

**A Catalogue for the FBA Collection of Freshwater
Macroinvertebrates**

By Clare I. McCloskey & J. Malcolm Elliott

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1. INTRODUCTION

The Freshwater Biological Association has an extensive collection of freshwater macroinvertebrates. A major part of the material was collected by Dr T.T. Macan but several other workers have contributed specimens. Many of the specimens were used in the development of keys that appeared in the F.B.A. series of Scientific Publications. The collection therefore forms an invaluable reference to accompany some of the Scientific Publications.

The specimens are preserved either in fluid, chiefly 70% alcohol, or in a dry state, the latter being individual molluscs or pinned specimens of adult aquatic insects.

Most of the information provided with the specimens is recorded in the catalogue and this often includes the date and place of capture. The names of species, and especially genera, have often changed since the specimens were collected. Each specimen is therefore recorded under its present name, but the original name, when different, is also included.

2. MATERIAL PRESERVED IN FLUID

2.1. HIRUDINEA/ LEECHES

Nomenclature follows that given in: Elliott, J.M. & Mann, K.H. (1979) *A Key to British Freshwater Leeches with Notes on their Life Cycles and Ecology*. Scient. Publs. Freshwat.biol. Ass. No.40. F.B.A., Ambleside.

RHYNCHOBDELLAE

FAMILY: PISCICOLIDAE

Piscicola geometra (Linnaeus)

6 tubes (containing 21)

FAMILY: GLOSSIPHONIIDAE (3 jars)

Haementeria (= *Placobdella*) *costa* (Fr. Müller)

(jar 1)

1 tube (containing 1 adult + offspring)

-Pevensey Haven, Sussex, 1976

Theromyzon tessulatum (= *Protoclepsis tessellata*) (O.F. Müller)

6 tubes

Hemiclepis marginata (O.F. Müller)

4 tubes (containing 4)

-Rye harbour, 1983

-Knipe Tarn, Cumbria, 1981

-River Kelvin, by Glasgow, 1976

-pond at Wigton, 1988

Glossiphonia heteroclita (Linnaeus)

3 tubes (containing 6)

Glossiphonia complanata (Linnaeus)

(jar 2)

6 tubes (containing 20)

Batracobdella paludosa (Carena)

6 tubes (containing 7)

-Hartburn Lake, Northumberland, 1962

-Westhay Moor, Somerset, 1983

-Windermere or Esthwaite, 1980

-Windermere, 1982

-River Severn, Stourport, 1984

-River Forth, Gargunock Bridge, 1981

Boreobdella verrucata (Fr. Müller)

(jar 3) (+ 2x unidentified species)

6 tubes (containing 6)

-River Soar, Birstall, 1958

- Swithland Resr., 1986
- Gravel Pits, Grendon, Northants, 1985
- River Soar, Birstall, 1986
- River Soar, Birstall, 1985
- River Thames, Surrey, ---

Helobdella stagnalis (Linnaeus)
3 tubes (containing 7)

GNATHOBDELLAE

FAMILY: HIRUDINIDAE (2 jars)

Haemopsis sanguisuga (Linnaeus) (jar 1)
4 tubes

Hirudo medicinalis Linnaeus
3 tubes (including a cocoon)

Hirudo medicinalis Linnaeus (jar 2)
2 mounted, 4 loose

PHARYNGOBDELLAE

FAMILY: ERPOBDELLIDAE (2 jars)

Erpobdella testacea (Savigny) (jar 1)
4 tubes

Erpobdella octoculata (Linnaeus)
4 tubes

Dina lineata (O.F. Müller)
3 tubes

Trocheta subviridis Dutrochet (jar 2)
1 tube
-Poole, E. Dorset, 1964

Trocheta bykowskii Gedroy_
4 tubes
-Ferry House, Back Bay, Windermere, 1985
-Gowerton, South Wales, ---
- no details
- no details

Trocheta spp.
2 tubes
- Guernsey, 1982
- Rothes Burn (below Broad Burn), 1983

2.2. PLECOPTERA/ STONEFLIES

Nomenclature follows that given in: Hynes, H.B.N. (1977) *A Key to the Adults and Nymphs of the British Stoneflies (Plecoptera) with Notes on their Ecology and Distribution*. Scient. Publ. Freshwat.biol. Ass. No.17. F.B.A., Ambleside.

FAMILY: TAENIOPTERYGIDAE

Taeniopteryx (= *Nephelopteryx*) *nebulosa* (Linnaeus) (jar A)

1 tube larvae

-River Eden, 1978

1 tube adults

-River Winster, near Helton Tarn, WL, 1939

Rhabdiopteryx acuminata Klapálek (= *anglica*) (= *neglecta*)

no specimens

Brachyptera (= *Taeniopteryx*) *putata* (Newman)

no specimens

Brachyptera (= *Taeniopteryx*) *risi* (Morton) (jarA)

2 tubes larvae

-Boathouse 2, Beck Wray, WL, 1940

-Boathouse 2, Beck Wray, WL, 1939

1 tube adult

-Boathouse 2, Beck Wray, WL, 1940

FAMILY: NEMOURIDAE

Protonemura meyeri (Pictet) (jar C)

3 tubes larvae

2 tubes adults

Protonemura montana Kimmins

no specimens

Protonemura praecox (Morton) (jar B)

4 tubes larvae

4 tubes adults

Amphinemura standfussi Ris (jar C)

2 tubes larvae

2 tubes adults

Amphinemura sulcicollis (Stephens) (=cinerea) (jar B)

3 tubes larvae

1 tube adults

Nemurella pictetii (Klapálek) (=inconspicua) (jar B)

1 tube eggs & larvae

-Ashdown Forest, 1984

3 tubes larvae

3 tubes adults

Nemoura avicularis Morton (jar C)

4 tubes larvae

3 tubes adults

Nemoura cambrica Stephans (jar C)

4 tubes larvae

2 tubes adults

Nemoura cinerea (Retzius) (=variegata) (jar C)

5 tubes larvae

5 tubes adults

Nemoura dubitans Morton (jar B)

1 tube larvae

-Denmark, 1963

1 tube adults

-Denmark, 1963

Nemoura erratica Claassen (=marginata) (=risi) (jar C)

4 tubes larvae

2 tubes adults

FAMILY: LEUCTRIDAE (all in jar D)

Leuctra fusca (Linnaeus) (=fusciventris)

4 tubes larvae

3 tubes adults

Leuctra geniculata (Stephens)

3 tubes larvae

2 tubes adults

Leuctra hippopus (Kempny)

3 tubes larvae

6 tubes adults

Leuctra inermis Kempny (=handlirschi)

3 tubes larvae

3 tubes adults

Leuctra moselyi Morton (=albida)

2 tubes larvae

2 tubes adults

Leuctra nigra (Olivier)

4 tubes larvae

3 tubes adults

FAMILY: CAPNIIDAE (all in jar A)

Capnia atra Morton

no specimens

Capnia bifrons (Newman) (=nigra)

3 tubes larvae

-Lake Windermere, 1946

-Lake Windermere, 1940

-Lake Windermere, 1940

1 tube adults

-Lake Windermere, 1940

Capnia vidua (Klapálek)

no specimens

FAMILY: PERLODIDAE (all in jar E)

Isogenus nubecula Newman

no specimens

Perlodes microcephala (Pictet) (=mortoni)

5 tubes larvae

3 tubes adults (2 females/ 1 male)

-on loan to Gille Vincon, Grenoble, France, (3/2/99)

Diura (=Dictyopterygella) *bicaudata* (Linnaeus) (=recta)

5 tubes larvae

1 tube adults

Isoperla (=Chloroperla) *grammatica* (Poda)

2 tubes larvae

2 tubes adults

Isoperla (=Chloroperla) *obscura* (Zetterstedt) (=griseipennis)

no specimens

FAMILY: PERLIDAE (all in jar F)

Dinocras cephalotes (Curtis)

3 tubes larvae

2 tubes adults

Perla bipunctata Pictet (=maxima) (marginata) (=calukiana)

3 tubes larvae

2 tubes adults

FAMILY: CHLOROPERLIDAE (all in jar E)

Chloroperla (=Isopteryx) *apicalis* Newman

no specimens

Chloroperla (=Isopteryx) *torrentium* (Pictet)

4 tubes larvae

1 tube adults

Chloroperla (=Isopteryx) *tripunctata* (Scopoli)

3 tubes larvae

1 tube adults

2.3. EPHEMEROPTERA/ MAYFLIES

Nomenclature follows that given in: Elliott, J.M. & Humpesch, U.H. (1983) *A Key to the Adults of the British Ephemeroptera with Notes on their Ecology*. Scient. Publs. Freshwat.biol. Ass. No.47. F.B.A., Ambleside; and Elliott, J.M., Humpesch, U.H. & Macan, T.T. (1988) *Larvae of the British Ephemeroptera: a Key with Ecological Notes*. Scient. Publs. Freshwat.biol. Ass. No.47. F.B.A., Ambleside.

FAMILY: SIPHLONURIDAE

Siphonurus armatus Eaton

3 tubes larvae

3 tubes adults + cast skins

Siphonurus lacustis Eaton

1 tube larvae (containing 1)

3 tubes adults + cast skins

Siphonurus alternatus (Say) (=linnaeanus)

2 tubes larvae

3 tubes adults + cast skins

Ameletus inopinatus Eaton

1 tube larvae (containing 1)

3 tubes adults + cast skins

FAMILY: BAETIDAE

Baetis fuscatus (Linnaeus)/ *B. scambus* Eaton

11 tubes larvae

14 tubes adults + cast skins

Baetis vernus Curtis (=tenax)

13 tubes larvae

14 tubes adults + cast skins

Baetis buceratus Eaton

5 tubes larvae

4 tubes adults + cast skins

Baetis rhodani (Pictet) (2 jars)

23 tubes larvae

19 tubes adults + cast skins

Baetis atrebatinus Eaton

5 tubes larvae

1 tube adults + cast skins

Baetis muticus (Linnaeus) (= *pumilus*)

12 tubes larvae

31 tubes adults + cast skins

Baetis niger (Linnaeus)

1 tube larvae (containing 3-4)

8 tubes adults + cast skins

Baetis digitatus Bengtsson

2 tubes larvae

0 tubes adults

Centroptilum luteolum (Müller) (2 jars)

14 tubes larvae

17 tubes adults + cast skins

Centroptilum pennulatum Eaton

3 tubes larvae

5 tubes adults + cast skins

Cloeon dipterum (Linnaeus)

1 tube larvae (containing 1)

14 tubes adults + cast skins

Cloeon simile Eaton

7 tubes larvae

11 tubes adults + cast skins

Cloeon spp./Procloeon spp. (1 jar)

9 tubes larvae

6 tubes adults + cast skins

Procloeon bifidum (Bengtsson)

6 tubes larvae

3 tubes adults + cast skins

FAMILY: HEPTAGENIIDAE

Rhithrogena semicolorata (Curtis)

1 tube larvae (containing 1)

3 tubes adults + cast skins

Rhithrogena germanica Eaton (= *haarupi*)

4 tubes larvae

4 tubes adults + cast skins

Heptagenia sulphurea (Müller)

12 tubes larvae

8 tubes adults + cast skins

Heptagenia longicauda (Stephens)

no specimens

Heptagenia fuscogrisea (Retzius)

2 tubes larvae (containing 7)

13 tubes adults + cast skins

Heptagenia lateralis (Curtis) (3 jars)

1 tube larvae (containing 3)

32 tubes adults + cast skins

Arthroplea congener Bengtsson

2 tubes larvae (containing 4)

1 tube adults (containing 2)

Ecdyonurus venosus (Fabricius)

3 tubes larvae

10 tubes adults + cast skins

Ecdyonurus torrentis Kimmins

2 tubes larvae (containing 10)

10 tubes adults + cast skins

Ecdyonurus dispar (Curtis) (5 jars)

9 tubes larvae

95 tubes adults + cast skins

Ecdyonurus insignis (Eaton)

3 tubes larvae (containing 10)

10 tubes adults + cast skins

FAMILY: LEPTOPHLEBIIDAE

Leptophlebia marginata (Linnaeus)

1 tube larvae (containing 1)

6 tubes adults + cast skins

Leptophlebia vespertina (Linnaeus)

7 tubes larvae

3 tubes adults + cast skins (containing 3)

Paraleptophlebia submarginata (Stephens)

4 tubes larvae (containing 4)

5 tubes adults + cast skins

Paraleptophlebia cincta (Retzius)

2 tubes larvae (containing 3)

4 tubes adults + cast skins

Paraleptophlebia weneri Ulmer

8 tubes larvae

7 tubes adults + cast skins

Habrophlebia fusca (Curtis)

0 tubes larvae

7 tubes adults + cast skins

FAMILY: POTAMANTHIDAE

Potamanthus luteus (Linnaeus)

3 tubes larvae

2 tubes adults (containing 3)

FAMILY: EPHEMERIDAE

Ephemera vulgata Linnaeus

1 tube larvae (containing 1)

5 tubes adults + cast skins

Ephemera danica Müller

3 tubes larvae

5 tubes adults + cast skins

Ephemera lineata Eaton

2 tubes larvae (containing 4)

2 tubes adults (containing 2)

FAMILY: EPHEMERELLIDAE

Ephemerella ignita (Poda) (2 jars)

8 tubes larvae

16 tubes adults + cast skins

Ephemerella notata Eaton

no specimens

FAMILY: CAENIDAE

Brachycercus harrisella Curtis

3 tubes larvae (containing 4)

2 tubes adults + cast skins (containing 6-8)

Caenis macrura Stephens

1 tubes larvae (containing 12)

8 tubes adults + cast skins

Caenis luctuosa (Burmeister)

4 tubes larvae

9 tubes adults + cast skins

Caenis robusta Eaton

7 tubes larvae

3 tubes adults + cast skins (containing 2)

Caenis horaria (Linnaeus)

5 tubes larvae

7 tubes adults + cast skins

Caenis rivulorum Eaton

4 tubes larvae (containing 6)

7 tubes adults + cast skins

Caenis pusilla Navas

4 tubes larvae

0 tubes adults

2.4. MEGALOPTERA/ ALDERFLIES

Nomenclature follows that given in: Elliott, J.M. (1996) *British Freshwater Megaloptera and Neuroptera: a Key with Ecological Notes*. Scient. Publs. Freshwat.biol. Ass. No.54. F.B.A., Ambleside.

FAMILY: SIALIDAE

Sialis lutaria (Linnaeus) (=flavilatera)

46 tubes larvae

3 tubes adults

Sialis fuliginosa Pictet (2 jars)

34 tubes larvae

4 tubes adults

Sialis nigripes Pictet

1 tube eggs

20 tubes larvae

-River Forth, Kippen Bridge, 1979

-Corry Brook, Devon, 1980

-Denmark, 1950

-River Forth, Kippen Bridge, 1979

-River Axe, Broom, Devon, 1978

-Denmark, 1955

-River Forth, Parks of Garden, 1978

-Boldre Bridge, SWA Hampton, 1982

-River Axe, Oathill, Devon, 1978

-River Axe, Whitford Bridge, Devon, 1978

-River Axe, Broom, Devon, 1978

-River Forth, Gargunnock Bridge, 1978

-River Eden, Cumbria, 1984

-River Axe, Broom, Devon, 1978

-River Axe, Broom, Devon, 1978

-River Eden, Cumbria, 1984

-River Forth, Kippen Bridge, 1978

-River Axe, Broom, Devon, 1978

-River Axe, Broom, Devon, 1978

-River Axe, Oathill, Devon, 1978

3 tubes adults

-Corry Brook, Devon, 1979

-Eire, 1977

-River Forth, Gargunnock Bridge, 1980

2.5. NEUROPTERA/ LACEWINGS

Nomenclature follows that given in: Elliott, J.M. (1996) *British Freshwater Megaloptera and Neuroptera: a Key with Ecological Notes*. Scient. Publs. Freshwat.biol. Ass. No.54. F.B.A., Ambleside.

FAMILY: OSMYLIDAE

Osmylus fulvicephalus (Scopoli) (=chrysops) (=maculatus) (=laurifoliaeformis)

2 tubes adults (containing 2)

-Cunsey Beck, Lake District, 1976

-River Eden, Cumbria, 1978

1 tube larvae (containing 3)

-Austria, 1978

FAMILY: SISYRIDAE

Sisyra fuscata (Fabricius) (=confinis) (=morio) (=nigripennis) (=spongillae) (=fumatus)

1 tube adult (containing 2)

-Taliatis Lake, near Llandelio, Catms, 1976

3 tubes larvae (containing 12)

-Eel House Bridge, Cunsey, 1983

-Chesterfield canal, 1988

-River Went, Yorkshire, 1991

Sisyra dali McLachlan

no specimens

Sisyra terminalis Curtis

1 tube adults (containing 3)

-River Severn, Iron Bridge Power Station, 1973

Sisyra spp.

1 jar larvae

-Carnforth Canal, North Lancashire, 1953

3 tubes larvae

-(inside sponge) Fountain Abbey IRS, "The Canal", 1984

-River Llugway, Wales, 1984

2.6. TRICHOPTERA / CADDIS

Nomenclature follows that given in: Edington , J.M. & Hildrew, A.G. (1995) *A Revised Key to the Caseless Caddis Larvae of the British Isles with Notes on their Ecology*. Scient. Publs. Freshwat.biol. Ass. No.53. F.B.A., Ambleside.

FREE- LIVING CADDIS

FAMILY: RHYACOPHILIDAE

Rhyacophila dorsalis (Curtis) (4 jars)

30 tubes larvae

80 tubes adults

Rhyacophila munda McLachlan

4 tubes larvae

-Plantation Bridge, Greenod

-no details

-Porth Clais, 1953

-Porth Clais, 1953

1 tube adults (containing 1)

-Cowside Beck, near Malham Tarn, 1948

Rhyacophila obliterata McLachlan

8 tubes larvae

7 tubes adults

Rhyacophila septentrionis McLachlan

8 tubes larvae

1 tube adults (containing 1)

-north inflow to Malham Tarn, 1951

Rhyacophila spp. (2 jars)

52 tubes larvae

0 tubes adults

CASELESS CADDIS

FAMILY: PHILOPOTAMIDAE

Philopotamus montanus (Donovan) (2 jars)

20 tubes larvae

50 tubes adults

Wormaldia mediana McLachlan

0 tubes larvae

3 tubes adults

-Ford Wood Beck, 1961

-Ford Wood Beck, 1958

-Ford Wood Beck, 1959

Wormaldia occipitalis (Pictet) (2 jars)

1 tube larvae

-Beckside, near Windermere, 1967

62 tubes adults

Wormaldia subnigra McLachlan

0 tubes larvae

7 tubes adults

Wormaldia spp. (4 jars)

100 tubes larvae

28 tubes adults

Chimarra marginata (Linnaeus)

1 tube larvae (containing 1)

-outflow to L. Cargh, 1969

2 tubes adults (containing 3)

-Britain

-Capel Curig, North Wales, 1965

FAMILY: PSYCHOMYIIDAE

Lype phaeopa (Stephens)

0 tubes larvae

19 tubes adults

Lype reducta (Hagen)

0 tubes larvae

2 tubes adults (containing 3)

-River Wye, Bakewell, 1967

-Michaelstone, near Newport, Monmouthshire, 1966

Metalype fragilis (Pictet)

0 tubes larvae

4 tubes adults (containing 6)

-River Usk Chair, 1963

-Blelham rocky shore, 1968-9

-Ash Landing, Windermere, 1963

Psychomyia pusilla (Fabricius)

0 tubes larvae

30 tubes adults

Tinodes assimilis McLachlan

no specimens

Tinodes dives (Pictet)

0 tubes larvae

6 tubes adults

Tinodes maclachani (Kimmins) (=aureolus)

0 tubes larvae

2 tubes (containing 6)

-Vizzavona, Corsica, 1931

-Tonguynlais, Glamorgan, 1966

Tinodes maculicornis (Pictet)

no specimens

Tinodes pallidulus McLachlan

no specimens

Tinodes rostocki McLachlan

0 tubes larvae

2 tubes adults (containing 5)

-Upper Gordon Bank, 1951

-Monmouthshire, 1966

Tinodes unicolor (Pictet)

0 tubes larvae

1 tube adults (containing 4)

-Glamorgan, 1966

Tinodes waeneri (Linnaeus) (4 jars)

4 tubes larvae

-Blelham Tarn, 1951

-Epley Port shore, 1963

-Scout Camp shore, 1963

-Moss Eccles Tarn, 1962

120 tubes adults

Psychomyid spp.

1 tube larvae

-Windermere, 1953

0 tubes adults

FAMILY: ECNOMIDAE

Ecnomus tenellus (Rambur)

0 tubes larvae

11 tubes adults

FAMILY: POLYCENTROPODIDAE

Cyrnus flavidus McLachlan

0 tubes larvae

16 tubes adults + case

Cyrnus insolutus McLachlan

no specimens

Cyrnus trimaculatus (Curtis)

1 tube larvae + case (containing 2)

-Epley Point shore, 1963

50 tubes adults

Holocentropus dubius (Rambur)

0 tubes larvae

16 tubes adults

Holocentropus picicornis (Stephens)

0 tubes larvae

8 tubes adults

Holocentropus stagnalis (Albarda) (in jar with *H. dubius*)

0 tubes larvae

1 tube adults (containing 2)

-Fisherlane End Ponds, 1961

Neureclipsis bimaculata (Linnaeus)

0 tubes larvae

4 tubes adults

-River Shannon, Lough Key + Athlone, 1972

-Capel Curig, North Wales, 1963

-Blelham outflow, 1969

-Mitchell Wyke, Windermere, 1965

Plectrocnemia brevis McLachlan

no specimens

Plectrocnemia conspersa (Curtis) (5 jars)

72 tubes larvae

67 tubes adults

Plectrocnemia geniculata McLachlan

0 tubes larvae

2 tubes adults (containing 2)

- Seaton, Devon, 1961

-Mitchell Wyke, WL, 1969

Polycentropus flavomaculatus (Pictet)(4 jars)

5 tubes larvae

90 tubes adults

Polycentropus irroratus (Curtis)(=*multiguttatus*)

0 tubes larvae

21 tubes adults

Polycentropus kingi McLachlan (in jar with *P. flavomaculatus*)

0 tubes larvae

10 tubes adults

FAMILY: HYDROPSYCHIDAE

Cheumatopsyche lepida (Pictet)

3 tubes larvae

-River Crake, 1970

-River Leven, 1970

-River Leven, 1970

12 tubes adults

Diplectrona felix McLachlan

4 tubes larvae (containing 3)

-Dale Park Beck, 1970

-Post Knott Beck, 1971

-Ford Wood Beck, 1973

-Ford Wood Beck, 1973

3 tubes adults (containing 3)

-Belle Grange Beck, 1965

-Belle Grange Beck, 1968

- ---, 1962

Hydropsyche angustipennis (Curtis)

2 tubes larvae

-Wier at 1st lock gate, Kendal Canal, 1969

-Stream from Ingleton Caves, Clapham, 1970

3 tubes adults (containing 9)

-River Colne, Rickmans North Middlesex, 1915

-Millbarn Pond, Wakefield, 1955

-Fensham, little pond outflow, 1965

Hydropsyche bulgaromanorum Malicky (= *guttata*)

no specimens

Hydropsyche contubernalis McLachlan (=ornatula)

1 tube larvae (containing 1)

-River Kennet, 1971

14 tubes adults

Hydropsyche exocellata Dufour

no specimens

Hydropsyche instabilis (Curtis) (=fulvipes)

(NB: labelled as *fulvipes*)

22 tubes larvae

12 tubes adults

Hydropsyche pellucidula (Curtis)

14 tubes larvae

62 tubes adults

Hydropsyche saxonica McLachlan

1 tube larvae (containing 3)

-Lusora Brook, Beckundy Mountains, Czechoslovakia

0 tubes adults

Hydropsyche siltalai Döhler (=instabilis)

(NB:labelled as *instabilis*)

21 tubes larvae

46 tubes adults

Hydropsyche spp.

18 tubes larvae

0 tubes adults

2.7. TRICHOPTERA /CASE- BEARING CADDIS (following shelf order)

Nomenclature follows that given in: Wallace, I.B., Wallace, B. & Philipson, G.N. (1990) *A Key to the Case-bearing Caddis Larvae of Britain and Ireland*. Scient. Publs. Freshwat.biol. Ass. No.51. F.B.A., Ambleside.

FAMILY: GLOSSOSOMATIDAE

Glossosoma boltoni (=vernale) Curtis

0 tubes larvae

27 tubes adults

Glossosoma conformis Neboiss

0 tubes larvae

2 tubes adults (containing 3)

-Belle Grange Beck, WL, 1968

-Pull Beck, WL, 1968

Glossosoma intermedium (Klapálek)

0 tubes larvae

2 tubes adults (containing 3)

-Hayes Water Beck, above reservoir, 1968

-Hayes Water inflow, 1953

Glossosomatidae spp.

21 tubes larvae

3 tubes adults

Agapetus delicatulus McLachlan

3 tubes larvae

-Hayes Water inflow, 1955

- River Aire, 1955

-River Lune, WL, 1955

25 tubes adults

Agapetus fuscipes Curtis (5 jars)

41 tubes larvae

83 tubes adults

Agapetus ochripes (=comatus) Curtis

1 tube larvae

-River Wey, SR, 1955

36 tubes adults

Agapetus spp. (NB:stored with *A. fuscipes*)

0 tubes larvae

2 tubes adults

FAMILY: HYDROPTILIDAE

NB: We have very few specimens preserved in fluid for this family.

Oxyethira flavicornis (Pictet) (=costalis)

0 tubes larvae

6 tubes adults

Hydroptila spp.

0 tubes larvae

15 tubes adults

FAMILY: PHRYGANEIDA

Agrypnia (=Agrypnetes) *crassicornis* (McLachlan)

0 tubes larvae

1 tube adults (containing 4)

-Malham Tarn, 1953

Agrypnia (=Phryganea) *obsoleta* (Hagen)

0 tubes larvae

9 tubes adults

Agrypnia pagetana Curtis

13 tubes larvae

5 tubes adults

Agrypnia picta Kolenati

no specimens

Agrypnia (=Phryganea) *varia* (Fabricius)

0 tubes larvae

46 tubes adults

Hagenella (=Oligotricha) *clathrata* (Kolenati)

no specimens

Oligotricha (=Neuronia) *striata* (Linnaeus) (= *ruficrus*)

1-2 tubes larvae (NB: unlabelled, in a mixed jar with *A. pagetana*)

5 tubes larvae

0 tubes adults

Phryganea bipunctata Retzius (=striata)

0 tubes larvae

9 tubes adults

Phryganea grandis Linnaeus

0 tubes larvae

13 tubes adults

Trichostegia minor (Curtis)

0 tubes larvae

5 tubes adults

Phryganea spp.

3 tubes larvae

0 tubes adults

FAMILY: LIMNEPHILIDAE

N.B. An asterix (*) indicates one tube containing a larva of that species is present in the jar containing the P.D. Hiley Collection .

