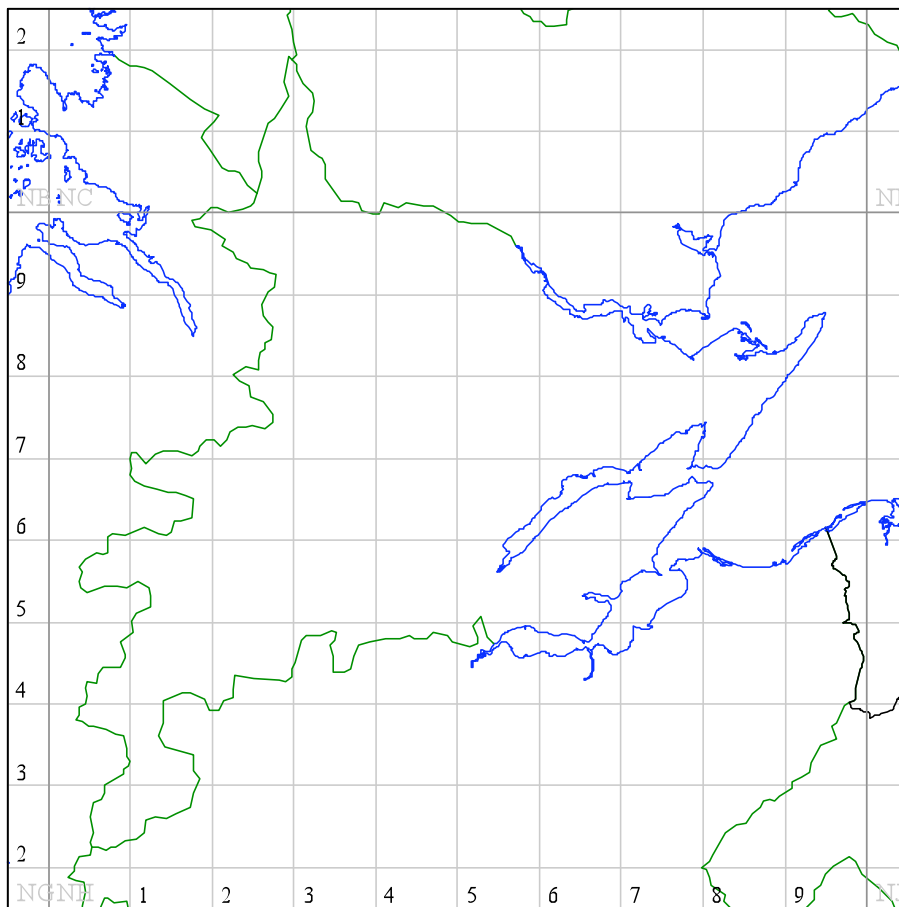


EASTER ROSS MOTH CHECKLIST

(LARGER SPECIES)

BARBARA AND BRIAN BALLINGER



EAST ROSS VC106

EASTER ROSS (VC106) CHECKLIST FOR MACRO MOTHS

2010 Barbara and Brian Ballinger

This is a very brief account of the 364 larger moth species recorded in Easter Ross up to the present time. The authors have been Easter Ross Vice-County recorders for moths for Butterfly Conservation for the past 3 years.

Easter Ross has a variety of habitats. In the east are the fertile Black Isle and Fearn Peninsula with a long history of habitation and agriculture and some limited industrial development. The land is penetrated by the Dornoch, Cromarty, Moray and Beaully Firths.

The western part of the vice-county, which almost reaches the west coast in places, includes remote mountains and moorland, with lochs and large estates. Here much of the rock is acid, but there are small base-rich areas.

We are very grateful to all those who have contributed records and assisted in many ways including Margaret Currie, Andy Scott, Sue Tarr, Liz Rollinson, and the Blackwater Wildlife Group, Nigel Richards, Fay and Bob Brown, Jane Arnold, Tony Mainwood, Brigid Primrose, Duncan Williams, Colin Dingley, Russell Wood, Jane Armstrong, Sadie Flanagan, John Turner and many others. Holiday visitors have also provided valuable records.

We thank Roy Leverton and Mark Young for all their help with identification and educational work. Tom Prescott and other Butterfly Conservation staff and volunteers have given invaluable support and the Moths Count recording programme has been very important. The Forestry Commission and other organisations, landowners and managers have helped us with access and permission to trap moths, The RSPB and the Highland Biological Recording Group have organised events.

Maps depicting moth distribution for the whole of the UK are available on the Moths Count website www.mothscount.org.

The present records are likely to only give a preliminary and incomplete description of moth distribution in the area up till August 2010. Until recently there had only been very limited moth recording in Easter Ross apart from the Rothamsted traps. The only post-2000 Rothamsted records are from Cromarty although there were also traps at Inchbae, Tain and Ardross in the past. Recording has been more intensive recently in certain areas, particularly the Black Isle, Fearn Peninsula and around Garve. Elsewhere there are scattered field records and limited information from traps that have been set in places that can be reached by road.

The comments on frequency are general impressions only at this stage and are subject to amendment in the future as more recording is done. The examples of sites are usually just a selection, trying to use place names that are on the Ordnance survey maps.

The numbers of 10 kilometer squares appearing on the second line of each species description as H refer to post- 2000 records only. Some of the 58 Easter Ross squares are far from roads and have very few records. 25 squares are shared with other vice-counties.

The national status categories include: RDB (Red Data Book) recorded in 15 or fewer 10 km squares, Na (Nationally Scarce A): recorded in 16-30 10km squares, and Nb (Nationally Scarce B) recorded in 31- 100 10km squares. These figures may become out of date with the present increase in moth recording activity nationally.

The map was produced by Mapmate using Digital Map Data Bartholomew 2002.

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brian@garrickwood.org.uk

MOTHS VC 106 2010 (Macro-moths)

(The number after the name is the British checklist number followed by the number of hectads (H) or 10km squares in which the moth has been recorded since the year 2000).

Angle Shades (Phlogophora meticulosa) 2306 NH 36,45,55,65,68,76,77,78,86

H9. Only occasional records in this area. eg Cromarty, by Garve, Morrich More.

Angle-striped Sallow (Enargia paleacea) 2313 Nb NH36,39,45,46,55,64,65,66,76,77,87

H11. Although scarce nationally recorded in various sites in VC106. eg By Tain, Black Isle, Garve

Anomalous (Stilbia anomala) 2394

H11 Occasional but records from Morrich More, Black Isle, Lochussie etc

Antler moth (Cerapteryx graminis) 2176

H20+ Common with records from 27 squares to date. eg Duag Bridge, Black Isle, Fearn Peninsula

Archers Dart (Agrotis vestigialis) 2085 NH76,77,78,88

H4 Rare. Only reported from Morrich More forestry plantation (2 squares), Kildary and Cromarty.

Argent and Sable (Rheumaptera hastata) 1787 Nb UKBAP NH26,35,59

H3. A rare day flying moth. Loch Meig, Aultdearg, by River Oykel.

Ash Pug (Eupithecia innotata fraxinata) 1849

Pre-2000. Only pre-2000 Rothamsted trap records.

Autumn Green Carpet (Chloroclysta miata) 1761

H16. Frequent in various places. eg. Glasfield, Drummondreach, Morrich More, Garve.

Autumnal Moth (Epirrita autumnata) 1797

H12. Difficult to distinguish from other Epirrita species. Quite frequent eg Ardgay, Inchindown.

Autumnal Rustic (Eugnorisma glareosa) 2117

H20+ Common in August and September with records from 25 squares. Strath Oykel, Lochussie etc

Barred Carpet (Perizoma taeniata) 1801 Na NH 75,76

H2. Rare. Record from Fairy Glen in 2001 and also Cromarty Rothamsted trap.

Barred Chestnut (Diarsia dahlia) 2121 NH36,45,46,55,56,58,64,65,66,76,77

H11. Occasional. Records from Black Isle, Fearn Peninsula, Ardgay etc.

Barred Red (Hylaea fasciaria) 1962

H20+ Very common with records from thirty 10km squares. eg Fairy Glen, by Tain, Lochussie etc.

Barred Straw (Eulithis pyraliata) 1758 NH56,66,76,77,78,87,88

H7. Occasional in the east. eg Nigg, Findon, Fearn, by Milton, Morrich More.

Barred Umber (Plagodis pulveraria) 1903 NH45,59

H2. Only recorded from Glen Orrin and Strath Oykel.

Barred Yellow (Cideria fulvata) 1765

H12. Occasional in the Black Isle and Fearn Peninsula. eg Findon, Nigg, Glen Glass, Inchindown

Beautiful Brocade (Lacanobia contigua) 2156 NH45,55

H2. Locally rare. Glen Orrin and Culbockie.

