</i>	Common	Common
Northern Spinach	70.091	<i>Eulithis populata</i>	Common	Common
Spinach	70.092	<i>Eulithis mellinata</i>	Common	Scattered, scarce and declining
Barred Straw	70.093	<i>Gandaritis pyraliata</i>	Common	Common
Small Phoenix	70.094	<i>Ecliptopera silaceata</i>	Common	Common
Red-green Carpet	70.095	<i>Chloroclysta siterata</i>	Common	Common
Autumn Green Carpet	70.096	<i>Chloroclysta miata</i>	Local	Common
Common Marbled Carpet	70.097	<i>Dysstroma truncata</i>	Common	Common

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Dark Marbled Carpet	70.098	<i>Dysstroma citrata</i>	Common	Abundant
Beech-green Carpet	70.099	<i>Colostygia olivata</i>	Local	Widespread, prefers basic rock
Green Carpet	70.100	<i>Colostygia pectinataria</i>	Common	Common
Mottled Grey	70.101	<i>Colostygia multistrigaria</i>	Common	Common
Striped Twin-spot Carpet	70.102	<i>Coenotephria salicata</i>	Common	Widespread but local, apparent decline
Water Carpet	70.103	<i>Lampropteryx suffumata</i>	Common	Common
Devon Carpet	70.104	<i>Lampropteryx otregiata</i>	Nb	Recent colonist, VC73 in 2013
Northern Winter Moth	70.105	<i>Operophtera fagata</i>	Common	Widespread
Winter Moth	70.106	<i>Operophtera brumata</i>	Common	Common
November Moth	70.107	<i>Epirrita dilutata</i>	Common	Common
Pale November Moth	70.108	<i>Epirrita christyi</i>	Common	Widespread but local
Autumnal Moth	70.109	<i>Epirrita autumnata</i>	Common	Common
Small Autumnal Moth	70.110	<i>Epirrita filigrammaria</i>	Common	Common
Small White Wave	70.111	<i>Asthena albulata</i>	Common	Very thinly scattered and scarce
Dingy Shell	70.112	<i>Euchoeca nebulata</i>	Local	Sparse and local, mainly E
Small Yellow Wave	70.114	<i>Hydrelia flammeolaria</i>	Common	S and Central, local and infrequent
Welsh Wave	70.115	<i>Venusia cambrica</i>	Local	Common
Blomer's Rivulet	70.116	<i>Venusia blomeri</i>	Nb	Discovered in VC97 in 2013; one VC96 in 2014
Argent & Sable	70.120	<i>Rheumaptera hastata</i>	Nb	Common W, absent E
Scallop Shell	70.121	<i>Hydria undulata</i>	Local	Local & scarce, SW; one in VC81, 2014
Scarce Tissue	70.122	<i>Hydria cervinalis</i>	Local	Scarce and restricted, E
Tissue	70.123	<i>Triphosa dubitata</i>	Local	Irregular and scarce, perhaps vagrant except in SW
Slender-striped Rufous	70.125	<i>Coenocalpe lapidata</i>	Na	Local and scattered, Highlands
Chimney Sweeper	70.130	<i>Odezia atrata</i>	Common	Common
Twin-spot Carpet	70.131	<i>Mesotype didymata</i>	Common	Abundant
Rivulet	70.132	<i>Perizoma affinitata</i>	Common	Common
Small Rivulet	70.133	<i>Perizoma alchemillata</i>	Common	Common
Barred Rivulet	70.134	<i>Perizoma bifaciata</i>	Local	Southern and coastal, local
Heath Rivulet	70.135	<i>Perizoma minorata</i>	Nb	Mainly Central Highlands; local, elusive and declining?
Pretty Pinion	70.136	<i>Perizoma blandiata</i>	Local	Common, mainly Highlands and Islands
Grass Rivulet	70.137	<i>Perizoma albulata</i>	Local	Widespread but local



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Sandy Carpet	70.138	<i>Perizoma flavofasciata</i>	Common	Common after range expansion
Barred Carpet	70.139	<i>Martania taeniata</i>	Na	Scattered and local, mainly Highlands
Double-striped Pug	70.141	<i>Gymnoscelis rufifasciata</i>	Common	Common
V-Pug	70.142	<i>Chloroclystis v-ata</i>	Common	Widespread W and Central Belt, absent from most of E
Sloe Pug	70.143	<i>Pasiphila chloerata</i>	Common	Scarce, Dumfries & Galloway; one VC83 in 2014
Green Pug	70.144	<i>Pasiphila rectangulata</i>	Common	Widespread
Bilberry Pug	70.145	<i>Pasiphila debiliata</i>	Nb	Very local, SW & W
Haworth's Pug	70.146	<i>Eupithecia haworthiata</i>	Local	One confirmed in VC81, 2013
Slender Pug	70.147	<i>Eupithecia tenuiata</i>	Common	Widespread
Maple Pug	70.148	<i>Eupithecia inturbata</i>	Local	Borders: VC80 in 2011, VC81 in 2012
Cloaked Pug	70.149	<i>Eupithecia abietaria</i>	Uncommon, imm.?	Sporadic and rare, perhaps migratory
Toadflax Pug	70.150	<i>Eupithecia liniariata</i>	Common	Central Belt, local and scarce
Foxglove Pug	70.151	<i>Eupithecia pulchellata</i>	Common	Common
Lead-coloured Pug	70.153	<i>Eupithecia plumbeolata</i>	Nb	Sparsely distributed and very local, Central
Marsh Pug	70.154	<i>Eupithecia pygmaeata</i>	Nb	Widely scattered, local and perhaps overlooked
Netted Pug	70.155	<i>Eupithecia venosata</i>	Local	Widely scattered and local, commonest in Northern Isles
Brindled Pug	70.156	<i>Eupithecia abbreviata</i>	Common	Common
Oak-tree Pug	70.157	<i>Eupithecia dodoneata</i>	Common	Recent colonist, SW in 2002, now scattered S
Juniper Pug	70.158	<i>Eupithecia pusillata</i>	Common	Common, especially Highlands
White-spotted Pug	70.160	<i>Eupithecia tripunctaria</i>	Local	Widespread but infrequent
Golden-rod Pug	70.161	<i>Eupithecia virgaureata</i>	Local	Common
Dwarf Pug	70.162	<i>Eupithecia tantillaria</i>	Common	Common
Larch Pug	70.163	<i>Eupithecia lariciata</i>	Common	Common
Pimpinell Pug	70.165	<i>Eupithecia pimpinellata</i>	Local	VC81, several in 2014. VC85, one in 2014
Plain Pug	70.166	<i>Eupithecia simpliciatata</i>	Local	Very local and scarce, VC74, VC82, VC86
Narrow-winged Pug	70.168	<i>Eupithecia nanata</i>	Common	Common
Angle-barred or Ash Pug	70.169	<i>Eupithecia innotata</i>	Common	Widespread but infrequent
Ochreous Pug	70.171	<i>Eupithecia indigata</i>	Common	Widespread, especially in Highlands
Thyme Pug	70.172	<i>Eupithecia distinctaria</i>	Nb	Scattered, very local and infrequent, mainly W coast
Lime-speck Pug	70.173	<i>Eupithecia centaureata</i>	Common	Widespread, mainly on sandy coasts
Triple-spotted Pug	70.175	<i>Eupithecia trisignaria</i>	Local	Widespread but sparse, very local and infrequent