Ironoquia dubia (Stephens)

no specimens

Apatania auricula (Forsslund)

0 tubes larvae

0 tubes adults

(+ one tube of larvae, which could be *A. auricula*, is labelled *Apatidae fimbriata* -France, 1925)

Apatania muliebris McLachlan (=nielseni)

0 tubes larvae

20 tubes adults

Apatania wallengreni McLachlan

0 tubes larvae

10 tubes adults

**Drusus annulatus* (Stephens) (3 jars)

26 tubes larvae

44 tubes adults

**Ecclisopteryx guttulata* (Pictet)

1 tube larvae (containing 2)

-Pyrenees, 1969

2 tubes adults (containing 2)

-Black Beck, Hawkshead, 1941

-Black Beck, Hawkshead, 1941

**Allogamus auricollis* (Pictet)

1 tube larvae (containing 2)

-Pyrenees, 1969

2 tubes adults (containing 4)

Enoicyla pusilla (Burmeister)

no specimens

Halesus digitatus (Schrank)

0 tubes larvae
10 tubes adults

**Halesus radiatus* (Curtis) (2 jars)

5 tubes larvae + cases
46 tubes adults
6 tubes adults +cases

Hydatophylax infumatus (McLachlan)

0 tubes larvae
2 tubes adults (containing 3)
-Blelham Beck fishpond, 1966
-Blelham Bog, 1967

**Melampophylax mucoreus* (Hagen)

1 tube larvae
-Pyrenees, 1969
1 tube adults

Mesophylax aspersus (Rambur)

no specimens

Mesophylax impunctatus McLachlan

0 tubes larvae
30 tubes adults

**Micropterna* (= *Stenophylax*) *lateralis* (Stephens)

0 tubes larvae
5 tubes adults

**Micropterna* (= *Stenophylax*) *sequax* McLachlan

1 tube larvae + case (containing 1)
-Black Brows waterfall, 1967
4 tubes adults

**Potamophylax cingulatus* (Stephens) (3 jars)

8 tubes larvae
46 tubes adults

**Potamophylax latipennis* (Curtis) (2 jars)

0 tubes larvae
40 tubes adults
15 tubes adults + cases

Potamophylax rotundipennis (Brauer)

0 tubes larvae

2 tubes adults

-Russland Moss, WL, 1968

-Russland Moss, WL, 1968

Stenophylax permistus McLachlan

0 tubes larvae

11 tubes adults

Stenophylax vibex (Curtis)

no specimens

Stenophylax spp.

30 tubes larvae + cases

0 tubes adults

**Chaetopteryx villosa* (Fabricius) (2 jars)

46 tubes larvae

18 tubes adults

5 tubes adults + cases

**Anabolia nervosa* (Curtis) (2 jars)

0 tubes larvae

46 tubes adults

10 tubes adults + cases

Glyphotaenius pellucidus (Retzius) (3 jars)

15 tubes larvae

80 tubes adults

**Grammotaulius nigropunctatus* (Retzius)

0 tubes larvae

2 tubes adults (containing 3)

-Askam Bog, 1969

- no details

Grammotaulius nitidus (Müller)

no specimens

**Limnephilus affinis* Curtis

0 tubes larvae

40 tubes adults

**Limnephilus auricula* Curtis

0 tubes larvae

42 tubes adults + cases

Limnephilus binotatus Curtis (=xanthodes)

0 tubes larvae

6 tubes adults

Limnephilus bipunctatus Curtis

0 tubes larvae

2 tubes adults (containing 2)

Limnephilus borealis (Zetterstedt)

0 tubes larvae

2 tubes adults (containing 2)

-Lappland, 1948

-Ullswater, 1965

**Limnephilus centralis* Curtis

0 tubes larvae

40 tubes adults

Limnephilus coenosus Curtis

0 tubes larvae

2 tubes adults (containing 2)

-Malham tarn inflow stream, 1951

-Blelham, 1966

1tube adult + case

-Lingmoor, 1962

**Limnephilus decipiens* (Kolenati)

0 tubes larvae

1 tube adults (containing 2)

-Romania, S. Carpathians, 1960

-no details

Limnephilus elegans Curtis

0 tubes larvae

2 tubes adults (containing 2)

-Blelham Bog, 1967

-SK. Blentarps, Stapenbacken, 4.2 km NW Blentarps, Jiusfalla, 1966

**Limnephilus extricatus* McLachlan

0 tubes larvae

14 tubes adults

-1 tube adult + case

**Limnephilus flavicornis* (Fabricius)

0 tubes larvae

40 tubes adults

**Limnephilus fuscicornis* (Rambur)
no specimens (except *)

Limnephilus fuscinervis (Zetterstedt)
no specimens

**Limnephilus griseus* (Linnaeus)
0 tubes larvae
4 tubes adults

Limnephilus hirsutus (Pictet)
0 tubes larvae
2 tubes adults (containing 5)
-East Stoke, 1966
-South Uist, Scotland, 1965

Limnephilus ignavus McLachlan
0 tubes larvae
11 tubes adults

**Limnephilus incisus* Curtis
0 tubes larvae
2 tubes adults (containing 2)
-Blelham Tarn, 1965
-canal at Redworth, 1967

**Limnephilus lunatus* Curtis (2 jars)
4 tubes larvae
98 tubes adults

**Limnephilus luridus* Curtis
0 tubes larvae
6 tubes adults

**Limnephilus marmoratus* Curtis (3 jars)
0 tubes larvae
116 tubes adults

Limnephilus nigriceps (Zetterstedt)
0 tubes larvae
2 tubes adults (containing 2)
-Pyewipe Lake, near Lincoln, 1968
-River Shannon, between Lough Key & Athlone, 1972

Limnephilus pati O'Connor
no specimens

**Limnephilus politus* McLachan

0 tubes larvae

3 tubes adults

- ---, 1949

-Malham Tarn 1949

-Malham Tarn, 1948

**Limnephilus rhombicus* (Linnaeus)

0 tubes larvae

29 tubes adults

**Limnephilus sparsus* Curtis (2 jars)

0 tubes larvae

64 tubes adults

**Limnephilus stigma* Curtis

0 tubes larvae

2 tubes adults (containing 2)

_ ---, 1965

-Hudson's Tarn, 1960

**Limnephilus subcentralis* (Brauer)

0 tubes larvae

1 tube adults (containing 2)

-Kincraig, 1959

Limnephilus tauricus Schmid

no specimens

**Limnephilus vittatus* (Fabricius)

0 tubes larvae

9 tubes adults

Nemotaulius punctatolineatus (Retzius)

0 tubes larvae

3 tubes adults

-abroad, 1968

-SK. Blentarps, Stapenbacken, 4.2 km NW Blentarps, Jiusfalla, 1966

-SK. Blentarps, Stapenbacken, 4.2 km NW Blentarps, Jiusfalla, 1966

Phacopteryx (=Anabolia) *brevipennis* (Curtis)

0 tubes larvae

2 tubes adults

Rhadicoleptus (= *Stenophylax*) *alpestris* (Kolenati)

(NB: in a jar with *Potomophylax rotundipennis*)

0 tubes larvae

2 tubes adults

-Roumania, spring near Gutin, 1964

-Tarn Moss, between inflow bridge & tarn, 1950

FAMILY: LEPTOCERIDAE

Athripsodes albifrons (Linnaeus)

0 tubes larvae

31 tubes adults

Athripsodes aterrimus (Stephens)

1 tube larvae

-Colestone Park, Lake Cheltenham, 1976

31 tubes adults

Athripsodes bilineatus (Linnaeus)

no specimens

Athripsodes cinereus (Curtis)

0 tubes larvae

46 tubes adults

Athripsodes commutatus (Rostock)

no specimens

Ceraclea albimacula (Rambur) (= *Athripsodes alboguttatus*)

0 tubes larvae

9 tubes adults

Ceraclea (= *Athripsodes*) *annulicornis* (Stephens)

0 tubes larvae

3 tubes adults (containing 5)

Ceraclea (= *Athripsodes*) *dissimilis* (Stephens)

0 tubes larvae

40 tubes adults

Ceraclea (= *Athripsodes*) *fulva* (Rambur)

no specimens

Ceraclea (= *Athripsodes*) *nigronervosa* (Retzius)

0 tubes larvae

2 tubes adults (containing 3)

-Bassenthwaite, 1966

-Boathouse Bay, 1951

Ceraclea (=Athripsodes) senilis (Burmeister)

0 tubes larvae

1 tube adults (containing 2)

-Milbarn Pond, Wokefield, Berkshire, 1955

Leptocerus interruptus (Fabricius)

no specimens

Leptocerus lusitanicus (McLachlan)

no specimens

Leptocerus tineiformis Curtis

0 tubes larvae

4 tubes adults

- no details

-Oakfield, Berkshire, 1954

- --- 1963

-East Stoke, 1964

Mystacides azurea (Linnaeus) (2 jars)

0 tubes larvae

80 tubes adults

Mystacides longicornis (Linnaeus) (3 jars)

0 tubes larvae

150 tubes adults

Mystacides nigra (Linnaeus)

0 tubes larvae

10 tubes adults

Adicella filicornis (Pictet)

no specimens

Adicella reducta (McLachlan)

0 tubes larvae

5 tubes adults

Erotesis baltica McLachlan

0 tubes larvae

1 tube adults (containing 2)

-Hants: R. test, 1912

Triaenodes bicolor (Curtis) (2 jars)

0 tubes larvae

4 tubes cases (only)
18 tubes adults
3 tubes adults + cases

Ylodes (= *Triaenodes*) *conspersus* (Rambur)
0 tubes larvae
16 tubes adults

Ylodes (= *Triaenodes*) *reuteri* (McLachlan)
no specimens

Ylodes (= *Triaenodes*) *simulans* (Tjeder)
no specimens

Oecetis furva (Rambur)
0 tubes larvae
25 tubes adults

Oecetis lacustris (Pictet)
0 tubes larvae
50 tubes adults

Oecetis notata (Rambur) (in jar with *Oecetis testacea*)
0 tubes larvae
1 tube adult (containing 1)
-River Wye, 1972

Oecetis ochracea (Curtis)
0 tubes larvae
50 tubes adults

Oecetis testacea (Curtis)
0 tubes larvae
14 tubes adults

Setodes argentipunctellus McLachlan
0 tubes larvae
46 tubes adults

Setodes punctatus (Fabricius)
no specimens

SMALL FAMILIES

N.B. An asterix (*) indicates one tube containing a larva of that species is present in the jar containing the P.D. Hiley Collection .

FAMILY: BRACHYCENTRIDAE

Brachycentrus subnubilus Curtis (2 jars)

5 tubes larvae + case

6 tubes adults + case

FAMILY: LEPIDOSTOMATIDAE

**Crunoecia irrorata* (Curtis)

4 tubes larvae

8 tubes adults

**Lasiocephala basalis* (Kolenati)

1 tube larvae

-River Piddle at Wareham, Dorset, 1971

5 tubes adults

**Lepidostoma hirtum* (Fabricius) (3 jars)

0 tubes larvae

16 tubes cases (only)

80 tubes adults

4 tubes adults + cases

FAMILY: GOERIDAE

**Goera pilosa* (Fabricius) (3 jars)

0 tubes larvae

60 tubes adults

10 tubes adults + cases

**Silo nigricornis* (Pictet) (2 jars)

4 tubes larvae

2 tubes cases (only)

3 tubes adults

5 tubes adults + cases

**Silo pallipes* (Fabricius) (4 jars)

76 tubes larvae

8 tubes larvae parasitised by *Agriotypus*

40 tubes adults

FAMILY: SERICOSTOMATIDAE

Notidobia ciliaris (Linnaeus)

1 tube larvae

1 tube adults (containing 2)

-River Frome, East Stoke, 1962

**Sericostoma personatum* (Spence in Kirby & Spence) (3 jars)

30 tubes larvae

30 tubes larvae + case

25 tubes adults

12 tubes adults + cases

FAMILY: MOLANNIDAE

**Molanna albicans* (Zetterstedt) (=palpata)

no specimens

**Mollana angustata* Curtis (3 jars)

4 tubes larvae

70 tubes adults

FAMILY: BERAEEIDAE (all in 1 jar)

Beraea maurus (Curtis)

0 tubes larvae

4 tubes adults

Beraea pullata (Curtis)

0 tubes larvae

7 tubes adults

Beraeodes minutus (Linnaeus)

0 tubes larvae

1 tube cast skins

-Post Knott Beck, 1972

1 tube adults

-Plessey Woods, Northumberland

Ernodes articularis (Pictet)

no specimens

FAMILY: ODONTOCERIDAE

**Odontocerum albicorne* (Scopoli) (4 jars)

36 tubes larvae + cases

11 tubes adults

7 tubes adults + cases

3. MATERIAL PRESERVED IN A DRY STATE

3.1. MOLLUSCA/ SNAILS

Nomenclature follows that given in Kerney, M. (1999) *Atlas of the Land and Freshwater Molluscs of Britain and Ireland*. Harley Books, Colchester.

(Drawer Number)

CLASS: GASTROPODA

SUBCLASS: PROSOBRANCHIA

FAMILY: NERITIDAE

Theodoxus fluviatilis (L.); (= *Neritina fluviatilis* (L.)) (1)

1 tube containing 1- River Yare at Earham EN (11/07/51)

1 box (small = sm) containing 3- River Lune, Lancashire (-/11/74)

1 box (sm) containing 3- River Avon, Fordingbridge SH (-/05/39)

FAMILY: VIVIPARIDAE

Viviparus viviparus (L.) (1)

1 tube containing 2- Basingstoke Canal, Aldershot (-/05/39)

1 tube containing 6- Leamington Spa (-/10/39)

1 box (large = lg) containing 2-Oxfordshire (-/07/32)

1 box (lg) containing 2- Basingstoke Canal, Aldershot (-/05/39)

1 box (lg) containing 2- Oxfordshire (-/-/32)

Viviparus contectus (Millet); (= *Paludina contecta* Millet); (1)

(= *Viviparus fasciatus* of British authors *non* Müller)

1 tube containing 1- Cherwell, Oxfordshire (-/-/-)

1 jar containing 1- Upton Broad, EN (09/05/51)

1 box (lg) containing 1- Scale Tarn (-/12/48)

1 box (lg) containing 3- Scale Tarn (-/12/48)

1 box (lg) containing 2- - (-/-/-)

FAMILY: VALVATIDAE

Valvata cristata Müller (1)

1 tube containing 1 - Sunbiggin Tarn WL (15/07/56)

1 tube containing 1- Vaznol Pond, Bangor CM (06/02/69)

1 tube containing 1- River Yare at Earham, EN (11/07/51)

1 box (lg) containing 4- Tarn Hawes, Silverdale WL (11/04/38)

1 box (lg) containing 5- Tarn Hawes, Silverdale WL (11/04/38)

Valvata macrostoma Mörch (1)

1 tube containing 1- River Little Ouse, Wilton Bridge, Suffolk (05/04/26)

1 tube containing 1- Lough Cullaun, Burren, Co. Clare (-/04/57)

1 box (sm) containing 3- ditch south of Lowes (03/03/57)

Valvata piscinalis (Müller) (2)

17 tubes containing:

no specimen- Blelham Mouth, Windermere (21/02/37)

1- Brathay Bay, Windermere (15/10/36)

2- Whitecross Bay, Windermere (04/07/36)

3- Brathay mouth, Wndermere (18/08/36)

4- Scholl Knotts Tarn (27/06/36)

no specimen- Waterhead Bay, Windermere (18/08/36)

2- Pull Wyke Swan, Windermere (01/06/36)

2- L. Sheelin, Co. Cavan (06/08/51)

3- Sunbiggin Tarn (15/07/56)

3- Waterhead Bay, Windermere (18/08/36)

2- L. Ree, Co. Roscommon (06/08/51)

5- Windermere (10/04/36)

2- Brathay Mouth (18/08/36)

2- Coniston outflow bed (24/08/37)

3- Tarn Hawes, Silverdale (11/04/38)

6- Brathay Bay (20/08/36)

4- vegetation, Blelham Beck (06/08/36)

1 box (sm) containing 4- Blelham outflow WL (13/04/36)

1 box (sm) containing 5- Blelham Beck WL (05/07/36)

FAMILY: POMATISIDAE

Pomatias elegans (Müller) (-)

no specimens

FAMILY: HYDROBIIDAE

Hydrobia ventrosa (Montagu) (2)

1 tube containing 20- Red House Brook, Pevensey Bay (19/06/24)

1 tube containing 10- Lancing, Sussex (-/-/-)

1 box (sm) containing 6- Red House Brook, Pevensey Bay (19/06/24)

1 box (sm) containing 3- Weymouth (-/-/-)

Hydrobia neglecta Muus (-)

no specimens

Hydrobia ulvae (Pennant); (= *Sabanaea ulvae* (Pennant)) (2)

9 tubes containing: (mixed with *P.antipodarum*?)- Morchas Salt, Marsh near Harlech, MN (20/07/54)

10- shallow pool in well developed salt marsh, Blakeney Pt, WN (10/07/51)

30- Dee Estuary, CH (-/-/47)

20- Blakeney Point (in *Zostera nana*) WN (10/07/51)

7- Scott Head, WN (08/07/51)

11- Leven Mouth, WL (30/08/37)

5- Sidlesham, Sussex (-/-/-)

20- Leven mouth, WL (30/08/37)

4- coast west of Flookburgh, WL (-/06/53)

1 box containing 6- coast west of Flookburgh, WL (-/06/53)

Heleobia stagnorum (Gmelin) (-)
no specimens

Mercuria confusa (Frauenfeld) (-)
no specimens

Potamopyrgus antipodarum (Gray); (=Hydrobia jenkinsi E.A. Smith) (2)
16 tubes containing:

- 9- Whitecross Bay, Windermere (--/10/37)
- 4- L. Erne near Ely Lodge, FE (03/08/51)
- 4- Whitecross Bay, Windermere (04/07/36)
- 15- L. Furnace (lower), Co. Mayo (05/08/51)
- 3- L. Gill (02/08/51)
- 3- L. Furnace (lower) (05/ 08/51)
- 4- L. Gara, Co. Sligo (04/08/51)
- 6, R. Gilpin, WL (16/05/38)
- 2- L. Erne near Ely Lodge (03/08/51)
- 4 ditch alongside R. Frome, Wareham (19/06/53)
- 30- Tarn Tarn CU (-/06/53)
- 4- L. Eill, Co. Sligo (02/08/51)
- 8- SHP central cut (20/09/37)
- 2- *Littorella* sward, Whitecross Bay, Windermere (09/08/37)
- 10- L. Furnace (upper), Co. Mayo (05/08/51)
(also containing *Planorbis albus*)- Torquay (-/09/52)

1 box (sm) containing 6- Whitecross Bay, Wndermere (09/08/36)

1 box (sm) containing 5- Whitecross Bay, Windermere (04/07/36)

Marstoniopsis scholtzi (A. Schmidt) (-)
no specimens

FAMILY: TRUNCATELLIDAE

Truncatella subcylindrica (L.) (-)
no specimens

FAMILY: BITHYNIIDAE

Bithynia tentaculata (L.) (2)
9 tubes containing:

- 4- Malham Tarn (22/09/47)
- 1- L. Gill, Co. Sligo (02/08/51)
- 6- ditch alongside R. Frome , Wareham (19/06/38)
- 12- Tarn Howes, Silverdale, WL (11/04/38)
- 2- shore, Tarn Howes, Silverdale, WL (11/04/38)
- 1- ditch, Shingle Street, ES (19/05/54)

5- L. Ree, Co. Roscommon (06/08/51)
1- strand of L. Carra, Co. Mayo (05/08/51)
1- Lullingstone Castle, R. Darrent, WK (27/05/48)
1 box (sm) containing 3- Tarn Howes, Silverdale (11/04/38)

Bithynia leachii (Sheppard) (3)
1 tube containing 1- Barton Broad, EN (12/07/51)
1 tube containing 4- Winchelsea (-/-/-)
1 box (sm) containing 5- Winchelsea (-/-/-)

FAMILY: ASSIMINEIDAE (3)
Assiminea grayana Fleming
1 tube containing 4- St. Olaves, Suffolk (-/-/-)

FAMILY: PHYSIDAE
Aplexa hypnorum (L.); (= *Physa hypnorum* (L.)) (5)
1 tube containing 1- Leighton Moss, Silverdale (11/04/38)
1 tube containing 2- Helton Lake, WL (28/11/39)
1 box (sm) containing 4- Winchelsea (-/-/-)

Physa fontinalis (L.) (5)
1 box (lg) with 4 tubes containing:
1- Pull Wyke Swan, Windermere (01/06/36)
1- Knittleton Tarn (23/03/37)
4- Bassenthwaite Railway Station Bay, CU (18/08/37)
1- River Yare at Earham, EN (11/07/51)

Physa spp. (introduced species): *Physa acuta* Draparnaud/ *Physa heterostropha* Say (5)
1 tube containing 1- Bordeaux, France (-/-/-)
1 tube containing 1- tanks, Kew Gardens (-/-/-)
1 tube containing 1- canal, Cardiff (-/08/22)

FAMILY: LYMNAEIDAE (3)
Lymnaea truncatula (Müller)
7 tubes containing:
4- Rather Heath (26/09/46)
3- Bassenthwaite Railway Station Bay (18/08/37)
1- Derwentwater, CU (03/06/38)
3- small rocky trickle, Head of Nethermost, WL (02/01/38)
2- Blelham Fishpond, WL (06/09/38)
6- Rather Heath, WL (26/07/46)
6- field pool, Clifton Dykes, Penrith (26/02/39)
1 box (sm) containing 3- Kirby Quarries, WL (15/12/35)
1 box (sm) containing 1- Brathay Quarries, WL (19/06/37)
1 box (sm) containing 5- (variety minor) Nagden (-/-/-)

Lymnaea glabra (Müller) (3)

6 tubes containing:

- 2- Nor Moss, WL (21/08/40)
- 1- Nor Moss, WL (-/-/-)
- no specimen- Three Dubs Tarn, WL (24/03/37)
- 2- Cronkley Pastures, NY, Teesdale (08/07/48)
- 3- Juncus bed, Three Dubs Tarn (27/07/36)
- 2- Gillshead Fishpond (20/02/36)

1 box (sm) containing 5- School Knotts Moss (06/04/47)

1 box (sm) containing 3- Ashton under Lyme (-/-/-)

1 box (sm) containing 5- School Knotts Moss (-/-/-)

1 jar (sm) containing 2- pond near Dubmill Point between Allonby/ Silloth & a small pond in dunes between Beck Foot/ Bitterlees CU (-/-/-)

Lymnaea palustris (Müller) (3)

1 tube containing 2- Malham Tarn (22/09/47)

1 tube containing 15- Rather Heath, WL (26/07/46)

1 box (lg) containing 18 tubes:

- 2- Rather Heath (26/07/46)
- 5- Cambridge (27/01/37)
- 1- Cleabarrow Tarn, WL (14/06/38)
- 3- Brathay mouth, west bed, Windermere (25/11/36)
- 1- Rulbats Tarn, WL (24/02/36)
- 3- Wharton Tarn, WL (22/02/36)
- 1- Brathay mouth, Windermere (18/08/36)
- 3- sign post fence, Windermere (10/08/36)
- 1- Leamington Spa, WW (-/12/39)
- 2-ditch alongside R. Frome, Wareham (19/06/38)
- 6- Rather Heath (19/07/36)
- 1- Blelham Carr, overhung (16/06/37)
- 4- Union Bay, Windermere (25/10/36)
- 1- Sea Mew Bay, Windermere (10/08/36)
- 2- Blelham outflow mouth. Windermere (21/02/37)
- 3- Coniston Waterhead Bay (24/08/37)
- 4- Helton Lake (12/06/37)
- 2- Bassenthwaite Railway Station Bay (18/08/37)

1 box (lg) containing 3- variation *conica* - (-/-/-); 3- variation *roseolabiata* - (-/-/-) ;

1- Cambridge (17/01/37)

1 box (lg) containing 2- Blelham (10/06/37); 3- Estwaite north bed pool (08/05/37);

5- Union Bay, Windermere (25/10/36)

Lymnaea stagnalis (L.) (4)

5 tubes containing:

- 1- School Knotts Tarn (24/02/37)
- 1- School Knotts Tarn (06/04/37)
- 6- outflow of L. Gara, Co. Sligo (04/08/51)

- 2- – (-/-/-)
- 2- Rather Heath (26/07/46)
- 1 box (sm) containing 1- Cambridge (-/-/37)
- 1 box (lg) containing 4- – (-/-/-); 3- Pevensey (-/-/1893); 3- School Knotts Tarn (06/04/37)
- 1 tin containing 4- School Knotts Tarn (-/-/39)
- Lymnaea auricularia* (L.) (4)
- 1 box (lg) containing 2- New River (-/-/-)
- 1 box (lg) containing 3- Loch Gelly, Fife (06/10/38)
- Lymnaea peregra* (Müller) (4 & 5)
- 13 tubes containing: (4)
- 3- Loch Skene, Dunfries (30/03/48)
 - 1- L. Erne near Ely Lodge, Co. Fermanagh (03/08/51)
 - 12- Nor Moss (02/08/40)
 - 2- Llyn Gaft Cader Idris, MN (22/07/54)
 - 3- field pool, Clifton Dykes, Penrith (26/11/39)
 - 1- reed beds, N.E. corner, Blelham Lake (08/11/47)
 - 2- Llyn Gaft Calder Idris, MN (22/07/54)
 - 4- – (-/-/-)
 - 15- Ennerdale (05/09/-)
 - 13- Rather Heath (26/07/46)
 - 1- Clay Pond (-/06/48)
 - 25- Chapplehouse Res. CU (22/11/39)
 - 10- Nor Moss (-/-/-)
- 1 box (lg) containing 24 tubes: (4)
- 3-Sea Mew Bay, Windermere (10/08/36)
 - 11- Bassenthwaite Railway Station Bay (18/08/37)
 - 5- Red Tarn, Helvellyn (20/08/37)
 - 1- Crook, Lake District (03/03/36)
 - 9- east bed, Brathay Mouth, Windermere (18/08/36)
 - 9- Tarn Hawes, Silverdale (11/04/38)
 - 4- New Tarn, WL (28/10/36)
 - 3- Blelham outflow mouth, north bed, Windermere (25/11/26)
 - 2- Kerby Qu. (15/12/35)
 - 5- Brathay Bay (18/08/36)
 - 1- Slew Tarn (03/02/36)
 - 2- Arnside Tarn, Lake District (09/01/37)
 - 1- Wray Mires (13/01/37)
 - 2- Black Beck Moss (20/02/37)
 - 1- Arnside Tarn (09/01/37)
 - 7- shore, Tarn Hawes, Silverdale (11/04/38)
 - 7-Cheddar Res. (-/-/-)
 - 2- Blelham outflow mouth (02/12/36)
 - 3- Blelham outflow mouth (21/02/37)
 - 6- east bed, Waterhead Bay, Windermere (18/08/36)
 - 2- Bee Bay, Windermere (02/12/36)

- 1- Blelham outflow (16/06/37)
 4- Blelham Fishpond (06/09/38)
 3- L.Ree. Co. Roscommon (06/08/51)
 1 box (lg) 21 tubes: (5)
 5- Hatchet Pond SH (20/04/37)
 3- from Yorkshire put into Healley's Tarn marsh (–/–/39)
 2- Blelham outflow (10/11/35)
 1- Union Bay (25/10/36)
 2- Fisherty Bay (15/07/36)
 8- Brigstone (31/10/39)
 5- Brathay Bay (20/08/36)
 1- Wharton Tarn (22/02/36)
 10- Waterhead Bay, Coniston Water (24/08/37)
 1- Blelham Outflow Mouth (24/11/36)
 2- Brathay Bay (18/08/36)
 5- east bed, Brathay Mouth (18/08/36)
 2- sign post fence (10/08/36)
 13- Coniston outflow bed (24-08-37)
 7- Loch Gelly, Fife (06/10/38)
 4- Lindeth Tarn (01/01/36)
 5- Nor Moss (31/10/39)
 2- New Tarn (06/12/35)
 11- Rather Heath (19/12/36)
 2- Blelham outflow mouth (02/12/36)
 1- Fisherty Bay
 1 box (lg) containing 4- (variation *accuminata*) R. Ichin; 4- Hampshire (4)
 1 box (lg) containing 2- Rather Heath (19/12/36); 2- Pull Wyke Swan, Windermere (01/06/36) (4)
 1 box (lg) containing 2- Rather Heath (19/12/36); 2- Blelham Tarn (18/03/36) (4)
 1 box (sm) containing 1- Clay Pond, WL (01/07/37) (4)