Beautiful Carpet (Mesoleuca albicillata) 1748 NH45,55,65,66,67,75,76,77

H8. Fairly scarce with most records from the east. eg Fairy Glen, Cromarty.

Beautiful Golden Y (Autographa pulchrina) 2442

H18. Seen in a variety of places eg. by Tain, by Garve, Cromarty etc.

Beautiful Yellow Underwing (Anarta myrtilli) 2142

H11. Occasional often towards the west. eg Strath Rannoch, Strathconon, Loch Morie etc.

Bedstraw Hawkmoth (Hyles gallii) 1987 NH65

H1. Only one record of a larva at Bogallan.

Beech-green Carpet (Colostyia olivata) 1774 NC40, NH36,45,58,65,66,76,77,87

H9. Infrequent, mainly in August. eg. Strath Rusdale, Inveroykel, Fearn.

Birch Mocha (Cyclophora albipunctata) 1677

H12. Occasional mainly in May-June. eg. Torr Achilty, Wood of Brae, Einig Wood.

Black Mountain Moth (*Glacies coracina*) 1965 Na NH24,28
H2. Rare with upland records from Seana Bhraigh and Carn Eiteige.

Black Rustic (*Aporophyla nigra*) 2232 NH35,36,45,49,55,64,65,76,77,87,88,98
H12. Scattered mainly in August and September. eg. By Garve, by Tain, Muir of Ord etc.

Blue-bordered Carpet (*Plemyria rubiginata*) 1766 NH36,46,55,76
H4. Scarce in E. Ross. Garve, Culbockie, Cromarty.

Bordered Beauty (*Epione repandaria*) 1907 NC20,40,NH36,45,49,59,65,68,76,77
H10. Occasional only. eg. Benmore. Loch Cathrine, Ardgay, Tain.

Bordered Straw (*Heliothis peltigera*) 2403
Pre-2000. A 1995 record from Tain station only.

Bordered White (*Bupalus piniaria*) 1954
H20. Common in many places. eg. Rheindown Wood, Loch Ussie, Rosemarkie, Duncanston.

Brick (*Agrochola circellaris*) 2262 NH36,55,65,76
H4. Scarce in E. Ross. By Garve, Culbockie and other Black Isle sites.

Bright-line Brown-eye (*Lacanobia oleracea*) 2160
H12. Moderately frequent. eg. Fearn, Edderton, Jemimaville, Garve etc.

Brimstone Moth (*Opisthoptis luteolata*) 1906
H20+. Common with records from 23 squares. eg. Fairy Glen, Allt Coire Ruchain, Glen Glass etc.

Brindled Beauty (*Lycia hirtaria*) 1927
H20. Common in April and May, eg. Rogie Falls, Muir of Ord, Strath Rannoch.

Brindled Green (*Dryobotodes eremita*) 2248 NH45,65,76,77
H4. Locally scarce. Records from Culbockie, Kildary, Lochussie and Cromarty.

Brindled Ochre (*Dasypolia templi*) 2229 NH55,65,76,77,87,88
H6. Infrequent in September and October. eg. by Tain, Balcladaich, Morrich More forestry.

Brindled Pug (*Eupithecia abbreviata*) 1852
H14. Frequent in March and April in broad-leaved woodland. eg. Strath Rusdale, Contin, Kildary.

Broad-barred White (*Hecatera bicolorata*) 2164 NH45,55,64,66
H4. Scarce in E. Ross. Contin, Culbockie, Findon, Kilmuir.

Broad-bordered White Underwing (*Anarta melanopa*) 2144 RDB NH12,27,28,38
H4. A rare mountain species. Carn Ban, Beinn Fionnlaidh, Seana Bhraigh, Beinn Liath Mhor.

Broad-bordered Yellow Underwing (*Noctua fimbriata*) 2110 NH45,55,56,64,65,66,76,77,87
H9. Scattered records. eg. Lochussie, Fearn, Findon, Culbockie.

Broken-barred Carpet (*Electrophaes corylata*) 1773
H14. Frequent in the Vice-county. eg. Wood of Brae, Einig Wood, Cnoc Navie

Broom Moth (*Melanchra pisi*) 2163
H20+. Common and often found as larva. eg. Ben Wyvis, Inchbae, Abhain an Torrain Dubh.

Broom-tip (*Chesias rufata*) 1865 Nb NH36,45,55,64,65,76,77,78,88
H9. Nationally scarce but several records in VC 106. eg. Craigton, Kildary, Culbockie.

Brown Rustic (*Rusina ferruginea*) 2302
H20+. Common with records from 24 squares. eg. by Garve, by Tain, Jemimaville, Ardgay.

Brown Silver-line (*Petrophora chlorosata*) 1902
H20+. Common in bracken especially in May. eg. Strathpeffer, Ardross, Little Scatwell, Nigg.

Brown-line Bright-eye (*Mythimna conigera*) 2192 NH36,55,,76,77,87
H5. Scarce in this area. Fearn, Gorstan, Balloan, by Milton, Cromarty.

Brown-spot Pinion (*Agrochola litura*) 2266 NH39,45,55,56,64,65,66,76,77,87,98
H11. Occasional in August and September. eg. Contin, by Portmahomack, Culbockie, Einig Wood.

Brussels Lace (*Cleorodes lichenaria*) 1945 NH45,54,55,56,65,66,69,76,77,87
H10. Scattered in E. Ross. eg. Rheindown Wood, Glasfield, Fearn, Cromarty.

Buff Ermine (*Spilosoma luteum*) 2061 NH76
H1. Only one recent record from the Cromarty Rothamsted trap. A 1984 report from Belmaduthy.

Buff Tip (*Phalera bucephala*) 1994
H20. Common across the area. eg. Einig Wood, Dos Mhucarain, Strathrannoch, Rogie.

Bulrush Wainscot (*Nonogria typhae*) 2369 NH77
H1. Only one post-2000 record from Calrossie Woods.

Burnished Brass (*Diachrysia chrysitis*) 2434
H16. Frequent in various places. eg. Morrich More, Jemimaville, Lochussie, Drynie Park.

Cabbage Moth (*Mamestra brassicae*) 2154 NH55,65,76
H3. Locally rare. Found at Culbockie, Muir of Ord and Cromarty.

Campion (*Hadena rivularis*) 2166 NH45,55,56,76
H4. Scarce in VC 106. Cromarty, by Balloan, near Findon, Glen Orrin.

Canary -shouldered Thorn (*Ennonomos alniaria*) 1913 NH36,45,46,55,56,65,66,76,77,87,88
H11. Local and often seen in September. eg. by Tain, by Garve, Duncanston, Glasfield.

Centre-barred Sallow (*Atethmia centrigo*) 2269 NH45,46,64,76,87
H5. Scarce locally. Records from Fearn, Lochussie, Inchbae, Craigton and Cromarty.

Chestnut (*Conistra vaccinii*) 2258
H16. Frequent late and early in the year. eg. Findon, Ardgay, Peddieston, Kildary.

Chestnut-coloured Carpet (*Thera cognata*) 1770 Nb NH36,45,65,76
H4. Locally and nationally scarce. by Garve, Contin, Glen Orrin, Breachloch.

Chevron (*Eulithis testata*) 1755
H20+. Common with records from 25 squares. eg. Hill of Nigg, Ben Wyvis, Duag Bridge.

Chimney Sweeper (*Odezia atrata*) 1870 NH25,36,45,76
H4. Seen in the day and scarce. Aultgowrie, Moy Bridge, Eathie, Gleann Meinich.

Chinese Character (*Cilix glaucata*) 1651
Pre-2000. Old Rothamsted trap record only.

Clay (*Mythimna ferrago*) 2193 NH55,64,76,77,78,87
H6. Infrequent in E. Ross. Fearn, Culbockie, Muir of Ord, Edderton, Craigton, Kildary.

Cloaked Minor (*Mesoligia furuncula*) 2341 NH76
H1. The only recent record is from the Cromarty Rothamsted trap.

Clouded Border (*Lomaspilis marginata*) 1887
H20+. Records from 24 squares and often seen in the day. eg. Redcastle, Loch Morie, Roskill, etc.

Clouded-bordered Brindle (*Apamea crenata*) 2326
H11. Occasional in the area. eg. Nigg Bay, Lochussie, Wood of Brae, by Garve.

Clouded Buff (*Diacrisia sannio*) 2059 NH36,45,76
H3. Locally rare here. Lochussie, Glen Orrin, by Garve.

Clouded Drab (*Orthosia incerta*) 2188
H20+. Very common especially in March and April (28 squares). eg. Scatwell, Fearn, Duncanston.