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Edinburgh/Freyer's Pug	70.176	<i>Eupithecia intricata</i>	Common	Widespread; the two races now merged in S
Satyr Pug	70.177	<i>Eupithecia satyrata</i>	Common	Common, especially in N
Wormwood/Ling Pug	70.179	<i>Eupithecia absinthiata</i>	Common	Common
Bleached Pug	70.180	<i>Eupithecia expallidata</i>	Nb	Local and scarce, W Highlands
Valerian Pug	70.181	<i>Eupithecia valerianata</i>	Nb	Sparsely scattered, very local
Currant Pug	70.182	<i>Eupithecia assimilata</i>	Common	Widespread
Common Pug	70.183	<i>Eupithecia vulgata</i>	Common	Common
Mottled Pug	70.184	<i>Eupithecia exiguata</i>	Common	Widespread, but mainly S & E
Tawny Speckled Pug	70.187	<i>Eupithecia icterata</i>	Common	Common
Bordered Pug	70.188	<i>Eupithecia succenturiata</i>	Common	Very local and infrequent, mainly Central Belt
Shaded Pug	70.189	<i>Eupithecia subumbrata</i>	Local	Sparse and very local, W coast
Grey Pug	70.190	<i>Eupithecia subfuscata</i>	Common	Common
Manchester Treble-bar	70.191	<i>Carsia sororiata</i>	Nb	Widespread, especially Highlands & NW
Treble-bar	70.192	<i>Aplocera plagiata</i>	Common	Common
Lesser Treble-bar	70.193	<i>Aplocera efformata</i>	Common	Recent arrival, mainly Lothians on bings
Streak	70.195	<i>Chesias legatella</i>	Common	Common
Broom-tip	70.196	<i>Chesias rufata</i>	Nb	Widespread but local
Seraphim	70.198	<i>Lobophora halterata</i>	Local	Widespread, mainly Highlands
Small Seraphim	70.199	<i>Pterapherapteryx sexalata</i>	Local	Scarce and very local, SW: specimen from VC73 in 1979
Yellow-barred Brindle	70.200	<i>Acasis viretata</i>	Local	Widespread but local
Barred Tooth-striped	70.201	<i>Trichopteryx polycommata</i>	Na	Very local, mainly Great Glen
Early Tooth-striped	70.202	<i>Trichopteryx carpinata</i>	Common	Common
Orange Underwing	70.203	<i>Archiearis parthenias</i>	Local	Widespread, mainly Highlands
Magpie	70.205	<i>Abraxas grossulariata</i>	Common	Abundant NW & Isles, otherwise scarce and urban
Clouded Magpie	70.206	<i>Abraxas sylvata</i>	Local	SW only, local and scarce
Clouded Border	70.207	<i>Lomaspilis marginata</i>	Common	Common
Peacock Moth	70.211	<i>Macaria notata</i>	Local	Widespread Highlands & Islands, absent S
Sharp-angled Peacock	70.212	<i>Macaria alternata</i>	Local	Scarce and local, Great Glen only?
Tawny-barred Angle	70.214	<i>Macaria liturata</i>	Common	Common
V-Moth	70.215	<i>Macaria wauaria</i>	Local	Major decline: scarce and scattered, mainly E
Netted Mountain Moth	70.216	<i>Macaria carbonaria</i>	RDB	Very local, central Highlands

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Rannoch Looper	70.217	<i>Macaria brunneata</i>	Na	Local, Highlands
Latticed Heath	70.218	<i>Chiasmia clathrata</i>	Common	Common S, absent or stray in N, but range expanding
Frosted Yellow	70.220	<i>Isturgia limbaria</i>	Extinct	Extinct; formerly in Perthshire & East Ross
Brown Silver-line	70.222	<i>Petrophora chlorosata</i>	Common	Common
Barred Umber	70.223	<i>Plagodis pulveraria</i>	Local	Widespread, mainly W; absent or scarce in E
Scorched Wing	70.224	<i>Plagodis dolabraria</i>	Local	Widespread after major range expansion
Brimstone Moth	70.226	<i>Opisthograptis luteolata</i>	Common	Common
Bordered Beauty	70.227	<i>Epione repandaria</i>	Common	Widespread in W; scarce in E
Dark Bordered Beauty	70.228	<i>Epione vespertaria</i>	RDB	Extremely restricted, Highlands
Speckled Yellow	70.229	<i>Pseudopanthera macularia</i>	Common	Widespread in W, scarce or absent E
Lilac Beauty	70.231	<i>Apeira syringaria</i>	Local	Very local S, but increasing range
August Thorn	70.233	<i>Ennomos quercinaria</i>	Local	Scarce, Dumfries & Galloway; one confirmed in VC106
Canary-shouldered Thorn	70.234	<i>Ennomos alniaria</i>	Common	Common
September Thorn	70.236	<i>Ennomos erosaria</i>	Common	Widely scattered; infrequent
Early Thorn	70.237	<i>Selenia dentaria</i>	Common	Common
Lunar Thorn	70.238	<i>Selenia lunularia</i>	Local	Common
Purple Thorn	70.239	<i>Selenia tetralunaria</i>	Common	Widespread but local; infrequent
Scalloped Hazel	70.240	<i>Odontopera bidentata</i>	Common	Common
Scalloped Oak	70.241	<i>Crocallis elinguarina</i>	Common	Common
Swallow-tailed Moth	70.243	<i>Ourapteryx sambucaria</i>	Common	Common S, absent N, but range expanding
Feathered Thorn	70.244	<i>Colotois pennaria</i>	Common	Common
March Moth	70.245	<i>Alsophila aescularia</i>	Common	Widespread
Pale Brindled Beauty	70.247	<i>Phigalia pilosaria</i>	Common	Common
Brindled Beauty	70.248	<i>Lycia hirtaria</i>	Common	Common Highlands, absent S?
Rannoch Brindled Beauty	70.249	<i>Lycia lapponaria</i>	Na	Scattered and local, Highlands
Belted Beauty	70.250	<i>Lycia zonaria</i>	Na	Local, Hebrides
Oak Beauty	70.251	<i>Biston strataria</i>	Common	Local , mainly SW and central W
Peppered Moth	70.252	<i>Biston betularia</i>	Common	Common
Spring Usher	70.253	<i>Agriopsis leucophaearia</i>	Common	Widespread but local S, absent N
Scarce Umber	70.254	<i>Agriopsis aurantiaria</i>	Common	Common
Dotted Border	70.255	<i>Agriopsis marginaria</i>	Common	Common