Myxas glutinosa (Müller) (4)
 1 tube containing 1- Robin Wyke, Esthwaite (10/11/35)
 1 box (sm) containing 2- Blelham outflow mouth (10/11/35)

Lymnaea (=Stagnicola) catascopium Say (3)
 (NB: an American species. See Macan, T.T. (1969) FBA Sci. Publ.13:page 27)
 1 box (lg) containing 4- warm pond in Leith (10/07/30)

 FAMILY: PLANORBIDAE
Planorbis planorbis (L.) (6)
 1 tube containing 1- Basingstoke Canal, near Aldershot (–/05/39)
 1 tube containing 1- Barton Broad, EN (11/07/51)
 1 box (sm) containing 2- L.Sheelin, Co. Cavan (06/08/51)
 1 box (sm) containing 3- Lullington Castle, R. Darrent, WK (27/05/48)

Planorbis carinatus Müller

(5)

8 tubes containing:

- 4- L. Sheelin, Co. Cavan (06/08/51)
- 10- sent by H. Frankland (University College of North Staffordshire) (-/07/54)
- 1- Basingstoke Canal, Aldershot (-/05/39)
- 10- L. Ree, Co. Roscommon (06/08/51)
- 2- Upton Broad, EN (09/07/51)
- 2- R. Yare at Earlham, EN (11/07/51)
- 1- L. Erne near Ely Lodge, Co. Fermanagh (03/08/51)
- 2- L. Arrow, Co. Stigo (02/07/51)

1 box (lg) containing 30 tubes:

- 8- apex of Fisherty Bay, (08/06/36)
- 2- Brathay Bay (18/08/36)
- 1- north bed, Brathay Bay (20/08/36)
- 30- Fisherty Bay (24/8/32)
- 17- Fisherty Bay (15/07/36)
- 2- Fisherty Bay (21/04/36)
- 4- Union Bay (25/10/36)
- 30- Fisherty Bay (21/08/36)
- 6- - (-/-/-)
- 8- Bee Bay (10/08/36)
- 7- north bed, Blelham outflow mouth (25/11/36)
- 9- Bee Bay (10/08/36)
- 7- Bee Bay (02/12/36)
- 1- Blelham outflow (10/11/ 35)
- 15- Brathay Bar (18/08/36)
- 7- Pull Wyke Swan (08/09/38)
- 2- Sea Mew Bay (10/08/36)
- 3- Brathay Bay (20/08/36)
- 3- Brathay Bay (20/08/36)
- 2- east bed, Brathay Bay (15/10/36)
- 2- High Wray Bay (10/08/36)
- 3- Brathay Bar (18/08/36)
- 29- north bed, Blelham outflow mouth, Windermere(24/11/36)
- 8- Brathay Mouth (18/08/36)
- 1- Fisherty Bay, (24/08/36)
- 2- Brathay mouth (18/08/36)
- 20- Pull Wyke Stream, Windermere (08/09/38)
- 1- Waterhead Bay (18/08/36)
- 15- Blelham ouflow mouth (21/02/37)
- 6- Blelham ouflow mouth (25/02/36)

2 boxes (sm) each containing 3- Fisherty Bay (15/7/36)

Anisus leucostoma (Millet) (= *Planorbis spirorbis* of British authors)

(6)

9 tubes containing:

- 5- Leighton Moss, Silverdale (11/04/38)
- 15- Wise Een Pool (31/08/38)

- 1- Helton Lake (12/06/37)
- 1- Bridges Hole, Bassenthwaite (10/10/46)
- 1- Helton Lake, (28/02/39)
- 2- ditch, Shingle Street, ES (19/05/54)
- 40- grassy ditch alongside Allen River, SH (04/05/39)
- 2- Derwentwater (03/06/38)
- 2- Derwentwater (16/08/37)
- 1 box (sm) containing 3- Helton Lake (12/06/37)
- 1 box (sm) containing 2- Helton Lake (12/06/37)

Anisus vortex (L.) (= *Planorbis vortex* (L.))

(6)

12 tubes containing :

- 1- R. Yare at Earham, EN (11/07/51)
- 1- Loch Lanish, NS (25/05/52)
- 1- L.Gill, Co. Sligo (04/08/51)
- 1- L. Arrow, Co. Sligo (02/08/51)
- 1- Upton Broad, EN (09/07/51)
- 4- Flatford Mill (-/-/56)
- 7- L. Ree, Co. Roscommon (06/08/51)
- 2- L.erne, near Ely Lodge, Co. Fermanagh (03/08/51)
- 8- L. Gill, Co. Sligo (02/08/51)
- 7- outflow of L.Garra, Co. Sligo (04/08/51)
- 1- Lullingstone, R. Darrent (27/05/48)
- 5- canal, Glasson Dock, Lancaster (-/-/32)
- 1 box (sm) containing 3- canal, Lancaster (-/-/-)

Anisus vorticulus (Troschel) (= *Planorbis vorticulus* Troschel)

(6)

- 1 tube containing 6- Potswick, Norfolk (-/-/-)
- 1 pillbox containing 1- Poland (-/-/-)

Bathyomphalus contortus (L.) (= *Planorbis contortus* (L.))

(7)

13 tubes containing:

- 2- St. John's Loch (27/05/52)
- 1- Pull Wyke Stream (08/09/38)
- 3- Sunbiggin Tarn (15/07/56)
- 2- Helton Lake (28/11/39)
- 1- Malham Tarn (22/09/47)
- 1- Bee Bay (10/08/36)
- 12- Coniston outflow bed (24/08/37)
- 1- Upton Broad, EN (09/07/51)
- 3- *Littorella* sward, Whitecross Bay (09/07/51)
- 1- Eale Naze, west bed, Windermere (15/10/36)
- 7- Bassenthwaite Railway Station Bay (18/08/37)
- 2- sign post fence, Windermere (10/08/36)
- 1- Derwentwater (16/08/37)
- 1 box (sm) containing 4- Notts (-/-/-)
- 1 box (sm) containing 6- Blelham (06/01/38)

1 box (sm) containing 5- Windermere (10/04/36)

Gyraulus laevis (Alder)(=*Planorbis laevis* Alder) (6)

4 tubes containing:

- 3- Sunbiggin Tarn (15/07/56)
- 1- L. Croispol, NS (25/05/52)
- 30- Chaplehouse Res. CU (22/11/39)
- 15- Loch Gelly, Fife (06/22/38)

Gyraulus acronicus (Férussac) (= *Planorbis acronicus* Férussac) (7)

1 tin (sm) containing 6- Holocene, Chertsey (-/-/-)

Gyraulus albus (Müller) (= *Planorbis albus* Müller) (7)

13 tubes containing:

- 2- Sunbiggin Tarn (15/07/56)
- 1- Bridges Hole, Bassenthwaite, CU (10/10/46)
- 2- L. Neagh north of L. Gullion, Co. Armagh (31/12/51)
- 10- weed beds, Pull Wyke (08/09/38)
- 1- L. Neagh near Ballyronan, Co. Derry (31/07/51)
- 1- New Tarn (26/09/46)
- 8- Rather Heath 6 (26/07/46)
- 8- Rather Heath 1 (26/07/46)
- 1- L. Ree, Co. Roscommon (06/08/51)
- 5- Chapelhouse Res. CU (22/11/39)
- 1- L. Gill, Co. Sligo (04/08/51)
- 6- Rouse (possibly also containing *Menetus dialatus*) (24/10/62)
- 10- (mixed with *Bathymphalus contortus* & *Valvata piscinalis*) Coniston outflow bed (24/08/37)

1 box (lg) 40 tubes containing:

- 20- Coniston outflow bed (24/08/37)
- 5- New Tarn (06/12/35)
- 1- Pull Wyke Stream (08/09/38)
- 1- Brathay Bar (18/08/36)
- 2- Brotherswater (16/08/37)
- 1- Brathay Quarries (08/06/36)
- 2- Pull Wyke Swan (08/09/38)
- 10- Rather Heath (19/12/36)
- 2- *Littorella* sward, Whitecross Bay (09/08/36)
- 3- Cleabarrow Tarn (04/02/37)
- 6- shore, Langdale Chase (09/08/36)
- 3- *Littorella* sward (05/07/36)
- 1- Rather Heath (19/12/36)
- 1- Brathay Bar (18/08/36)
- 4- Blelham outflow (13/04/36)
- 2- Lindeth Tarn, Lake District (01/01/36)
- 2- Fisherty Bay (21/08/36)
- 2- apex, Fisherty Bay (08/06/36)

- 2- Brathay Bay (15/10/35)
- 2- Gale Naze, west bed, Windermere (15/20/36)
- 4- Lancer Tarn (03/02/36)
 - 1- Brathay Bay (20/08/36)
- 20- Bassenthwaite Railway Station Bay (18/08/37)
- 2- Union Bay, Windermere (25/10/36)
- 15- Blelham Fishpond (09/09/38)
 - 1- Brathay Bay (20/08/36)
- 4- Rather Heath (-/-/-)
- 2- Tarn Hawes, Silverdale (11/04/38)
 - 1- Bee Bay, Windermere (10/08/36)
- 2- Rather Heath (19/12/36)
- 12- New Tarn (28/10/36)
- 20- New Tarn (28/10/36)
 - 1- *Littorella* sward, Windermere (12/08/36)
 - 2- Waterhead Bay, Windermere (18/08/36)
 - 2- Waterhaed Bay, Coniston (24/08/37)
 - 2- Sea Mew Bay, Windermere (10/08/36)
 - 4- Fisherty Bay (15/07/36)
 - 20- Podnet Tarn, Lake District (11/09/36)
 - 1- Wray Mires Tarn, Lake District (14/11/36)
 - 2- sign post fence (10/08/36)
- 1 box (sm) containing 4- Saltaire, Yorkshire (-/-/-)
- 1 box (sm) containing 6- Whitecross, Windermere (04/07/36)

Gyraulus crista (L.) (= *Planorbis crista* (L.))

(7)

7 tubes containing:

- 4- New Tarn (26/09/46)
 - 3- Rather Heath (26/09/46)
 - 4- pond at pt. 257574, CA (27/05/52)
 - 12- Rather Heath (04/09/40)
 - 7- L. Aigeil NS (21/05/52)
 - 4- L.Gelly, Fife (06/10/38)
 - 7- Sunbiggin Tarn (15/07/56)
- 1 box containing 7- Fox Lane (-/-/-)

Hippeutis complanatus (L.) (= *Planorbis fontanus* (Lightfoot))

(7)

6 tubes containing:

- 1- Barton Broad, EN (12/07/51)
 - 10- Rather heath (26/07/46)
 - 1- bed, Pull Wyke Swan (10/08/36)
 - 4- Cleobarrow Tarn, WL (14/06/38)
 - 1- Ranworth Broad, EN (09/07/51)
 - 1- Blelham outflow (13/04/36)
- 1 box (sm) containing 1 - Coniston outflow bed (24/08/37)
- 1 box (sm) containing 1- Rather Heath (19/07/37)

Segmentina nitida (Müller) (7)
1 tube containing 2- Thorpe, near Norwich (-/-/-)
1 box (sm) containing 3- woodland pond, near Roby St. (10/11/48)

Planorbarius corneus (L.) (= *Planorbis corneus* (L.)) (5)
1 box (sm) containing 20- from an ancient river bed, Skipton, Yorkshire (-/-21)
1 box (lg)- containing 3- Deal, Kent (-/-/-)
1 box (lg) containing 5- Ellerigg, Ambleside (-/-73)
1 jar (sm) containing 4- garden pond, Ellerbeck, Ambleside (-/-/75)

Menetus dilatatus (Gould) (5)
1 box (sm) containing 4- Rosegrove, Burnley (-/-/-)

Planorbis parvis (not in Macan 1969 nor Kerney 1999) (7)
1 box containing 2- River Serpentine (-/-/-)

FAMILY: ANCYLIDAE

Ancylus fluviatilis Müller (= *Ancylastrum fluviatile* Müller) (8)
1 tube containing 1- L. Garra, Co. Sligo (04/08/51)
1 tube containing 2- Chapelhouse Res. CU (22/11/39)
2 boxes (sm) each containing 3- Watbarrow Pt., Windermere (-/-/37)

Ferrissia wautieri (Mirolli) (= *Ferrissia clessiniana* (Jickeli)) (-)
no specimens

FAMILY: ACROLOXIDAE

Acroloxus lacustris (L.) (= *Ancylus lacustris* (L.)) (8)
1 box (sm) containing 3- Tarn Hawes, Silverdale (11/04/38)
1 box (sm) containing 1- Knittleton Lake (01/05/38)

FAMILY: SUCCINEIDAE

Succinea putris (L.) (8)
1 box (lg) containing 5- Shipley (-/-/-)

FAMILY: VERTIGINIDAE

Vertigo antivertigo (Draparnaud) (8)
1 tube containing 11- Saxlingham Thorpe, Norfolk (12/04/47)

FAMILY: ZONITIDAE

Zonitoides nitidus (Müller) (8)
1 tube containing 1- Outgate Beck, WL (24/08/51)
1 tube containing 3- Walton on Thames (16/11/42)

3.2. MOLLUSCA/ BIVALVES

Nomenclature follows that given in Kerney, M. (1999) *Atlas of the Land and Freshwater Molluscs of Britain and Ireland*. Harley Books, Colchester.

(Drawer Number)

CLASS: BIVALVIA ORDER: UNIONOIDA

FAMILY: MARGARITIFERIDAE

- Margaritifera margaritifera* (L.) (9 + wooden box 1)
1 box (lg) containing 1- - (-/-/-) (9)
1 box (lg) containing 4.5 (-/-/-) (box 1)

FAMILY: UNIONIDAE

- Unio pictorum* (L.) (9)
2 boxes (lg) each containing 1- - (-/-/-)

- Unio tumidus* Philipsson (10)
1 tin containing 1- - (-/-/-)
1 box (lg) containing 1- - (-/-/-)

- Anodonta cygnea* (L.) (10 + wooden box 2)
1 box (lg) containing 1- - (-/-/-) (10)
1 (lg) wooden box containing: (box 2)
 2- Luckford Lake, Lulworth Castle, Dorset (-/12/61)
 1- Preston (-/-/-)
 6- no specific details but there are 3 loose labels: Harrow(-/-/-); Bolton Lee Sands, Carnforth (-/-/-); pond, Hanswoth Hill (-/-/32)

- Anodonta anatina* (L.) (= *Anodonta piscinalis* Nilsson) (11)
1 box (sm) containing 10- (possibly including *A. cygnea* (L.)) canal near Burton, Westmoorland (-/-/36)
1 box (lg) containing 1- - (-/-/-)
1 box (lg) containing 4- - (-/-/-)

- Pseudanodonta complanata* (Rossmässler) (-)
no specimens

ORDER: CYRENODONTA

FAMILY: SPHAERIIDAE

- Sphaerium corneum* (L.) (11)
1 tin containing 14 tubes:
 2- Fisherty Bay (21/09/36)
 4- Brathay Bar (18/08/36)
 1- Bee Bay (02/12/36)

- 1- Clay Pond, Wray (09/11/35)
 1- School Knotts Tarn (27/06/36)
 1- east bed, Brathay Bay (15/10/36)
 2- west bed, Brathay Bay (20/08/36)
 1- north bed, Sandy Wyke (01/06/36)
 1- west bed, Brathay Bay (15/10/36)
 2- Bee Bay (10/08/36)
 2- Blelham outflow (13/04/36)
 4- vegetation, Blelham Beck (06/08/36)
 10- Blelham Beck (05/07/36)
 1- drift shore south of Langdale Chase Hotel boathouse (09/08/36)
- 1 tube (lg) containing 40- Leamington Spa (-/12/39)
 2 boxes (sm) each containing 3- Blelham outflow mouth (10/11/39)
 1 box (sm) containing 1- Blelham outflow carr (21/04/36)
- Sphaerium rivicola* (Lamarck) (11)
 1 box (lg) containing 2- Oxfordshire (-/-/35)
 1 box (lg) containing 1.5- Leamington Spa (-/12/39)
- Sphaerium solidium* (Normand) (-)
 no specimens
- Musculium transversum* (Say)(= *Sphaerium transversum* (Say); *S. pallidum* Gray; *S. ovale* of British authors, non Férussac) (-)
 no specimens
- Musculium lacustre* (Müller) (= *Sphaerium lacustre* (Müller)) (11)
 1 tube containing 4- Leamington Spa (-/12/39)
 1 box (sm) containing 2 tubes:
 1- Brathay Quarries (-/-/-)
 1- Sandy Wyke (01/06/36)
 2 boxes (sm) each containing 4- *Carex* bed, Lost Tarn (12/11/36)
- Pisidium amnicum* (Müller) (-)
 no specimen
- Pisidium casertanum* (Poli) (= *P. cinereum* Alder) (12)
 1 box (long) containing 20 tubes:
 2- Three Dubs Tarn (07/08/37)
 3- Lingmoor Tarn, Lake District (03/10/36)
 1- Rather Heath (29/02/35)
 No specimen- Three Dubs Tarn (27/07/36)
 3- *Littorella* sward, Windermere (12/08/36)
 1- Rulbut's Tarn (29/02/36)
 2- Lindeth Tarn (01/01/37)
 1- sand, Brown Cove Tarn (20/08/37)
 3- Harrop Tarn, Lake District (23/10/36)

- 1- Three Dubs Tarn (27/07/36)
- 9- Stickle Tarn (31/08/37)
- 2- Undermill Beck (28/06/36)
- 2- Maafesh Moss (31/08/37)
- 20- Menyanthes Pool, near Maafesh Moss (31/ 08/37)
- 3- Outgate Quarry (22/09/36)
- 1- Brathay Quarries (08/06/36)
- 3- Red Tarn, Helvellyn (20/08/37)
- 3- Union Bay (25/10/36)
- 2- Three Dubs Tarn (26/07/36)
- no specimen- Brathay Bay (20/08/37)
- 1 box (sm) containing 3- Red Tarn, Helvellyn (20/08/37)
- 1 box (sm) containing 3- Stickle Tarn, WL (31/08/37)

Pisidium conventus Clessin (12)

- 1 box (sm) containing 4- Brown Cove Tarn (07/10/36)
- 1 box (sm) containing 4- Red Tarn, Helvellyn (20/08/37)

Pisidium personatum Malm (12)

- 1 tin containing 4 tubes:
 - 1- Brathay Bay (20/08/36)
 - 1- Red Tarn, Helvellyn (20/08/37)
 - 1- Blelham outflow mouth (24/11/36)
 - 1- Three Dubs Tarn (07/03/37)
- 1 box (sm) containing 5- Brown Cove Tarn (07/10/36)
- 1 box (sm) containing 4-Wray Mires Fishpond (13/01/37)

Pisidium obtusale (Lamarck) (12)

- 1 box (sm) containing 22 tubes:
 - 7- Undermill Beck (28/06/36)
 - 4- New Tarn (28/09/36)
 - 6- School Knotts Tarn (27/06/36)
 - 3- Knipe Tarn, Lake District (28/09/36)
 - 1- Three Dubs Tarn (27/07/36)
 - 1- Rather Heath (29/11/35)
 - 1- High Wray Bay, Windermere (10/08/36)
 - 7- Nor Moss (17/09/36)
 - 1- Wise Een Tarn (14/11/36)
 - 3- Wise Een Tarn (28/10/36)
 - 4- Slew Tarn (07/01/37)
 - 1- sign post fence (10/08/36)
 - 2- vegetation, Blelham Beck (06/08/36)
 - 4- Union Bay (25/10/36)
 - 2- Bee Bay (02/12/36)
 - 1- Rather Heath (19/12/36)
 - 2- Gale Naze (15/10/36)
 - 4- Nor Moss (11/09/35)

1- Gill Head (20/02/36)
2- Bee Bay (10/08/36)
1- Blelham outflow mouth (24/11/36)
1- Blelham outflow mouth (25/11/36)
1 box (sm) containing 4- Nor Moss (17/09/36)
1 box (sm) containing 3- Three Dubs Tarn (31/08/36)

Pisidium milium Held (12)

1 box (sm) containing 9 tubes:
1- Pull Wyke Swan (10/08/36)
3- Bee Bay (10/08/36)
1- Ecclerigg Bay (04/12/36)
1- Three Dubs Tarn (24/03/27)
1- apex of Fisherty Bay (08/06/36)
1- Rather Heath (19/12/36)
1- Sedge Rydal Water (19/12/36)
1- Fisherty Bay (29/08/36)
1- mud, 15 feet, Windermere (10/04/36)
1 box (sm) containing 1- Gale Naze (15/10/36)
1 box (sm) containing 3- Pull Wyke Swan (10/08/36)

Pisidium pseudosphaerium Schlesch (-)
no specimens

Pisidium subtruncatum Malm (13)

1 box (sm) containing 9 tubes:
3- Blelham Fishpond (10/10/36)
1- Bee Bay (10/08/36)
1- drift shore, south of Langdale Chase Hotel boathouse (09/08/36)
2- Rather Heath (20/08/36)
3- Fisherty Bay (29/08/36)
2- Brathay Bay (15/10/36)
8- open space, Lost Tarn (10/11/36)
2- Lost Tarn (20/11/35)
2- Slew Tarn (06/04/36)
1 box (sm) containing 2- Whitecross Bay (04/08/36); 3- Blelham outflow (13/04/36)

Pisidium supinum A. Schmidt (-)
no specimens

Pisidium henslowanum (Sheppard) (13)

1 box (sm) containing 1- Blelham Fishpond (10/10/36)

Pisidium lilljeborgii Clessin

(13)

1 box (lg) containing 17 tubes:

- 2- Whitecross Bay (04/07/36)
- 2- *Littorella* sward, Windermere (04/07/36)
- 10- *Littorella* beds, Whitecross Bay (09/08/36)
- 7- Waterhead, Windermere (18/08/36)
- 2- Three Dubs Tarn (27/07/36)
- 5- Waterhead, Windermere (18/08/36)
- 1- Pull Wyke Swan (10/08/36)
- 3-*Littorella* sward, Windermere (07/07/36)
- 4- Brathay Bay (15/10/36)
- 2- Sandy Wyke, Windermere (01/07/36)
- 3- Brathay Bar (18/08/36)
- 3- *W. Pharagmites* bed, Brathay mouth (15/07/36)
- 3- mud, 15 feet, Windermere (10/04/36)
- 10- Wray Mires Tarn (06/04/36)
- 15 Brathay Bay (20/08/36)
- 6- Brathay mouth (18/08/36)
- 2- Rather Heath (19/12/36)

1 box (sm) containing 4- Brathay Bay (15/10/36)

1 box (sm) containing 3- Wise Een Tarn (14/11/36)

Pisidium hibernicum Westerlund

(13)

1 box (lg) containing 19 tubes:

- 1- mud, 15 feet, Windermere (10/04/36)
- 2- Pull Wyke Swan (01/06/36)
- 3- Blelham outflow mouth (24/11/36)
- 13- Hows (Lower) Reservoir, Lake District (22/09/36)
- 2- Sandy Wyke (07/06/36)
- 1- apex of Fisherty Bay (08/06/36)
- 3- Three Dubs Tarn (24/03/37)
- 3- east bed, Waterhead Bay, Windermere (18/08/36)
- 3- Blelham outflow mouth (25/11/36)
- 2- Three Dubs Tarn (07/08/37)
- 1- Rather Heath (19/12/36)
- 1- Gale Naze (15/10/36)
- 2- west bed, Brathay Bay (20/08/36)
- 3- Bee Bay (02/12/36)
- 2- north, Brathay Bay (20/08/37)
- 2- west, Brathay Bay (15/10/36)
- 5- Fisher Tarn (18/05/37)
- 6- Bee Bay (10/08/36)
- 1- east bed, Waterhead Bay (19/08/36)

1 box (sm) containing 4- Wester Fisher Tarn (18/05/37)

1 box (sm) containing 3- Blelham outflow mouth (02/12/36)

Pisidium nitidum Jenyns

(13)

38 tubes containing:

- 4- Little Ludderburn Tarn, Lake District (11/09/36)
- 1- *Littorella* sward, Windermere (05/07/36)
- 1- Pull Wyke Swan (01/06/36)
- 6- north bed, Brathay Bay (20/08/37)
- 1- Arnside Tarn (25/03/36)
- 10- east bed, Brathay Bay (15/10/36)
- 1- School Knotts Tarn (27/06/36)
- 3- Podnet Tarn (29/11/36)
- 1- sign post fence, Windermere (10/08/36)
- 5- Nor Moss (17/09/36)
- 6- Fisherty Bay (20/08/36)
- 3- Blelham outflow mouth (25/11/36)
- 4- Lost Tarn (12/11/36)
- 4- Sea Mew Bay, Windermere (10/08/36)
- 1- Three Dubs Tarn (27/07/36)
- 5- Brathay Bay (18/08/36)
- 2- mud, 15 feet, Windermere (10/04/36)
- 2- apex of Fisherty Bay (08/06/36)
- 1- Three Dubs Tarn (07/08/37)
- 4- Whitecross Bay (06/07/36)
- 1- Wray Mires Tarn (13/11/36)
- 2- Union Bay (25/10/36)
- 4- Podnet Tarn, Lake District (11/09/36)
- 3- Blelham outflow (13/04/36)
- 18- Brathay Bar (18/08/36)
- 8- Waterhead (18/08/36)
- 5- Brathay Bay (15/10/31)
- 4- School Knotts Tarn (07/06/36)
- 1- Undermilk Beck (27/06/36)
- 2- Blelham outflow mouth (02/12/36)
- 2- Brathay mouth (17/07/36)
- 2- Great Green Hows (lower) Reservoir (23/09/36)
- 1- *Littorella* sward, Whitecross Bay (09/08/36)
- 7- Bee Bay (02/12/36)
- 2- Three Dubs Tarn (24/03/37)
- 2- Wray Mires Tarn (06/04/36)
- 6- Rather Heath (19/12/36)
- 9- Fisherty Bay (24/08/36)

1box (lg)containing 13 tubes:

- 4- Ecclerigg Bay, Windermere (04/12/36)
- 6- west bed, Gale Naze (15/10/36)
- 5- boathouse, Pull Wyke (24/11/36)
- 2- Pull Wyke Swan (10/08/36)
- 10- Rather Heath (19/12/36)
- 1- Summer Grove Tarn (27/06/36)

2- Lost Tarn (20/11/35)	
11- north bed, Blelham outflow mouth (24/11/36)	
2- west bed, Brathay Bay (20/08/36)	
1- Three Dubs Tarn (27/07/36)	
9- Whitecross Creek (06/12/36)	
11- Brathay mouth, (18/08/36)	
15- Blelham Fishpond (10/10/36)	
1 box (sm) containing 4- Fisherty Bay (08/06/36)	
1 box (sm) containing 4- Three Dubs Tarn (07/08/37)	
<i>Pisidium pulchellum</i> Jenyns	(14)
1 box (sm) containing 1- Pull Wyke Swan (10/08/36)	
1 box (sm) containing 2- Blelham outflow (13/06/36)	
<i>Pisidium moitessierianum</i> Paladilhe	(-)
no specimens	
<i>Pisidium tenuilineatum</i> Stelfox	(-)
no specimens	
<i>Pisidium vincentianum</i> B.B. Woodward	(-)
no specimens	
FAMILY: DREISSENIDAE	
<i>Dreissena polymorpha</i> (Pallas)	(14)
1 tube containing 3- Ranworth Broad, EN (09/07/51)	
1 box (sm) containing 8- canal near Weedon, North Hants (-/-/30)	
1 box (lg) containing 4- canal near Weedon, North Hants (-/-/30)	
1 box (lg) containing 4- Manchester (-/-/-)	
1 box (lg) containing 30- waterworks, Leamington Spa (-/12/39)	
unidentified spp.	(15)

3.3. ORDER: ODONATA/ DAMSELFLIES; DRAGONFLIES

Nomenclature follows that given in Merritt, R; Moore, MM; and Eversham, B.C (1996) *Atlas of the Dragonflies of Britain and Ireland*. ITE Research Publication no.9. HMSO, London.