Clouded Silver (*Lomographa temerata*) 1958 NH45,64,77
H3. Locally rare and seen in May. Contin, Kildary, Craigton.

Common Carpet (*Eppirhoe alternata alternata*) 1738
H20. Quite common here. eg. River Avern, Kiltearn, Nigg, Inchindown.

Common Footman (*Eilema lurideola*) 2050
H14. Frequent in some places. eg. Ardgay, Morrich More, Cromarty, Fairy Glen.

Common Heath (*Ematurga atomaria atomaria*) 1952
H20+. Very common (29 squares) and seen in the day. eg. Loch Li Fannich, Glen Calvie, Alladale.

Common Lutestring (*Ochropacha duplaris*) 1657
H20+ Widespread here. eg. Strath Oykel, Lochussie, Garve, Fearn.

Common Marbled Carpet (*Chloroclysta truncata*) 1764
H20+. Common in VC 106. eg. Ardgay, Pollan Buidhe, Orrin, Bogbuie Wood.

Common Pug (*Eupithicia vulgata*) 1834
H15. Quite frequent. eg. Ardgay, Culbockie, Findon, Cromarty.

Common Quaker (*Orthosia cerasi*) 2187
H20+. Very common early in the year (28 squares). eg. Strath Rusdale, Peddieston, Scatwell, Fearn.

Common Rustic (*Mesapamea secalis*) 2343
H20. Mainly *Mesapamea* agg given the difficulty in distinguishing it from similar species..

Common Swift (*Hepialus lupulinus*) 17 NH45,65,66,76
H4. Locally scarce with records from Lochussie, Culbockie, Findon and Cromarty.

Common Wainscot (*Mythimna pallens*) 2199
H11. Scattered in VC 106. eg. by Tain, Drynie Park, Jemimaville, Loch Cathrine.

Common Wave (*Cabera exanthemata*) 1956
H16. Frequent often seen in June and July. eg. Ardgay, Udale, Lochussie, Culbockie.

Common White Wave (*Cabera pusaria*) 1955
H19. Fairly common across the Vice-county. eg. Fairy Glen, Kildary, Eathie, Loch Meig.

Confused (*Apamea furva*) 2329 NH36,76
H2. Locally rare. The only recent records are from near Garve and Cromarty.

Convolvulus Hawkmoth (*Agrius convolvuli*) 1972 NH36,75,76,87,98
H5. A locally scarce immigrant. Records from Fearn, Garve, Fortrose, Portmahomack and Cromarty

Cousin German (*Protlompra sobrina*) 2116 Na UKBAP
Pre-2000. Recorded in 1994 at Amat Woods.

Coxcomb Prominent (*Ptilodon capucina*) 2008
H20+. Very common (26 squares). eg Ardgay, Cromarty, Wood of Brae, Lochussie.

Crescent (*Celaena leucostigma*) 2368 NC20, NH36,45,46,47,76,77,78
H8. Occasional here. eg Contin, Morrich More, Benmore, by Tain, Inchbae

Crinan Ear (*Amphipoea crinanensis*) 2359 NC20,30,40,NH37,55,57,64,76,77,78,88
H11. Occasional although identification is difficult. eg Einig Wood, Culbockie, Benmore.

Currant Pug (*Eupithecia assimilata*) 1832 NH55,64,77,87
H4. Appears to be scarce in VC 106. Fearn, Muir of Ord, Kildary, Craigton.

Dark Arches (*Apamea monoglypha*) 2321
H20+. Very common across the area (29 squares). eg Udale, Tain, Culbockie, Lochussie.

Dark Brocade (*Blepharita adusta*) 2250 NC40,NH36,45,55,65,66,76,87
H8. Occasional in E. Ross. eg Glen Orrin, Inveroykel, Ardgay, Fearn.

Dark Marbled Carpet (*Chloroclysta citrata*) 1762
H20+ Very common (28 squares). eg Fairy Glen, Kildermorie, Strath Rusdale.

Dark Spinach (*Pelurga comitata*) 1749
Pre-2000. Only known from a Rothamsted trap record from 1984.

Dark Sword-grass (*Agrotis ipsilon*) 2091 NH36,65,76,77
H4. A locally scarce immigrant species. Culbockie, by Garve, by Tain, Cromarty.

Dark Tussock (*Dicallomera fascelina*) 2027
H10. Occasional here and often seen as larva. eg Inchbae, Bendealt, Belmaduthy.

Dark-barred Twin-spot Carpet (*Xanthorhoe ferrugata*) 1725 NH55,65,66,76
H4. Locally scarce in E. Ross. Cromarty, Muir of Ord, Culbockie Wood, Findon.

Deaths-head Hawkmoth (*Acherontia atropos*) 1973
Pre-2000. The last definite record was at Alcaig in 1998.

December Moth (*Poecilocampa populi*) 1631
H20+ .Common between October and December. eg Strath Rannoch, Ardnagrask, Hill of Tain

Dotted Border (*Agriopis marginaria*) 1934
H11. Occasional here. eg Allt Duchairidh, Strath Rannoch, Culbockie, Kildary.

Dotted Carpet (*Alcis jubata*) 1942
H18 .Frequent in VC106. eg Ardgay, Morrich More, Rogie Falls, Garve

Dotted Clay (*Xestia baja*) 2130
H20+ Common (24 squares). eg. Strath Rusdale, Einig Wood, Lochussie, Drynie Park.

Double Dart (*Graphiphora augur*) 2114 NH55,66,75,76,77
H5. Locally scarce. Fairy Glen, by Milton, Culbockie, Findon, Cromarty.

Double Square-spot (*Xestia triangulum*) 2128
H12. Fairly frequent. eg Rheindown Wood, by Tain, by Drummondreach, Fairy Glen.

Double-striped Pug (*Gymnoscelis rufifasciata*) 1862

H20+. A very common moth (25 squares). eg Loch Meig, Hillockhead, by Balloan, Fearn.
Drinker (*Euthrix potatoria*) 1640
H15. Frequent. Most records are of the larva. eg Benmore, Meall Dheirigidh, Wester Fearn.
Dun-bar (*Cosmia trapezina*) 2318 NH55,56,65,66,76,77
H6. Locally scarce and mainly eastern. eg. Muir of Ord, Findon, Breachloch, Kildary.
Dusky Brocade (*Apamea remissa*) 2330
H14. Frequent in the Vice-county. eg Shandwick, by Ardgay, Culbockie, Udale, Loch Ussie.
Dwarf Pug (*Eupethecia tantillaria*) 1857 NC40,NH45,77
H3. Appears to be locally scarce. Lochussie, Kildary, Inveroykel Wood.
Ear agg (*Amphipoea* agg.)
H16. These Ear records could not be allocated to species.
Ear Moth (*Amphipoea oculatea*) 2360 NH87
H1. Only one record at Hilton of Cadboll in 2008.
Early Grey (*Xylocampa areola*) 2243
H17. Frequent between March and May. eg Shore Mill, Culbockie, Ardgay, Fearn.
Early Thorn (*Selenia dentaria*) 1917
H17. Widespread in E Ross. eg Wood of Brae, Rogie Falls, Culbockie, Strath Oykel.
Early Tooth-striped (*Trichopteryx carpinata*) 1881
H20+. Very common (26 squares) from March to May. eg Einig, Ardgay, Scatwell, Garve
Edinburgh Pug (*Eupithecia intricata milleraria*) 1827 NC40,NH45,55,64,65,76,87
H7. Occasional here. eg. Glasfield, Craigton, Muir of Ord, Fearn.
Elephant Hawkmoth (*Deilephila elpenor*) 1991 NH45,46,55,65,76,77,87
H7. Occasional in VC106. eg. Kildary, Culbockie, Cromarty, Achterneed, Kilcoy.
Emperor Moth (*Saturnia pavonia*) 1643
H20+. Common (23 squares). Most records are of the larva. eg East Benula Forest, Loch an Eilean.
Engrailed (*Ectropis bistortata*) 1947
H20+. Very common early in the year (26 squares). eg Loch Cathrine, Morrich More, Scatwell.
Epirrita agg (November/ Autumnal Moths)
H20. Includes all records which could not be allocated to a species. eg November + Autumnal Moths
Fan-foot (*Zanclognatha tarsipennalis*) 2489
Pre-2000. Old Rothamsted trap record only.
Feathered Thorn (*Colotois pennaria*) 1923
H11 Fairly frequent in the autumn. eg Torrachilty, Ardnagrask, Duncanston, Culbockie.
Flame (*Axylia putris*) 2098
Pre-2000. Only an older Rothamsted record.
Flame Carpet (*Xanthorhoe designata*) 1722
H20+. Common across the Vice-county. eg Einig Wood, Cromarty, Wood of Brae, by Garve.
Flame Shoulder (*Ochropleura plecta*) 2102
H11. Occasional from May to July. eg Craigton, by Balloan, Jemimaville, Lochussie.
Flounced Chestnut (*Agrochola helvola*) 2265 NH39
H1. The only post-2000 record is from Einig Wood by Oykel Bridge in late August.
Flounced Rustic (*Luperina testacea*) 2353 NC40,NH45,64,76,77,78,87,88,98
H9. Occasional in August and September. eg Inveroykel, by Portmahomack, Morrich More.
Four-dotted Footman (*Cybosia mesomella*) 2040 NH36,45,65
H3. Locally rare. June records from Belmaduthy, Contin and near Garve
Fox Moth (*Macrothylacia rubi*) 1638
H20+. Very common (30 squares) usually seen as larva .eg Aultguish, Corriemollie, Loch Crann.
Foxglove Pug (*Epithecia pulchellata*) 1817
H11. Occasional across the area. eg Achnasheen, Grudie, Muir of Ord, Kildary.
Frosted Orange (*Gortyna flavago*) 2364 NH36,45,55,56,64,65,76,77,87
H9. Scattered records in August and September. eg Glasfield, by Garve, Nigg RSPB, by Tain

