

Lepidoptera

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A SURVEY OF THE LEPIDOPTERA OF CUSKINNY, GREAT ISLAND, CO CORK, 1993-MARCH 1994

Summary

Altogether 122 species of Lepidoptera were recorded from in or near Cuskinny during this survey. For completeness, 5 species, all of generalised distribution, which were recorded only at Lake Road, Cobh, are included. The most noteworthy species recorded is *Eupithecia phoeniciata* (Rambur, 1834) (the Cypress Pug); the only other Irish record being from Fountainstown, co Cork, Myers (1982). This is a species which has been spreading north across Britain as the result of the widespread planting of its foodplants, *Chamaecyparis* and *Cupressus macrocarpa*, which have become increasingly popular with gardeners.

Other species of note include *Nonagria typhae* (Bulrush Wainscot), a local species whose larva feeds in the stems of Bulrush, and *Protodeltote pygarga* (Marbled White-spot), whose larva is reported to feed on *Molinia caerulea* "and other grasses" (Emmet. 1991). Although this moth has been found commonly at the Rothamsted light trap at Fota Wildlife Park, it is rare outside its main centre of distribution in Kerry and parts of West Cork.

Species recorded, arranged by family are summarised in Table 1.

Family totals

TABLE 1 Total number of species recorded, arranged by family

Family	Number of species
Nepticulidae	1
Hepialidae	1
Gracillariidae	3
Yponomeutidae	1
Lyonetiidae	1
Coleophoridae	2
Elachistidae	3
Carcinidae	1
Chimabachidae	1
Blastobasidae	1
Gelechiidae	1
Zygaenidae	1
Tortricidae	18
Pyralidae	9
Drepanidae	1
Geometridae	33
Sphingidae	2
Notodontidae	1
Arctiidae	3
Noctuidae	38
Total	122

Nomenclature and systematic arrangement in the species list in Annex I follow Leraut (1997).

References

- Emmet, A. M. 1991. Life History and Habits of the British Lepidoptera, pp. 61-303 In: Emmet, A. M. & Heath, J. The moths and butterflies of Great Britain and Ireland 7(2) Lasiocampidae – Thyatiridae. Harley Books, Colchester.
- Leraut, P. J. A. 1997. Liste systématique et synonymique des Lépidoptères de France, Belgique et Corse (deuxième édition). Supplement à Alexanor, 45, rue Buffon, F-75005 Paris 5^e.
- Myers, A. A. 1982. First Irish record of *Eupithecia phoeniciata* (Rambur) (Lepidoptera: Geometridae). Entomologist's Gaz. 33:47.

Annex I. Species List - Lepidoptera

NEPTICULIDAE (1)

Stigmella hybnerella (Hübner, 1796). Larval mine on *Crataegus monogyna*, laneway, W815678, 20.vi.1993.

HEPIALIDAE (1)

Hepialis humuli (Linnaeus, 1758) [GHOST MOTH]. Female at m. v. trap, Cuskinny house by shore, W818673, 30.vi.1993.

GRACILLARIIDAE (3)

Caloptilia stigmatella (Fabricius, 1781). Larval leaf-cone on *Salix cinerea*, laneway, W815678, 20.vi.1993.

Phyllonorycter messaniella (Zeller, 1846). One, E. margin, W818675, 26.viii.1993.

Phyllonorycter nigrescentella (Logan, 1851). Larval mine on *Vicia sepium*, laneway, W815678, 20.vi.1993.

YPONOMEUTIDAE (1)

Argyresthia goedartella (Linnaeus, 1758). One at actinic trap, Cobh (Lake Rd), W782661, 27.viii.1993.

LYONETIIDAE (1)

Lyonetia clerkella (Linnaeus, 1758). One at m. v. trap, house by shore, W818673, 27.viii.1993.

COLEOPHORIDAE (2)

Coleophora spinella (Schrank, 1802). Larval case mine on *Crataegus monogyna*, laneway, W815678, 20.vi.1993.