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Mottled Umber	70.256	<i>Erannis defoliaria</i>	Common	Common
Willow Beauty	70.258	<i>Peribatodes rhomboidaria</i>	Common	Widespread, but scarce away from towns
Bordered Grey	70.262	<i>Selidosema brunnearia</i>	Na	Very restricted, W coast and VC91
Ringed Carpet	70.263	<i>Cleora cinctaria</i>	Na	Very local, mainly W Highlands
Satin Beauty	70.264	<i>Deileptenia ribeata</i>	Common	Widespread after major range expansion
Mottled Beauty	70.265	<i>Alcis repandata</i>	Common	Common
Dotted Carpet	70.266	<i>Alcis jubata</i>	Local	Widespread after major range expansion
Engrailed	70.270	<i>Ectropis crepuscularia</i>	Common	Common
Small Engrailed	70.271	<i>Ectropis sp.</i>	Local	Dumfries & Galloway, scarce; one in VC81 in 2014
Grey Birch	70.274	<i>Aethalura punctulata</i>	Common	Mainly NW & W, local and infrequent; absent E
Common Heath	70.275	<i>Ematurga atomaria</i>	Common	Common
Bordered White	70.276	<i>Bupalus piniaria</i>	Common	Common
Common White Wave	70.277	<i>Cabera pusaria</i>	Common	Common
Common Wave	70.278	<i>Cabera exanthemata</i>	Common	Common
White-pinion Spotted	70.279	<i>Lomographa bimaculata</i>	Common	First 1997 in VC73, scarce but spreading: VC86 by 2014
Clouded Silver	70.280	<i>Lomographa temerata</i>	Common	Widespread, but mainly W & Central Belt
Early Moth	70.282	<i>Theria primaria</i>	Common	Scattered & local, S; also VC106
Light Emerald	70.283	<i>Campaea margaritata</i>	Common	Common
Barred Red	70.284	<i>Hylaea fasciaria</i>	Common	Common
Scotch Annulet	70.285	<i>Gnophos obfuscata</i>	Nb	Widespread, Highlands only
Annulet	70.287	<i>Charissa obscurata</i>	Local	Scattered and scarce, coastal
Brussels Lace	70.288	<i>Cleorodes lichenaria</i>	Local	Widespread but clustered, absent from large areas
Black Mountain Moth	70.289	<i>Glacies coracina</i>	Na	Highlands, widespread in suitable habitat
Grey Scalloped Bar	70.292	<i>Dyscia fagaria</i>	Local	Widely scattered, infrequent, perhaps declining
Grass Wave	70.295	<i>Perconia strigillaria</i>	Local	Scattered in local clusters, absent from large areas
Grass Emerald	70.297	<i>Pseudoterpna pruinata</i>	Common	Local and infrequent, S
Large Emerald	70.299	<i>Geometra papilionaria</i>	Common	Common
Little Emerald	70.303	<i>Jodis lactearia</i>	Common	Sparse and scattered, W
Common Emerald	70.305	<i>Hemithea aestivaria</i>	Common	Dumfries & Galloway, infrequent
Puss Moth	71.003	<i>Cerura vinula</i>	Common	Widespread, but becoming infrequent?
Sallow Kitten	71.005	<i>Furcula furcula</i>	Common	Widespread

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Marbled Brown	71.010	<i>Drymonia dodonea</i>	Local	Local, SW & W only
Lunar Marbled Brown	71.011	<i>Drymonia ruficornis</i>	Common	Widespread, mainly in W
Iron Prominent	71.012	<i>Notodonta dromedarius</i>	Common	Common
Pebble Prominent	71.013	<i>Notodonta ziczac</i>	Common	Common
Great Prominent	71.016	<i>Peridea anceps</i>	Local	SW and Central Belt, local
Swallow Prominent	71.017	<i>Pheosia tremula</i>	Common	Widespread
Lesser Swallow Prominent	71.018	<i>Pheosia gnoma</i>	Common	Common
Pale Prominent	71.020	<i>Pterostoma palpina</i>	Common	Widespread
Coxcomb Prominent	71.021	<i>Ptilodon capucina</i>	Common	Common
Scarce Prominent	71.023	<i>Odontosia carmelita</i>	Local	Widespread but infrequent
Buff-tip	71.025	<i>Phalera bucephala</i>	Common	Common
Chocolate-tip	71.027	<i>Clostera curtula</i>	Local	Extremely restricted, VC92; VC96 no recent record
Small Chocolate-tip	71.028	<i>Clostera pigra</i>	Nb	Thinly scattered, scarce - perhaps declining
Herald	72.001	<i>Scoliopteryx libatrix</i>	Common	Common
Straw Dot	72.002	<i>Rivula sericealis</i>	Common	Common W, scarcer E
Snout	72.003	<i>Hypena proboscidalis</i>	Common	Common
Beautiful Snout	72.007	<i>Hypena crassalis</i>	Local	Colonist, VC87, discovered in 2012
White Satin Moth	72.009	<i>Leucoma salicis</i>	Local	Rare vagrant as far as N. Isles; last being VC73 in 1996
Yellow-tail	72.013	<i>Euproctis similis</i>	Common	SW and Borders only
Pale Tussock	72.015	<i>Calliteara pudibunda</i>	Common	Borders only, scarce or stray
Dark Tussock	72.016	<i>Dicallomera fascelina</i>	Local	Widespread, but absent from W coast
Vapourer	72.017	<i>Orgyia antiqua</i>	Common	Now widespread, increasing in W
Buff Ermine	72.019	<i>Spilosoma lutea</i>	Common	Common near coast in W, absent E except Borders
White Ermine	72.020	<i>Spilosoma lubricipeda</i>	Common	Common
Water Ermine	72.021	<i>Spilosoma urticae</i>	Nb	Vagrant on Fair Isle, 2002 (photos)
Muslin Moth	72.022	<i>Diaphora mendica</i>	Common	Now SE only; perhaps decline - last seen VC91 in 1978
Clouded Buff	72.023	<i>Diacrisia sannio</i>	Local	Widespread but mainly W, scarce in E
Ruby Tiger	72.024	<i>Phragmatobia fuliginosa</i>	Common	Common
Wood Tiger	72.025	<i>Parasemia plantaginis</i>	Local	Widespread
Banana Stowaway	72.0253	<i>Antichloris eriphea</i>	Adventive	Adventive Shetland (2001), VC94 (2009)
Garden Tiger	72.026	<i>Arctia caja</i>	Common	Common, no obvious decline in numbers