Garden Carpet (*Xanthorhoe fluctuata*) 1728

H15. Frequent in VC 106. eg Strath Oykel, Cromarty, Culbockie, by Milton.

Garden Dart (*Eoxoa nigricans*) 2082

Pre-2000. Only a pre-2000 Rothamsted record.

Garden Tiger (*Arctia caja*) 2057

H20. Common across E Ross. eg Lochussie, Strathsgitheach, Struie, Strathmulzie.

Ghost Moth (*Hepialis humuli humuli*) 14 NH36,45,55,65,66,76,77,86,87

H9. Occasional mainly in the east. eg Castlecraig, Coul, Kildary, Cromarty.

Glaucous Shears (*Papestra biren*) 2162 NC30,NH36,39,46,57,59

H6. Fairly scarce and recorded in May. eg Bendealt, Einig Wood, Garve, Strath Oykel.

Goat Moth (*Cossus cossus*) 162 Nb UKBAP NH36,45,76

H3. Locally rare. Larvae leave holes in host trees. by Garve, Silver Bridge, Cromarty.

Gold Spangle (*Autographa bractea*) 2444

H15. Frequent in July and August. eg Culbockie, Einig Wood, Nigg, Garve.

Gold Spot (*Plusia festucae*) 2439 NC30,NH36,45,55,65,76,77,78,87

H9. Occasional in E. Ross. eg Edderton, Glasfield, Lochussie.

Gold Swift (*Hepialus hecta*) 16 NH36,45,55,65,66,76,77

H7. Fairly scarce. Recorded in June and July. eg Jemimaville, by Milton, by Garve.

Golden-rod Brindle (*Lithomoia solidaginis*) 2233 NH39,77

H2. Rare in E Ross. Einig Wood, by Tain

Golden-rod Pug (*Epithecia virgaureata*) 1851 NC30,NH45,46,76,88

H5. Locally scarce. Garve, Morrich More, Einig Wood, Lochussie, Cromarty.

Gothic (*Naenia typica*) 2136 NH36,55,65,66,75,76

H6. Uncommon and mainly on the Black Isle. eg Rosemarkie, Culbockie, Findon, by Garve

Grass Rivulet (*Perizoma albulata albulata*) 1807 NH66,76,77

H3. Rare in VC 106. Wood of Brae, Jemimaville, by Milton.

Grass Wave (*Perconia strigillaria*) 1970 NH77

H1. Only one record post-2000 from Calrossie Woods by Tain.

Great Brocade (*Eurois occulta*) 2137 Nb NH35,36,37,76

H4. Scarce in this area. By Garve, Strath Rannoch, Scatwell, Cromarty.

Green Arches (*Anaplectoides prasina*) 2138

H16. Frequent between June and early August. eg Rosemarkie, by Milton, Culbockie, by Garve.

Green Carpet (*Colostygia pectinataria*) 1776

H20+. Very common (34 squares). eg Strath Rusdale, Ardgay, Lily Loch, Rogie.

Green Pug (*Pasiphila rectangulata*) 1860 NH45,55,65,68,77

H5. Scarce here with records from by Kildary, Duncanston, Glasfield and Ardgay.

Green Silver-lines (*Pseudoips prasinana*) 2422 NH45,66,69,76,77

H5. Locally scarce and recorded in June. Cromarty, Contin, Kildary, Ardgay and Findon.

Green-brindled Crescent (*Allophyes oxyacanthae*) 2245

H11. Occasional and recorded in October and November. eg Inchbae, Tain Hill, Muir of Ord, Nigg

Grey Arches (*Polia nebulosa*) 2150 NH26,36,45,46,55,64,66,69,76

H9. Scattered with records in July and early August. eg Culbockie, Grudie, Contin, by Garve.

Grey Birch (*Aethalura punctulata*) 1951

H12. Frequent and recorded in late April and May. eg. Strath Rannoch, by Garve, Ardnagrask.

Grey Chi (*Antitype chi*) 2254 NH36,45,46,55,57,67,76,77,78

H8. Infrequent in E. Ross. eg by Tain, Loch na Croic, Loch Morie, Culbockie, Muir of Ord, Garve

Grey Dagger (*Acronicta psi*) 2284 NH26,36,45,46,55,56,76,77,87

H9. Occasional and recorded between May and August. eg Grudie, Eileanach Lodge, Strathpeffer.

Grey Mountain Carpet (*Entephria caesiata*) 1744 NC30,NH37,48,55,58,65,76,78

H8. Infrequent here. eg. Strathvaich, Edderton, Strath Rusdale, Carn Chuinneag.

Grey Pine Carpet (*Thera obeliscata*) 1768

H20+. Very common (26 squares). eg. Morrich More, Garve, Bogbuie, Torrachilty, Fearn.

Grey Pug (*Eupithecia subfuscata*) 1837

H10. Occasional with records from May to August. eg Glenglass, Castlecraig, Hillockhead.

Grey Scalloped Bar (*Dyscia fagaria*) 1969 NH36

H1. Only one post-2000 record from near Garve in early June.

Haworth's Minor (*Celaena haworthii*) 2367

H13. Scattered records between August and October. eg Inveroykel, Glen Glass, Beinn Tharsuinn

Heart and Dart (*Agrotis exclamationis*) 2089 NH45,55,64,76,77,87

H6. Fairly scarce here. Fearn, Culbockie, Craigton, Contin, Kildary, Cromarty.

Heath Rivulet (*Perizoma minorata ericetata*) 1805 Nb NH76,77

H2. Nationally scarce and locally rare. Nigg and Cromarty.

Heath Rustic (*Xestia agathina*) 2135

H16. Frequent mainly in August and September. eg Benmore, Strath Rusdale, Lochussie, Fearn.

Hebrew Character (*Orthosia gothica*) 2190

H20+. Very common (33 squares), mainly in March and April. eg Ardgay, Duncanston, Scatwell.

Herald (*Scoliopteryx libatrix*) 2469

H10. Occasional in this area. eg. Contin, Stoneyfield lochs, South Sutor, Culbockie.

Hummingbird Hawkmoth (*Macroglossum stellatarum*) 1984 NH45,65,76

H3. A locally rare immigrant. Aultgowrie, Belmaduthy, Cromarty.

Ingrailed Clay (*Diarsia mendica mendica*) 2120

H20+. Very common (26 squares). eg. By Tain, Lochussie, Culbockie, Strath Rusdale, Einig Wood.

Iron Prominent (*Notodonta dromedarius*) 2000

H15. Fairly common. eg Rheindown Wood, Garve, by Milton, Culbockie.

July Belle (*Scotopteryx luridata plumbaria*) 1734 NH56,75,76,77,98

H5. Locally scarce. Cromarty, Kildary, Tarbatness, Glen Glass, Rosemarkie.

July Highflyer (*Hydriomena furcata*) 1777

H20+. Very common (30 squares). eg Rogie, Loch Eye, Craigroy Burn, Drynie Park.

Juniper Carpet (*Thera juniperata juniperata*) 1771 NH45,68,76

H3. Rare in E. Ross. Struie, Lochussie, Cromarty.

Juniper Pug (*Eupithecia pusillata*) 1854

H14. Frequent from June to August. eg by Tain, Culbockie, Strath Rusdale

Knot Grass (*Acronicta rumicis*) 2289

H20+. Common from May to July. eg Torr Achilty, Glasfield, Loch Meig, Alladale.