Coleophora glaucicolella Wood, 1892. Male on seedhead of *Juncus effusus* (genitalia checked), by shore & lake, W818673, 29.vii.1993.

ELACHISTIDAE (3)

Elachista albifrontella (Hübner, [1817]). Male (genitalia checked), by shore & lake, W818673, 29.vii.1993.

Elachista argentella (Clerck, 1759). Two, near shore, W818673, 20.iv.1993; two at m. v. trap, Cuskinny house by shore, W818673, 30.vi.1993; one One, by shore & lake, W818673, 29.vii.1993.

Depressaria daucella (Denis & Schiffermüller, 1775). One taken at m. v. trap, house by shore, W818673, 27.viii.1993.

CARCINIDAE (1)

Carcina quercana (Fabricius, 1775). One, E. margin, W818675, 26.viii.1993.

CHIMABACHIDAE (1)

Diurnea fagella (Denis & Schiffermüller, 1775). Male, Cobh (Lake Rd), W782661, 15.iii.1994 (J. Wilson).

BLASTOBASIDAE (1)

Blastobasis lignea Walsingham, 1894. Four at m. v. trap, house by shore, W818673, 30.vii.1993; 23 at m. v. trap, NW end of Reserve, W812679, 27.viii.1993; eight at m. v. trap, house by shore, W818673, 27.viii.1993.

GELECHIIDAE (1)

Helcystogramma rufescens (Haworth, 1828). One at m. v. trap, house by shore, W818673, 30.vii.1993.

ZYGAENIDAE (1)

Zygaena filipendulae stephensi Dupont, 1900 [SIX-SPOT BURNET]. Six (2 mating pairs), by shore & lake, W818673, 29.vii.1993.

TORTRICIDAE (18)

Pandemis cerasana (Hübner, 1786). Four at m. v. trap, Cuskinny house by shore, W818673, 30.vi.1993.

Pandemis heparana (Denis & Schiffermüller, 1775). Two at m. v. trap, house by shore, W818673, 30.vii.1993.

Aphelia viburnana (Denis & Schiffermüller, 1775). Two at m. v. trap, Cuskinny house by shore, W818673, 30.vi.1993.

Aphelia paleana (Hübner, 1793). One, near shore, W818673, 20.iv.1993.

Clepsis spectrana (Treitschke, 1830). One at m. .v. trap, Cuskinny (NW), W812679, 20.vi.1993; one at m. v. trap, house by shore, W818673, 30.vii.1993.

Lozotaenia forsterana (Fabricius, 1781). One at m. v. trap, Cuskinny house by shore, W818673, 30.vi.1993.

Cnephasia asseclana (Denis & Schiffermüller, 1775). Male at m. v. trap (genitalia checked), house by shore, W818673, 30.vii.1993.

Agapeta hamana (Linnaeus, 1758). One at m. v. trap, house by shore, W818673, 30.vii.1993.

Agapeta zoegana (Linnaeus, 1767). One at m. v. trap, house by shore, W818673, 27.viii.1993.

Aethes cnicana (Westwood, 1854). One taken at m. .v. trap, Cuskinny (NW), W812679, 20.vi.1993.

Acleris laterana (Fabricius, 1794). Five at m. v. trap, house by shore, W818673, 27.viii.1993.

Acleris emargana (Fabricius, 1775). One, E. margin, W818675, 26.viii.1993.

Epinotia nisella (Clerck, 1759). Four at m. v. trap (one taken), house by shore, W818673, 27.viii.1993.

Rhopobota naevana (Hübner, 1817). One at m. v. trap, house by shore, W818673, 27.viii.1993.

Epiblema uddmanniana (Linnaeus, 1758). One at m. v. trap, house by shore, W818673, 30.vii.1993.

Eucosma cana (Haworth, 1811). One at m. .v. trap, Cuskinny (NW), W812679, 20.vi.1993; one, by shore & lake, W818673, 29.vii.1993; one at m. v. trap, house by shore, W818673, 30.vii.1993.