The vernacular names of species appear in square parentheses after the scientific name(s). All specimens have last nymph cast skins except those marked with an asterisk (*).

(Box Number)

SUBORDER: ZYGOPTERA/ DAMSELFLIES

FAMILY: CALOPTERYGIDAE (=AGRIIDAE)

Calopteryx virgo (Linnaeus) (= *Agrion virgo*) [Beautiful demoiselle] (1)

1- Blelham Beck (24/7/38)

Calopteryx splendens (Harris) (= *Agrion splendens*) [Banded demoiselle] (1)

1 - River Avon, East Mills, Fordingbridge (29/05/39)

1 - Ober Water (01/06/39)

1 - Ober Water (08/06/39)

FAMILY: LESTIDAE

Lestes sponsa (Hansemann) [Emerald damselfly] (1)

1*- Goosefoot Tarn (04/08/37)

1- Clay Pond, Lake District (05/07/36)

1*- Bridgestone, WL (14/09/39)

4- Green Pool (03/08/37)

1- – (04/07/37)

1- Green Pool (04/08/37)

1- Gill Head (10/07/39)

1- Green Pool (06/08/37)

2- Nor Moss (19/07/39)

1- Nor Moss (17/07/39)

3- Nor Moss (18/06/39)

1- Clay Ponds Lakes (29/06/36)

1- Green Pool (06/08/37)

1*- Claife Heights (02/08/37)

1- Clay Pond (04/07/36)

1- Bassenthwaite Canal (-/06/41)

Lestes dryas Kirby [Scarce emerald damselfly] (-)
no specimens

FAMILY: PLATYCNEMIDIDAE

Platynemis pennipes (Pallas) [White-legged damselfly] (1)

1- Ober Water (20/06/39)

1- Ober Water (23/06/39)

- 2- Ober Water (22/06/39)
- 1- Ober Water (19/06/39)
- 1- Ober Water (06/07/39)
- 1- Ober Water (04/07/39)
- 1- Ober Water (03/07/39)
- 1- Nor Moss (19/07/39)

FAMILY: COENAGRIONIDAE (=COENAGRIIDAE)

Pyrrhosoma nymphula (Sulzer) [Large red damselfly] (2)

- 1- Wray Moss Tarn (21/05/36)
- 1- Wray Moss Tarn (25/05/36)
- 2- Wray Mires Tarn (20/05/36)
- 2- Wray Mires Tarn (25/05/36)
- 1- Clay Pond (25/05/36)
- 1- Three Dubs Tarn (22/04/38)
- 1- School Knotts Tarn (08/05/38)
- 1- Tarn Hawes, Silverdale (08/05/38)
- 1- – (14/05/38)
- 1- Slew Tarn (21/05/36)
- 1- Wray Wires Fishpond (26/05/38)
- 1- Green Pool (02/06/38)
- 1- Green Pool (20/05/38)
- 1- Green Pool (18/05/380)
- 1- Blelham Beck (28/05/38)
- 1- Blelham Beck (22/05/38)
- 1- – (06/05/38)
- 1*- Three Dubs Tarn (15/06/40)
- 1- Nor Moss Beck(14/06/40)
- 1- Blelham Beck (14/06/38)
- 1- Blelham Beck (27/05/38)
- 2*- Wray Mires Fishpond (04/07/37)
- 1- Pitchond Brook, SH (17/05/34)
- 1- Three Dubs Tarn (25/05/40)
- 1- – (04/07/37)
- 1- Three Dubs Tarn (03/05/38)
- 2*- Goosefoot Tarn (04/08/37)
- 1- – (15/02/36)
- 1- Wray Mires Tarn(18/05/36)
- 3- Blelham Beck (21/06/38)

Erythromma najas (Hansemann) (=Erythromma naias) [Red-eyed damselfly] (3)

- 4- Basingstoke Canal Aldershot (–/06/41)
- 1- Basingstoke Canal Aldershot (30/05/39)
- 1- Basingstoke Canal Aldershot (25/05/39)
- 2- Basingstoke Canal Aldershot (02/06/39)
- 1- Basingstoke Canal Aldershot (01/06/39)
- 1- Basingstoke Canal Aldershot (08/06/39)

- 2- Basingstoke Canal Aldershot (04/06/39)
 1- Basingstoke Canal Aldershot (07/06/39)
 1- Basingstoke Canal Aldershot (06/06/39)
 1- Skellingthorpe, Lincoln (24/05/47)
 1- Skellingthorpe, Lincoln (31/05/47)
 2- Skellingthorpe, Lincoln (29/05/47)
- Coenagrion mercuriale* (Charpentier) (= *Agrion mercuriale*) [Southern damselfly] (-)
 no specimens
- Coenagrion hastulatum* (Charpentier) (= *Agrion hastulatum*) [Northern damselfly] (-)
 no specimens
- Coenagrion lunulatum* (Charpentier) [Irish damselfly] (-)
 no specimens
- Coenagrion puella* (Linnaeus) (= *Agrion puella*) [Azure damselfly] (3)
 2- Belham Beck (25/05/38)
 8- Basingstoke Canal (-/06/41)
 3*- Basingstoke Canal (-/06/41)
 1- New Park Farm (04/06/39)
 1- Ox Bow, Brockenhurst (04/05/39)
 1- Ox Bow, Brockenhurst (25/05/39)
 1- Blelham Tarn (05/06/38)
 1- Rose Castle Tarn (21/05/28)
 1- Newton Barrow Dewpond (02/06/39)
 1- Ober Water (05/06/39)
 1- Ober Water (08/06/36)
 5- Clay Pond (-/06/36)
 1- Podnet Tarn? (-/06/36)
 1- Blelham Beck (29/06/37)
 2- Newton Barrow Dewpond (01/06/39)
- Coenagrion pulchellum* (Vander Linden) (= *Agrion pulchellum*) [Variable damselfly] (-)
 no specimens
- Enallagma cyathigerum* (Charpentier) [Common blue damselfly] (4)
 6- Basingstoke Canal (-/06/41)
 1- School Knotts Tarn (27/05/38)
 1- Yew Tree Tarn (25/05/38)
 1- School Knotts Tarn (20/05/38)
 1- Wray Mires Fishpond (25/05/38)
 5*- Wray Mires Fishpond (04/07/37)
 1- Pull Wyke (21/06/36)
 1- Wray Castle (24/06/37)
 1- Wray Castle (23/06/37)
 1- Slew Tarn (04/07/36)

- 1-Podnet Tarn (25/06/36)
- 1- School Knotts Tarn (03/07/36)
- 1- Yew Tree Tarn (21/05/38)
- 2- Yew Tree Tarn (24/05/38)
- 1- – (07/05/38)
- 1- – (11/05/38)
- 1- – (14/05/38)
- 1- – (18/05/38)
- 1- – (25/05/38)
- 1- Podnet Tarn (15/07/39)
- 2- Knipe Tarn (14/07/38)
- 1- Nor Moss (06/07/38)
- 1- Gill Head Reservoir (28/06/38)
- 1- Gill Head Reservoir (08/07/38)
- 1- Gill Head Reservoir (06/07/38)
- 1- Gill Head Reservoir (02/07/38)
- 1- Gill Head Reservoir (25/07/38)
- 1- School Knotts Tarn (21/05/38)
- 1- School Knotts Tarn (18/05/38)
- 1- School Knotts Tarn (24/05/38)
- 1- School Knotts Tarn (30/05/38)
- 1- School Knotts Tarn (27/05/38)
- 1- School Knotts Tarn (03/05/38)
- 1- Wray Mires Tarn (23/05/38)
- 1- Wray Mires Tarn (21/06/38)
- 2- Wray Mires Tarn (24/05/38)
- 1- Wray Mires Tarn (11/06/38)
- 1- Wray Mires Tarn (06/06/38)
- 1- Wray Mires Tarn (16/05/38)
- 1- Timberthwaite (24/05/38)
- 1- Wray Mires Fishpond (29/05/38)
- 1- New Tarn (06/07/28)
- 1- New Tarn (14/06/28)
- 1- New Tarn (02/07/28)
- 1- Arnside Tarn (15/06/38)
- 1- south bed, Blelham Lake (14/05/38)
- 1- Headley's Tarn (25/05/40)
- 1- Green Pool (02/07/38)
- 1- Wray Mires Fishpond (27/05/38)

Ischnura pumilio (Charpentier) [Scarce blue-tailed damselfly] (-)
no specimens

Ischnura elegans (Vander Linden) [Blue-tailed damselfly] (2)
1- Knittleton Lake (24/05/38)
1- Clay Pond (04/07/37)
1- Basingstoke Canal, Aldershot (24/05/39)

- 1- Basingstoke Canal, Aldershot (04/05/39)
- 1- Basingstoke Canal, Aldershot (03/06/39)
- 1*- – (06/06/40)
- 1- – (25/05/40)
- 1- Blelham Beck (19/06/37)
- 1- Blelham Beck (29/06/37)
- 1- Lindeth Tarn (06/07/38)
- 1- Little Luddleburn (04/07/39)
- 1- Clay Pond (–/06/36)
- 1- Cleabarrow Tarn (21/06/38)
- 2- Blelham Beck (20/06/37)
- 1- Blelham Beck (07/06/37)
- 1- Blelham Beck (05/06/37)
- 1- Blelham outflow bed (21/06/37)
- 2- Leighton Moss, Silverdale (06/05/38)
- 1- Leighton Moss, Silverdale (29/05/38)
- 1- Leighton Moss, Silverdale (17/05/38)
- 1- Leighton Moss, Silverdale (28/05/38)
- 1- Leighton Moss, Silverdale (23/10/38)

Ceriagrion tenellum (Villers) (=Palaeobasis tenella) (=Pyrrhosoma tenellum)
 [Small red damselfly]
 no specimens

(-)

SUBORDER: ANISOPTERA/ DRAGONFLIES

FAMILY: AESHNIDAE

- Aeshna caerulea* (Ström) (= *Aeshna caerulea*) (= *Aeshna borealis* (Zetterstedt))
[Azure hawker] (-)
no specimens
- Aeshna juncea* (Linnaeus) (= *Aeshna juncea*) [Common hawker] (5)
1- Scandale Tarn (07/05/37)
1- Clay Pond (03/08/37)
1- Clay Pond (07/08/37)
1- Clay Pond (13/08/36)
1- Green Tarn (10/07/37)
1- Wray Mires Fishpond (31/07/37)
1- - (-/-/-)
- Aeshna mixta* Latreille (= *Aeshna mixata*) [Migrant hawker] (6)
1- Basingstoke Canal (19/07/41)
1- Basingstoke Canal (06/07/48)
1- Basingstoke Canal (15/08/41)
1- Basingstoke Canal (10/08/41)
1- Basingstoke Canal (30/07/41)
- Aeshna cyanea* (Müller) (= *Aeshna cyanea*) [Southern hawker] (5)
1- High Pools; Scandale Tarn; or Clay Pond (12/07/37)
1- Brathay Quarries (28/06/36)
1- Clay Pond? (26/07/37)
- Aeshna grandis* (Linnaeus) (= *Aeshna grandis*) [Brown hawker] (6)
1- Basingstoke Canal (14/07/41)
1- Basingstoke Canal (02/08/41)
2- Basingstoke Canal (27/07/41)
- Aeshna isosceles* (Müller) (= *Anaciaeschna isosceles*) (= *Aeshna isosceles*) [Norfolk hawker] (-)
no specimens
- Anax imperator* Leach [Emperor dragonfly] (6)
1- Basingstoke Canal (-/06/41)
1- Basingstoke Canal (-/06/41)
1- Dewpond (02/07/39)
1- Dewpond (06/07/39)
1- Dewpond (22/06/39)
- Brachytron pratense* (Müller) [Hairy dragonfly] (5)
1- Quy Fen (12/05/40)
1- Green Pool (22/08/37)

FAMILY: GOMPHIDAE

Gomphus vulgatissimus (Linnaeus) [Club-tailed dragonfly] (-)
no specimens

FAMILY: CORDULEGASTRIDAE (=CORDULEGASTERIDAE)

Cordulegaster boltonii (Donovan) (= *Cordulegaster boltoni*) (= *Cordulegaster annulatus* (Latreille)) [Golden-ringed dragonfly] (5)

1*- Blelham Beck (01/08/37)

1*- Langdale (-/07/40)

1- Blelham Beck (28/05/38)

FAMILY: CORDULIIDAE

Cordulia aenea (Linnaeus) (= *Cordulia linaenea* Fraser) [Downy emerald] (6)

1*- Wray Castle Lodge (05/06/40)

1- Hodson's Tarn (23/05/56)

1- Wray Mires Fishpond (20/05/38)

Somatochlora metallica (Vander Linden) (= *Cordulia metallica*) [Brilliant emerald] (-)
no specimens

Somatochlora arctica (Zetterstedt) (= *Cordulia arctica*) [Northern emerald] (-)
no specimens

FAMILY: LIBELLULIDAE

Libellula quadrimaculata Linnaeus [Four-spotted chaser] (7)

1- Green Pool (08/06/38)

1- Green Pool (02/07/38)

1- - (-/-/-)

1- Green Pool (14/06/38)

1- Bridgestone (21/07/37)

1- Basingstoke Canal (26/07/41)

3- Basingstoke Canal (-/06/41)

1- Basingstoke Canal (31/05/39)

1- - (-/08/40)

1- Nor Moss (05/06/40)

Libellula fulva Müller [Scarce chaser] (-)
no specimens

Libellula depressa Linnaeus [Broad-bodied chaser] (-)
no specimens

Orthetrum cancellatum (Linnaeus) [Black-tailed skimmer] (-)
no specimens

- Orthetrum coerulescens* (Fabricius) (= *Orthetrum caerulescens*) [Keeled skimmer] (-)
no specimens
- Sympetrum striolatum* (Charpentier) [Common darter] (7)
1- Littlesea, Studland (21/07/36)
2- Littlesea, Studland (16/07/36)
- Sympetrum nigrescens* Lucas (= *Sympetrum striolatum* ssp.) (= *S. nigrifemur* Longfield, nec Sélys-Longchamps) [Highland darter] (-)
no specimens
(NB: The specific distinctiveness of this taxon from *S. striolatum* is still unresolved.
- Sympetrum sanguineum* (Müller) [Ruddy darter] (-)
no specimens
- Sympetrum danae* (Sulzer) (= *Sympetrum scoticum* (Donovan)) [Black darter] (7 & 8)
1- Three Dubs Tarn (16/07/38) (7)
1- Three Dubs Tarn (14/08/36)
1- Undermilk Beck (12/08/36)
1- Three Dubs Tarn (16/08/38)
1- Wray Mires Fishpond (18/08/37)
1*- Claife Heights (02/08/37)
1- Wray Mires Fishpond (11/08/37)
1- Three Dubs Tarn (14/08/38) (8)
1- Three Dubs Tarn (13/08/38)
1- Three Dubs Tarn (16/08/38)
1*- Claife Heights (02/08/37)
1*- Blelham Beck (01/07/37)
1- Wray Mires Fishpond (12/08/37)
1- – (–/–/–)
- Leucorrhinia dubia* (Vander Linden) [White-faced dragonfly] (8)
1- Green Tarn (04/07/37)
1- Green Pool (28/05/40)
1- Green Pool (22/05/40)
1- Green Pool (18/07/40)

WATER BUGS /ORDER:HEMIPTERA- HETEROPTERA

Nomenclature follows that given in Savage, A.A (1989) *Adults of the British Aquatic Hemiptera Heteroptera*. Scient. Publs Freshwat. biol. Ass. No. 50. F.B.A., Ambleside.

(NB: Genera and subgenera are not used in Savage's key, however, they have been included here since the collection is old. (ss. = subspecies; sg. = subgenus)

(Box Number)

FAMILY: MESOVELIIDAE

- Mesovelia furcata* Mulsant & Rey (1 & 7)
1- Basingstoke Canal (18/07/41) (1)
1- Basingstoke Canal (12/10/41)
1- Basingstoke Canal (18/07/41) (7)

FAMILY: HEBRIDAE

- Hebrus* (= *Naeogeus*) *pusillus* (Fallén) (-)
no specimens
- Hebrus* (= *Naeogeus*) *ruficeps* (Thomson) (-)
no specimens

FAMILY: HYDROMETRIDAE

- Hydrometra gracilentata* Horvath (-)
no specimens
- Hydrometra stagnorum* (Linnaeus) (1 & 7)
1- – (–/–/–) (1)
1- Queen's Fen, Cambridge (11/10/34)
2- Chesterton Fen (11/05/40)
3- Ditchend Brook, New Forest (03/05/39)
2- ditch, Clayhithe (13/05/40)
2- Quy 15 (12/05/40)
1- Ober Water, New Forest (29/04/39)
1- Chesterton Fen (11/05/40) (7)
2- Welwyn (22/10/40)

FAMILY: VELIIDAE

- Velia caprai* Tamanini (= *currens*: auct., nec (Fabricius)) (1 & 7)
1- Commissioner's Drain, Bottingham Fell, CB (11/10/34) (1)
1- Ditchend Brook, New Forest (03/05/39)
1- High Wray Beck (–/04/33)
1- Consett, SN (06-07/09/54)
1- Consett, SN (06-07/09/54) (7)
1- – (05/10/55)

<i>Velia saulii</i> Tamanini	(1 & 7)
2- – (05/10/55) (1)	
4- Consett, SN (06-07/09/54)	
3- Consett Iron Works (–/04/56)	
2- Consett Iron Works (–/04/56)	(7)
1- Consett (06-07/09/54)	
2- – (05/10/55)	
+ <i>Velia</i> spp. nymphs	(1)
2- Chesterton Ballast (11/05/40)	
FAMILY: MICROVELIINAE	
<i>Microvelia pygmaea</i> (Dufour)	(-)
no specimens	
<i>Microvelia reticulata</i> (Burmeister) (= <i>M. schneideri</i> (Scholtz)) (= <i>M. pygmaea</i> : Douglas & Scott, Saunders, nec (Dufour))	
	(1 & 7)
17- Madingley Brick Pits, CB (08/05/40)	(1)
1- Madingley Brick Pits, CB (23/04/33)	
2- Quy 15 (12/05/40)	
1- Wicken Pocr's Fen (09/05/40)	
4- Chesterton Fen (11/05/40)	
2- Robinson's Tarn (03/07/40)	
1- Robinson's Tarn (06/04/36)	
5- Chesterton Ballast Pits (11/05/40)	
1- Windmill Ditch, Wicken Fen (09/05/40)	
5- Sweden (06/08/39)	
2- – (–/–/–)	
3- Sveti Naum, Yugoslavia (10/09/35)	
2- Struga Marsh, Yugoslavia (09/09/35)	
1- L. Petrsko, Greece (03/09/35)	
5- Madingley Brick Pits (08/05/40)	(7)
4- Quy 15, CB (12/05/40)	
1- Chesterton Ballast Pits, CB (11/05/40)	
<i>Microvelia buenoi</i> Drake (=ss. <i>umbricola</i> Wróblewski)	
	(1 & 7)
1- Windmill Ditch, Wicken Fen (09/04/40)	(1)
1- Windmill Ditch, Wicken Fen (09/05/40)	(7)
1- Wicken Poor's Fen (09/05/40)	
FAMILY: GERRIDAE	
<i>Gerris costai</i> (Herrich- Schäffer)(= ss. <i>poissoni</i> Wagner & Zimmerman)	(2 & 7)
2- Schidegg, Switzerland (24/08/48)	(2)
1- Handa Island, NS (22/05/52)	
1- peat cutting at point 861941, RW (18/05/52)	
2- Schidegg, Switzerland (24/08/48)	(7)

1- Grizedale, Lake District (03/11/35)

Gerris lateralis Schummel (*ss. asper* Fieber)

(2 & 7)

1- (*ss.asper*) Ennerdale inflow, Delta Pond, CU (12/04/47)

(2)

4- carr, Blelham outflow (10/09/40)

2- carr, Blelham outflow (15/07/40)

1- (*ss.asper*) Ennerdale inflow, Delta Pond, CU (12/04/47)

(7)

Gerris thoracicus Schummel

(7)

2- Afon Cefni (20/07/47)

Gerris gibbifer Schummel

(7)

1- Bridgestone, WL (-/05/37)

1-Claife Heights, Lake District (-/04/33)

Gerris argentatus Schummel

(2 & 7)

1- Aneboda, Sweden (06/08/39)

(2)

3- Blelham outflow bed (10/06/37)

1- Sveti Naum, Yugoslavia (10/09/35)

2- L. Freyen, Sweden (06/08/39)

(7)

Gerris lacustris (Linnaeus)

(2 & 7)

4- Esthwaite (08/05/37)

(2)

7- Three Dubs Tarn (02/05/37)

3- Bridgestone, WL (-/05/37)

2- carr, Blelham outflow (23/06/39)

1- Bassenthwaite inflow bed (18/08/37)

1- pool near Loch Maree (15/05/52)

4- Madingley Brick Pits (23/04/53)

1- Blelham Beck (-/04/33)

2- Clay Pond (-/04/33)

4- cam 6, CB (23/04/33)

3- Ox Bow, Queen's Bower, New Forest (29/04/39)

2- Ober Water (29/04/39)

5- Jordan's Pool, BX (22/05/39)

6- Ditchend Brook (03/05/39)

3- Docken's Marsh, New Forest (17/05/39)

2- Invercrew Gardens, RW (19/05/52)

4- Wellington College Lakes, BK (-/06/39)

2- Newton Barrow, Dewpoint, SH (10/05/39)

7- Basingstoke Canal, Aldershot, NH (-/6/39)

5- R. Avon, Fordingbridge, SH (-/05/39)

1- L. Fiolen, Sweden (06/08/39)

3- Ohrid 2, Yugoslavia (09/09/35)

1- L.Freyen, Sweden (06/08/39)

4- Aneboda, Sweden (06/08/39)

2- R. Avon, Fordingbridge, SH (-/05/39)

(7)

2- Ditchend Brook, New Forest, SH (03/05/39)

Gerris odontogaster (Zetterstedt) (2 & 7)
1- High Wray Bay, Windermere (14/04/42) (2)
1- Black Beck Moss (25/09/40)
1- Tarn Hawes, Silverdale (23/04/40)
1- L.Fiolen, Sweden (06/08/39)
5- Nor Moss (-/04/33)
1- Aneboda Sweden (06/08/39) (7)
2- L. Fiolen, Sweden (06/08/39)

Gerris najas (DeGeer) (2 & 7)
4- L. Fiolen, Sweden (06/08/39) (2)
2- Aneboda, Sweden (06/08/39)
5- boathouse, Wray Castle (-/04/33)
1- Ober Water, New Forest (29/04/39)
2- Blelham Beck (-/08/37)
1- Wray Castle Boathouse (11/07/39) (7)

Gerris paludum (Fabricius) (2 & 7)
3- Wellington College Lakes (-/06/39) (2)
3- Basingstoke Canal (07/09/41)
1- Basingstoke Canal (07/09/41) (7)
1- Wellington College Lakes (-/06/39)

Limnopus rufoscutellatus (Latreille) (2 & 7)
1- Aneboda, Sweden (06/08/39) (2)
1- L. Fiolen, Sweden (06/08/39)
1- Aneboda, Sweden (06/08/39) (7)

FAMILY: NEPIDAE

Nepa cinerea Linnaeus (7)
1- High Wray Bay, Windermere (-/04/23)

Ranatra linearis (Linnaeus) (-)
no specimens

FAMILY: NAUCORIDAE

Ilycoris cimicoides (Linnaeus) (1 & 7)
1- Basingstoke Canal (14/11/41) (1)
1- Madingley Brick Pits, CB (-/-/-)
1- - (28/07/40)
1- Gerrad's Cross (28/05/39)
1- Littlesea, (16/04/37)
2- Gerrad's Cross (28/05/39) (7)

FAMILY: APHELOCHEIRIDAE

- Aphelocheirus aestivalis* (Fabricius) (7)
 1- Tyrell's Ford, R. Avon (22/05/39)
 1- Somerset (-/10/36)

FAMILY: NOTONECTIDAE

- Notonecta glauca* Linnaeus (1 & 7)
 4- east bed, Blelham outflow mouth (21/12/36) (1)
 3- Blelham outflow (04/10/35)
 2- west bed, Blelham outflow mouth (24/11/36)
 3- L. Tåkern, Sweden (09/08/39)
 1- Rather Heath (29/11/35)
 3- Rather Heath (19/12/36)
 1- Quy 2, CB (11/10/34)
 1- Slew Tarn (01/01/37)
 2- Butterby Marsh (07/07/48)
 2- Loughrigg Tarn, Lake District (16/10/35)
 1- Basingstoke Canal (14/11/38)
 1- Welwyn (22/10/40)
 2- Brathay Quarries (06/04/36)
 1- Ashwell, Herts. (08/02/34)
 1- Swaffham Bulbeck (14/01/36)
 1- King's College Fountain, CB (-/05/33)
 1- Key Moss, North Lancs. (18/07/35)
 1- Foulshaw, North Lancs. (18/12/35)
 1- Clay Pond (09/11/35)
 1- Knittleton (15/12/35)
 2- Commissioner's Drain, Botttisham Fen, CB (11/10/34)
 2- Cambridge (21/10/34)
 1- Struga Marsh, Yugoslavia (14/09/36)
 1- Cam 4, Cambridge (20/10/34) (7)
 1- Loughrigg Tarn, Lake District (16/10/35)
 1- Loughrigg Tarn, Lake District (25/03/36)

- Notonecta marmorea* Fabricius (= *ss.viridis* Delcourt) (= *halophila* Edwards) (1 & 7)
 1- South Haven Peninsula (-/04/37) (1)
 1- Janesmoor, New Forest (23/04/39)
 1- Kingston Seymour Ditch (08/02/36) (7)

- Notonecta obliqua* Gallen (= *furcata* Fabricius) (1 & 7)
 1- Undermill Beck (17/10/36) (1)
 10- Clay Pond (09/11/35)
 1- R. Blackwater (25/10/41)
 3- Loughrigg (13/10/35)
 1- Black Beck Moss, WL (25/11/40)
 1- Stephen How, Lake District (25/03/36)