Larch Pug (*Eupithecia lariciata*) (1856) NC40,NH45,77

H3. Rare locally. Contin, Kildary, Inveroykel West.

Large Ear (*Amphipoea lucens*) 2357

H15. Frequent but there are identification difficulties. eg Culbockie, Loch Cathrine, Benmore.

Large Emerald (*Geometra papilionaria*) 1666

H19. Common from late June to early August. eg Ardgay, Einig Wood, Wood of Brae.

Large Yellow Underwing (*Noctua pronuba*) 2107

H20+. Common but ? less than elsewhere in UK eg Lily Loch, Rosemarkie, Allt Coire Ruchain.

Latticed Heath (*Chiasmia clathrata clathrata*) 1894

Pre-2000. Only an older Rothamsted record.

Lead Belle (*Scotopteryx mucronata*) 1733 NH45,57

H2. Locally rare. Difficult to distinguish from July Belle. Bendealt, Cul Mor.

Lead-coloured Drab (*Orthosia populeti*) 2185

Pre-2000. Only older Rothamsted trap records.

Least Black Arches (*Nola confusalis*) 2078 NH36,55,65,66,76,87

H6. Scarce in this area. Cromarty, Culbockie, Fearn, by Garve.

Lempke's Gold Spot (*Plusia putnami*) 2440 NH45,46,55,65,76,77,87

H7. Sparse in E. Ross. Garve, Culbockie, Balintore, Kildary, Glen Orrin, Glasfield, Cromarty.

Lesser Broad-bordered Yellow Underwing (*Noctua janthe*) 2111

H19. Common mainly in July and August. eg. Strath Rusdale, Einig Wood, Lochussie.

Lesser Swallow Prominent (*Pheosia gnoma*) 2006
H20+. Common here (23 squares). eg. Calrossie Woods, Ardgay, Findon, Rogie.

Lesser Yellow Underwing (*Noctua comes*) 2109
H20+. A common species. eg Fairy Glen, Fearn, Drynie Park, Garrve.

Light Arches (*Apamea lithoxylaea*) 2322 NH36,45,55,65,66,76,77,78,86
H9. Occasional. eg by Milton, Nigg, Garve, Kinbeachie, Edderton.

Light Emerald (*Campaea margaritata*) 1961
H20+. Very common (27 squares). eg. Scardroy, Bogbuie, Lochussie, Fearn.

Light Knot Grass (*Acronicta menyanthidis*) 2286
H12. Quite frequent here. eg. Dos Mhucarain, Strathrannoch, Ben Wyvis, Alladale.

Lime-speck Pug (*Eupithecia centaureata*) 1825 NH78
H1. Rare here with only one record from Edderton in 2008.

Ling Pug (*Eupithecia absinthiata goossensiata*) 1831 NC30,NH36,39,45,46,49,76,77
H8. Occasional here. eg Loch Cathrine, Garve, Calrossie Woods.

Lunar Marbled Brown (*Drymonia ruficornis*) 2015 NH55
H1. Rare locally with only one record in 2009 at Culbockie.

Lunar Thorn (*Selenia lunularia*) 1918
H18. Common in May and June. eg. Loch Garve, Ardgay, Findon, Fearn.

Lunar Underwing (*Omphaloscelis lunosa*) 2270 NH76,77,86,87
H4. Scarce locally but perhaps increasing. Castlecraig, Nigg, Kildary, Cromarty.

Lychnis (*Hadena bicurris*) 2173 NH45,55,64,76,86,87
H6. Locally scarce. Nigg, Balintore, Muir of Ord, Craigton, Strathpeffer, Cromarty.

Magpie Moth (*Abraxas grossulariata*) 1884
H20+. Very common especially in July. eg Morrigh More, Oykel Bridge, Muir of Ord.

Manchester Treble -bar (*Carsia sororiata anglica*) 1866 **Nb** NH24,46,57,58,66,76
H6. Scarce and often upland. Strathconon, Ben Wyvis, Loch a Char, Loch Morie, Kinbeachie.

Map-winged Swift (*Hepialus fusconebulosa*) 18
H20+. Very common (28 squares) eg Calrossie Woods, by Garve, Culbockie, Lochussie.

Marbled Beauty (*Cryphia domestica*) 2293 NH36,45,66,76
H4. Scarce in E. Ross. Lochussie, by Garve, Kinbeachie, Cromarty.

Marbled Coronet (*Hadena confusa*) 2171 NH55,76,77
H3. Locally rare. Culbockie, by Milton, Cromarty.

Marbled Minor (*Oligia strigilis*) 2337 NH45,55,64,65,66,76,77,87
H8. Occasional and recorded in June and July. eg. Glen Orrin, Kilmuir, Balintore, Kildary.

March Moth (*Alsophila aescularia*) 1663 NH45,55,56,66,76,77
H6. Scarce from February to April. eg Duncanston, Torrachilty, Culbokie, Calrossie, Findon.

Marsh Pug (*Eupithecia pygmaeata*) 1822 **Nb** NH65
H1. Rare with only one record in 2003 at Munloch in June.

May Highflyer (*Hydriomena impluviata*) 1778 NC30,NH36,37,45,55,47,66,86
H8. Occasional in late May and June. eg Kiltearn, Castlecraig, Einig Wood.

Merveille de Jour (*Dichonia aprilina*) 2247 NH45,66,76,77,87
H5. Locally scarce. Fearn, Kildary, Findon, Contin, Cromarty.

Mesapamea agg. NH36,45,55,64,75,77,87
H7. These could not be allocated to the species Common Rustic or Lesser Common Rustic.

Middle-barred Minor (*Olgia fasciuncula*) 2340
H18. Common especially in late June and July. eg. Strath Rusdale, Rosemarkie, Wood of Brae,

Miller (*Acronicta leporina*) 2280 NH36,55,67
H3. Rare in this area. Balloan, Inchindown, by Garve.

Minor Shoulder-knot (*Brachylomia viminalis*) 2225 NC20,NH26,36,46,55,65,76,77
H8. Occasional. Records from Kildary, by Garve, Benmore, Culbockie, Grudie, Cromarty.

Mother Shipton (*Callistege mi*) 2462 NH36,45,56,57,65,66,76,86,87
H9. Scattered with records between June and September. eg Redcastle, Lochussie, Drynie Park.

Mottled Beauty (*Alcis repandata*) 1941

H20+. Very common with records from 33 squares. eg. Culbockie, Calrossie Woods, by Garve.

Mottled Grey (*Colostygia multistrigaria*) 1775

H20+. Common in March and April. eg Hill of Tain, Scatwell, Duncanston, Loch Morie.

Mottled Pug (*Eupithecia exiguata exiguata*) 1819

Pre-2000. Only pre-2000 Rothamsted trap records.

Mottled Rustic (*Caradrina morpheus*) 2387 NH45,55,65,66,68,76,87

H7. Fairly scarce here. Fearn, Culbockie, Ardgay, Findon, Easter Moy, Cromarty.

Mottled Umber (*Erannis defoliaria*) 1935

H14. Frequent between October and December. eg. Strath Rannoch, Grudie, Morrich More

Mouse Moth (*Amphipyra tragopoginis*) 2299

H12. Frequent in August and September. eg Castlecraig, Portmahomack, Contin, Culbockie.

Muslin Footman (*Nudaria mundana*) 2038 NH45

H1. Locally rare with only one record in July 2010 at Torrachilty Wood.

Narrow-bordered Bee Hawkmoth (*Hemaris tityus*)1982 Nb UKBAP NH35,36,45,65,66,76,77

H7. Scarce day flying moth. eg Bogbuie, Kildary, by Garve, Brae, Hillockhead, Poyntzfield etc.

Narrow-winged Pug (*Eupithecia nanata*) 1846

H12. Frequent in E. Ross. eg. Contin, Ardgay, Carn Chuinneag, Strath Oykel, by Tain.

Neglected Rustic (*Xestia castanea*) 2132

H16. Quite common especially in August. eg. Lochussie, Inveroykel, Garve, Culbockie.

Netted Mountain Moth (*Macaria carbonaria*) 1895 RDB

Pre-2000. The only record was at Bendealt in May 1989.

Northern Arches (*Apamea zeta assimilis*) 2324 Na NH36,76

H2. Rare here. Recent records only from by Garve and the Rothamsted Cromarty trap.

Northern Dart (*Xestia alpicola alpina*) 2125 Na UKBAP NH77

H1. Near Tain and a 1973 Ben Wyvis record. Unconfirmed larva on Meall Chaorainn.

Northern Deep-brown Dart (*Aporophyla lueneburgensis*) 2231a NH36,76

H2. Locally rare. Only recorded by Garve and at Cromarty (Rothamsted).