Bactra lancealana (Hübner, 1799). One, by shore & lake, W818673, 29.vii.1993; one at m. v. trap, house by shore, W818673, 27.viii.1993.

Argyroploce lacunana (Denis & Schiffermüller, 1775). One, near shore, W818673, 20.vi.1993; three at m. v. trap, Cuskinny house by shore, W818673, 30.vi.1993; one at m. v. trap, house by shore, W818673, 30.vii.1993; one at m. v. trap, house by shore, W818673, 27.viii.1993; one at m. v. trap, NW end of Reserve, W812679, 27.viii.1993.

PYRALIDAE (9)

Aphomia sociella (Linnaeus, 1758). One at m. v. trap, house by shore, W818673, 30.vii.1993.

Chrysoteuchia culmella (Linnaeus, 1758). One, near shore, W818673, 20.iv.1993; four at m. v. trap, Cuskinny house by shore, W818673, 30.vi.1993.

Agriphila tristella (Denis & Schiffermüller, 1775). One at m. v. trap, house by shore, W818673, 30.vii.1993; one at actinic trap, Cobh (Lake Rd), W782661, 27.viii.1993.

Agriphila geniculea (Haworth, 1811). One at actinic trap, Cobh (Lake Rd), W782661, 27.viii.1993.

Eudonia mercurella (Linnaeus, 1758). Two at m. v. trap, house by shore, W818673, 30.vii.1993; four at m. v. trap, house by shore, W818673, 27.viii.1993; one at m. v. trap, NW end of Reserve, W812679, 27.viii.1993.

Udea lutealis (Denis & Schiffermüller, 1775). One, by shore & lake, W818673, 29.vii.1993; one at m. v. trap, house by shore, W818673, 30.vii.1993; one, N. end of lake, W816675, 26.viii.1993; one at m. v. trap, NW end of Reserve, W812679, 27.viii.1993; one at m. v. trap, house by shore, W818673, 27.viii.1993.

Udea prunalis (Denis & Schiffermüller, 1775). One at m. v. trap, house by shore, W818673, 30.vii.1993.

Udea olivalis (Denis & Schiffermüller, 1775). One at m. v. trap, Cuskinny house by shore, W818673, 30.vi.1993.

Pleuroptya ruralis (Scopoli, 1763) [MOTHER-OF-PEARL]. One, N. end of lake, W816675, 26.viii.1993; 13 at m. v. trap, NW end of Reserve, W812679, 27.viii.1993; twelve at m. v. trap, house by shore, W818673, 27.viii.1993.

DREPANIDAE (1)

Habrosyne pyritoides (Hufnagel, 1766) [PEACH BLOSSOM]. Four at m. v. trap, Cuskinny house by shore, W818673, 30.vi.1993.

GEOMETRIDAE (33)

Pseudoterpna pruinata (Hufnagel, 1767) [GRASS EMERALD]. One at m. v. trap, NW end of Reserve, W812679, 27.viii.1993.

Idaea biselata (Hufnagel, 1767) [SMALL FAN-FOOTED WAVE]. Two at m. v. trap, house by shore, W818673, 30.vii.1993; one, E. margin, W818675, 26.viii.1993; two at m. v. trap, house by shore, W818673, 27.viii.1993.

Idaea dimidiata (Hufnagel, 1767) [SINGLE-DOTTED WAVE]. One, NW end of Reserve), W812679, 29.vi.1993; four at m. v. trap, house by shore, W818673, 30.vii.1993.

Idaea aversata (Linnaeus, 1758) [RIBAND WAVE]. One at m. v. trap, house by shore, W818673, 30.vii.1993.

Scotopteryx chenopodiata (Linnaeus, 1758) [SHADED BROAD-BAR]. One, by shore & lake, W818673, 29.vii.1993.

Xanthorhoe designata (Hufnagel 1767) [FLAME CARPET]. One at m. v. trap, NW end of Reserve, W812679, 27.viii.1993; three at m. v. trap, house by shore, W818673, 27.viii.1993.