4- Dewpond Devizes (-/-/39)	
1- Dewpond Devizes (-/-/39)	(7)
1- Loughrigg 6, Lake District (21/01/36)	
1- Clay Pond, Lake District (09/11/35)	
<i>Notonecta maculata</i> Fabricius	(1 & 7)
2- Dewpond Devizes (-/-/39)	(1)
1-Dewpond Devizes (-/-/39)	(7)
+ <i>Notonecta lutea</i> (Müller)	(1)
4- L. Tåkern, Sweden (09/08/39)	
FAMILY: PLEIDAE	
<i>Plea leachi</i> (McGregor & Kirkaldy)	
(= <i>atomaria</i> (Pallas)) (= <i>minutissima</i> (Füssly) nec (Linnaeus))	(1 & 7)
2- Littlesea (18/04/37)	(1)
4- – (16/04/36)	
1- – (-/-/-)	
4- Quy 8, CB (14/07/35)	
1- Cambridge (-/-/-)	
2- Madingley, CB (06/10/34)	
3- Newton Barrow Dewpond (10/05/39)	(7)
FAMILY: CORIXIDAE	
<i>Micronecta scholtzi</i> (Fieber)(= <i>meridionalis</i> (Costa))	(-)
no specimens	
<i>Micronecta minutissima</i> (Linnaeus)	(-)
no specimens	
<i>Micronecta poweri</i> (Douglas & Scott) (= <i>minutissima</i> auct. Brit., nec (Linnaeus))	(-)
no specimens	
<i>Cymatia bondsdorffii</i> (Sahlberg, C.)	(3, 4 & 7)
14- Littlesea (16/04/37)	(3)
8- Rather Heath (29/11/35)	
1- Slew Tarn (-/06/37)	
3- Podnet Tarn (20/02/36)	(4)
1- Slew Tarn (03/02/30)	
10- Littlesea, Studland (16/06/36)	
8- Old Decoy Pond, Wareham Heath (11/06/36)	
1- Wray Mires Tarn (15/03/36)	
1- Loch Barnluasgan (05/10/37)	
7- Little Luddlesburn Tarn (29/02/36)	
5- Rather Heath (29/11/35)	
2- Crook Reservoir (02/03/36)	
1- rifle range, CB (-/05/31)	

1- Slew Tarn (06/04/36)
 1- Lindeth Tarn (06/12/35)
 2- New Tarn (06/12/35)
 1- Lost Tarn (20/11/35)
 4- Komosse, Sweden (08/08/39)
 3- Slew Tarn (-/06/37)
 2- New Tarn (06/12/35) (7)
 2- Rather Tarn (29/11/35)
 2- Littlesea (16/04/37)

Cymatia coleoprata (Fabricius) (ss. *insularis* Walton) (3 & 7)
 5- — (-/-/-) (3)
 11- Quy 8 (14/07/35)
 1- Chesterton (03/02/24)
 3- Littlesea (18/04/37)
 3- Littlesea (16/04/36)
 1- shingle street, ES (19/05/54) (7)
 + *Cymatia rosenhofen* (5)
 5- Lednice (-/-/55)

Glaenocorisa propinqua (Fieber) (ss. *propinqua* (Fieber))(ss.*cavifrons* (Thomson))(= *alpestris* (Douglas & Scott)) (= *quadrata* Whalley) (3, 4 & 7)
 2- Loch Kinardochy, Perth (09/10/38) (3)
 22- Long Newton Reservoir (15/12/36)
 6- Long Newton Reservoir (30/01/39)
 1- Handa, NS (22/05/52)
 1- Hodson's Tarn (06/11/53) (4)
 1- Brackenbet Tarn (03/07/36)
 1- Brackenbet Tarn (10/11/31)
 3- Brackenbet Tarn (03/07/36) (7)
 2- Great Rundale Tarn (15/09/47)
 1- reservoir, Lancs (-/-/64)

Callicorixa praeusta (Fieber)(= *wollastoni*: (Saunders) nec (Douglas & Scott)) (3, 4 & 7)
 5- High Man Tarn (09/03/36) (3)
 2- Neilson Hot Blast (15/08/36)
 1- Loch Leven, Kinross (06/10/38)
 2- Loch Kinardochy, Perth (09/10/38)
 1- Upper Great Dodd (04/10/36)
 1- Bateman Folds (07/03/36)
 4- King's College Fountain (17/07/37)
 1- Swaffham Bulbeck, CB (17/01/37)
 4- Moine Mohr (14/10/37)
 1- Loch Barnloasgan (15/10/37)

- 4- Littlesea (18/04/37)
- 2- Long Newton Reservoir (30/01/39)
- 4- Slew Tarn (06/04/36)
- 8- Barrow Plantation (07/03/36)
- 2- Barrow Plantation (06/12/35)
- 1- Lindeth Tarn (06/12/35)
- 7- Caldecote (15/03/31) (4)
- 1- Madingley Brick Pits (-/05/32)
- 2- Podnet Tarn (20/02/36)
- 1- Rose Castle Tarn (19/02/36)
- 1- Lindeth Tarn (06/12/35)
- 1- Clay Pond (09/11/35)
- 2- Key Moss (18/12/35)
- 1- Longcross, New Forest (18/05/39)
- 1- Moine Mohr (14/10/37)
- 1- Chesterton (03/02/34)
- 1- Quay 8 (14/06/35)
- 1- Loch Leven (06/10/36)
- 2- R. Blackwater (21/10/41)
- 1- L. Et. Dodd (04/10/36)
- 2- Green Hows Plantation (23/09/36)
- 2- Rampstead Quarry (06/09/36)
- 1- Littlesea (18/04/37)
- 1- Upper Great Dodd (04/10/36)
- 2- Little Luddlesburn Tarn (11/10/36)
- 1- Welwyn 6, HT (25/10/40)
- 2- at point 257574, CA (27/05/52)
- 1- Idre 5, Sweden (17/08/39)
- 2- Vättern Pool, Sweden (09/08/49)
- 4- Vättern Pool, Sweden (09/08/39)
- 4- Loch of Skene (19/07/55)
- 1- Bowscale (25/11/35)
- 2- Podnet Tarn, WL (20/02/37) (7)
- 1- Key Moss, WL (18/07/35)
- 1- New Tarn, WL (06/07/35)
- 1- Green Hows Plantation, Lake District (23/09/36)
- 1- High Man Tarn (19/03/36)

Callicorixa wollastoni (Douglas & Scott) (= *cognata*: (Douglas & Scott) nec (Fieber))
 (= *caledonica* (Kirkaldy)) (3, 4 & 7)

- 1- Cruac Lussac (16/10/37) (3)
- 4- Loch Kinardochy, Perth (09/10/38)
- 5- Meall Sgallachd, Perth (09/10/38)
- 10- Scandale Tarn (06/10/35)
- 5- Stonisty, WL (22/10/35)
- 10- Idre 2, Sweden (16/08/39)
- 7- Idre 6- Sweden (17/08/39)

- 6- Moine Mohr (14/10/37)
 1- Ponden Reservoir, Keighley (--/05/37)
 2- Killin Reservoir, Perth (08/10/38)
 9- Langdale (20/10/35)
 8- Loch Leven, Kinross (06/10/38)
 2- Overlooked Moss, WL (22/03/36)
 7- Bowscale (25/11/35) (4)
 15- Scandale (24/11/35)
 1- Lost Tarn (20/11/35)
 1- Idre 5, Sweden (17/08/38)
 7- Brackenbet Tarn, Cumberland (03/07/36)
 2- Clay Pond (09/11/35)
 8- Langdale (20/10/35)
 1- Grisedale (02/11/35)
 8- Scandale (06/10/35)
 8- Stonisty (22/10/35)
 7- Ulpha 3, Lake District (21/09/36)
 2- Upper Great Dodd (04/10/36)
 3- Scandale (06/10/35)
 3- Cruac Lussac (16/10/37)
 1- Cold Barrow (21/10/35)
 1- Blea Tarn (21/10/35)
 4- Moine Mohr (14/10/37)
 1- Crinkle C---- (22/10/35)
 1- Meall Sgallachd (10/10/38)
 7- Brackenbet Tarn (10/09/36)
 5- Brackenbet Tarn (27/11/36)
 2- Three Tarns (10/10/37)
 2- Meall Sgallachd, Perth (09/10/38)
 1- Kinardochoy Pool, Perth (09/10/38)
 9- Dutton Fell (15/09/47)
 2- — (-/-/-)
 1- Long Loch, CA (26/05/52)
 2- Handa L., NS (22/05/52)
 3- Scandale, WL (24/11/35) (7)
 1- Brackenbet Tarn (03/07/36)
 1- Brackenbet Tarn (10/11/36)
 1- Ulpha, Lake District (21/09/36)
- Corixa dentipes* (Thomson) (3)
 1- Helton Lake (10/04/38)
 1- School Knotts Tarn (07/03/36)
- Corixa punctata* (Illiger) (= *geoffroyi* Leach) (3, 5 & 7)
 2- Moine Mohr (14/10/37) (3)
 1- Swaffham Bulbeck (04/01/36)

1- Clavo Marsh (01/12/35)	
1- M.... Marsh (13/12/35)	
1- Caldecote (07/02/31)	
5- Dewpond 2, Salsbury Plain (11/06/36)	
1- Clay Pond (09/11/35)	
1- Madingley Brick Pits (--/05/32)	(5)
1- King's College Fountain, CB (06/09/34)	
8- King's College Fountain, CB (11/03/35)	
1- Longcross, New Forest (18/05/39)	
5- Swaffham Bulbeck (04/01/36)	
1- Mickle 5 (18/04/39)	
2- Long Newton Reservoir (30/01/39)	
1- Janesmoor, New Forest (23/05/39)	
1- Havelly Bridge Gravel Pits (-/-/-)	
2- King's College Fountain, Cambridge (06/11/34)	(7)
<i>Corixa iberica</i> Jansson	(-)
no specimens	
<i>Corixa affinis</i> Leach	(3, 5 & 7)
2- — (-/-/-)	(3)
1- Gins 3, Beaulieu (20/04/37)	
1- L. Pelrko, Greece (03/04/35)	(5)
1- L. Prespa, Yugoslavia (05/04/35)	
1- Marloes P. (-/08/35)	(7)
<i>Corixa panzeri</i> (Fieber)	(3, 5 & 7)
3- — (-/-/-)	(3)
2- Dewpond 2, Salsbury Plain (11/06/36)	
6- Leighton Moss (18/09/67)	(5)
1- Leighton Moss (18/09/67)	(7)
<i>Hesperocorixa linnaei</i> (Fieber)	(3, 5 & 7)
1- Rather Heath (29/11/35)	(3)
3- Lindeth Tarn (06/12/39)	
1- Lost Tarn (20/11/35)	
7- Rose Castle Tarn (19/02/36)	
4- Littlesea (18/04/37)	
2- Quy 2 (11/10/34)	
1- Cam 4 (20/10/34)	
2- Swaffham Bulbeck (04/01/36)	
3- King's College Fountain (09/05/33)	(5)
1- Madingley Brick Pits (06/10/34)	
2- Bottisham Fen (11/10/34)	
1- Queen's Fen (11/10/34)	
2- Cam 4 (20/10/34)	
4- Newmarket (21/10/39)	

- 1- Quy 6, CB (18/11/34)
- 1- Swaffham Bulbeck (09/12/34)
- 3- Rose Castle Tarn (19/02/36)
- 3- Rather Heath (29/09/35)
- 1- Cleabarrow Tarn (17/10/35)
- 1- R. Blackwater (25/11/41)
- 1- School Knotts Tarn (07/03/36)
- 2- Lost Tarn (20/11/35)
- 4- Slew Tarn (06/04/36) (7)
- 1- Lost Tarn (20/10/35)
- 3- Swaffham Bulbeck (17/01/37)
- 1- Littlesea (18/04/37)

Hesperocorixa sahlbergi (Fieber) (3, 5 & 7)

- 7- Alderswamp, Easthamstead (23/04/37) (3)
- 1- Moine Mohr (14/10/37)
- 1- Tarn Hawes (23/04/38)
- 1- Cam 6 (20/10/34)
- 4- Littlesea (18/04/37)
- 5- Neilson Hot Blast (15/08/38)
- 8- Brathay Quarries (06/04/36)
- 2- Lindeth Tarn (06/07/35)
- 1- Lacer Tarn (03/02/36)
- 1- Slew Tarn (03/03/36)
- 1- Little Loughrigg (26/03/36)
- 1- Barrow Plantation (07/03/36)
- 6- Newmarket (21/10/34) (5)
- 5- Cam 4 (20/10/34)
- 3- Cam 6 (20/10/34)
- 1- King's College, CB (04/03/35)
- 2- ditch, Queen's Fen (11/10/34)
- 3- King's College Fountain (09/05/33)
- 1- King's College Fountain (04/05/33)
- 3- King's College Fountain (11/03/35)
- 2- Swaffham Bulbeck (17/01/37)
- 1- Little Loughrigg (26/03/36)
- 1- Brathay Quarries (05/10/35)
- 2- Foulshaw, WL (18/12/35)
- 2- Barngates Quarry, WL (06/09/38)
- 1- Longtown Reservoir, Teesdale (-/08/38)
- 1- Brathay Quarries (06/04/36)
- 1- Ramstead Quarry (06/09/38)
- 1- Cleabarrow Tarn (17/10/35)
- 1- - (-/-/-)
- 1- Outgate Quarry, WL (23/09/36) (7)
- 2- Cam 4, CB (20/10/36)
- 1- Newmarket, CB (21/10/34)

1- Little Loughrigg (20/03/36)

Hesperocorixa castanea (Thomson)

(3, 5 & 7)

10- Green Tarn (03/10/35)

(3)

2- Littlesea (16/04/37)

8- Crook (02/03/36)

6- Neilson Hot Blast (15/08/38)

1- Moine Mohr (-/-/-)

10- Pottery Pits, Wareham Heath (12/06/36)

10- Undermill Beck (17/10/35)

3- Bateman Fold (07/03/36)

2- Lacer Tarn (30/01/36)

1- Loughrigg (30/01/36)

2- Tom Heights (23/02/36)

10- Green Tarn (03/10/35)

16- Green Tarn (12/01/35)

(5)

2- Green Tarn (02/04/36)

68- Green Tarn (03/10/35)

5- Tongue Tarn (25/02/36)

4- Gillhead Fishpond (20/02/36)

1- Wharton Tarn (23/02/36)

4- Barngates Quarry (01/04/36)

18- School Knotts Tarn (07/03/36)

4- Lost Tarn (20/03/36)

3- Birket Houses Pool (29/02/36)

3- Wray Mires Tarn (15/03/36)

29- Undermill Beck (17/10/35)

2- Loughrigg (16/10/35)

4- Crook (02/03/36)

9- Pottery Pits (12/06/36)

1- Barngates Quarry (06/09/38)

1- Rampstead Quarry (06/09/38)

23- Loughrigg (13/10/35)

1- — (-/-/-)

9- Undermill Beck (06/12/35)

5- Lingmoor Tarn (11/12/35)

9- Kirby Quarries (15/12/35)

2- Coldbarrow (21/10/35)

9- Rather Heath (29/11/35)

1- Blelham Fishpond (05/10/35)

5- Whitemoss Reservoir (27/11/35)

1- Lost Tarn (20/11/35)

4- Lindeth Tarn (06/12/35)

15- Knittleton (15/07/35)

1- Slew Tarn (03/02/36)

9- Loughrigg (30/01/36)

1- Innominate Pool, CB (04/01/36)

- 4- Tarn Hows (19/02/36)
3- Lacer Tarn (30/01/36)
1- Longcross, New Forest (18/05/39)
3- Tom Heights (19/02/36)
4- Tom Heights (23/02/36)
1- Gillhead Reservoir (20/02/36)
6- Robinson's Tarn (06/04/36)
3- Rose Castle Tarn, WL (19/02/36)
2- Barrow Plant 2 (07/03/36)
1- Rulbats Tarn (29/02/36)
3- Old Decoy Pond, Wareham Heath (11/06/36)
6- Littlesea (16/04/39)
1- Moss Eccles (02/04/36)
2- Wray Mires Tarn (15/03/36)
3- R. Blackwater, SR (25/11/41)
1- Green Hows Plantation (23/09/36)
1- Scandale Tarn (06/10/35)
3- Bodmin Moor, Cornwall (17/01/37)
4- Bodmin Moor, Cornwall (28/12/36)
2- pool near Borralan, NS (20/05/52)
6- Rhos Hirwaen (21/07/47)
4- Crook Reservoir, WL (02/03/36) (7)
2- Rose Castle Tarn
- Hesperocorixa moesta* (Fieber) (3)
3- R. Misborne (-/09/47)
3- Dewpond, Sailsbury (23/04/39)
1- - (-/-/-)
- Arctocorisa carinata* (Sahlberg, C.) (3 & 7)
1- Great Rundale Tarn, Cumberland (03/07/36) (3)
1- Scandale (27/05/36)
1- Scandale (24/11/36)
3- Dutton Fell (15/09/36)
2- Dutton Fell, WL (15/09/47) (7)
- Arctocorisa germari* (Fieber) (3, 4 & 7)
6- Long Newton Reservoir (30/01/39) (3)
13- Moine Mohr (14/10/37)
15- Loch Kinardochy, Perth (09/10/38)
2- Long Newton Reservoir (-/08/38)
4- Long Newton Reservoir (15/12/38)
5- Dewpond, Cressbrookdale, DY (03/07/46) (4)
2- Highman Tarn (11/03/36)
5- Brachtonber Tarn, Cumberland (03/07/36)
4- Ponden Reservoir, Keighley (-/05/37)
3- Long Loch (27/05/52)

- 1- Fermund, Norway (17/07/39)
- 1- Wise Een Tarn (13/11/36)
- 1- Bractonber Tarn, Cumberland (27/11/36)
- 4- Long Newton Reservoir (30/01/39)
- 2- Moine Mohr (14/10/37)
- 1- Highman Tarn (19/03/36)
- 1- Longcross (18/05/39)
- 3- Great Rundale Tarn (15/09/47)
- 3- Loch Helin (27/05/52)
- 5- L. Neagh Lady (31/07/51)
- 5- Handa (22/05/52)
- 1- L. Arrow (02/08/51)
- 5- L. Gill (02/08/51)
- 7- Loch of Skene (19/07/55)
- 11- L. Arrow (02/07/51)
- 3- L. Neagh (31/07/51)
- 2- Janesmoor, New Forest, SH (23/04/39) (7)
- 3- South Bay, L. Gill (02/08/51)
- 2- Lady bay, L. Neagh, AN (31/07/51)
- 1- Ponden Reservoir, Keighley, MY (-/05/37)
- 1- Loch of Skene, AS (19/07/65)

- Sigara dorsalis* (Leach) (= *striata*: auct. Brit. nec (Linnaeus)) (= *lacustris* (Macan)) (5 & 7)
- 8- Swaffham Lode, CB (04/01/36) (5)
 - 2- R. Avon, Ringwood (07/12/35)
 - 4- Swaffham Bulbeck, CB (09/12/34)
 - 4- Chesterton 2 (03/09/34)
 - 5- Innominate Pool, CB (04/01/36)
 - 3- Quy 2, CB (11/10/34)
 - 2- Swaffham Bulbeck (04/01/36)
 - 4- Blelham outflow, Windermere (09/01/35)
 - 10- Elterwater (26/02/36)
 - 4- Blelham Fishpond (23/02/36)
 - 3- Grasmere (06/02/36)
 - 4- Little Langdale Tarn (25/02/36)
 - 2- Blelham outflow (13/04/36)
 - 9- Welwyn (22/10/40)
 - 4- Knipe Tarn (28/09/36)
 - 2- L. Aigel (21/05/52)
 - 2- Kirby Quarries (15/12/35)
 - 1- Key Moss (18/12/35)
 - 5- Blelham outflow (04/10/35)
 - 1- Blelham outflow mouth (10/11/35)
 - 1- Barrow Plant (07/03/36)
 - 8- Blelham Lake (18/03/36)
 - 1- Brine Spring Farm, Southam (-/06/37)
 - 1- Ponden Reservoir, Keighley (-/05/37)

- 1- Harrop Tarn (21/10/35)
- 1- Madingley Brick Pits (23/04/33)
- 1- Blelham outflow (-/-/35)
- 2- Blelham Fishpond (05/10/35)
- 1- Loughrigg Tarn (16/10/35)
- 1- Newton Marsh (01/12/35)
- 1- Slew Tarn (06/04/36)
- 2- Esthwaite (12/03/36)
- 1- R. Blackwater (25/11/41)
- 2- Ennerdale (09/04/36)
- 1- Blelham outflow (-/ 04/33)
- 2- Innominate pool, CB (04/01/36) (7)
- 1- Elterwater, WL (26/02/36)
- 1- Gillhead Fishpond (30/02/36)

- Sigara striata* (Linnaeus) (3, 5 & 7)
- 20- Harrop Tarn (21/10/35) (3)
 - 21- Blelham outflow (04/10/35)
 - 3- Loughrigg Tarn (16/10/35)
 - 10- Loch Leven, Kinross (06/10/38)
 - 2- ditch, Kiels (17/10/37)
 - 1- Esthwaite (12/03/36)
 - 2- Key Moss (18/12/35)
 - 1- Knipe Tarn (01/12/35)
 - 1- Newton Marsh (01/12/35)
 - 3- Rye (29/04/50) (5)
 - 2- L. Tåkern, Sweden (07/09/39)
 - 10- Esrom, Denmark (30/08/50)
 - 2- Esrom (29/08/50)
 - 1- Esrom (31/08/50)
 - 1- Big Calf (-/09/50)
 - 3- Vejle Sø (09/09/50)
 - 2- Esrom 14,Denmark (28/07/57) (7)

- Sigara* (sg. *Subsigara*) *distincta* (Fieber) (= *douglasi* (Fieber)) (3, 6 & 7)
- 10- Clay Pond (02/10/35) (3)
 - 10- Slew Tarn (06/04/36)
 - 9- L. Barnloasgan (15/10/37)
 - 1- Lost Tarn (30/03/36)
 - 7- Ponden Reservoir, Keighley (-/05/37)
 - 3- Lost Tarn (30/03/36)
 - 2- *Potamogeton*, Blelham outflow mouth (10/11/35)
 - 5- Clay Pond (09/11/35)
 - 2- New Tarn (06/12/35)
 - 1- Slew Tarn (02/03/36)
 - 7- Wray Mires Tarn (05/03/36)
 - 1- Loughrigg (30/01/36)

1- Rose Castle Tarn (19/02/36)
 1- Grasmere (06/03/36)
 21- Clay Pond (02/10/35)
 6- Idre, Sweden (17/08/39)
 4- Long Newton Reservoir, DM (30/01/39)
 3- Waterhead, Windermere (12/03/37)
 2- Loch Kinardochy, Perth (09/10/38)
 15- Wise Een Fishpond (06/04/36)
 9- Slew Tarn (06/04/36)
 10- Janesmoor, SH (23/04/39)
 9- Cleabarrow Tarn (19/10/35)
 13- Blelham outflow (04/10/35)
 6- Longcross, New Forest (23/04 & 18/05/39)
 4- Lost Tarn (30/03/36)
 2- Moss Eccles (02/04/36)
 1- Barngates Quarry (01/04/36)
 1- Wray Mires Tarn (06/04/36)
 3- Blelham outflow (13/04/36)
 1- Brachtonber Tarn, Cumberland (27/11/36)
 1- Lost Tarn, Open St. (13/09/36)
 2- Bodmin Moor, Cornwall (28/12/36)
 1- Longtown Reservoir, Teesdale (-/08/38)
 2- Great Green Hows Reservoir (05/12/35)
 1- Quy. CB (14/07/35)
 3- Wray Mires Tarn (15/03/36)
 1- Elterwater (26/02/36)
 6- Rose Castle Tarn (19/02/36)
 3- Lost Tarn (20/11/35)
 1- Loughrigg (30/01/36)
 1- Rather Heath (24/11/35)
 1- Tom Heights (19/02/36)
 2- Podnet Tarn (02/02/36)
 1- Little Ludderburn (29/02/36)
 1- Blelham outflow (-/04/33)
 1- Gillhead Reservoir (20/02/36)
 18- Clay Pond (09/11/35)
 4- s. bay, L. Gill (02/08/51)
 9- Grasmere (06/03/36)
 1- Rather Heath (29/11/35)
 1- Caldecote (07/02/31)
 3- Quy 8 (14/07/35)
 4- Loch Helin, CA (27/05/52)
 4- L. Caradail, WS (25/05/52)
 4- St. John's Loch, CA (27/05/52)
 1- R. Cree, KB (07/08/49)
 15- Ely Lodge, L. Erne, FE (03/08/51)
 10- reed bed, Lough Carra, EM (05/08/51)

(6)

- 8- L. Gara, SL (04/08/51)
2- Wray Mires Tarn (15/03/36) (7)
1- Longcross, New Forest, SH (23/04 & 18/05/39)
2- Blelham Outflow, Windermere (-/4/33)
2-Elterwater, WL (26/02/36)
1- Clay Pond (09/11/35)
- Sigara* (sg. *Subsigara*) *falleni* (Fieber) (3,6 & 7)
9- Swaffham Lode (04/01/36) (3)
3- Knipe Tarn (28/09/36)
7- Knipe Tarn (06/12/35)
1- Brine Spring Farm, Southam (-/06/37)
1- Newton Marsh (01/12/35)
1- Madingley Pits (-/05/32) (6)
1- Quay 2 (11/10/34)
3- Enton Upper Trout Pond, Hazelmere (-/11/36)
2- L. Tåkern, Sweden (09/08/39)
3- Ashwell Millpond (28/10/34)
1- — (-/-/-)
2- Knipe Tarn (28/09/36)
8- Kennet & Avon Canal, Reading (24/05/54)
2- Loch Leven, Kinross (06/10/38)
1- Innominate Pool, CB (04/01/36) (7)
2- Newton Marsh, CU (01/12/35)
1- Knipe Tarn, WL (28/09/36)
1- Swaffham Lode, CB (04/01/36)
- Sigara* (sg. *Subsigara*) *fallenoidea* (Hungerford) (= *pearcei* Walton) (3, 4 & 7)
2- L. Gill (02/08/51) (3)
4- L.Ree (06/08/51)
2- L. Arrow (02/08/51)
1- s.bay, L. Gill (02/08/51) (4)
1- west, L.Arrow (02/08/51)
7- L. Ree (06/07/51)
1- Ely Lodge, L. Erne (03/08/51)
1- L. Ree, RO (06/08/51) (7)
1- L. Erne, Ely Lo. (03/08/51)
- Sigara* (sg. *Subsigara*) *fossarum* (Leach) (3, 6 & 7)
19- Clay Pond (02/10/35) (3)
1- Clay Pond (19/11/35)
16- Blelham Fishpond (05/10/35)
3- Swaffham Lode (04/01/36)
1- L.Tåkern, Sweden (09/07/39)
1- Blelham Lake (18/03/36)
2- Elterwater (26/02/36)
1- Wray Mires Tarn (15/03/36)