Northern Eggar (*Lasiocampa quercus*) 1637

H20+. Commonly recorded as the larva often on moorland. eg Allt Domhain, Loch Glascarnoch.

Northern Rustic (*Standfussiana lucernea*) 2104

Pre-2000. Only older Rothamsted records.

Northern Spinach (*Eulithis populata*) 1756

H20+. Common (24 squares). eg Sron na Frianich, Coire Mor, Rogie, Ben Wyvis.

Northern Winter Moth (*Operophtera fagata*) 1800 NH36,48,57,76,77

H5. Scarce in November and December. Kildary, Glen Calvie, Eathie, Loch Morie, Garve.

November Moth (*Epirrita dilutata*) 1795

H14. Frequent often in October. eg. Rogie, Fearn, Balloan, Eathie, by Tain, Morrich More.

Nutmeg (*Discestra trifolii*) 2145

Pre-2000. Older Rothamsted records only.

Nut-tree Tussock (*Colocasia coryli*) 2425

H20+. Common (24 squares). eg. Lochussie, Ardgay, Stoneyfield Lochs, by Garve, Fearn.

Oak Eggar (*Lasiocampa quercus*) 1637 NH27,76

H2. These records may refer to the Northern Eggar.

Oblique carpet (*Orthonama vittata*) 1719

Pre-2000. Only pre-2000 Rothamsted records at Ardross and Inchbae.

Ochreous Pug (*Eupithecia indigata*) 1844

H10. Scattered records. eg Culbockie, Loch Meig, Strath Rannoch, Einig Wood.

Old Lady (*Mormo maura*) 2300 NH36,37

H2. Rare in E. Ross. Found at Gorstan and by Garve

Oligia agg (*Marbled Minor* etc) NH45,87

H2. Records in this genus not allocated to a species.

Orange Sallow (*Xanthia citrigo*) 2271 NH55,76,77
H3. Rare here. Kildary, Culbockie, Cromarty.

Orange Swift (*Hepialus sylvina*) 15 NH39,45,76,78
H4. Locally scarce. Morrich More, Einig Wood, Contin, Cromarty.

Orange Underwing (*Archieris parthenias*) 1661 NH45,76
H2. Locally rare in day-time in March and April. Scatwell, Blackmuir Wood, Torrachilty Forest.

Pale Brindled Beauty (*Phigalia pilosaria*) 1926
H15. Quite common mainly in February and March. eg Kildary, by Garve, Duncanston, Culbockie.

Pale Eggar (*Trichiura crataegi*) 1632 NC20,NH36,39
H3. Rare in this area with records in August. Benmore, Einig, by Garve

Pale Mottled Willow (*Paradrina clavipalpis*) 2389 NH55
H1. Very rare in E Ross with only one record at Duncanston in October.

Pale November Moth (*Epirrita christyi*) 1796
Pre-2000. Older Rothamsted trap records only.

Pale Prominent (*Pterostoma palpina*) 2011
H16. Common in May and June. eg. Fearn, Culbockie, Ardgay, Craigton, Strath Rannoch.

Pale-shouldered Brocade (*Lacanobia thalassina*) 2158
H16. Widespread and seen between May and July. eg. Jemimaville, Ardnagrask, Duncanston.

Peach blossom (*Thyatira batis*) 1652 NH45,66,76,77
H4. Scarce in VC 106. Cromarty, Wood of Brae, Lochussie, Kildary.

Peacock Moth (*Macaria notata*) 1889
H20+. Common here with records from 24 squares. eg. Monadh Mor, Strath Vaich, Ardross.

Pebble Hook-tip (*Drepana falcataria*) 1648
H12. Quite frequent. eg. Spittalwood, Meall an Tuirc, Strath Rannoch, Wood of Brae.

Pebble Prominent (*Notodonta ziczac*) 2003
H17. Fairly common. eg. Findon, Torroy, Morrich More, Gorstan, Fearn.

Peppered Moth (*Biston betularia*) 1931
H13. Frequent here. eg Craigton, Einig Wood, Culbockie, Cromarty, Tain.

Phoenix (*Eulithis prunata*) 1754 NH58,67,75,76,77,87
H6. Locally scarce. Calrossie Woods, Ardgay, Fairy Glen, Balintore, Cromarty, Sittenham.

Pine Beauty (*Panolis flammea*) 2179
H14. Frequent and recorded between February and May. eg. Glen Calvie, Scatwell, Craigton.

Pine Carpet (*Thera firmata*) 1767
H17. Quite common here. eg Strath Rusdale, by Garve, Findon, Lochussie, Fearn.

Pink-barred Sallow (*Xanthia togata*) 2273
H14. Fairly frequent. eg. Seafield, Inveroykel, Ardgay, Calrossie Woods, Muir of Ord.

Pinion-streaked Snout (*Schrankia costastrigalis*) 2484 NH45,46,55,56,65,66,76,77
H8. Occasional from June to August. eg. Braefindon, Garve, Glen Glass, Lochussie.

Plain Clay (*Eugnorisma depuncta*) 2103 **Nb** NH36,45,56,64,65,67,75,76
H8. Scarce locally and nationally. Braefindon, Contin, Rosemarkie, Cromarty, by Culbockie.

Plain Golden Y (*Autographa jota*) 2443 NH45,46,64,76
H4. Scarce here. Lochussie, Wood of Brae, Torrachilty Wood, Craigton, Cromarty.

Plain Wave (*Idaea straminata*) 1715 NH45,76,77
H3. Rare in E. Ross. Calrossie Woods, Rogie Falls, Cromarty.

Poplar Grey (*Acronicta megacephala*) 2278 NH45,76,77
H3. Rare with recent records from Loch Achilty, Kildary and Cromarty.

Poplar Hawkmoth (*Laothoe populi*) 1981
H20+. By far the commonest hawkmoth here. eg Loch a Croisg, Ardgay, Wood of Brae, Balloan.

Poplar Lutestring (*Tethea or*) 1655 NH68,69,76
H.3 Locally rare and only known from Ardgay (2 sites) and the Cromarty Rothamsted trap.

Powdered Quaker (*Orthosia gracilis*) 2186 NH77,87
H2. Rare here and only recorded at Fearn and Kildary in May.

Pretty Pinion (*Perizoma blandiata blandiata*) 1806 NC40,NH16,36,45,48,66,77
H7. Occasional with some day records. eg Creag na Laogh, Carn Chunneag, Kildary, by Garve.

Purple Bar (*Cosmorhoe ocellata*) 1752
H20+. Very common (28 squares). eg. Morrich More, Culbockie, Rogie, Ben Wyvis.

Purple Clay (*Diarsia brunnea*) 2122
H16. Frequent here from June to August, eg Muir of Ord, Ardgay, Belmaduthy, Rosemarkie.

Purple Thorn (*Selenia tetralunaria*) 1919
H11. Fairly frequent in May and early June. eg. Eileanach Lodge, Findon, Kildary, Fearn.

Puss Moth (*Cerura vinula*) 1995 NH36,76,77
H3 Locally rare. Calrossie Woods, by Garve, Cromarty.

Rannoch Brindled Beauty (*Lycia lapponaria scotica*) 1929 Na NC30
H1. Very rare in E. Ross and only known from Oykel Bridge where it appears to persist.

Red Carpet (*Xanthorhoe decoloraria*) 1723 NH14,45,46,76
H4. Locally scarce. Lochussie, Garve, Aultgowrie, Allt Fuar Tholl Mor.

Red Chestnut (*Cerastis rubricosa*) 2139
H17. Fairly common from March to May. eg. Fairburn, Strath Rusdale, Scatwell, Culbockie.

Red Sword-grass (*Xylena vetusta*) 2241
H18. Common here. eg. Glasfield, Roskill, Lochussie, Peddieston, Calrossie Woods.

Red Twin-spot Carpet (*Xanthorhoe spadicearia*) 1724
H10. Scattered in this area. eg. Inveroykel, Meall an Tuirc, Breachloch, Loch Morie.

Red-green Carpet (*Chloroclysta siterata*) 1760
H20+. Very common with records in 28 squares. eg Kildary, Fearn, Duncanston, Shore Mill.

Red-line Quaker (*Agrochola lota*) 2263
H11. Fairly frequent. eg. Calrossie Woods, Culbockie, Corry of Ardnagrask, Contin.

Riband Wave (*Idaea aversata*) 1713
H20+. Common from June to August. eg. Morrich More, Loch Meig, Drynie Park, Fearn.

Ringed Carpet (*Cleora cinctaria cinctaria*)1939 Na
Pre-2000. Pre-2000 Rothamsted trap record only.