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Isabelline Tiger	72.0272	<i>Pyrrarctica isabella</i>	Adventive	Adventive larvae, Edinburgh ca. 1970
Great Leopard Moth	72.0282	<i>Hypercompe scribonia</i>	Adventive	Adventive, Edinburgh 1969, Aberdeen docks 1994
Scarlet Tiger	72.029	<i>Callimorpha dominula</i>	Local	VC73, one in June 1997, probable adventive
Cinnabar	72.031	<i>Tyria jacobaeae</i>	Common	Largely coastal, expanding range northwards
Crimson Speckled	72.034	<i>Utetheisa pulchella</i>	Immigrant	Very rare migrant, VC73 two in 1961
Muslin Footman	72.036	<i>Nudaria mundana</i>	Local	Widespread S & NE, absent NW
Round-winged Muslin	72.037	<i>Thumatha senex</i>	Local	Very local, SW and VC96
Four-dotted Footman	72.038	<i>Cybosia mesomella</i>	Local	Clustered: Borders, SW, central W & Great Glen
Four-spotted Footman	72.041	<i>Lithosia quadra</i>	Na, immigrant	VC106 male 26 June 1967 (but no specimen kept)
Red-necked Footman	72.042	<i>Atolmis rubricollis</i>	Local	Common S & W after major range expansion
Buff Footman	72.043	<i>Eilema depressa</i>	Local	Arrived SW & SE in 2008 - now up to Central Belt!
Dingy Footman	72.044	<i>Eilema griseola</i>	Common	VC84 in 2010; then six in Dumfries & Galloway, 2013
Common Footman	72.045	<i>Eilema lurideola</i>	Common	Clusters in SW, E coast and inner Moray Firth
Scarce Footman	72.046	<i>Eilema complana</i>	Local	Dumfries & Galloway coast; no range expansion yet
Dew Moth	72.050	<i>Setina irrorella</i>	Na	Very local, W coast and VC81
Fan-foot	72.053	<i>Herminia tarsipennalis</i>	Common	Widespread S & E, absent NW
Small Fan-foot	72.055	<i>Herminia grisealis</i>	Common	Widespread
Marsh Oblique-barred	72.060	<i>Hypenodes humidalis</i>	Nb	Widely scattered W, increasing and spreading E
Pinion-streaked Snout	72.061	<i>Schrankia costaestrigalis</i>	Local	Widespread W, scarcer in E but spreading
Blackneck	72.063	<i>Lygephila pastinum</i>	Local	Isolated long-established population in VC81
Small Purple-barred	72.067	<i>Phytometra viridaria</i>	Local	Widespread in Highlands, scarcer elsewhere
Purple Marbled	72.072	<i>Eublemma ostrina</i>	Immigrant	Very rare immigrant: VC76 in 1858
Small Marbled	72.073	<i>Eublemma parva</i>	Immigrant	Rare immigrant (1986, two in 2011)
Clifden Nonpareil	72.076	<i>Catocala fraxini</i>	Imm, trans. Res.	Scarce immigrant, E coast and Northern Isles
Red Underwing	72.078	<i>Catocala nupta</i>	Common	Very occasional, extreme S - colonist or stray?
Burnet Companion	72.083	<i>Euclidia glyphica</i>	Common	Scarce and local, mainly Borders; old records further N
Mother Shipton	72.084	<i>Euclidia mi</i>	Common	Widespread but local
Spectacle	73.001	<i>Abrostola tripartita</i>	Common	Common
Dark Spectacle	73.002	<i>Abrostola triplasia</i>	Common	Mainly SW, infrequent; absent NE
Golden Twin-spot	73.008	<i>Chrysoideixis chalcites</i>	Imm., adventive	Rare immigrant (1978, 1990); adventive larva 2010
Dewick's Plusia	73.010	<i>Macdunnoughia confusa</i>	Immigrant	Rare immigrant to Northern Isles, last 2014

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Burnished Brass	73.012	<i>Diachrysia chrysitis</i>	Common	Common
Golden Plusia	73.014	<i>Polychrysia moneta</i>	Common	Local and scarce, S; declining: previously to Aberdeen
Silver Y	73.015	<i>Autographa gamma</i>	Immigrant	Immigrant, often abundant; breeds annually
Beautiful Golden Y	73.016	<i>Autographa pulchrina</i>	Common	Common
Plain Golden Y	73.017	<i>Autographa jota</i>	Common	Widespread, but often infrequent
Gold Spangle	73.018	<i>Autographa bractea</i>	Common	Common
Scarce Silver Y	73.021	<i>Syngrapha interrogationis</i>	Local	Widespread, especially Highlands
Gold Spot	73.022	<i>Plusia festucae</i>	Common	Common, but becoming less numerous
Lempke's Gold Spot	73.023	<i>Plusia putnami</i>	Local	Common after recent increase and spread
Silver Hook	73.026	<i>Deltote uncula</i>	Local	Widespread W, absent E
Four-spotted	73.031	<i>Tyta luctuosa</i>	Na, suspected imm.	One, Aberdeen 1908; specimen exists
Nut-tree Tussock	73.032	<i>Colocasia coryli</i>	Common	Common
Figure of Eight	73.033	<i>Diloba caeruleocephala</i>	Common	Extreme S only, scarce
Reed Dagger	73.035	<i>Simyra albovenosa</i>	Nb	Vagrant to Shetland, two in 2008 (photos seen)
Alder Moth	73.036	<i>Acronicta alni</i>	Local	S, extending range
Dark Dagger	73.037	<i>Acronicta tridens</i>	Common	Two gen. det. From Orkney (but females...)
Grey Dagger	73.038	<i>Acronicta psi</i>	Common	Common
Miller	73.040	<i>Acronicta leporina</i>	Common	Widespread, but never numerous
Light Knot Grass	73.042	<i>Acronicta menyanthidis</i>	Local	Widespread Highlands, scarce in S
Sweet Gale Moth	73.044	<i>Acronicta euphorbiae</i>	Na	(cinerea auctt.) Local, Highlands
Knot Grass	73.045	<i>Acronicta rumicis</i>	Common	Common
Poplar Grey	73.046	<i>Subacronicta megacephala</i>	Common	Very local amongst aspen, Speyside & N; also D&G
Coronet	73.047	<i>Craniophora ligustri</i>	Local	Widespread, esp. W; perhaps increasing
Small Yellow Underwing	73.048	<i>Panemeria tenebrata</i>	Local	Formerly SW & SE, no recent records
Shark	73.052	<i>Cucullia umbratica</i>	Common	Widespread but not numerous
Chamomile Shark	73.053	<i>Cucullia chamomillae</i>	Local	Widespread E after range expansion; now declining?
Mullein	73.058	<i>Cucullia verbasci</i>	Common	Adventive larva 2013, VC85 garden centre; adult reared
Anomalous	73.061	<i>Stilbia anomola</i>	Local	Widespread
Copper Underwing	73.062	<i>Amphipyra pyramidea</i>	Common	Now widespread to Central Belt, but mainly SW & W
Svensson's Copper Underwing	73.063	<i>Amphipyra berbera</i>	Common	Now widespread to Central Belt, but mainly E
Mouse Moth	73.064	<i>Amphipyra tragopoginis</i>	Common	Common E, scarcer W; numbers have declined