- 1- Blelham Fishpond (10/10/36)
- 3- Swaffham Lode (04/01/36) (6)
- 1- Madingley Brick Pits (23/04/33)
- 15- Lost Tarn (-/-/-)
- 1- Rydal Sodge (27/11/35)
- 12- outflow, L. Gara, SL (04/08/51)
- 36- Clay Pond (02/10/35)
- 32- Clay Pond (09/11/35)
- 4- Wise Een Tarn (15/03/36)
- 24- Wray Mires Tarn (15/03/36)
- 7- Blelham Lake (18/03/36)
- 5- Lost Tarn (30/03/36)
- 8- Elterwater (26/02/36)
- 1- Clay Pond (28/10/38)
- 12- Wise Een Tarn (12/02/37)
- 7- Blelham outflow (09/01/35)
- 1- Green Tarn (03/10/35)
- 10- Blelham Fishpond (23/02/36)
- 2- Blelham outflow mouth (10/11/35)
- 9- Blelham outflow (14/10/35)
- 6- Blelham Fishpond (10/10/36)
- 2- Quy 8 (14/07/35)
- 28- Blelham Fishpond (05/10/35)
- 7- Loughrigg Tarn (16/10/35)
- 1- Barngates Quarry (01/05/36)
- 3- Grasmere (06/03/36)
- 1- Moss Eccles (02/04/36)
- 1- Blelham outflow (13/04/36)
- 2- Rather Heath (29/11/35)
- 2- R. Blackwater (21/10/41)
- 2- Nor Moss (-/04/33)
- 4- Blelham outflow (-/04/33)
- 3- Wray Mires Tarn (06/04/36)
- 2- Wise Een Tarn, (15/03/36) (7)
- 6- Clay Pond (09/11/35)

- Sigara* (sg. *Subsigara*) *scotti* (Douglas & Scott) (3, 4, 6 & 7)
- 10- Wray Mires Tarn (15/03/36) (3)
- 10- Gillhead Fishpond (20/02/36)
- 12- Bodmin Moor 2, Cornwall (28/12/36)
- 1- Neilson Hot Blast, Castle Douglas (15/08/38)
- 7- Loch Barnluasgan (15/10/37)
- 10- Cleabarrow Tarn (17/10/35)
- 13- Loughrigg (30/01/36)
- 10- Great Green Hows Reservoir (05/12/35)
- 2- Podnet Tarn (29/02/36)
- 43- Rather Heath (29/11/35) (4)

3- Robinson's Tarn (06/04/36)
 2- New Tarn (06/12/35)
 9- Lost Tarn (20/11/35)
 1- Blelham Fishpond (05/10/35)
 6- Longcross (18/05/39)
 6- Wharton Tarn (23/02/36)
 2- Green Tarn (05/10/35)
 3- Clay Pond (09/11/35)
 1- Quy 8 (14/07/35)
 5- Crook Reservoir (02/03/36)
 6- Wise Een Tarn (12/02/37)
 3- Lochan Lurg (06/10/38)
 1- Loch Kinardochoy, Perth (09/10/39)
 17- Nor Moss (-/04/33)
 9- Lingmoor Tarn (11/12/35)
 10- Knipe Tarn (06/12/35)
 22- Loughrigg (30/01/36)
 4- Podnet Tarn (29/02/36)
 10- Clay Pond (02/10/35)
 18- Great Green Hows Reservoir (05/12/35)
 1- Ober Water (11/02/41)
 1- Janesmoor (23/04/39)
 1- L. Aigeil (21/05/52)
 8- pool near Loch Borralaw, NS (20/05/52)
 8- L. Finn, Donegal (01/08/51)
 4- Hodson Tarn (06/11/53)
 11- Moss Eccles Tarn (02/04/36)
 10- School Knotts Tarn (07/03/36)
 18- Ennerdale (06/04/36)
 14- Wise Een Fishpond (06/04/36)
 11- Wise Een Tarn (15/03/36)
 16- Esthwaite (12/03/36)
 17- Sweetenthwaite Pool (19/03/36)
 8- Wray Mires Tarn (15/03/36)
 26- Lost Tarn (30/03/36)
 7- Crook (02/02/36)
 59- Gillhead Reservoir (20/02/36)
 31- Gillhead Fishpond (20/02/36)
 3- L. Aigeil (21/05/52)
 1- Rather Heath (29/05/35)
 3- St. John's Loch (27/05/52)
 1- Rather Heath (20/11/35)
 10- Hatchett Slt (20/04/37)
 9- Littlesea, Studland (16/06/36)
 6- Pottery Pits, Wareham Heath (12/06/36)
 10- Littlesea (18/04/37)
 12- Bodmin Moor, Cornwall (28/12/36)

(6)

- 4- Slew Tarn (06/04/36)
- 2- Wray Mires Tarn (06/04/36)
- 3- Green Tarn (06/04/36)
- 4- ditch, Wareham Heath (11/04/36)
- 14- Gale Naze, east bed, Windermere (20/08/36)
- 1- Pottery Pits (18/04/37)
- 8- Crook (02/03/36)
- 9- Knittleton Tarn (–/–/37)
- 1- Green Hows Plantation (23/09/36)
- 4- Lingmoor Tarn (03/10/36)
- 1- Lower Great Dodd (04/10/36)
- 8- Moss Eccles Tarn (11/10/36)
- 1- Brackenbet Tarn (10/11/36)
- 2- Carnbrae Redruth, Cornwall (27/12/36)
- 5- Overlooked Moss (22/03/36)
- 2- Rulbat Tarn (29/02/36)
- 2- Birket Houses Tarn (29/02/36)
- 1- Lindeth Tarn (06/12/35)
- 1- Kirby Quarries (15/12/35)
- 4- Loughrigg (30/01/36)
- 1- Tom Heights (19/02/36)
- 2- Undermill Beck (06/12/35)
- 4- Blackbeck Moss (20/02/36)
- 1- Slew Tarn (03/02/36)
- 2- Rose Castle Tarn (19/02/36)
- 2- Tarn Hows (19/02/36)
- 4- Cleabarrow Tarn (17/10/35)
- 10- Rather Heath (29/11/35)
- 4- Loch Caradail, NS (25/05/52)
- 1- Crook Reservoir (02/03/36) (7)
- 1- Wise Een Tarn (12/02/37)
- 2- Longcross, New Forest (18/05/39)
- 2- Robinson's Tarn, WL (06/04/36)
- 2- Wharton Tarn, WL (23/02/36)
- 1- Lochan Lury (06/10/38)
- 1- Rather Heath (29/11/35)

- Sigara* (sg. *Vermicorixa*) *lateralis* (Leach) (= *hieroglyphica* (Dufour) (3, 4, 5 & 7)
- 10- Longcross (23/04 & 18/05/39) (3)
 - 7- Newton Marsh (01/10/35)
 - 8- on wing , Upper Great Dodd (04/10/36)
 - 2- Lower great Dodd (–/–/–)
 - 5- Ohrid, Yugoslavia (08/09/35) (4)
 - 4- Ohrid, Yugoslavia (07/09/35)
 - 1- Ohrid, Yugoslavia (09/09/35)
 - 12- Ohrid, Yugoslavia (05/09/35)
 - 27- L. Petrsko, Greece (03/09/35)

- 1- Caldecote (15/03/31) (5)
- 1- rifle range, CB (-/05/33)
- 3- Quy 8 (14/07/33)
- 1- Chesterton (03/02/34)
- 2- Gins, Beaulieu (20/04/37)
- 19- King's College Fountain (11/03/35)
- 25- Newton Marsh (01/12/35)
- 2- King's College Fountain (17/07/37)
- 6- King's College Fountain (18/12/36)
- 7- King's College Fountain (06/12/34)
- 1- Bulbeck Fountain (19/12/34)
- 8- Meathorpe Marsh (13/12/35)
- 19- Welwyn (25/10/40)
- 4- Upper Great Dodd (04/10/36)
- 1- Upper Great Dodd (04/10/36)
- 2- Crook (02/03/36)
- 1- Blelham Fishpond (05/10/35)
- 1- Outgate Quarry (01/05/38)
- 1- Scandale (27/05/36)
- 1- Scandale (24/11/35)
- 4- Dewpond, Salsbury Plain (11/06/36)
- 1- Caldecote (07/02/31)
- 4- King's College Fountain (11/06/36)
- 1- Ulpha, Lake District (21/09/36)
- 12- Great Dodd (14/10/36)
- 10- Longcross, New Forest (23/04 & 18/05/39)
- 3- R. Blackwater (21/10/41)
- 58- Welwyn (22/10/40)
- 1- Littlesea (18/04/37)
- 8- Welwyn 4, HT (22/10/40) (7)
- 1- Meathop Marsh, WL 913/12/35)

- Sigara (sg. Pseudovermicorixa) nigrolineata* (Fieber) (3, 6 & 7)
- 10- Little Loughrigg (26/03/36) (3)
 - 2- Outgate Quarry (01/04/36)
 - 2- Barngates Quarry (06/09/38)
 - 6- Haverthwaite Peat Pool (25/10/38)
 - 3- Moine Mohr (14/10/37)
 - 6- Cruac Lussac (16/10/37)
 - 1- ditch, Kiels (17/10/37)
 - 10- Scandale (24/09/35)
 - 10- cliffs, St. Ives, Cornwall (25/12/36)
 - 6- Ulpha 1, Lake District (21/09/36)
 - 5- Outgate Quarry (23/09/36)
 - 4- King's College Fountain (17/07/37)
 - 2- Scandale Tarn (06/10/35) (6)
 - 1- Langdale (20/10/35)

- 1- Green Tarn (03/10/35)
- 1- Grisedale (03/11/35)
- 1- Birket Houses Tarn (29/02/36)
- 6- Hobcarton Hause (30/09/36)
- 8- Dewpond, Salsbury Plain (11/06/36)
- 10- Scandale (27/05/36)
- 2- cliffs, St Ives, Cornwall (25/12/36)
- 4- Stonethwaite (21/09/36)
- 9- Coffin Quarry (23/10/36)
- 3- Lower Great Dodd (04/10/36)
- 1- Barrow Plant (23/10/36)
- 1- Whitemoss Reservoir (27/11/35)
- 1- King's College Fountain (04/07/36)
- 2- Watson's Dodd, Lake District (04/10/36)
- 8- Stick's Pass, Lake District (04/10/36)
- 1- Stick's Pass, Lake District (23/10/36)
- 1- Ulpha (21/09/36)
- 1- Upper Great Dodd (04/10/36)
- 1- Coffin Quarry (23/04/36)
- 2- Outgate Quarry (23/04/36)
- 1- Hareswith Pond (07/06/31)
- 4- Caldecote (07/02/31)
- 2- King's College Fountain, CB (09/05/35)
- 2- Scandale (24/11/35)
- 3- Cruac Lussac, LT (16/10/37)
- 2- Moine Mohr, AM (14/10/37)
- 2- ditch, Kiels (17/10/37)
- 5- Foulshaw (18/12/35)
- 11- Overlooked Moss (22/03/36)
- 2- Neilson Hot Blast, Castle Douglas, Kircudbright (15/08/38)
- 1- Barn gates Quarry (06/09/38)
- 6- Meall Sgallachd, Perth (10/10/38)
- 3- Kinardochy Pool, Perth (09/10/38)
- 4- Cockhill Pool, Perth (11/10/38)
- 7- Crook (02/03/36)
- 5- Dewpond, Salsbury Plain (23/04/39)
- 2- Rather Heath (29/11/35)
- 2- Little Loughrigg (26/03/36)
- 8- Handa, NS (22/05/52)
- 1- L. Finn, Donegal (01/08/51)
- 2- Outgate Quarry (01/04/36)
- 3- Hobcarton House, Lake District (30/09/36) (7)
- 1- Grisedale (02/11/35)
- 1- Rulbut's Tarn (29/02/36)
- 1- Dewpond 2, Salsbury Plain (11/06/36)
- 1- Langdale (20/10/35)
- 1- Little Loughrigg (26/03/36)

<i>Sigara (Paracorixa) concinna</i> (Fieber)	(3, 4 & 7)
8- Gins 4, Beaulieu (20/04/37)	(3)
11- Brine Spring Farm, Southam (-/04/37)	
1- Meathop Marsh (13/12/35)	
9- Long Newton Reservoir (30/01/39)	
11- Loch Gelly, Fife (06/10/38)	
3- Auchencorth Moss, Penrith (26/05/54)	(4)
4- Loch of Skene (19/07/55)	
4- Welwyn (22/10/40)	
2- Welwyn (25/10/40)	
1- Janesmoor, SH (23/09/39)	
2- Auchencorth Moss, Penicul, ED (26/05/54)	(7)
2- Welwyn (22/10/40)	
<i>Sigara (sg. Retrocorixa) limitata</i> (Fieber)	(3, 6 & 7)
30- Longcross, New Forest (23/04 & 18/05/39)	(3)
2- Longcross (23/04/39)	(6)
2- D.P.2, edge (18/05/40)	
1- Longcross, New Forest (23/04 & 18/05/39)	
1- Longcross, New Forest (23/04 & 18/05/39)	(7)
1- DP22 (21/04/40)	
<i>Sigara (sg. Retrocorixa) semistriata</i> (Fieber)	(3, 4 & 7)
6- Idre 6, Sweden (17/08/39)	(3)
3- Rather Heath (07/01/37)	
1- Neilson Hot Blast (15/08/38)	
10- Moine Mohr (14/10/37)	
4- Foulshaw, WL (18/07/35)	
2- Rather Heath (19/07/35)	
1- New Tarn (28/09/36)	
1- Waterston Moss (28/09/51)	(4)
1- Waterston Moss (28/09/51)	(7)
1- L. Erne, Ely Lo. (03/08/51)	
<i>Sigara (sg. Retrocorixa) venusta</i> (Douglas & Scott)	(3, 6 & 7)
12- ditch, Kiels (17/10/37)	(3)
2- ditch, Kiels (14/10/37)	
4- Ponden Reservoir (-/05/37)	
5- Hatchet 4 (20/04/37)	
21- Kirby Quarries (15/12/35)	
3- Elterwater (26/02/36)	
2- Lost Tarn (30/03/36)	
3- Carnbrae Redruth, Cornwall (27/12/36)	
3- Scandale (24/11/35)	
1- Grisedale (02/11/35)	
3- Key Moss (18/12/35)	

- 6- Outgate Quarry (01/04/36)
- 1- Ramstead Quarry, WL (06/09/38) (6)
- 1- L. Borralan, WS (20/05/52)
- 1- Lost Tarn (20/11/35)
- 1- Glow Loch Stream, Fife (06/10/38)
- 1- Loch Kinardochy, Perth (09/10/38)
- 1- Blelham outflow mouth (10/11/35)
- 4- Outgate Quarry (23/09/36)
- 3- Kirby Quarries, Lancashire (15/12/35)
- 1- Watson's Dodd (04/10/36)
- 2- Blelham Fishpond (05/10/36)
- 1- Nor Moss (-/04/33)
- 2- Ennerdale (-/04/33)
- 1- ditch, Kiels, CU (17/10/37)
- 1- Lacer Tarn (03/02/36)
- 2- L. Barralan, NS (20/05/52) (7)
- Sigara* (sg. *Halicorixa*) *selecta* (Fieber) (3, 4 & 7)
- 20- Shingle Street, ES (19/05/54) (3)
- 5- Gins, Beaulieu (20/04/37)
- 2- Shingle Street, ES (19/05/54) (4)
- 1- Shingle Street, ES (19/05/54) (7)
- 1- Gin, Beaulieu (20/04/37)
- Sigara* (sg. *Halicorixa*) *stagnalis* (Leach) (= *lugubris* (Fieber)) (3, 4 & 7)
- 13- ditch near Flatford Mill (18/05/54) (3)
- 1- ditch near Flatford Mill (19/05/54)
- 9- Gins, Beaulieu (20/04/37)
- 1- Gins, Beaulieu (20/04/37) (4)
- 17- ditch near Flatford Mill (18/05/54)
- 17- Branton Marsh (12/07/57)
- 5- ditch near Flatford Mill (18/05/54) (7)

3.5. ORDER: COLEOPTERA/ WATER BEETLES

SUB ORDER: ADEPHAGA (=HYDRADEPHAGA) (carnivorous water beetles)

Nomenclature follows that given in Pope, R.D. (1977) *A checklist of British Insects 3: Coleoptera and Strepsiptera*. Handbooks for the Identification of British Insects 9 (3). Royal Entomological Society of London.

(Box Number)

FAMILY: HALIPLIDAE

Brychius elevatus (Panzer) (1)

1- R.Gilpin (05/02/37)

Peltodytes (= *Cnemidotus*) *caesus* (Duftschmid) (= *impressus* (Panzer) not (Fabricius)) (1)

1- Ohrid, Yugoslavia (-/09/35)

Haliplus apicalis Thomson (= *striatus* Sharp) (1)

2- Leighton Moss (23/04/38)

Haliplus confinis Stephens (= *halberti* Bullock) (= *pallens* Fowler) (1)

2- Green Hows Reservoir (23/10/36)

1- Yew Tree Tarn (20/05/38)

1- Blelham Fishpond (31/07/37)

1- Blelham Outflow Mouth, north bed, Windermere(24/11/36)

Haliplus flavicollis Sturm (1)

5- River Winster (22/05/40)

1- Reach Lode, Cambridge (21/10/34)

2- Ullswater, south beds (16/08/37)

2- Fisherty shore, Windermere (31/07/37)

7- Brotherswater (16/08/37)

1- Gale Naze, east beds, Windermere (20/08/36)

1- Quay 8, Cambridge (17/11/34)

1- Helton Lake (10/04/38)

1-Yew Tree Tarn (08/06/38)

Haliplus fluviatilis Aubé (1)

1- R. Gilpin (-/07/37)

1- Green Hows Reservoir, Lake District (23/11/36)

Haliplus fulvus (Fabricius) (1)

11- Brotherswater (16/08/37)

8- Hodson Tarn (06/05/52)

1- Bue Bay, Windermere (10/08/36)

2- Little Ludderburn, Lake District (29/02/36)

1- *Apium* bed, Three Dubs Tarn (27/07/36)

2- stony shore, Three Dubs Tarn (27/07/36)

- 1- *Carex* bed, Three Dubs Tarn (31/07/36)
- 1- Clay Pond, Lake District (09/11/35)
- 2- Wise Een Tarn (15/03/36)
- 1- Wray Mires Tarn (12/11/36)
- 5- Fisherty Shore, Windermere (10/08/36)
- 1- Rose Castle Tarn, Lake District (23/02/36)
- 2- Podnet Tarn (21/02/36)
- 1-Signpost Fence, Windermere (04/08/36)
- 1- Rather Heath (29/11/35)
- 1- Bee Bay (11/08/36)
- 2- Yew Tree Tarn (20/05/38)
- 4- Three Dubs Tarn (02/08/38)
- 2- Three Dubs Tarn (07/08/37)
- 1-Three Dubs Tarn (27/03/37)
- 2- Three Dubs Tarn (31/07/36)
- 1- Three Dubs Tarn (24/03/37)
- 1- *Carex*, Three Dubs Tarn (25/01/38)
- 1- Three Dubs Tarn (28/07/41)
- 2- Gillhead Reservoir (14/06/38)
- 1- Signpost Fence, Windermere (09/08/36)
- 2- Fisherty Shore, Windermere (31/07/37)
- 1- Rampstead Quarry (06/09/38)
- 1- Derwent Water (26/10/38)
- 1- Coniston Outflow Bed (24/08/37)
- 1- Helton Lake (12/06/37)
- 1- Esthwaite (12/03/36)
- 1- White Cross Creek, Windermere (06/12/36)
- 1- Brathay Bay, West Bed, Windermere (15/10/36)
- 1- Rather Heath (19/12/36)
- 1- Podnet Tarn (11/10/36)
- 2- Knittleton Tarn (–/–/37)
- 1- Green Hows Reservoir (23/09/36)
- 1- Bee Bay (02/12/36)
- 1- Arnside Tarn (09/01/37)
- 1- Rulbats Tarn (29/02/36)
- 2- School Knotts Tarn (07/03/36)
- 1- Wharton Tarn (23/02/36)
- 1- Bassenthwaite Railway Station Bay (18/08/37)
- 1- Waterhead Bay (24/08/37)
- 1- *Juncus* beds, Three Dubs Tarn (31/07/36)
- 1- Wray Mires Fishpond (13/01/37)
- 1- Low Water, Lake District (–/04/33)

Haliphus furcatus Seidlitz
(no specimens)

(-)

- Haliphus heydeni* Wehncke (= *ruficollis* sensu auct. Brit. Partim not (Degeer)) (1)
 1- Brathay Quarries (13/10/35)
 1- Haverthwaite Peat Pool (25/10/38)
 1- Rampstead Quarry Pool (23/04/38)
- Haliphus immaculatus* Gerhardt (-)
 no specimens
- Haliphus laminatus* (Schaller) (= *cinereus* Aubé) (-)
 no specimens
- Haliphus lineatocollis* (Marsham) (1)
 1- R. Gilpin (-/07/37)
 2- Chesterton, Cambridge (-/-/-)
 1- Quay 8, Cambridge (-/-/-)
 1- Quay 6, Cambridge (-/-/-)
 1- ditch between Quay 3 and Bottisham Lode, Cambridge (-/-/-)
 3- Trinity College Fountain, Cambridge (03/12/32)
 3- Swaffham Bulbeck, Cambridge (04/01/36)
 1- King's College Cambridge (-/03/35)
 1- Blelham Fishpond (-/-/-)
 1- Foulshaw, N. Lancashire (18/12/35)
 1- Swaffham Lode, Cambridge (04/01/36)
 1- Salway, Cumberland (01/07/35)
- Haliphus lineolatus* Mannerheim (= *browneanus* Sharp) (= *nomax* Balfour- Browne, F.) (1)
 5- Bassenthwaite Railway Station Bay (18/08/37)
 1- Loughrigg Tarn (16/10/35)
 1- R. Gilpin (-/07/35)
 3- Blelham Outflow, north bed, Windermere (24/11/36)
 1- Blelham Outflow, west bed, Windermere (24/11/36)
 1- Blelham Outflow Bed (10/08/36)
 1- Bee Bay (10/08/36)
- Haliphus mucronatus* Stephens (-)
 no specimens
- Haliphus obliquus* (Fabricius) (1)
 1- Tarn Hows, Silverdale (23/04/38)
- Haliphus ruficollis* (Degeer) (= *fulvicollis* sensu Edwards, not Erichson) (1)
 2- Helton Lake (10/04/38)
 1- Leighton Moss (23/04/38)
 1- Lost Tarn (30/03/36)
 1- *Carex* bed, Lost Tarn (04/04/38)
 2- Podnet Tarn (11/10/36)
 1- Waterhead Bay, Coniston (24/08/37)

- 1- Cleabarrow Tarn (19/10/35)
- 7- Yew Tree Tarn (20/05/38)
- 2- Little Ludderburn (29/02/36)
- 4- Blelham Fishpond (06/09/38)
- 2- Gilhead Reservoir (14/06/38)
- 1- Commissioner's Drain, CB (20/10/34)
- 1- Cleabarrow Tarn (14/06/38)
- 1- School Knotts Tarn (11/04/38)
- 1- Gillhead Reservoir (14/06/38)
- 1- Helton Lake (12/06/37)
- 1- Coniston Outflow Bed (24/08/37)
- 1- Little Ludderburn Tarn (11/09/36)
- 1- Brathay Quarries (13/10/350)
- 2- Blelham Fishpond (31/07/37)
- 1- Lost Tarn (30/03/36)
- 1- *Carex*, Lost Tarn (12/11/36)
- 1- Podnet Tarn (11/10/36)
- 1- Little Ludderburn (29/02/36)
- 1- Coniston Outflow Bed (24/08/39)
- 2- Bassenthwaite Railway Station Bay (18/08/37)
- 1- Barrow Plantation (28/09/36)
- 1- Cam 2, Cambridge (-/05/31)
- 1- Waterhead Bay, Coniston (24/08/37)

Haliphus variegatus Sturm (1)
 1- Newmarket, Cambridge (03/02/35)

Haliphus wehncke Gerhardt (= *borealis* Gerhardt, nec LeConte) (1)
 1- Ullswater, south beds (16/08/37)
 1- R. Winster (22/05/40)
 1- King's College Fountain (06/10/34)
 3- Coniston Outflow Bed (24/08/37)
 3- Mickle 5, Ny (18/04/39)
 5- Waterhead Bay, Coniston (24/08/37)
 3- R. Gilpin (-/07/37)
 1- Bassenthwaite Railway Station Bed (18/08/39)
 1- Yew Tree Tarn (20/05/38)
 1- Blelham Outflow Mouth, North Bed (24/11/36)
 1- Bassenthwaite Inflow Bed (18/08/37)
 1- Bassenthwaite Railway Station Bay (18/08/37)
 1- Trinity College Fountain, Cambridge (03/12/32)
 1- Blelham Fishpond (31/07/37)
 1- Blelham Fishpond (16/10/35)
 1- Derwent Water (16/08/37)
 1- Loweswater, Waterend Farm (06/06/66)

FAMILY: HYGROBIIDAE (=PELOBIIDAE)

Hygrobia (=Hygriobia)(=Paelobius)(=Pelobius) *herrmanni* (Fabricius)(=*herrmanni* (Fabricius))
1- King's College Fountain, Cambridge (-/11/34) (1)

Hygrobia (=Hygriobia)(=Paelobius)(=Pelobius) *tarda* (Herbst) (9)
1- Chesterton Ballast Pits (-/10/30)

FAMILY: NOTERIDAE (=DYTISCIDAE)

Noterus clavicornis (Degeer)(=*capricornis* (Herbst)) (=sparsus (Marsham)) (2)
1- Littlesea, Studland (22/05/68)
2- Gin 1, Beaulieu, SH (20/04/37)

Noterus crassicornis (Müller, O.F.) (=clavicornis sensu auct.Brit. Partim not(Degeer)) (-)
no specimens

FAMILY: DYTISCIDAE

SUB FAMILY: LACCOPHILINAE

Laccophilus hyalinus (Degeer)(=*interruptus* (Panzer)) (4)
1- top of Gaitskill (18/07/66)
1- Littlesea, Studland (22/05/68)
2- Commissioner's Drain, Bottisham Fen, CB (11/10/34)

Laccophilus minutus (Linnaeus) (=obscurus (Panzer)) (=variolosus (Herbst)) (4)
1- — (-/-/-)
1- King's College Fountain, Cambridge (11/03/36)
1- Rulbuts Tarn (29/02/36)
1- Little Ludderburn (29/02/36)

Laccophilus variegatus (Germar) (-)
no specimens

SUB FAMILY: HYDROPORINAE

Hydrovatus (=Oxynoptilus) *clypealis* Sharp (-)
no specimens

Hyphydrus ovatus (Linnaeus) (2)
1- Lindeth Tarn (14/06/38)
1- Clay Pond (09/11/35)
1- Three Tarns (10/10/37)
1- Clay Pond (-/04/330)
1- Cam 6, Cambridge (20/10/34)
1- Lost Tarn (12/06/36)

Guignotus (=Bidessus) *pusillus* (Fabricius)(=*geminus* (Fabricius)) (-)
no specimens