Rivulet (*Perizoma affinitata*) 1802 NH45,55,66,75,76,87
H6. Fairly scarce here. Wood of Brae, Rosemarkie, Loch Ussie, Rogie, Fearn, Balloan.

Rosy Minor (*Mesoligia literosa*) 2342 NH45,55,67,76,77,78
H6. Locally scarce in July and August. Culbockie, Morrich More, Lochussie, by Milton, Cromarty.

Rosy Rustic (*Hydraecia micacea*) 2361
H16. Frequent here. eg. Muir of Ord, Findon, Duncanston, by Garve.

Ruby Tiger (*Phragmatobia fuliginosa*) 2064
H15. Fairly common. eg. Shandwick, Strathsgitheach, Cnoc Ceislein, McFarquhar's cave

Ruddy Highflyer (*Hydriomena ruberata*) 1779 NC20,NH47,59
H3. Rare in E. Ross. Benmore, Strath Rannoch, Torroy.

Rufous Minor (*Oligia versicolor*) 2338
Pre-2000 An older Cromarty record only.

Rustic (*Hoplodrina blanda*) 2382 NH36,64,67,77,78,87
H6. Locally scarce. Fearn, Calrossie Woods, Morrich More, by Garve, Craigton, Sittenham.

Rustic Shoulder-knot (*Apamea sordens*) 2334 NH45,55,64,65,66,76,77,87
H8. Occasional mainly in June. eg. Lochussie, Kilmuir, Fearn, Wood of Brae, Culbockie.

Sallow (*Xanthia icteritia*) 2274
H14. Frequent. eg Benmore, Seafield, Culbockie, Lochussie, by Garve, Fearn, Sittenham.

Sallow Kitten (*Furcula furcula*) 1997
H11. Quite frequent. eg. Glasfield, Ardgay, Corry of Ardnagrask, Strath Rusdale.

Sandy Carpet (*Perizoma flavofasciata*) 1808 NH55,64,65,76,77
H5. Locally scarce. Muir of Ord, Culbockie, Kildary, Craigton, Cromarty.

Satellite (*Eupsilia transversa*) 2256
H10. Occasional here. eg. Drummondreach, Scatwell, Northfield, Morrich More.

Satin Beauty (*Deileptenia ribeata*) 1940

H13. Fairly frequent in July and August. eg. Rheindown Wood, Strath Rusdale, Rogie, Evanton.

Satin Lutestring (*Tetheella fluctuosa*) 1656 NH77

H1. Rare in E. Ross with only one record from Kildary in June.

Satyr Pug (*Eupithecia satyrata*) 1828 NH44,56,59,66,76,87

H6. Fairly scarce. Cnoc na Maoile, Fearn, by Findon, Wood of Brae, Torroy, Cromarty.

Saxon (*Hyppa rectilinea*) 2320 Nb

H11 Scattered records in May and June. eg Breachloch, Einig, Dos Mhucarain, Garve, Wood of Brae

Scalloped Hazel (*Odontopera bidentata*) 1920

H20+. Common in May and June. eg. Morrich More, Ardgay, Findon, Strath Rory, Fearn.

Scalloped Hook-tip (*Falcaria lacertinaria*) 1645

H12. Fairly frequent. eg. Rheindown Wood, by Garve, Culbockie, Wood of Brae, Loch Ussie

Scalloped Oak (*Crocallis elinguaris*) 1921

H18. Common here. eg. Morrich More, Ardgay, by Garve, Culbockie, Rogie, Rosemarkie.

Scarce Prominent (*Odontosia carmelita*) 2010 NH26,36,44,45,55,56,65,76,77

H9. Occasional in April and May. eg. by Tain, Lochussie, Grudie, by Eileanach Lodge

Scarce Silver Y (*Syngrapha interrogationis*) 2447

H10. Scattered locally. eg. Craigton, Glen Calvie, Strath Rusdale, Rheindown Wood.

Scarce UMBER (*Agriopis aurantiaria*) 1933

H20+. Common in October and November. eg. Breachloch, Rogie, Inchindown, Ardnagrask.

Scorched Wing (*Plagodis dolabraria*) 1904 NH45,64,66,77

H4. Scarce in May and June. Findon, Kildary, Kilmuir, Glen Orrin.

Scotch Annulet (*Gnophos obfuscatus*) 1963 Nb NH35,46,76,78

H4. Scarce in July and August. Hill of Tain, Little Scatwell, Garve, Cromarty.

September Thorn (*Ennomos erosaria*) 1915 NH55

H1. Very rare in E Ross with only one record at Muir of Ord in September 2008.

Setaceous Hebrew Character (*Xestia c-nigrum*) 2126 NH45,55,65,66,76,77

H6. Occasional here. eg by Milton, Culbockie, Cromarty, Wood of Brae, Lochussie, Eathie.

Shaded Broad-bar (*Scotopteryx chenopodiata*) 1732

H12. Fairly widespread from June to August. eg. Hillockhead, Nigg, Glen Orrin, Evanton.

Shark (*Cucullia umbratica*) 2216 NH35,36,55,66,76

H4. Locally scarce. Culbockie, by Garve, Alnessferry, Cromarty, Scatwell.

Shears (*Hada plebeja*) 2147 NH15,45,77

H3. Locally rare from May to July. Kildary, Achnasheen, Lochussie.

Shoulder Stripe (*Anticlea badiata*) 1746

H10. Occasional from March to June eg. Contin, Craigton, Balloan, Hillockhead, Fearn.

Shoulder-striped Wainscot (*Mythimna comma*) 2205 NH45,55,65,66,77

H5. Scarce here in May and June. Culbockie, Contin, Kildary, Findon.

Silver Y (*Autographa gamma*) 2441

H15. A frequent immigrant. eg. Redcastle, North Sutor, Tarbatness, River Averon.

Silver-ground Carpet (*Xanthorhoe montanata*) 1727

H20+. Very common (29 squares). eg. Heights of Fodderty, McFarquhar's Cave, Craigroy Burn.

Silvery Arches (*Polia trimaculosa*) 2149 Nb NH36,39,76,77

H4. Scarce with records in July. Calrossie Woods, by Garve, Einig Wood, Cromarty.

Single-dotted Wave (*Idaea dimidiata*) 1708

Pre-2000. An old Rothamsted record only.

Six-spot Burnet (*Zygaena filipendulae*) 169

H13. Frequent by shore and also other sites. eg. Tain, Shandwick, Struie Hill, Nigg, Strath Rory.

Six-striped Rustic (*Xestia sexstrigata*) 2133

H11. Scattered records in July and August. eg. Calrossie Woods, Gorstan, Einig Wood, Culbockie.

Slender Pug (*Eupithecia tenuiata*) 1811 NH55,65,76

H3. Rare locally with records from Culbockie and Cromarty.

Small Angle Shades (*Euplexia lucipara*) 2305
H12. Frequent in this area. eg Ardgay, Kiltern, Ardgay, Culbockie.

Small Argent and Sable (*Epirrhoe tristata*) 1737 NH26,45,56,66,76,78
H6. Locally fairly scarce. Auldearg, Easter Moy, Edderton, Meall nan Tuirc, Findon, Cromarty.

Small Autumnal Moth (*Epirrita filigrammaria*) 1798 NH44,76
H2. Locally rare. Records from Cnoc Croit na Maoile and the Cromarty Rothamsted trap.

Small Clouded Brindle (*Apamea unanimitis*) 2331 NH76,77
H2. Rare here .Seen near Milton and at Cromarty.

Small Dark Yellow Underwing (*Anarta cordigera*) 2143 Na NH77
H1. Rare here and scarce nationally. One daytime record from Aldie Burn in May 2010

Small Dotted Buff (*Photedes minima*) 2345 NC30,NH45,46,55,65,66,76,77,87
H9. Occasional mainly in July. eg Alnessferry, Inchbae, by Milton, Lochussie, Culbockie.

Small Elephant Hawkmoth (*Deilephila porcellus*) 1992 NH36,45,76,77,86
H5. Scarce here. Nigg, Lochussie, by Garve, Kildary, Cromarty.

Small Fan-foot (*Herminia grisealis*) 2492 NH45,55,64,66,75,76,77
H7. Occasional mainly in June. eg Kilmuir, Kildary, Contin, Eathie, Wood of Brae, Lochussie.

Small Fan-footed Wave (*Idea biselata*) 1702
H20. Common in July and August. eg. Ardgay, Rogie, Gorstan, Fearn, Balloan

Small Phoenix (*Ecliptopera silaceata*) 1759
H15. Frequent here. eg. Calrossie Woods, Morrich More, Inchbae, Wood of Brae, Culbockie.