Xanthorhoe ferrugata (Clerck, 1759) [Dark-barred Twin-spot Carpet]. One at m. v. trap, house by shore, W818673, 27.viii.1993.

Xanthorhoe montanata (Denis & Schiffermüller, 1775). [SILVER-GROUND CARPET]. One, laneway, W815678, 20.vi.1993.

Xanthorhoe fluctuata (Linnaeus, 1758) [GARDEN CARPET]. One at m. v. trap, house by shore, W818673, 27.viii.1993.

Epirrhoe alternata (Denis & Schiffermüller, 1775) [COMMON CARPET]. One at m. v. trap, Cuskinny house by shore, W818673, 30.vi.1993; three at m. v. trap, house by shore, W818673, 27.viii.1993; two at m. v. trap, house by shore, W818673, 30.vii.1993.

Eulithis pyraliata (Denis & Schiffermüller, 1775) [BARRED STRAW]. Two at m. v. trap, house by shore, W818673, 30.vii.1993.

Chloroclysta truncata (Hufnagel, 1767) [COMMON MARBLED CARPET]. Six at m. .v. trap, Cuskinny (NW), W812679, 20.vi.1993; one at m. v. trap, NW end of Reserve, W812679, 27.viii.1993; two at m. v. trap, house by shore, W818673, 27.viii.1993; one at actinic trap, Cobh (Lake Rd), W782661, 27.viii.1993.

Thera obeliscata (Hübner, 1787) [GREY PINE CARPET]. One at m. v. trap, house by shore, W818673, 27.viii.1993.

Colostygia pectinataria (Knoch, 1781) [GREEN CARPET]. Two at m. .v. trap, Cuskinny (NW), W812679, 20.vi.1993.

Hydriomena furcata (Thunberg, 1784) [JULY HIGHFLYER]. Two at m. v. trap, Cuskinny house by shore, W818673, 30.vi.1993.

Euphyia unangulata (Haworth, 1809) [SHARP-ANGLED CARPET]. Two at m. .v. trap, Cuskinny (NW), W812679, 20.vi.1993.

Eupithecia nanata (Hübner, [1813]) [NARROW-WINGED PUG]. One at taken at m. v. trap, house by shore, W818673, 27.viii.1993.

Eupithecia phoeniciata (Rambur, 1834) [CYPRESS PUG]. One taken at m. v. trap, house by shore, W818673, 27.viii.1993.

Gymnoscelis rufifasciata (Haworth, 1809) [DOUBLE-STRIPED PUG]. One at m. v. trap, house by shore, W818673, 27.viii.1993.

Abraxas grossulariata (Linnaeus, 1758) [THE MAGPIE]. Six at m. v. trap, house by shore, W818673, 30.vii.1993; one at m. v. trap, house by shore, W818673, 27.viii.1993.

Lomaspilis marginata (Linnaeus, 1758) [CLOUDED BORDER]. One, laneway, W815678, 20.vi.1993; one at m. v. trap, Cuskinny house by shore, W818673, 30.vi.1993; twelve at m. .v. trap, Cuskinny (NW), W812679, 20.vi.1993.

Opisthograptis luteolata [BRIMSTONE MOTH]. One at m. .v. trap, Cuskinny (NW), W812679, 20.vi.1993; one at m. v. trap, NW end of Reserve, W812679, 27.viii.1993; three at m. v. trap, house by shore, W818673, 27.viii.1993.

Epione repandaria (Hufnagel, 1767) [BORDERED BEAUTY]. One at m. v. trap, house by shore, W818673, 30.vii.1993.

Ennomos alniaria (Linnaeus, 1758) [CANARY-SHOULDERED THORN]. One at m. v. trap, house by shore, W818673, 27.viii.1993.

Selenia dentaria (Fabricius, 1775) [EARLY THORN]. One at m. v. trap, house by shore, W818673, 30.vii.1993.

Odontopera bidentata (Clerck, 1759) [SCALLOPED HAZEL]. One at m. .v. trap, Cuskinny (NW), W812679, 20.vi.1993.