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Rannoch Sprawler	73.066	<i>Brachionycha nubeculosa</i>	RDB	Local, Highlands; apparently doing well
Green-brindled Crescent	73.068	<i>Allophyes oxyacanthae</i>	Common	Common
Early Grey	73.069	<i>Xylocampa areola</i>	Common	Widespread W, scarce or absent most of E
Bordered Sallow	73.070	<i>Pyrrhia umbra</i>	Local	Coastal and very local, SW & SE
Spotted Clover	73.071	<i>Protoschinia scutosa</i>	Immigrant	Very rare immigrant: VC91 in 1878, VC96 in 1960
Bordered Straw	73.074	<i>Heliothis peltigera</i>	Immigrant	Scarce immigrant
Scarce Bordered Straw	73.076	<i>Helicoverpa armigera</i>	Immigrant	Scarce immigrant, also adventive larvae
Marbled Beauty	73.084	<i>Bryophila domestica</i>	Common	Widespread S & NE, absent NW
Small Mottled Willow	73.087	<i>Spodoptera exigua</i>	Immigrant	Scarce immigrant, also adventive larvae
Mottled Rustic	73.092	<i>Caradrina morpheus</i>	Common	Rather local, often coastal, absent from much of W
Pale Mottled Willow	73.095	<i>Caradrina clavipalpis</i>	Common	Widely scattered but sparse, perhaps declining
Uncertain	73.096	<i>Hoplodrina octogenaria</i>	Common	Scattered but local and infrequent
Rustic	73.097	<i>Hoplodrina blanda</i>	Common	Widespread on low ground and coast
Silky Wainscot	73.100	<i>Chilodes maritima</i>	Local	Very local, VC73 plus Forth and Tay areas
Treble Lines	73.101	<i>Charanyca trigrammica</i>	Common	VC73, scarce
Brown Rustic	73.102	<i>Rusina ferruginea</i>	Common	Common
Old Lady	73.107	<i>Mormo maura</i>	Local	Widely scattered, mainly river valleys, infrequent
Straw Underwing	73.109	<i>Thalpophila matura</i>	Common	Sparsely scattered, mainly coastal
Saxon	73.110	<i>Hyppa rectilinea</i>	Nb	Widespread
Angle Shades	73.113	<i>Phlogophera meticulosa</i>	Common	Common, also immigrant
Small Angle Shades	73.114	<i>Euplexia lucipara</i>	Common	Common
Haworth's Minor	73.118	<i>Celaena haworthii</i>	Local	Common
Crescent	73.119	<i>Helotropha leucostigma</i>	Local	Common W, absent or migrant in E
Frosted Orange	73.121	<i>Gortyna flavago</i>	Common	Common E & SW, spreading, but still absent W coast
Rosy Rustic	73.123	<i>Hydraecia micacea</i>	Common	Common
Butterbur	73.124	<i>Hydraecia petasitis</i>	Local	Very local S, now up to VC91
Saltern Ear	73.126	<i>Amphipoea fucosa</i>	Local	Unclear: confusion with lucens; migrant to Northern Isles
Large Ear	73.127	<i>Amphipoea lucens</i>	Local	Common
Ear Moth	73.128	<i>Amphipoea oclea</i>	Common	Widespread, but most frequent on sandy coasts
Crinan Ear	73.129	<i>Amphipoea crinanensis</i>	Local	Widespread, mainly inland
Flounced Rustic	73.131	<i>Luperina testacea</i>	Common	Widespread near coast in SW & E, scarcer in W



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Scarce Arches	73.133	<i>Fabula zollikoferi</i>	Immigrant	Very rare immigrant, VC92 in 1871, VC90 in 1968
Large Wainscot	73.134	<i>Rhizedra lutosa</i>	Common	Scattered, mainly coastal, perhaps migratory
Bulrush Wainscot	73.136	<i>Nonagria typhae</i>	Common	Widespread in E, scarcer or absent W
Fen Wainscot	73.137	<i>Arenostola phragmitidis</i>	Local	Established in VC73 since 2003
Lyme Grass	73.138	<i>Longalatedes elymi</i>	Nb	Very local, E coast to VC107
Small Rufous	73.142	<i>Coenobia rufa</i>	Local	Confirmed in VC73, 2011; old records elsewhere
Small Wainscot	73.144	<i>Denticucullus pygmina</i>	Common	Common
Small Dotted Buff	73.147	<i>Photedes minima</i>	Common	Common
Union Rustic	73.153	<i>Pabulatrix pabulatricula</i>	Extinct	Extinct; records and specimens from VC76 till 1902
Dusky Brocade	73.154	<i>Apamea remissa</i>	Common	Common
Clouded Brindle	73.155	<i>Apamea epomidion</i>	Common	Very local and scarce, VC88 southwards
Clouded-bordered Brindle	73.156	<i>Apamea crenata</i>	Common	Common
Large Nutmeg	73.157	<i>Apamea anceps</i>	Local	Formerly in S & SE, long extinct
Rustic Shoulder-knot	73.158	<i>Apamea sordens</i>	Common	Common
Small Clouded Brindle	73.159	<i>Apamea unanimis</i>	Common	Widespread S & E, but infrequent
Slender Brindle	73.160	<i>Apamea scolopacina</i>	Common	Recent arrival, now widespread S & E to VC106
Crescent Striped	73.161	<i>Apamea oblonga</i>	Nb	Very rare, (vagrant?) Shetland; VC87 in 1999.
Dark Arches	73.162	<i>Apamea monoglypha</i>	Common	Common
Light Arches	73.163	<i>Apamea lithoxylaea</i>	Common	Common
Confused	73.165	<i>Apamea furva</i>	Local	Widely scattered, mainly rocky coasts, infrequent
Scarce Brindle	73.166	<i>Apamea lateritia</i>	Immigrant	Rare immigrant, Shetland & Fair Isle (six? - last 2011)
Exile or Northern Arches	73.167	<i>Apamea exulis</i>	Na	Widely scattered, mainly inland; infrequent
Double Lobed	73.168	<i>Lateroligia ophiogramma</i>	Common	Widespread but local after major range expansion
Common Rustic	73.169	<i>Mesapamea secalis</i>	Common	Common
Lesser Common Rustic	73.170	<i>Mesapamea didyma</i>	Common	Common
Rosy Minor	73.171	<i>Litoligia literosa</i>	Common	Common SW & E, mainly coastal; scarce in NW
Cloaked Minor	73.172	<i>Mesoligia furuncula</i>	Common	Widespread S, coastal; absent, scarce or stray N
Marbled Minor	73.173	<i>Oligia strigilis</i>	Common	Widespread, but becoming infrequent
Tawny Marbled Minor	73.174	<i>Oligia latruncula</i>	Common	Apparently local and infrequent, up to VC106
Rufous Minor	73.175	<i>Oligia versicolor</i>	Local	Widespread but local; often numerous where found
Middle-barred Minor	73.176	<i>Oligia fasciuncula</i>	Common	Common