Small Purple-barred (*Phytometra viridaria*) 2470 NH37,45,54,55,65
H5. Locally scarce. Cul Mor, Meall an Tuirc, Loch Glascarnoch, Spittalwood, Bogbuie.

Small Quaker (*Orthosia cruda*) 2182
H14. Frequent in E. Ross from March to May. eg. Ardgay, Glen Calvie, Shore Mill, Craigton.

Small Rivulet (*Perizoma alchemillata*) 1803 NH36,45,55,56,65,66,75,76,77
H9. Occasional in June and July. eg. Muir of Ord, Glasfield, Jemimaville, Wood of Brae

Small Square-spot (*Diarsia rubi*) 2123
H12. Fairly frequent. eg. Rheindown Wood, Gorstan, Culbockie, Lochussie, Contin.

Small Wainscot (*Chortodes pygmina*) 2350
H15. Widespread in August and September. eg. Tain, Nigg, Benmore, Ardgay, Morrich More.

Small White Wave (*Asthena albulata*) 1875 NH45
H1. Rare with one record at Glen Orrin in June.

Smoky Wainscot (*Mythimna impura scotica*) 2198
H20. Common in this area. eg. Calrossie Woods, Fairy Glen, Drynie Park, Nigg.

Smoky Wave (*Scopula ternata*) 1694
H19. Common here. eg. Gleann Meinich, Carn Chuinneag, Meall Innis na Sine, River Orrin.

Snout (*Hypena proboscidalis*) 2477
H13. Frequent in June and July. eg. Little Scatwell, Rosemarkie, Rogie, Muir of Ord.

Speckled Yellow (*Pseudopanthera macularia*) 1909 NH35,45,54,55,56,67,76,86,87,98.
H10. Occasional in the day. eg. Achilty Oakwood, Meall an Tuirc, Port an Righ, Ardross.

Spectacle (*Abrostola tripartita*) 2450
H12. Fairly frequent. eg. by Milton, Jemimaville, Lochussie, Culbockie, Torroy, Rheindown Wood.

Spruce Carpet (*Thera britannica*) 1769 NH45,66
H2. Locally rare. Recorded at Loch Ussie and Wood of Brae in 2003.

Square-spot Rustic (*Xestia xanthographa*) 2134
H20+. Common across the Vice-county. eg. Strath Rusdale, Einig Wood, Findon, Lochussie.

Straw Dot (*Rivula sericealis*) 2474
H12. Fairly frequent. eg Loch Ussie, Redcastle, Loch Gowan, Garve.

Straw Underwing (*Thalpophila matura*) 2303 NH87
H1. Rare locally with only one record in July at Balintore.

Streak (*Chesias legatella*) 1864 NH36,45,55,65,76,77,78,87,88

H9. Occasional mainly in September and October. eg. Eathie, Kildary, Contin, Fearn, Culbockie.
Streamer (*Anticlea derivata*) 1747
H16. Quite common mainly in April and May,. eg. Muir of Ord, Rogie, Rosemakie, by Garve.
Striped Twin-spot Carpet (*Nebula salicata latenaria*) 1753 NH36,76,77
H3. Locally rare. by Garve, Calrossie Woods, Cromarty.
Suspected (*Parastichtis suspecta*) 2268 NH36,64,76,77
H4. Scarce with records from Garve, Kildary, Kilmuir, Craigton and Cromarty.
Swallow Prominent (*Pheosia tremula*) 2007 NH45,59,66,68,76,77
H6. More scarce than the Lesser Swallow Prominent. eg. Wood of Brae, Ardgay, Loch Ussie.
Sweet Gale Moth (*Acronicta euphorbiae myricae*) 2288 **Na** NH35,58,76,77
H4. Locally and nationally scarce. Loch Meig, Kildary, Garbhan Mor, Cromarty.
Sword-grass (*Xylena exsoleta*) 2242 **Nb** UKBAP NH55,65,77
H3. Rare locally. Culbockie, Drynie Park, Kildary.
Tawny Marbled Minor (*Oligia latruncula*) 2339
Pre-2000. Older Rothamsted records only.
Tawny Speckled Pug (*Eupithecia icterata*) 1838 NH45,65,77,87
H4. Appears to be scarce here. Belmaduthy, Fearn, Lochussie, Kildary.
Tawny-barred Angle (*Macaria liturata*) 1893
H16. Frequent here. eg. Dos Mhucarain, Loch Morie, Eathie, Strath Rannoch.
Treble-bar (*Aplocera plagiata plagiata*) 1867 NH26,35,36,45,55,65,66,76,77
H9. Occasional. eg. Scatwell, Grudie, Easter Kinbeachie, by Garve.
Triple-spotted Clay (*Xestia ditrapezium*) 2127 NH87
H1. Rare here with only one record from Balintore in 2009.
Triple-spotted Pug (*Eupithecia trisignaria*) 1826
Pre-2000 .An older Rothamsted trap record only.
True Lover's Knot (*Lycophotia porphyrea*) 2118
H20+. Very common (31 squares). eg. Ardgay, Loch Ussie, Culbockie, by Garve, Fearn.
Turnip Moth (*Agrotis segetum*) 2087 NC30, NH45,49,64,76,77
H6. Locally scarce. Loch Cathrine, Einig Wood, Craigton, Lochussie, by Tain, Cromarty.
Twin-spot Carpet (*Perizoma didymata*) 1809
H20+. Common often by day. eg. Ben Wyvis, Carn an Lochan, Meall an Fuarain, Coire Mor.
Twin-spotted Quaker (*Orthosia munda*) 2189 NH64,76
H2. Rare here. April records from Craigton and the Cromarty Rothamsted trap.
Uncertain (*Hoplodrina alsines*) 2381 NH65,66,76
H3. Locally rare. Easter Kinbeachie, Culbockie, Cromarty.
Vapourer (*Orgyia antiqua*) 2026 NH35,36,45,46,48,55,56,59,76,77
H10. Occasional, some records referring to the cocoon. eg. Scatwell, Monadh Mor, Loch na Croic.
Vestal (*Rhodometra sacraria*) 1716 NH76
H1. An immigrant, only known from the Cromarty Rothamsted trap.
V-moth (*Macaria wauaria*) 1897
Pre-2000. A 1979 Cromarty Rothamsted record only.
Water Carpet (*Lampropteryx suffumata*) 1750
H20+. Very common (28 squares) in April and May. eg. Glasfield, Fearn, by Garve, Northfield.
Welsh Wave (*Venusia cambrica*) 1873
H20+. Common in E. Ross. eg. Wood of Brae, Orrin, Fairy Glen, Garve, Einig Wood, Belmaduthy.
White Ermine (*Spilosoma lubricipeda*) 2060
H19. Common across the area. eg. Kildary, Rockfield, Gruinards, Knockfarrrel, Glasfield.
White-line Dart (*Euxoa tritici*) 2081 NH55,76,77,78,87,88,98
H7. Fairly scarce. Balloan, Seafield, Morrigh More, Hilton, Calrossie Woods, Balintore, Cromarty.
White-spotted Pug (*Eupithecia tripunctaria*) 1835
Pre-2000. Older Rothamsted records only.
Willow Beauty (*Peribatodes rhomboidaria*) 1937 NH36,67,76,77,87

H5. Scarce here. Cnoc Navie, Balintore, by Garve, Calrossie Woods, Cromarty.

Winter Moth (*Operophtera brumata*) 1799 NH36,45,55,65,67,69,76,77,87

H9. Occasional in November to February. eg Contin, Inchindown, Duncanston, Culbockie.

Wood Tiger (*Parasemia plantaginis*) 2056 NH39,65,66,75,76,77,87

H7. Fairly scarce by day. Pitmaduthy, Duag Bridge, Belmaduthy, Wood of Brae, Shandwick etc

Wormwood Pug (*Eupithecia absinthiata*) 1830 NH36,45,46,55,65,69,76,77

H8. See also Ling Pug above.

Yellow Horned (*Achyla flavicornis scotica*) 1659

H19. Common in March and April. eg. Scatwell, by Garve, Culbockie, Belmaduthy, Ardgay.

Yellow Shell (*Camptogramma bilineata*) 1742

H12. Fairly frequent here. eg. Hilton, Duag Bridge, Ardgay, Nigg, Hillockhead.

Yellow-barred Brindle (*Acasis viretata*) 1883 NC30,NH46,55,65,66,76,77

H7. Quite scarce in April to June. eg Einig Wood, Craigton, Kildary, Culbockie, Findon, Garve.

Yellow-line Quaker (*Agrochola macilenta*) 2264

H13. Frequent from September to November. eg. Glencalvie, Inchindown, Muir of Ord, Fearn.