Crocallis elinguaris (Linnaeus, 1758) [SCALLOPED OAK]. Three at m. v. trap, house by shore, W818673, 30.vii.1993.

Ourapteryx sambucaria (Linnaeus, 1758) [SWALLOW-TAILED MOTH]. One at m. v. trap, Cuskinny (NW), W812679, 30.vii.1993; one at m. v. trap, house by shore, W818673, 30.vii.1993; one at m. v. trap, house by shore, W818673, 30.vii.1993.

Biston betularia betularia (Linnaeus, 1758) [PEPPERED MOTH]. Two at m. .v. trap, Cuskinny (NW), W812679, 20.vi.1993.

Peribatodes rhomboidaria (Denis & Schiffermüller, 1775) [WILLOW BEAUTY]. One at m. v. trap, house by shore, W818673, 30.vii.1993.

Alcis repandata (Linnaeus, 1758) [MOTTLED BEAUTY]. One at m. .v. trap, Cuskinny (NW), W812679, 20.vi.1993.

Cabera exanthemata (Scopoli, 1763) [COMMON WAVE]. One, laneway, W815678, 20.vi.1993.

Hylaea fasciaria (Linnaeus, 1758) [BARRED RED]. One at m. v. trap, house by shore, W818673, 30.vii.1993.

SPHINGIDAE (2)

Laothoe populi (Linnaeus, 1758) [POPLAR HAWK-MOTH]. Four at m. .v. trap, Cuskinny (NW), W812679, 20.vi.1993; one at m. v. trap, Cuskinny house by shore, W818673, 30.vi.1993; two at m. v. trap, house by shore, W818673, 30.vii.1993.

Deilephila elpenor (Linnaeus, 1758) [ELEPHANT HAWK-MOTH]. One at m. .v. trap, Cuskinny (NW), W812679, 20.vi.1993; three at m. v. trap, Cuskinny house by shore, W818673, 30.vi.1993.

NOTODONTIDAE (1)

Notodonta ziczac (Linnaeus, 1758) [PEBBLE PROMINENT]. Two at m. v. trap, Cuskinny house by shore, W818673, 30.vi.1993.

ARCTIIDAE (3)

Arctia caja (Linnaeus, 1758) [GARDEN TIGER]. One at m. v. trap, house by shore, W818673, 30.vii.1993.

Spilosoma lubricipeda (Linnaeus, 1758) [WHITE ERMINE]. Seven at m. .v. trap, Cuskinny (NW), W812679, 20.vi.1993; three at m. v. trap, Cuskinny house by shore, W818673, 30.vi.1993.

Spilosoma luteum (Hufnagel, 1766) [BUFF ERMINE]. Five at m. .v. trap, Cuskinny (NW), W812679, 20.vi.1993; three at m. v. trap, Cuskinny house by shore, W818673, 30.vi.1993.

NOCTUIDAE (38)

Herminia grisealis (Denis & Schiffermüller, 1775) [SMALL FAN-FOOT]. One at m. v. trap, Cuskinny house by shore, W818673, 30.vi.1993.

Hypena proboscidalis (Linnaeus, 1758) [THE SNOUT]. Four at m. v. trap, Cuskinny house by shore, W818673, 30.vi.1993; one at m. v. trap, house by shore, W818673, 27.viii.1993; three at m. v. trap (one taken), NW end of Reserve, W812679, 27.viii.1993.

Protodeltote pygarga (Hufnagel, 1766) [MARBLED WHITE-SPOT]. One at m. v. trap, Cuskinny house by shore, W818673, 30.vi.1993.

Abrostola triplasia (Linnaeus, 1758) (trigemina Werneburg, 1864) [DARK SPECTACLE]. One at m. v. trap, Cuskinny (NW), W812679, 30.vii.1993; one at m. v. trap, house by shore, W818673, 30.vii.1993.

Abrostola tripartita (Hufnagel, 1766) (triplasia auct.) [THE SPECTACLE]. One at m. v. trap, Cuskinny house by shore, W818673, 30.vi.1993.