<i>Bidessus minutissimus</i> (Germar) no specimens	(-)
<i>Bidessus unistriatus</i> (Schrank) no specimens	(-)
<i>Hygrotus</i> (=Coelambus) <i>decoratus</i> (Gyllenhal) no specimens	(-)
<i>Hygrotus</i> (=Coelambus) <i>inaequalis</i> (Fabricius) 1- Tarn Hows, Silverdale (23/04/38) 1- Gillhead Reservoir (14/06/38) 1- Undermill Beck (25/09/40) 1- Lake District (-/09/36) 2- Loughrigg Tarn (25/08/38) 1- Rather Heath (07/01/37) 1- New Tarn (28/09/36) 1- Rather Heath (29/11/35) 1- Little Ludderburn (11/09/36) 1- New Tarn (14/06/38) 5- Littlesea (<u>marked verisicolor</u>) (22/05/68) 1- Gillhead Reservoir (14/06/38) 1- Loughrigg Tarn (25/08/38) 1- — (-/-/-)	(2 & 3) (2)
<i>Hygrotus</i> (=Coelambus) <i>quinclineatus</i> (Zetterstedt) no specimens	(-)
<i>Hygrotus</i> (=Coelambus) <i>versicolor</i> (Schaller) 1- Littlesea (22/05/68)	(3)
<i>Coelambus confluens</i> (Fabricius) 1- cliff pool, St. Ives, Cornwall (25/12/36) 1- King's College Fountain (11/03/36)	(2)
<i>Coelambus impressopunctatus</i> (Schaller) 1- King's College Fountain (-/05/33)	(2)
<i>Coelambus novemlineatus</i> (Stephens) (=nigrolineatus (Gyllenhal) nec (von Steven in Schoenherr) no specimens	(-)
<i>Coelambus parallelogrammus</i> (Ahrens) 1- Gin 1, Beaulieu (20/04/37)	(2)
<i>Hydroporus angustatus</i> Sturm no specimens	(-)

1- Loughrigg (03/02/36)	
4- Rusland Moss (31/10/38)	
2- Wise Een Pool (31/08/38)	
1- Tilberthwaite 2 (18/04/38)	
2- School Knotts Moss (11/04/38)	
1- Haverthwaite Peat Pool (25/10/38)	
<i>Hydroporus incognitus</i> Sharp	(2)
1- Little Ludderburn (29/02/36)	
<i>Hydroporus longicornis</i> Sharp (= <i>parallellus</i> Sharp, nec Aubé)	(-)
no specimens	
<i>Hydroporus longulus</i> Mulsant (= <i>celatus</i> Clark)	(-)
no specimens	
<i>Hydroporus marginatus</i> (Duftschmid)	(-)
no specimens	
<i>Hydroporus melanarius</i> Sturm (= <i>monticola</i> Sharp)	(-)
no specimens	
<i>Hydroporus memnonius</i> Nicolai	(2)
1- Pull Woods 3, Lake District (07/11/35)	
1- Brathay Quarries (26/09/38)	
<i>Hydroporus morio</i> Aubé (= <i>melanocephalus</i> sensu (Gyllenhal), not (Marsham))	(2 & 3)
6- Thornthwaite, WL (16/09/37)	(2)
1- Stonisty, Lake District (22/10/35)	
1- Grassmoor, CU (30/09/36)	
4- High Brow, Matterdale Common, WL (13/07/69)	(3)
1- Old Road Tarn (22/04/74)	
<i>Hydroporus neglectus</i> Schaum	(-)
no specimens	
<i>Hydroporus nigrita</i> (Fabricius)	(2 & 3)
1- Three Dubs Pool (08/02/39)	(2)
2- BQ3 (07/03/83)	(3)
<i>Hydroporus obscurus</i> Sturm	(2 & 3)
1- Bodmin Moor, Cornwall (28/12/36)	(2)
1- Summergrove Tarn, Lake District (07/03/36)	
1- Blea Rigg, WL (31/08/37)	
1- Tilberthwaite (18/04/38)	
5- Suzanne's Moss, WL (25/03/81)	(3)
3- Old Road Tarn, WL (01/11/73)	

<i>Hydroporus obsoletus</i> Aubé	(-)
no specimens	
<i>Hydroporus palustris</i> (Linnaeus) (= <i>tinctus</i> Clark)	(2 & 3)
8- Grasmere (28/08/38)	(2)
2- Gill Head Reservoir (14/06/38)	
2- Tarn Haws (23/04/38)	
1- School Knotts Moss (11/04/38)	
4- Rulbats Tarn (29/02/36)	
8- Coffin Quarry (31/01/39)	
2- Blelham Fishpond (06/09/38)	
9- Grasmere (28/08/38)	
1- Podnet Reservoir, Keighley, M Y (-/05/37)	
3- Grasmere (25/08/38)	
1- Newmarket, Cambridge (21/10/34)	
3- Cam 6, Cambridge (20/10/34)	
11- Three Tarns (10/10/37)	
4- Rather Heath (19/12/36)	
1- New Tarn (28/09/36)	
1- Loughrigg (25/03/36)	
1- Brathay Quarries (13/10/35)	
2- Knipe Tarn (14/06/38)	
1- Three Dubs Tarn (08/02/39)	
1- Three Tarns (22/10/35)	
2- Lost Tarn (30/03/36)	
1- Helton Lake (10/04/38)	
1- Wharton Tarn (23/02/36)	
2- Yew Tree Tarn (20/05/38)	
1- Podnet Reservoir (-/05/39)	
1- New Tarn (14/06/38)	
1- Lake District (-/09/36)	
1- King's College Fountain, CB (-/11/34)	
1- Bassenthwaite Inflow Bed (18/08/37)	
1- Carex, Lost Tarn (12/10/36)	
1- Brathay Bay, West Bed (15/10/36)	
1- Three Dubs Tarn (31/07/36)	
2- Ponden Reservoir (-/05/37)	
1- Carex, Lost Tarn (12/11/36)	
2- Waterhead Bay, Coniston (24/08/37)	
1- Loughrigg 10 (3/02/36)	
2- Brackenber Tarn, Cumberland (27/11/36)	
1- Grasmere (28/08/38)	
1- Pull Wyke Swan Bed, Windermere (10/08/36)	
1- Blelham Fishpond (23/02/36)	
1- Dullingham 2, Cambridge (21/10/34)	
1- Lake District (-/09/36)	

- 1- Quy 12, Cambridge (17/11/36)
5- BQ2 (07/03/83) (3)
- Hydroporus planus* (Fabricius) (= *?melancephalus* (Marsham)) (2 & 3)
1- Headley's Tarn (19/06/39) (2)
1- Barn gates Quarry (06/09/38)
1- King's College Fountain, Cambridge (-/03/35)
3- King's College Fountain, Cambridge (-/11/34)
1- Trinity College Fountain, Cambridge (-/11/32)
1- King's College Fountain, Cambridge (-/05/35)
1- King's College Fountain, Cambridge (-/03/33)
2- King's College Fountain, Cambridge (-/05/33)
2- Lode 3, Cambridge (04/01/36)
4- Blelham Fishpond (06/09/38)
1- Knipe Tarn (14/06/38)
1- Derwent Water (26/10/38)
2- Bassenthwaite Railway Station Bay (18/08/37)
2- — (-/-/-) (3)
- Hydroporus pubescens* (Gyllenhal) (2)
3- Thornthwaite (16/09/37)
2- Thornthwaite (18/09/37)
2- Haverthwaite Field Pool (25/10/38)
4- Wise Een Pool (31/08/38)
2- Three Dubs Pool (08/02/39)
3- Deepdale 1, Lake District (04/10/36)
1- Crook 5 (02/03/36)
1- Barrow Plantation (07/03/36)
2- King's College Fountain, Cambridge (-/05/33)
1- Watson's Dodd (04/10/36)
1- Grassmoor (30/09/36)
1- Lake District (-/09/36)
1- King's College Fountain, Cambridge (-/11/34)
2- Langdale (20/04/35)
1- Three Dubs Pool (18/02/39)
- Hydroporus rufifrons* (Müller, O.F)(=*duftschmidi* Rye) (= *piceus* Stephens) (= *rufifrons* (Duftschmid)) (2)
1- Wise Een Pool (31/08/38)
1- Headley's Tarn (18/06/39)
- Hydroporus scalesianus* Stephens (-)
no specimens
- Hydroporus striola* (Gyllenhal) (= *vittula* Erichson) (2)
1- Newmarket, Cambridge (21/10/34)

<i>Hydroporus tessellatus</i> Drapiez (=lituratus sensu Fowler, not (Fabricius))	(2)
1- King's College Fountain, Cambridge (-/03/35)	
<i>Hydroporus tristis</i> (Paykull)	(2)
9- Three Dubs Tarn (26/07/39)	
17- Three Dubs Tarn (18/04/40)	
2- Three Dubs Tarn (08/02/39)	
4- Three Dubs Tarn (02/08/38)	
6- Three Dubs Tarn (24/03/37)	
1- Three Dubs Tarn (16/02/38)	
2- Three Dubs Tarn (28/07/40)	
2- Wise Een Pool (31/08/38)	
2- School Knotts Moss (11/04/38)	
1- Loughrigg (03/02/36)	
1- Grassmoor (30/09/36)	
1- Lake District (30/09/36)	
<i>Hydroporus umbrosus</i> (Gyllenhal)	(2 & 3)
1- Three Dubs Tarn (18/04/40)	(2)
1- Three Dubs Tarn (24/03/37)	
2- pond near Blelham (23/06/68)	(3)
2- Skelsmergh Tarn, WL (02/11/82)	
<i>Stictonectes</i> (=Hydroporus) (=Stictonotus) lepidus (Olivier)	(2)
1- dune slacks, Littlesea (22/05/68)	
2- Bodmin Moor, Cornwall (28/12/36)	
1- Barngates Quarry (01/05/36)	
3- Carnbrae, Redruth, Cornwall (27/12/36)	
<i>Graptodytes</i> (=Hydroporus) bilineatus (Sturm) (=hopffgarteni (Schilsky))	(-)
no specimens	
<i>Graptodytes</i> (=Hydroporus) flavipes (Olivier)	(-)
no specimens	
<i>Graptodytes</i> (=Hydroporus) granularis (Linnaeus)	(2)
1- School Knotts Moss (11/04/38)	
<i>Graptodytes</i> (=Hydroporus) pictus (Fabricius)	(2)
6- Blelham Fishpond (06/09/38)	
2- Knipe Tarn (14/06/38)	
1- Brathay Quarries (28/05/38)	
2- Coniston Outflow Bed (24/08/37)	
1- Brathay Quarries (-/05/37)	
1- Gale Naze, East Bed, Windermere (14/06/38)	
2- Gill Head Reservoir (14/06/38)	

- 1- New Tarn (14/06/38)
- 1- Bassenthwaite Railway Station Bay (18/08/37)

Porhydrus (=Hydroporus) *lineatus* (Fabricius) (2)
 (NB: labelled *Scarodytes lineatus*)

- 2- Tarn Haws, Silverdale (23/04/38)
- 1- Littlesea (16/06/36)
- 1- Commissioner's Drain, Bottisham Fen (11/10/34)

Deronectes latus (Stephens) (1)
 3- R. Frome, East Stoke (24/05/68)

Potamonectes (=Deronectes) (=Potamodytes) *assimilis* (Paykull) (2)

- 1- Lost Tarn (12/11/36)
- 2- Lost Tarn (20/11/35)
- 1- Brathay Quarries (-/05/37)
- 1- Podnet Tarn (11/10/36)
- 1- Clay Pond (09/11/35)
- 1- Hodson's Tarn (01/11/53)

Potamonectes (=Deronectes) (=Potamodytes) *canariensis* (Bedel)(=*tesselatus* (Aubé) nec (Drapiez)) (-)
 no specimens

NB: In box 2, the following two species are grouped together:

Potamonectes (=Deronectes) (=Potamodytes) *depressus* (Fabricius) (2)

Potamonectes (=Deronectes) (=Potamodytes) *s.elegans* (Panzer) (2)

- 1- Brathay Bay, West Bed, Windermere (20/08/36)
- 1- Signpost Fence, Windermere (09/08/36)
- 1- Lost Tarn (12/11/36)
- 1- R. Gilpin (-/07/37)
- 2- R. Winster (22/05/50)
- 1- Green Hows Reservoir (23/09/36)
- 1- East Bed, Windermere (17/08/36)
- 2- Fisherty Shore, Windermere (10/08/36)
- 3- Hodson's Tarn (06/11/36)
- 1- East Shore (08/08/62)

Potamonectes (=Deronectes) (=Potamodytes) *griseostriatus* (Degeer) (-)
 no specimens

NB: Box 2 contains the following species. No genus was recorded but it was placed between *Deronectes* and *Potamonectes*

..... *pustulatus* (2)

- 1- Wise Een Tarn (13/11/36)
- 1- weedy ditch, East Stoke (-/09/62)
- 1- Three Dubs Tarn (02/08/38)
- 1- Bassenthwaite (13/06/66)

- 1- Knittleton Tarn (-/-/37)
Stictotarsus (=Deronectes) *duodecimpustulatus* (Fabricius) (-)
no specimens
- Oreodytes* (=Deronectes) (=Hydroporus) *davisi* (Curtis) (=borealis sensu.auct. not (Gyllenhal))
no specimens (-)
- Oreodytes* (=Deronectes) (=Hydroporus) *sanmarki* (Sahlberg, C.R.) (=rivalis (Gyllenhal))(2)
6- Black Beck (12/03/68)
1- Coniston (15/03/-6)
3- R. Rothay (31/05/40)
- Oreodytes* (=Deronectes) (=Hydroporus) *septentrionalis* (Sahlberg, C.R.) (2)
1- Sticks Pass (14/10/36)
- Scarodytes* (=Hydroporus) (=Oreodytes) *halensis* (Fabricius) (2)
1- King's College Fountain, CB (11/03/36)
- Laccornis* (=Agaporus) (=Hydroporus) *oblongus* (Stephens) (-)
no specimens
- SUB FAMILY: COLYMBETINAE
- Copelatus* (=Leiopterus) (=Liopterus) spp. (-)
no specimens
- Platambus maculatus* (Linnaeus) (=immaculatus Donisthorpe)(=pulchellus (Heer)) (-)
no specimens
- Agabus affinis* (Paykull) (4)
2- Three Dubs Tarn (24/03/37)
3- Three Dubs Tarn (28/07/40)
3- Three Dubs Tarn (26/07/39)
2- Three Dubs Tarn (02/08/38)
3- Three Dubs Tarn (18/04/40)
- Agabus arcticus* (Paykull) (4)
1- Bowscale (25/11/35)
1- Grisedale (03/11/35)
1- Lake District (-/09/36)
3- Brackenbet Tarn (10/11/36)
3- Three Dubs Tarn (22/10/35)
- Agabus biguttatus* (Olivier) (-)
no specimens
- Agabus bipustulatus* (Linnaeus) (4)
3- Crinkle Crag, Lake District (22/10/35)

1- Scales Tarn, Lake District (06/11/35)
 1- Foulshaw, N. Lancs. (18/12/35)
 1- Blea Rigg, Langdale Fell, (31/08/37)
 4- cow trough, Graythwaite (16/06/68)
 1- Brathay Quarries (13/10/35)
 1- Three Tarns, Lake District (22/10/35)
 1- Esthwaite, N. Bed Pool (08/05/37)
 1- Top of Gaitskill (18/07/66)

Agabus brunneus (Fabricius) (-)
 no specimens

Agabus chalconatus (Panzer) (= *chalconotus* auct. (misspelling)) (4)
 1- Three Dubs Tarn (24/03/37)
 1- Brackenbet Tarn (10/11/36)
 1- Lake District (-/09/36)
 1- Ullswater, south beds (16/08/36)
 1- Harop Tarn (23/10/36)
 1- Loughrigg 2, Lake District (16/10/35)
 1- Solway, Cumberland (01/12/35)
 1- Rather Heath (29/10/35)
 3- dune slack, Littlesea (22/05/68)
 1- cow trough, Graythwaite (16/06/68)

Agabus congener (Thunberg) (-)
 no specimens

Agabus conspersus (Marsham) (4)
 1- Beaulieu (20/04/39)

Agabus didymus (Olivier) (-)
 no specimens

Agabus guttatus (Paykull) (4)
 1- Langdale 4, Lake District (20/10/35)
 1- Low Water, Lake District (-/04/33)

Agabus labiatus (Brahm) (= *femorialis* (Paykull)) (-)
 no specimens

Agabus melanarius Aubé (-)
 no specimens

Agabus melanocornis Zimmermann (-)
 no specimens

<i>Agabus nebulosus</i> (Forster)	(4)
1- King's College Fountain, Cambridge (-/05/33)	
2- King's College Fountain, Cambridge (-/03/35)	
<i>Agabus paludosus</i> (Fabricius)	(-)
no specimens	
<i>Agabus striolatus</i> (Gyllenhal)	(-)
no specimens	
<i>Agabus sturmi</i> (Gyllenhal)	(4)
2- Foulshaw, N. Lancs. (18/12/35)	
1- Esthwaite, N. Bed Pool (08/05/37)	
1- Harop Tarn, Lake District (23/09/36)	
1- New Tarn, Lake Tarn (28/09/36)	
<i>Agabus uliginosus</i> (Linnaeus) (=dispar Bold)	(-)
no specimens	
<i>Agabus undulatus</i> (Schrank) (=abbreviatus Fabricius)	(-)
no specimens	
<i>Agabus unguicularis</i> Thomson	(-)
no specimens	
<i>Ilybius aenescens</i> Thomson (=angustior sensu auct. not (Gyllenhal))	(4)
1- Tilberthwaite (18/04/38)	
<i>Ilybius ater</i> (Degeer)	(-)
no specimens	
<i>Ilybius fenestratus</i> (Fabricius)	(-)
no specimens	
<i>Ilybius fuliginosus</i> (Fabricius)	(4)
1- Harop Tarn (23/09/36)	
1- Loughrigg Tarn (25/08/38)	
1- Coniston Outflow bed (24/08/37)	
1- Brathay Mouth, North Bed (17/08/36)	
1- Waterhead Bay, Coniston (24/08/37)	
1- Three Dubs Tarn (31/07/36)	
2- Mouth of Blelham Fishpond Beck (06/07/660)	
1- Esthwaite, N. Bed Pool (08/05/37)	
<i>Ilybius guttiger</i> (Gyllenhal)	(4)
1- Tilberthwaite (18/04/38)	

- Ilybius quadriguttatus* (Lacordaire & Boisduval) (=obscurus (Marsham) nec (Panzer)) (-)
no specimens
- Ilybius subaeneus* Erichson (-)
no specimens
- Rhantus* (=Rantus) *abberatus* Gemminger & von Harold (=adsersus Fabricius) nec (Panzer))
(=bistriatus sensu auct.Europ. not (Bergstraesser)) (-)
no specimens
- Rhantus* (=Rantus) *bistriatus* (Bergstraesser) (=suturellus (Harris)) (4)
1- Three Dubs Tarn (07/08/37)
1- Rusland Moss, Lake District (-/04/33)
1- Three Tarns (11/10/37)
- Rhantus* (=Rantus) *exoletus* (Forster) (=exoletus auct. (misspelling)) (4)
1- Little John's Well, Derbyshire (-/08/67) NB: missing, but there is a loose specimen in box
1- Brathay Quarry (20/05/38)
1- New Tarn (28/09/36)
1- Moss Eccles Tarn (31/08/38)
1- Blelham Fishpond (06/09/38)
- Rhantus* (=Rantus) *frontalis* (Marsham) (=notatus sensu (Fabricius) not (Bergstraesser)) (-)
no specimens
- Rhantus* (=Rantus) *grapii* (Gyllenhal) (=grapei auct. (misspelling) (=grapi auct. (misspelling)) (-)
no specimens
- Rhantus* (=Rantus) *suturalis* (Macleay) (=pulverosus (Stephens)) (-)
no specimens
- Colymbetes fuscus* (Linnaeus) (4)
2- — (-/-/-)
1- King's College Fountain, Cambridge (-/11/34)
1- King's College Fountain, Cambridge (-/03/35)
1- Long Newton Reservoir (30/01/39)
1- Loughrigg (16/10/35)
- SUB FAMILY: DYTISCINAE
- Hydaticus* spp. (-)
no specimens
- Graphoderus* (=Graphoderes) spp. (-)
no specimens

<i>Acilius canaliculatus</i> (Nicolai) (=fasciatus sensu Fowler, not Degeer) no specimens	(-)
<i>Acilius sulcatus</i> (Linnaeus) (=scoticus Stephens) 1- King's College Fountain, Cambridge (-/03/35)	(4)
<i>Dytiscus circumcinctus</i> Ahrens no specimens	(-)
<i>Dytiscus circumflexus</i> Fabricius no specimens	(-)
<i>Dytiscus dimidiatus</i> Berstraesser no specimens	(-)
<i>Dytiscus lapponicus</i> Gyllenhal 1- — (-/-/-)	(4)
<i>Dytiscus marginalis</i> Linnaeus 1- Knittleton Tarn (27/05/38) 1- Wicken Fen (-/06/30)	(4 & 9) (4) (9)
<i>Dytiscus semisulcatus</i> Müller, O.F. (=punctulatus Fabricius) 1- Moine Mohr, AM (14/10/37)	(4)
FAMILY: GYRINIDAE	
SUB FAMILY: GYRININAE	
<i>Aulonogyrus striatus</i> (Fabricius) 5- Knittleton Tarn (02/02/38) 1- Lingmoor Tarn (11/12/35) 1- Slew Tarn (07/01/37)	(5)
<i>Gyrinus aeratus</i> Stephens (=edwardsi Sharp) (=opacus sensu auct. Brit.ad 1949 not Salberg, C.R.)(=thomsoni Zaitsev) 1- Loweswater, CU (29/04/48)	(5)
<i>Gyrinus bicolor</i> Fabricius (=paykulli Ochs) no specimens	(-)
<i>Gyrinus caspius</i> Ménériés (=elongatus Aubé) 1- Blelham Lake (20/09/48) 3- Crummock Water (17/09/48)	(5)
<i>Gyrinus colymbus</i> Erichson (=distinctus Aubé) no specimens	(-)

<i>Gyrinus marinus</i> Gyllenhal	(5)
6- Blelham Lake (20/09/48)	
1- Blelham lake (21/09/48)	
1- Crummock Water (17/09/48)	
2- Butterby Marsh (07/07/48)	
<i>Gyrinus minutus</i> Fabricius	(5)
5- Iron Keld (05/08/48)	
<i>Gyrinus natator</i> (Linnaeus) (=mergus Ahrens) (=oblitus Sharp)	(5 & 9)
1- Blelham Lake (21/09/48)	(5)
1- Coniston Outflow Bed (24/08/37)	
1- King's College Fountain (-/05/33)	
1- Reach Lode, Cambridge,(11/10/34)	
1- Bottisham Fen (-/05/30)	(9)
<i>Gyrinus opacus</i> Sahlberg, C.R. (=blairi Omer- Cooper) (=lecontei Omer- Cooper nec Fall) (-)	
no specimens	
<i>Gyrinus substriatus</i> Stephens (=fowleri Omer- Cooper) (NB: mixed with <i>G. natator</i>)	(5)
1- Three Dubs Tarn (13/05/48)	
1- Iron Keld (05/07/48)	
12- WMPF II (04/08/48)	
<i>Gyrinus suffriani</i> Scriba	(-)
no specimens	
<i>Gyrinus urinator</i> Illiger	(-)
no specimens	
+ <i>Gyrinidae</i> spp.	(1)
5- Littlesea (22/05/68)	
2- R. Frome, E.Stoke (24/05/68)	
SUB FAMILY: ORECTOCHILINAE	
<i>Orectochilus villosus</i> (Müller, O.F.)	(-)
no specimens	

3.6. ORDER: COLEOPTERA/ WATER BEETLES

SUB ORDER: POLYPHAGA (herbivorous water beetles)

Nomenclature follows that given in Pope, R.D. (1977) *A checklist of British Insects 3: Coleoptera and Strepsiptera*. Handbooks for the Identification of British Insects 9 (3). Royal Entomological Society of London.

(Box Number)

FAMILY: HYDROPHILIDAE

SUB FAMILY: SPERCHEINAE

no specimens

(-)

SUB FAMILY: GEORISSINAE

no specimens

(-)

SUB FAMILY: HYDROCHINAE

no specimens

(-)

SUB FAMILY: HELOPHORINAE

Helophorus (=Elophorus) *alternans* Gené (=intermedius Mulsant)

no specimens

(-)

Helophorus (=Elophorus) *aquaticus* (Linnaeus) (=aequalis Thomson, C. G.)(=aquaticus sensu auct. Brit. ad 1965 partim)

no specimens

(-)

Helophorus (=Elophorus) *arvernicus* Mulsant

no specimens

(-)

Helophorus (=Elophorus) *brevipalpis* Bedel (=bulbipalpis Kuwert)

2- Blelham Outflow Carr (15/07/40)

1- King's College Fountain (11/03/36)

(5)

Helophorus (=Elophorus) *dorsalis* (Marsham) (=quadrisignatus Bach)

no specimens

(-)

Helophorus (=Elophorus) *flavipes* (Fabricius) (=aeneipennis sensu auct. not Thomson, C.G.)