Vernacular Name	Code	Taxon	UK Status	Scottish Status (provisional)
Orange Sallow	73.179	<i>Tiliacia citrago</i>	Common	Widespread but infrequent
Pink-barred Sallow	73.181	<i>Xanthia togata</i>	Common	Common
Sallow	73.182	<i>Cirrhia icteritia</i>	Common	Common
Dusky-lemon Sallow	73.183	<i>Cirrhia gilvago</i>	Local	Very sparse, local and infrequent E, up to VC106
Beaded Chestnut	73.186	<i>Agrochola lychnidis</i>	Common	VC86 specimens, 1937-76; now extinct?
Brown-spot Pinion	73.187	<i>Agrochola litura</i>	Common	Common E, scarce or absent W
Flounced Chestnut	73.188	<i>Agrochola helvola</i>	Common	Widespread but local, Highlands; absent S?
Red-line Quaker	73.189	<i>Agrochola lota</i>	Common	Common
Yellow-line Quaker	73.190	<i>Agrochola macilenta</i>	Common	Common
Brick	73.192	<i>Agrochola circumcellaris</i>	Common	Common
Lunar Underwing	73.193	<i>Omphaloscelis lunosa</i>	Common	Widespread on or near coast after range expansion
Chestnut	73.194	<i>Conistra vaccinii</i>	Common	Common
Dark Chestnut	73.195	<i>Conistra ligula</i>	Common	Increasing and spreading, SW & SE
Tawny Pinion	73.200	<i>Lithophane semibrunnea</i>	Local	VC72 in 2009, VC73 in 2011; potential colonist
Pale Pinion	73.201	<i>Lithophane socia</i>	Local	Now widespread in S, to VC98 in W, VC85 in E
Conformist	73.203	<i>Lithophane furcifera</i>	Immigrant	VC96, one on 9 Apr 2011; presumed immigrant?
Blair's Shoulder-knot	73.206	<i>Lithophane leautieri</i>	Common	Widespread in S to VC85, but range expansion slowing?
Golden-rod Brindle	73.207	<i>Xylena solidaginis</i>	Local	Widespread Highlands, scarce in S; in serious decline?
Sword-grass	73.208	<i>Xylena exsoleta</i>	Nb	Widespread NE, now scarce or absent elsewhere
Red Sword-grass	73.209	<i>Xylena vetustata</i>	Local	Common
Satellite	73.210	<i>Eupsilia transversa</i>	Common	Common
Angle-striped Sallow	73.211	<i>Enargia paleacea</i>	Nb	Widespread Highlands, absent or stray elsewhere
Olive	73.213	<i>Ipimorpha subtusa</i>	Local	Scattered and scarce, S; apparent range contraction
Dun-bar	73.216	<i>Cosmia trapezina</i>	Common	Common, except in NW
Centre-barred Sallow	73.219	<i>Atethmia centrago</i>	Common	Common
Minor Shoulder-knot	73.220	<i>Brachylomia viminalis</i>	Common	Common, but becoming less numerous
Suspected	73.221	<i>Parastichtis suspecta</i>	Local	Widespread but local and infrequent
Dingy Shears	73.222	<i>Apterogenum ypsilon</i>	Local	Sparse, local and infrequent, S & E
Merveille du Jour	73.224	<i>Griposia aprilina</i>	Common	Common
Brindled Green	73.225	<i>Dryobotodes eremita</i>	Common	Widespread but local and infrequent
Grey Chi	73.228	<i>Antitype chi</i>	Common	Common, but becoming less numerous