Diachrysis chrysitis [BURNISHED BRASS]. One at m. v. trap, house by shore, W818673, 30.vii.1993; one at m. v. trap, house by shore, W818673, 27.viii.1993; three at m. v. trap, Cuskinny house by shore, W818673, 30.vi.1993.

Triaena psi (Linnaeus, 1758) [GREY DAGGER]. Female taken (dissected) at m. v. trap, Cuskinny house by shore, W818673, 30.vi.1993.

Amphipyra tragopogonis (Clerck, 1759) [MOUSE MOTH]. One at actinic trap, Cobh (Lake Rd), W782661, 27.viii.1993.

Hoplodrina blanda (Denis & Schiffermüller, 1775) [THE RUSTIC]. One at m. v. trap, house by shore, W818673, 30.vii.1993.

Hoplodrina octogenaria (Goeze, 1781) [THE UNCERTAIN]. Two at m. v. trap, house by shore, W818673, 30.vii.1993.

Nonagria typhae (Thunberg, 1784) [BULRUSH WAINSCOT]. One at m. v. trap, NW end of Reserve, W812679, 27.viii.1993.

Celaena leucostigma (Hübner, [1808]) [THE CRESCENT]. One at m. v. trap, house by shore, W818673, 27.viii.1993.

Hydraecia micacea (Esper, 1789) [ROSY RUSTIC]. One at m. v. trap, NW end of Reserve, W812679, 27.viii.1993; two at m. v. trap, house by shore, W818673, 27.viii.1993; two at m. v. trap, house by shore, W818673, 27.viii.1993.

Luperina testacea (Denis & Schiffermüller, 1775) [FLOUNCED RUSTIC]. Four at m. v. trap, house by shore, W818673, 27.viii.1993.

Mesapamea secalis (Linnaeus, 1758) [COMMON RUSTIC]. Two at m. v. trap, house by shore, W818673, 27.viii.1993; three at m. v. trap (genitalia of two males checked), house by shore, W818673, 30.vii.1993.

Mesapamea didyma (Esper, 1788) [LESSER COMMON RUSTIC]. Female taken at m. v. trap (genitalia checked, 6 others seen), house by shore, W818673, 27.viii.1993.

Oligia fasciuncula (Haworth, 1809) [MIDDLE-BARRED MINOR]. One at m. v. trap, Cuskinny house by shore, W818673, 30.vi.1993.

Oligia latruncula (Denis & Schiffermüller, 1775) [TAWNY MARBLED MINOR]. Seven at m. v. trap (genitalia of one male checked), Cuskinny house by shore, W818673, 30.vi.1993.

Apamea crenata (Hufnagel, 1766) [CLOUDED-BORDERED BRINDLE]. Two at m. .v. trap, Cuskinny (NW), W812679, 20.vi.1993.

Apamea epomidion [CLOUDED BRINDLE]. One at m. v. trap, Cuskinny house by shore, W818673, 30.vi.1993.

Apamea lithoxylaea (Denis & Schiffermüller, 1775) [LIGHT ARCHES]. One at m. v. trap, Cuskinny house by shore, W818673, 30.vi.1993; one, NW end of Reserve, W812679, 29.vi.1993.

Apamea monoglypha (Denis & Schiffermüller, 1775) [DARK ARCHES]. One at m. v. trap, Cuskinny (NW), W812679, 30.vii.1993; two at m. v. trap, house by shore, W818673, 30.vii.1993.

Cosmia trapezina (Linnaeus, 1758) [THE DUN-BAR]. Two at m. v. trap, house by shore, W818673, 27.viii.1993; two at m. v. trap, house by shore, W818673, 30.vii.1993.

Leucania comma (Linnaeus, 1761) [SHOULDER-STRIPED WAINSCOT]. Two at m. v. trap, Cuskinny house by shore, W818673, 30.vi.1993.

Aletia pallens (Linnaeus, 1758) [COMMON WAINSCOT]. One at m. .v. trap, Cuskinny (NW), W812679, 20.vi.1993; two at m. v. trap, house by shore, W818673, 30.vii.1993.

Aletia impura (Hübner, [1808]) [SMOKY WAINSCOT]. One at m. v. trap, house by shore, W818673, 27.viii.1993; three at m. v. trap, house by shore, W818673, 30.vii.1993.

Lacanobia oleracea (Linnaeus, 1758) [BRIGHT-LINE BROWN-EYE]. Four at m. v. trap, Cuskinny house by shore, W818673, 30.vi.1993; two at m. v. trap, Cuskinny (NW), W812679, 20.vi.1993.

Lacanobia thalassina (Hufnagel, 1766) [PALE-SHOULDERED BROCADE]. One at m. .v. trap, Cuskinny (NW), W812679, 20.vi.1993.

Xestia xanthographa (Denis & Schiffermüller, 1775) [SQUARE-SPOT RUSTIC]. Six at m. v. trap, house by shore, W818673, 27.viii.1993; two at m. v. trap, NW end of Reserve, W812679, 27.viii.1993.

Xestia sexstrigata (Haworth, 1809) [SIX-STRIPED RUSTIC]. One at actinic trap, Cobh (Lake Rd), W782661, 27.viii.1993.

Xestia c-nigrum (Linnaeus, 1758) [SETACEOUS HEBREW CHARACTER]. One at m. v. trap, Cuskinny house by shore, W818673, 30.vi.1993; one at m. v. trap, NW end of Reserve, W812679, 27.viii.1993; two at m. v. trap, house by shore, W818673, 27.viii.1993.

Diarsia rubi (Vieweg, 1790) [SMALL SQUARE-SPOT]. 26 at m. v. trap, house by shore, W818673, 27.viii.1993; eight at m. v. trap, NW end of Reserve, W812679, 27.viii.1993; two at m. .v. trap, Cuskinny (NW), W812679, 20.vi.1993.

Noctua janthe (Borkhausen, 1792) (*janthina* sensu auct.) [LESSER BROAD-BORDERED YELLOW UNDERWING]. 17 at m. v. trap, NW end of Reserve, W812679, 27.viii.1993; 32 at m. v. trap, house by shore, W818673, 27.viii.1993.

Noctua comes Hübner, [1813] [LESSER YELLOW UNDERWING]. One at m. v. trap, NW end of Reserve, W812679, 27.viii.1993; two at m. v. trap, house by shore, W818673, 27.viii.1993.

Noctua pronuba (Linnaeus, 1758) [LARGE YELLOW UNDERWING]. 21 at m. v. trap, house by shore, W818673, 27.viii.1993; four at m. v. trap, Cuskinny house by shore, W818673, 30.vi.1993; four at m. v. trap, house by shore, W818673, 30.vii.1993; four at m. v. trap, NW end of Reserve, W812679, 27.viii.1993; two at m. .v. trap, Cuskinny (NW), W812679, 20.vi.1993.

Ochropleura plecta (Linnaeus, 1761) [FLAME SHOULDER]. One at m. v. trap, Cuskinny house by shore, W818673, 30.vi.1993; one at m. v. trap, NW end of Reserve, W812679, 27.viii.1993.

Axylia putris (Linnaeus, 1761) [THE FLAME]. Three at m. v. trap, house by shore, W818673, 30.vi.1993.

Agrotis exclamatoris (Linnaeus, 1758) [HEART & DART]. 15 at m. v. trap, Cuskinny house by shore, W818673, 30.vi.1993; one at m. v. trap, Cuskinny (NW), W812679, 20.vi.1993; one at m. v. trap, house by shore, W818673, 30.vii.1993.

Annex II. Species list - Odonata

Enallagma cyathigerum (Charpentier, 1825) [COMMON BLUE DAMSELFLY]. One, N. end of lake, W816675, 26.viii.1993.

Annex III. Survey dates

20 June 1993 (mv)
30 June 1993 (mv)
29 July 1993
30 July 1993 (mv)
26 August 1993
27 August 1993 (mv)