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Northern Deep-brown Dart	73.232	<i>Aporophyla lueneburgensis</i>	Common	Widespread, but major recent decline
Black Rustic	73.233	<i>Aporophyla nigra</i>	Common	Common
Brindled Ochre	73.234	<i>Dasypolia templi</i>	Local	Common NE, local and scarcer elsewhere
Feathered Ranunculus	73.235	<i>Polymixis lichenea</i>	Local	Local, SW coast
Dark Brocade	73.238	<i>Mniotype adusta</i>	Common	Common
Bedrule Brocade	73.239	<i>Mniotype solieri</i>	Rare immigrant	Vagrant, one in VC80 in 1976, the only UK record
Pine Beauty	73.241	<i>Panolis flammea</i>	Common	Common
Clouded Drab	73.242	<i>Orthosia incerta</i>	Common	Common
Common Quaker	73.244	<i>Orthosia cerasi</i>	Common	Common
Small Quaker	73.245	<i>Orthosia cruda</i>	Common	Widespread but local
Lead-coloured Drab	73.246	<i>Orthosia populeti</i>	Local	Very local, E Highlands only
Powdered Quaker	73.247	<i>Orthosia gracilis</i>	Common	Widespread, but scarce or absent NE
Northern Drab	73.248	<i>Orthosia opima</i>	Local	VC80 specimen, 1988; VC81 specimens to 1956
Hebrew Character	73.249	<i>Orthosia gothica</i>	Common	Common
Twin-spotted Quaker	73.250	<i>Anorthoa munda</i>	Common	Widespread S and Central, expanding northwards
Hedge Rustic	73.252	<i>Tholera cespitis</i>	Common	Widespread on lower ground, recovering from decline
Feathered Gothic	73.253	<i>Tholera decimalis</i>	Common	Confirmed recent records only from extreme SW & SE
Antler Moth	73.254	<i>Cerapteryx graminis</i>	Common	Common
Nutmeg	73.255	<i>Anarta trifolii</i>	Common	Scattered, infrequent: migrant or temp. resident only?
Broad-bordered White Underwing	73.256	<i>Anarta melanopa</i>	RDB	Local, Highlands; recent confirmed records from Borders
Beautiful Yellow Underwing	73.257	<i>Anarta myrtilli</i>	Common	Common E Highlands, scarcer elsewhere
Small Dark Yellow Underwing	73.258	<i>Coranarta cordigera</i>	Na	Central Highlands, serious decline, but seen in 2014
Pale Shining Brown	73.259	<i>Polia bombycina</i>	pRDB	Extinct; 19th century specimens from Perthshire
Silvery Arches	73.260	<i>Polia hepatica</i>	Nb	Local & infrequent, mainly Highlands; probable decline
Grey Arches	73.261	<i>Polia nebulosa</i>	Common	Common W, absent most of E
Pale-shouldered Brocade	73.264	<i>Lacanobia thalassina</i>	Common	Common
Beautiful Brocade	73.265	<i>Lacanobia contigua</i>	Local	Local and infrequent west, absent E
Dog's Tooth	73.266	<i>Lacanobia suasa</i>	Local	Resident Dumfries & Galloway, migrant Northern Isles
Bright-line Brown-eye	73.267	<i>Lacanobia oleracea</i>	Common	Common
Splendid Brocade	73.268	<i>Lacanobia splendens</i>	Immigrant	Rare immigrant: Shetland, 2010, gen. det. Jon Clifton
Dot Moth	73.270	<i>Melanchnra persicariae</i>	Common	Scattered and local, S

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Broom Moth	73.271	<i>Ceramica pisi</i>	Common	Common
Glaucous Shears	73.272	<i>Papestra biren</i>	Local	Common
Shears	73.273	<i>Hada plebeja</i>	Common	Common
Cabbage Moth	73.274	<i>Mamestra brassicae</i>	Common	Widespread E and Central Belt, scarce in W
White Colon	73.275	<i>Sideridis turbida</i>	Nb	Very local and scarce; only recent records VC85 & VC91
Campion	73.276	<i>Sideridis rivularis</i>	Common	Common
Broad-barred White	73.279	<i>Hecatera bicolorata</i>	Common	Scattered and infrequent, SW & E; absent most of W
Lychnis	73.281	<i>Hadena bicurris</i>	Common	Common
Marbled Coronet	73.283	<i>Hadena confusa</i>	Local	Common; coastal except on Spey shingle
Grey	73.285	<i>Hadena caesia</i>	RDB	Extremely local, Hebrides
Tawny Shears	73.286	<i>Hadena perplexa</i>	Common	SW only, local and coastal; old records in SE
Brown-line Bright-eye	73.290	<i>Mythimna conigera</i>	Common	Common SW & E, scarcer in W
Common Wainscot	73.291	<i>Mythimna pallens</i>	Common	Common at lower altitude, scarce on higher ground
Smoky Wainscot	73.293	<i>Mythimna impura</i>	Common	Abundant
Southern Wainscot	73.294	<i>Mythimna straminea</i>	Local	VC72 & VC73, local and infrequent; first in 1996
Delicate	73.295	<i>Mythimna vitellina</i>	Immigrant	Rare immigrant, several in 2006
American Wainscot or White-speck	73.296	<i>Mythimna unipuncta</i>	Immigrant	Scarce immigrant
Clay	73.298	<i>Mythimna ferrago</i>	Common	Common
Shore Wainscot	73.299	<i>Mythimna littoralis</i>	Nb	Very local and scarce, VC74, VC85, VC91
Shoulder-striped Wainscot	73.301	<i>Leucania comma</i>	Common	Widespread SW & E, but infrequent; absent most of W
Obscure Wainscot	73.302	<i>Leucania obsoleta</i>	Local	VC73 since 2002, scarce and local. VC82, one in 2014
Cosmopolitan	73.304	<i>Leucania loreyi</i>	Immigrant	VC72, one in 2006
Pearly Underwing	73.307	<i>Peridroma saucia</i>	immigrant	Regular immigrant
Portland Moth	73.308	<i>Actebia praecox</i>	Nb	Recent records only E coast, Spey shingle; very local
Eversmann's Rustic	73.309	<i>Actebia fennica</i>	Rare immigrant	VC93, one in 1977
Black Collar	73.310	<i>Dichagyris flammatra</i>	Rare immigrant	Shetland, one in 1997
Coast Dart	73.311	<i>Euxoa cursoria</i>	Nb	Very locally abundant, SW and E coast
Square-spot Dart	73.312	<i>Euxoa obelisca</i>	Nb	Very local, Dumfries & Galloway, E coast; infrequent
White-line Dart	73.313	<i>Euxoa tritici</i>	Common	Widespread on coast, also Spey shingles; scarce inland
Garden Dart	73.314	<i>Euxoa nigricans</i>	Common	Widespread but scarce, SW & E; apparent decline
Heart & Dart	73.317	<i>Agrotis exclamationis</i>	Common	Widespread at lower altitudes, but not often numerous

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Turnip Moth	73.319	<i>Agrotis segetum</i>	Common	Widespread at lower altitudes, scarcer NW; also migrant
Heart & Club	73.320	<i>Agrotis clavis</i>	Common	Scattered, scarce and coastal, SW & E
Archer's Dart	73.322	<i>Agrotis vestigialis</i>	Local	Locally abundant, sandy coasts; also Spey shingles
Sand Dart	73.323	<i>Agrotis ripae</i>	Nb	Extremely local, VC74 & E coast only
Crescent Dart	73.324	<i>Agrotis trux</i>	Local	Dumfries & Galloway only, sometimes numerous
Shuttle-shaped Dart	73.325	<i>Agrotis puta</i>	Common	Sporadic singles, D & G, E coast; potential colonist
Dark Sword-grass	73.327	<i>Agrotis ipsilon</i>	Immigrant	Regular immigrant, throughout
Flame	73.328	<i>Axylia putris</i>	Common	Widespread S and Central Belt, scarcer northwards
Flame Shoulder	73.329	<i>Ochropleura plecta</i>	Common	Common
Barred Chestnut	73.331	<i>Diarsia dahlia</i>	Local	Common
Purple Clay	73.332	<i>Diarsia brunnea</i>	Common	Common
Ingrailed Clay	73.333	<i>Diarsia mendica</i>	Common	Common
Small Square-spot	73.334	<i>Diarsia rubi</i>	Common	Common
Red Chestnut	73.336	<i>Cerastis rubricosa</i>	Common	Common
True Lover's Knot	73.338	<i>Lycophotia porphyrea</i>	Common	Common
Dotted Rustic	73.339	<i>Rhyacia simulans</i>	Local	Widespread E near coast, infrequent; scarce elsewhere
Northern Rustic	73.341	<i>Standfussiana lucernea</i>	Local	Widespread rocky coasts and hills; perhaps declining
Large Yellow Underwing	73.342	<i>Noctua pronuba</i>	Common	Common
Broad-bordered Yellow Underwing	73.343	<i>Noctua fimbriata</i>	Common	Widespread, but never numerous
Lunar Yellow Underwing	73.344	<i>Noctua orbona</i>	Nb	Status uncertain; formerly scarce and very local, E
Lesser Yellow Underwing	73.345	<i>Noctua comes</i>	Common	Common
Least Yellow Underwing	73.346	<i>Noctua interjecta</i>	Common	Widespread SW & SE, also confirmed in Outer Hebrides
Lesser Broad-bordered Yellow Underwing	73.348	<i>Noctua janthe</i>	Common	Common
Stout Dart	73.349	<i>Spaelotis ravida</i>	Local	Extinct; old records include VC82, specimen 1870
Great Brocade	73.350	<i>Eurois occulta</i>	Nb, immigrant	Widespread resident, Highlands; immigrant elsewhere
Double Dart	73.351	<i>Graphiphora augur</i>	Common	Common
Green Arches	73.352	<i>Anaplectoides prasina</i>	Common	Common
Dotted Clay	73.353	<i>Xestia baja</i>	Common	Common
Square-spotted Clay	73.354	<i>Xestia stigmatica</i>	Nb	Very local, W; one confirmed in VC84, 2013
Neglected Rustic	73.355	<i>Xestia castanea</i>	Local	Widespread but local, usually infrequent
Heath Rustic	73.356	<i>Xestia agathina</i>	Local	Widespread but local, usually infrequent

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Square-spot Rustic	73.357	<i>Xestia xanthographa</i>	Common	Abundant
Six-striped Rustic	73.358	<i>Xestia sexstrigata</i>	Common	Common
Setaceous Hebrew Character	73.359	<i>Xestia c-nigrum</i>	Common	Common E, much scarcer in W
Triple-spotted Clay	73.360	<i>Xestia ditrapezium</i>	Local	Common W, absent E
Double Square-spot	73.361	<i>Xestia triangulum</i>	Common	Common
Northern Dart	73.363	<i>Xestia alpicola</i>	Na	Very local, N; discovered in Borders, 2014
Autumnal Rustic	73.365	<i>Eugnorisma glareosa</i>	Common	Common
Plain Clay	73.366	<i>Eugnorisma depuncta</i>	Nb	Widespread E, especially Highlands, scarce or absent W
Cousin German	73.367	<i>Protolampra sobrina</i>	Na	Local, central Highlands
Gothic	73.368	<i>Naenia typica</i>	Local	Widespread but not numerous
Least Black Arches	74.004	<i>Nola confusalis</i>	Local	Widespread after range expansion eastwards
Green Silver-lines	74.008	<i>Pseudoips prasinana</i>	Common	Widespread, particularly in W oakwoods
Oak Nycteoline	74.009	<i>Nycteola reveyana</i>	Local	Widespread, particularly in W oakwoods

#### Appendix. Plausible additions

This section contains plausible historical records that cannot now be substantiated or refuted. It also includes more recent claims that are not yet considered proven beyond reasonable doubt. It is likely that some species will be upgraded to the main list when more evidence is obtained. A large number of other unlikely species have been claimed as Scottish in the literature and elsewhere; these have not been included.

Vernacular Name	Code	Taxon	UK Status	Scottish Status (provisional)
Leopard Moth	50.002	<i>Zeuzera pyrina</i>	Common	SW one, 1889
Oak Lutestring	65.014	<i>Cymatophorina diluta</i>	Local	Borders, old records
Lackey	66.003	<i>Malacosoma neustria</i>	Common	Old records, strays?
Small Scallop	70.015	<i>Idaea emarginata</i>	Local	SW 19c record
Purple-barred Yellow	B60	<i>Lythria purpuraria</i>		Perths. 19c; even White was sceptical
Oblique Striped	70.039	<i>Phibalapteryx virgata</i>	Nb	Strays or misidentifications
Sharp-angled Carpet	70.065	<i>Euphyia unangulata</i>	Local	Probable misidentifications
Waved Carpet	70.113	<i>Hydrelia sylvata</i>	Nb	SW, strays or misidentifications
Scorched Carpet	70.208	<i>Ligdia adustata</i>	Local	SW, perhaps stray
Blotched Emerald	70.300	<i>Comibaena bajularia</i>	Local	SW, perhaps stray
Small Emerald	70.302	<i>Hemistola chrysoprasaria</i>	Local	id errors (many), possible adventive, no proven record
Brown-tail	72.012	<i>Euproctis chrysorrhoea</i>	Common	Name confusion, misidentification, stray?

<b>Vernacular Name</b>	<b>Code</b>	<b>Taxon</b>	<b>UK Status</b>	<b>Scottish Status (provisional)</b>
Vine's Rustic	73.099	<i>Hoplodrina ambigua</i>	Common	Unverified records
Reddish Light Arches	73.164	<i>Apamea sublustris</i>	Local	Probable misidentifications
Barred Sallow	73.180	<i>Tiliacea aurago</i>	Common	Strays, misidentifications, clerical errors?
Beautiful Arches	73.240	<i>Mniotype satura</i>	Immigrant?	Two 19c specimens labelled Aberdeen
Light Brocade	73.263	<i>Lacanobia w-latinum</i>	Local	Known or probable misidentifications
White-marked	73.337	<i>Cerastis leucographa</i>	Local	SW, strays or misidentifications?
Short-cloaked	74.003	<i>Nola cuculatella</i>	Common	Old records, some possibly genuine
Scarce Silver-lines	74.007	<i>Bena bicolorana</i>	Local	Probable name confusion
Cream-bordered Green Pea	74.011	<i>Earias clorana</i>	Nb	Clyde Valley records considered suspect