(=phalleterus Sharp) (=shetlandicus Kuert) (=sphagnicola Hardy)(=viridicollis Stephens)

2- Barngates Quarry (06/09/38)

1- Barrow Plantation (07/03/36)

1- Grassmoor, CU (30/09/36)

(5)

Helophorus (=Elophorus) *fulgidicollis* Motschulsky (=exasperatus Sharp)(=mulsanti Rye (nomen nudum)) (=mulsanti Cox)(=flavipes v. mulsanti sensu auct. Brit. partim)

no specimens

(-)

- Helophorus* (=Elophorus) *grandis* Illiger (=aquaticus sensu auct. Brit. partim, Strand, A., not (Linnaeus)) (-)
no specimens
- Helophorus* (=Elophorus) *granularis* (Linnaeus) (=breviscollis Thomson, C.G.) (=ytenensis Sharp) (-)
no specimens
- Helophorus* (=Elophorus) *griseus* Herbst (=affinis (Marsham) nec (Thunberg)) (=semifulgens sensu d' Orchymont, not Rey) (5)
1- Blelham Outflow Carr (15/07/40)
1- King's College Fountain (-/11/34)
- Helophorus* (=Elophorus) *laticollis* Thomson, C.G. (=pallidulus Thomson, C.G.) (-)
no specimens
- Helophorus* (=Elophorus) *longitarsis* Wollaston (=diffinis Sharp) (=erichsoni Bach) (=semifulgens Rey) (-)
no specimens
- Helophorus* (=Elophorus) *minutus* Fabricius (-)
no specimens
- Helophorus* (=Elophorus) *nanus* Sturm (-)
no specimens
- Helophorus* (=Elophorus) *nubilus* Fabricius (=nubilus auct. (misspelling)) (-)
no specimens
- Helophorus* (=Elophorus) *obscurus* Mulsant (=aeneipennis Thomson, C.G.) (=walkeri Sharp) (-)
no specimens
- Helophorus* (=Elophorus) *porculus* Bedel (=rugosus sensu auct. partim not Olivier) (-)
no specimens
- Helophorus* (=Elophorus) *rufipes* (Bosc d' Antic) (=rugosus Olivier) (-)
no specimens
- Helophorus* (=Elophorus) *strigifrons* Thomson, C.G. (=champoni Sharp) (=crenatus Rey) (-)
no specimens
- Helophorus* (=Elophorus) *tuberculatus* Gyllenhal (=scaber LeConte) (-)
no specimens
- SUB FAMILY: SPHAERIDIINAE (-)
no specimens

SUB FAMILY: HYDROPHILINAE

Paracymus spp. (-)
no specimens

Hydrobius fuscipes (Linnaeus) (=chalconotus Stephens) (=picicrus Thomson) (=subrotundus Stephens) (8)

- 1- Rampstead Quarry (06/09/38)
- 1- School Knotts Moss (11/04/38)
- 1- Three Dubs Tarn (18/04/40)
- 1- Barngates Quarry II (06/09/38)

Limnoxenus (=Hydrobius) *niger* (Zschach) (=oblongus (Herbst)) (-)
no specimens

Anacaena bipustulata (Marsham) (-)
no specimens

Anacaena globulus (Paykull) (8)

- 3- Three Dubs Tarn (28/07/40)
- 1- Rampstead Quarry (06/09/38)
- 3- Three Dubs Tarn (07/08/37)
- 2- Newmarket, Cambridge (21/10/34)
- 1- Coniston Outflow Bed (24/08/37)

Anacaena limbata (Fabricius) (=nitida (Heer)) (=ovata (Reiche)) (8)

- 2- Congo Carr (15/07/40)
- 2- Barngates Quarry (06/09/38)
- 1- School Knotts Moss (11/04/38)
- 1- Rampstead Quarry Pool (06/09/38)

Laccobius spp. (-)
no specimens

Helochares lividus (Forster) (=punctatus Sharp) (8)

- 1- School Knotts Tarn (11/04/38)
- 1- Haverthwaite Peat Pool (25/10/38)

Helochares obscurus (Müller, O.F.) (=griseus (Fabricius)) (-)
no specimens

Enochrus (=Philhydrus) (=Philydrus) *affinis* (Thunberg) (=minutus sensu auct.? Sensu (Fabricius,1801) not (Fabricius, 1775, 1792)) (-)
no specimens

Enochrus (=Philhydrus) (=Philydrus) *bicolor* (Fabricius) (=maritimus (Thomson, C.G.)) (-)
no specimens

<i>Enochrus</i> (= <i>Philhydrus</i>) (= <i>Philydrus</i>) <i>coarctatus</i> (Gredler) (= <i>suturalis</i> Sharp) no specimens	(-)
<i>Enochrus</i> (= <i>Philhydrus</i>) (= <i>Philydrus</i>) <i>melanocephalus</i> (Olivier) (= <i>bicolor</i> sensu (Fowler) not (Fabricius)) 2- Tilberthwaite (18/04/38)	(8)
<i>Enochrus</i> (= <i>Philhydrus</i>) (= <i>Philydrus</i>) <i>ochropterus</i> (Marsham) (= <i>frontalis</i> (Erichson)) (= <i>nigricans</i> (Zetterstedt)) no specimens	(-)
<i>Enochrus</i> (= <i>Philhydrus</i>) (= <i>Philydrus</i>) <i>quadripunctatus</i> (Herbst) (= <i>fuscipennis</i> (Thomson, C.G.)) (= <i>halophilus</i> (Bedel)) (= ? <i>melanocephalus</i> sensu (Fabricius) not (Olivier)) (= <i>melanocephalus</i> sensu auct. Brit. partim not (Olivier)) (= <i>ytensis</i> (Sharp)) no specimens	(-)
<i>Enochrus</i> (= <i>Philhydrus</i>) (= <i>Philydrus</i>) <i>testaceus</i> (Fabricius) no specimens	(-)
<i>Cymbiodyta marginella</i> (Fabricius) (= <i>ovalis</i> (Thomson, C.G.)) no specimens	(-)
<i>Chaetarthria seminulum</i> (Herbst) (= <i>coccinelloides</i> (Stephens)) no specimens	(-)
<i>Hydrochara</i> (= <i>Hydrocharis</i>) (= <i>Hydrophilus</i>) <i>caraboides</i> (Linnaeus) 2- — (-/-/-)	(8)
<i>Hydrophilus</i> (= <i>Hydrous</i>) <i>piceus</i> (Linnaeus) no specimens	(-)
<i>Berosus affinis</i> Brullé 1- Carnbrae, Redruth, Cornwall (27/12/36)	(8)
<i>Berosus luridus</i> (Linnaeus) no specimens	(-)
<i>Berosus signaticollis</i> (Charpentier) 1- Gin 1, Beaulieu, SH (20/04/37)	(8)
<i>Berosus spinosus</i> (von Steven in Schoenherr) no specimens	(-)
<i>Hydrophilinae</i> spp. 2- Blelham Outflow Carr (15/07/40) 2- Blelham Fishpond (06/09/38) 1- Gillhead Reservoir (14/06/38)	(8)

1- Grasmere (28/08/38)

FAMILY: HYDRAENIDAE (=HYDROPHILIDAE)

Ochthebius (=Enicocerus) (=Henicocerus) spp. (-)
no specimens

Hydraena britteni Joy (-)
no specimens

Hydraena gracilis Germar (=elongata Curtis) (5)
1- Black Beck (29/04/40)

Hydraena minutissima Stephens (=atricapilla Waterhouse, G.R.) (-)
no specimens

Hydraena nigrita Germar (-)
no specimens

Hydraena palustris Erichson (-)
no specimens

Hydraena pulchella Germar (-)
no specimens

Hydraena pygmaea Waterhouse, G.R. (-)
no specimens

Hydraena riparia Kugelann (5)
1- Waterhead Bay, Coniston (24/08/37)

Hydraena rufipes Curtis (=anigustata sensu auct. Brit not Sturm) (=longior Rey) (-)
no specimens

Hydraena testacea Curtis (-)
no specimens

Limnebius (=Limnobioides) *aluta* (Bedel) (=minutissimus sensu Balfour- Browne, J., not (Germar) (=picinus sensu auct. Brit. partim not (Marsham)) (-)
no specimens

Limnebius (=Limnobioides) *nitidus* (Marsham) (=picinus (Marsham)) (-)
no specimens

Limnebius (=Limnobioides) *papposus* Mulsant (5)
1- King's College Fountain, CB (-/05/33)
1- Trinity College Fountain, CB (-/11/32)

Limnebius (=Limnobiuss) *truncatellus* (Thunberg) (5)
2- Rampstead Quarry, WL (06/09/38)

FAMILY: SCIRTIDAE (=CYPHONIDAE) (=DASCILLIDAE) (=ELODIDAE) (=HELODIDAE) (-)
no specimens

FAMILY: HETEROCERIDAE (-)
no specimens

FAMILY: LIMNICHIDAE (=BYRRHIDAE) (-)
no specimens

FAMILY: DRYOPIDAE (=PARNIDAE) (-)
no specimens

FAMILY: ELMIDAE (=ELMINTHIDAE)
Elmis (=Helmis) *aenea* (Müller, P.W.J.) (=maugei sensu auct. Brit. not Bedel) (=megerlei sensu auct. Brit. not (Duftschmid) (7)

2- FWB (NB: probably Ford Wood Beck) st1, WL (19/09/49)

1- FWB, st4, WL (26/10/51)

2- FWB, st1, WL (15/03/60)

1- Cunsey Beck (18/08/62)

1- East Stoke, DT (08/08/62)

1- Epley Head, Windermere (05/05/65)

6- in moss, Dan Beck (02/05/50)

1- Raise Beck (17/10/39)

4- West Dart (13/07/57)

1- R. Bela (29/06/65)

1- High Wray Beck (24/11/49)

1- Esthwaite (09/02/66)

6- FWB Moss, WL (23/11/66)

1- FWB st3, WL (26/09/51)

1- Outgate Beck (26/07/51)

1- Stock Gyll Beck (15/11/49)

Esolus (=Elmis) *parallelepipedus* (Müller, P.W.J.) (=parallelopipedus auct. (misspelling)) (7)
1- Rawlingson's Nab, South Side, Windermere (04/05/65)

Limnius (=Elimis) (=Latelmis) *volckmari* (Panzer) (=volkmari auct. (misspelling)) (7)

1- R. Rothay, WL (02/02/39)

3- R, Severn, Preston Monford (-/06/60)

2- West Dart (13/07/57)

3- Sellafield, Cumbria (-/05/50)

1- FWB (NB: probably Ford Wood Beck) st1 (15/02/60)

6- East Stoke (08/08/62)

2- R. Bela (29/06/65)

1- Ennerdale (01/06/65)

1- FWB, ss (21/06/63)

1- FWB st5 (17/06/52)

1- West Dart (13/07/57)

1- R. Rothay (31/05/40)

Macronychus quadrituberculatus Müller, P.W.J (-)
no specimens

Normandia (=Aptyktophallus) (=Riolus) nitens (Müller, P.W.J) (=sodalis sensu auct. Brit. not (Erichson)) (-)
no specimens

Oulimnius (=Limnius) rivularis (Rosenhauer) (=variabilis sensu auct. Brit. not (Stephens)) (-)
no specimens

Oulimnius (=Limnius) troglodytes (Gyllenhal) (7)
2- — (-/-/-)
1- L. Windermere (23/08/40)

Oulimnius (=Limnius) tuberculatus (Müller, P.W.J) (=variabilis (Stephens)) (7)
1- High Wray Bay (19/02/42)
2- R. Severn, Preston Monford (-/06/62)
1- East Stoke (08/08/62)
1- Ullswater (25/05/65)
1- Coatlap Point (13/05/65)
1- Windermere (18/03/65)

Riolus (=Elmis) spp. (-)
no specimens

Stenelmis canaliculata (Gyllenhal) (7)
1- Ferry House Shore, Windermere (13/05/65)
4- Ferry House Shore, Windermere (29/09/67)
2- Windermere (08/07/60)
1- Windermere (19/03/65)
1- High Wray Bay (19/02/40)

FAMILY: CHRYSOMELIDAE
SUB FAMILY: DONACINNAE

Macrolea (=Haemonia) spp. (-)
no specimens

Donacia aquatica (Linnaeus) (=dentipes Fabricius) (-)
no specimens

<i>Donacia bicolor</i> Zschach (=bicolor auct. (misspelling)) (=sagittariae Fabricius) no specimens	(-)
<i>Donacia cinerea</i> Herbst no specimens	(-)
<i>Donacia clavipes</i> Fabricius (=menyanthidis Gyllenhal) (=menyanthis Fabricius) no specimens	(-)
<i>Donacia crassipes</i> Fabricius no specimens	(-)
<i>Donacia dentata</i> Hoppe no specimens	(-)
<i>Donacia impressa</i> Paykull 3- Blelham (NB: 2 are loose in box) (03/07/64)	(6)
<i>Donacia marginata</i> Hoppe (=lemnae Fabricius) (=limbata Panzer) no specimens	(-)
<i>Donacia obscura</i> Gyllenhal 3- cage, Hodson's Tarn (15/05/62) 4- cage, Hodson's Tarn (02/05/62) 4- cage, Hodson's Tarn (07/05/62) 3- cage, Hodson's Tarn (13/06/62) 1- cage in <i>Carex</i> , Hodson's Tarn (06/06/32) 2- cage in <i>Carex</i> , Hodson's Tarn (03/05/62)	(6)
<i>Donacia semicuprea</i> Panzer no specimens	(-)
<i>Donacia simplex</i> Fabricius (=linearis Hoppe) no specimens	(-)
<i>Donacia sparganii</i> Ahrens no specimens	(-)
<i>Donacia thalassina</i> Germar 1- <i>Carex</i> off E., Hodson's Tarn (06/09/60)	(6)
<i>Donacia versicolore</i> a (Brahm) 2- cage, Hodson's Tarn (05/09/62) 1- <i>Carex</i> by cage, Hodson's Tarn (29/08/62) 1- cage in <i>Carex</i> (22/08/62)	(6)

Donacia vulgaris Zschach (= *typhae* Ahrens) (-)
no specimens

Plateumaris (= *Donacia*) spp. (-)
no specimens

+ *Donacia* spp. (6)
5- cage in *Carex*, Hodson's Tarn (23/05/63)
1- *Carex*, Hodson's Tarn (11/10/63)
2- cage in *Carex*, Hodson's Tarn (23/04/63)
4- cage in *Carex*, Hodson's Tarn (30/05/63)
3- cage in *Carex*, Hodson's Tarn (16/05/63)
2- cage in *Carex*, Hodson's Tarn (11/02/62)
2- cage, Hodson's Tarn (02/05/63)
4- *Carex* 14-15, Hodson's Tarn SCS (27/09/62)
13- cage, Hodson's Tarn (25/09/62)
6- cage, Hodson's Tarn (01/10/62)
1- cage, Hodson's Tarn (08/11/62)
7- cage, Hodson's Tarn (19/09/62)
2- cage, Hodson's Tarn (19/09/63)
1- cage, Hodson's Tarn (22/08/63)
13- cage, Hodson's Tarn (29/09/63)
2- cage, Hodson's Tarn (05/09/63)
4- cage, Hodson's Tarn (03/10/63)
1- cage, Hodson's Tarn (11/10/63)

SUB FAMILY: ADEPHAGA- *red thread*

SUB FAMILY: POLYPHAGA- *green thread*

LAMELLICORNA - *cream thread*

RHYNCOPTERA- *blue thread*

PHYTOPHAGA- *red thread*

HETEROMERA- *pastel green thread*

DIVERSICORINA- *orange thread*

3.7. TRICHOPTERA / CADDIS

Nomenclature follows that given in: Edington , J.M. & Hildrew, A.G. (1995) *A Revised Key to the Caseless Caddis Larvae of the British Isles with Notes on their Ecology*. Scient. Publ. Freshwat.biol. Ass. No.53. F.B.A., Ambleside.

(Box Number)

FREE- LIVING CADDIS

FAMILY: RHYACOPHILIDAE

Rhyacophila dorsalis (Curtis) (3 & 4)

1- Blelham Fishpond (15/05/41) (3)

1- R. Brathay (28/07/42)

1- Troutbeck (21/09/41)

1- Cunsey Beck (07/05/54)

1- (cage) Smooth Beck (19/08/49)

1- (cage) Smooth Beck (05/09/49) (4)

Rhyacophila munda McLachlan (-)
no specimens

Rhyacophila obliterated McLachlan (3)
2- Hawkshead Hill (20/09/41)

Rhyacophila septentrionis McLachlan (-)
no specimens

CASELESS CADDIS

FAMILY: PHILOPOTAMIDAE

Philopotamus montanus (Donovan) (3)

1- Stock Gyll (07/05/41)

1- Hawkshead Hill (06/08/41)

1- Hawkshead Hill (04/08/41)

Wormaldia mediana McLachlan (-)
no specimens

Wormaldia occipitalis (Pictet) (3)

1- Finsthwaite, Lancs. (11/09/42)

1- Boathouse 2 Beck, Windermere (20/05/42)

1- Troutenbeck Head, WL (04/10/41)

Wormaldia subnigra McLachlan (3)

1- Troutbeck (21/09/41)

Chimarra marginata (Linnaeus) (3)

1- Cunsey Beck (19/07/41)
1- R. Brathay (28/07/42)
1- R. Brathay (02/08/41)

FAMILY: PSYCHOMYIIDAE

Lype phaeopa (Stephens) (3)
2- Blelham (12/06/42)
1- Cunswick Tarn, WL (19/05/42)

Lype reducta (Hagen) (-)
no specimens

Metalype fragilis (Pictet) (-)
no specimens

Psychomyia pusilla (Fabricius) (3)
2- R. Brathay (28/07/42)

Tinodes assimilis McLachlan (-)
no specimens

Tinodes dives (Pictet) (-)
no specimens

Tinodes maclachani (Kimmins) (=aureolus) (-)
no specimens

Tinodes maculicornis (Pictet) (-)
no specimens

Tinodes pallidulus McLachlan (-)
no specimens

Tinodes rostocki McLachlan (-)
no specimens

Tinodes unicolor (Pictet) (-)
no specimens

Tinodes waeneri (Linnaeus) (3)
1- High Wray Bay (14/08/44)
1- Blelham (12/06/42)

FAMILY: ECNOMIDAE

Ecnomus tenellus (Rambur) (-)
no specimens

FAMILY: POLYCENTROPODIDAE

<i>Cyrnus flavidus</i> McLachlan	(3)
2- Tarn Hows (23/07/41)	
<i>Cyrnus insolutus</i> McLachlan	(3)
2- Blelham (31/07/41)	
1- — (-/-/-)	
<i>Cyrnus trimaculatus</i> (Curtis)	(3 & 4)
1- High Wray Bay (22/07/41)	(3)
1- Blelham Beck (31/07/42)	
3- Three Dubs Tarn (05/06/47)	(4)
1- Three Dubs Tarn (16/07/47)	
1- Three Dubs Tarn (23/07/47)	
2- Three Dubs Tarn (06/08/47)	
1- Three Dubs Tarn (30/07/47)	
1- Three Dubs Tarn (02/07/47)	
1- Three Dubs Tarn (18/06/47)	
1- Three Dubs Tarn (11/06/47)	
<i>Holocentropus dubius</i> (Rambur)	(2)
1- Scale Tarn, Claife Heights (18/06/41)	
<i>Holocentropus picicornis</i> (Stephens)	(2)
1- Blelham Fishpond (14/08/42)	
<i>Holocentropus stagnalis</i> (Albarda)	(-)
no specimens	
<i>Neureclipsis bimaculata</i> (Linnaeus)	(2)
2- Cunsey Beck (14/09/41)	
<i>Plectrocnemia brevis</i> McLachlan	(-)
no specimens	
<i>Plectrocnemia conspersa</i> (Curtis)	(2)
1- Hawkshead Hill (15/08/44)	
<i>Plectrocnemia geniculata</i> McLachlan	(2)
1- (cage) Smooth Beck (18/08/49)	
<i>Polycentropus flavomaculatus</i> (Pictet)	(2)
1- Cunsey Beck (02/08/49)	
1- Blelham Beck (14/05/42)	
1- Blelham (31/07/4-)	
1- R. Lambourne (-/-/-)	

<i>Polycentropus irroratus</i> (Curtis)(= <i>multiguttatus</i>) no specimens	(-)
<i>Polycentropus kingi</i> McLachlan 1- Cunsey Beck (02/08/41)	(2)
FAMILY: HYDROPSCHIDAE	
<i>Cheumatopsyche lepida</i> (Pictet) 2- R. Crake, Lancs. (31/07/41)	(2)
<i>Diplectrona felix</i> McLachlan 1- Hawkshead Hill (27/07/41)	(2)
<i>Hydropsyche angustipennis</i> (Curtis) 2- Blelham Beck (03/06/42) 1- Blelham Beck (17/06/42)	(2)
<i>Hydropsyche bulgaromanorum</i> Malicky (=guttata) no specimens	(-)
<i>Hydropsyche contubernalis</i> McLachlan (=ornatula) no specimens	(-)
<i>Hydropsyche exocellata</i> Dufour no specimens	(-)
<i>Hydropsyche instabilis</i> (Curtis) (=fulvipes) no specimens	(-)
<i>Hydropsyche pellucidula</i> (Curtis) no specimens	(-)
<i>Hydropsyche saxonica</i> McLachlan no specimens	(-)
<i>Hydropsyche siltalai</i> Döhler (=instabilis) (NB: labelled as <i>instabilis</i>) 1- Rydal Beck (19/07/41) 1- R. Brathay (28/07/42) 1- R. Leven, Lancs. (11/09/42) 1- (cage) Smooth Beck (09/08/49)	(2 & 4) (4)

3.8. TRICHOPTERA /CASE- BEARING CADDIS

Nomenclature follows that given in: Wallace, I.B., Wallace, B. & Philipson, G.N. (1990) *A Key to the Case-bearing Caddis Larvae of Britain and Ireland*. Scient. Publs. Freshwat.biol. Ass. No.51. FBA, Ambleside

	(Box Number)
FAMILY: GLOSSOSOMATIDAE	
<i>Glossosoma boltoni</i> (=vernale) Curtis	(3)
1- Peterdale (02/05/42)	
1- R. Eden, CU (28/04/54)	
2- Stock Ghyll (16/06/42)	
<i>Glossosoma conformis</i> Neboiss	(-)
no specimens	
<i>Glossosoma intermedium</i> (Klapálek)	(3)
2- Hoathwaite Beck, Coniston (05/05/42)	
<i>Agapetus delicatulus</i> McLachlan	(-)
no specimens	
<i>Agapetus fuscipes</i> Curtis	(3 & 4)
1- High Wray Bay (05/06/42)	(3)
1- Wray Castle (09/06/42)	
1- Ford Wood Beck (06/07/50)	(4)
1- Ford Wood Beck (19/07/50)	
1- Ford Wood Beck (20/06/50)	
1- Ford Wood Beck (21/06/50)	
<i>Agapetus ochripes</i> (=comatus) Curtis	(-)
no specimens	
FAMILY: HYDROPTILIDAE	
<i>Agraylea multipunctata</i> Curtis	(3)
1- — (-/-/-)	
8- Esthwaite (06/07/41)	
<i>Agraylea sexmaculata</i> Curtis (= <i>Allotrichia pallidula</i>)	(3)
6- —(-/-/-)	
<i>Allotrichia pallicornis</i> (Eaton)	(-)
no specimens	
<i>Hydroptila angulata</i> Mosely	(-)
no specimens	

<i>Hydroptila cornuta</i> Mosely no specimens	(-)
<i>Hydroptila forcipata</i> (Eaton) no specimens	(-)
<i>Hydroptila lotensis</i> Mosely no specimens	(-)
<i>Hydroptila martini</i> Marshall no specimens	(-)
<i>Hydroptila occulta</i> (Eaton) no specimens	(-)
<i>Hydroptila pulchricornis</i> Pictet 3- Esthwaite (-/-/-)	(3)
<i>Hydroptila simulans</i> Mosely no specimens	(-)
<i>Hydroptila sparsa</i> Curtis no specimens	(-)
<i>Hydroptila sylvestris</i> Morton no specimens	(-)
<i>Hydroptila tigurina</i> Ris no specimens	(-)
<i>Hydroptila tineoides</i> Dalman (= <i>femoralis</i>) 2- Low Wray Bay (30/08/41) 1- High Wray Bay (07/06/41)	(3)
<i>Hydroptila valesiaca</i> Schmid no specimens	(-)
<i>Hydroptila vectis</i> Curtis no specimens	(-)
<i>Oxyethira distinctella</i> McLachlan no specimens	(-)
<i>Oxyethira falcata</i> Morton no specimens	(-)

<i>Oxyethira flavicornis</i> (Pictet) (=costalis)	(3 & 4)
3- Blelham Beck (25/06/41)	(3)
2- Three Dubs Tarn (18/06/47)	(4)
6- Three Dubs Tarn (11/06/47)	
<i>Oxyethira frici</i> Klapálek	(-)
no specimens	
<i>Oxyethira mirabilis</i> Morton	(-)
no specimens	
<i>Oxyethira sagittifera</i> Ris	(3)
4- Blelham Fishpond (04/06/41)	
<i>Oxyethira simplex</i> Ris	(-)
no specimens	
<i>Oxyethira tristella</i> Klapálek	(-)
no specimens	
<i>Tricholeiochiton fagesii</i> (Guinard)	(-)
no specimens	
<i>Ithytrichia</i> spp.	(-)
no specimens	
<i>Orthotrichia</i> spp.	(-)
no specimens	
FAMILY: PHRYGANEIDA	
<i>Agrypnia</i> (=Agrypnetes) crassicornis (McLachlan)	(-)
no specimens	
<i>Agrypnia</i> (=Phryganea) obsoleta (Hagen)	(1)
4- Lingmoor Tarn (1300ft) (23/08/42)	
1- Raasay, Hebrides (04- 24/08/36)	
<i>Agrypnia pagetana</i> Curtis	(-)
no specimens	
<i>Agrypnia picta</i> Kolenati	(-)
no specimens	
<i>Agrypnia</i> (=Phryganea) varia (Fabricius)	(1 & 4)
3- Blelham (04/07/41)	(1)
2- Three Dubs Tarn (27/08/47)	(4)
1- Three Dubs Tarn (13/08/47)	

2- Three Dubs Tarn (06/08/47)	
1- Three Dubs Tarn (30/07/47)	
<i>Hagenella</i> (= <i>Oligotricha</i>) <i>clathrata</i> (Kolenati)	(-)
no specimens	
<i>Oligotricha</i> (= <i>Neuronia</i>) <i>striata</i> (Linnaeus) (= <i>ruficrus</i>)	(1)
3- Brathay Quarries (08/06/42)	
<i>Phryganea</i> <i>bipunctata</i> Retzius (= <i>striata</i>)	(1)
2- Blelham (03/06/42)	
1- Claife Heights, Wray Mires Tarn (21/06/41)	
1- — (-/-/-)	
<i>Phryganea</i> <i>grandis</i> Linnaeus	(-)
no specimens	
<i>Trichostegia</i> <i>minor</i> (Curtis)	(-)
no specimens	
FAMILY: LIMNEPHILIDAE	
<i>Ironoquia</i> <i>dubia</i> (Stephens)	(-)
no specimens	
<i>Apatania</i> <i>auricula</i> (Forslund)	(-)
no specimens	
<i>Apatania</i> <i>muliebris</i> McLachlan (= <i>nielseni</i>)	(-)
no specimens	
<i>Apatania</i> <i>wallengreni</i> McLachlan	(1)
3- High Wray Bay, Windermere (14/04/42)	
<i>Drusus</i> <i>annulatus</i> (Stephens)	(1)
1- Rydal Head, WL (03/08/41)	
1- Hawkshead Hill (18/08/41)	
1- Hawkshead Hill (21/08/41)	
1- R. Leven, Lancs. (11/09/42)	
<i>Ecclisopteryx</i> <i>guttulata</i> (Pictet)	(1)
1- Black Beck (03/05/40)	
1- Stock Ghyll (16/04/42)	
<i>Allogamus</i> <i>auricollis</i> (Pictet)	(1)
2- Troutbeck, WL (21/09/41)	
1- Hebden, Yorks (15/09/32)	

<i>Enoicyla pusilla</i> (Burmeister) no specimens	(-)
<i>Halesus digitatus</i> (Schrank) no specimens	(-)
<i>Halesus radiatus</i> (Curtis) 1- Troutbeck (21/09/41) 1- — (-/-/-)	(1)
<i>Hydatophylax infumatus</i> (McLachlan) no specimens	(-)
<i>Melampophylax mucoreus</i> (Hagen) (= <i>Halesus guttapennis</i>) 1- Kilnshaw Chimney, WL (25/09/42)	(1)
<i>Mesophylax aspersus</i> (Rambur) no specimens	(-)
<i>Mesophylax impunctatus</i> McLachlan 1- High Wray Bay (11/06/42)	(1)
<i>Micropterna</i> (= <i>Stenophylax</i>) <i>lateralis</i> (Stephens) no specimens	(-)
<i>Micropterna</i> (= <i>Stenophylax</i>) <i>sequax</i> McLachlan no specimens	(-)
<i>Potamophylax cingulatus</i> (Stephens) no specimens	(-)
<i>Potamophylax latipennis</i> (Curtis) 2- (cases) Belle Grange Beck, Lancs. (12/08/43) 3- — (-/-/-) 1- — (28/07/38) 1- R. Leven (11/09/42) 1- High Wray Bay (29/09/41) 1- (cage) Smooth Beck (-/-/49) 12- Belle Grange (-/08/36)	(1)
<i>Potamophylax rotundipennis</i> (Brauer) no specimens	(-)
<i>Stenophylax permistus</i> McLachlan 1- light (11/05/36)	(1)

<i>Stenophylax vibex</i> (Curtis) no specimens	(-)
<i>Chaetopteryx villosa</i> (Fabricius) no specimens	(-)
<i>Anabolia nervosa</i> (Curtis) 3- River Brathay (02/09/44) 1- Dartmoor (-/08/19)	(1)
<i>Glyphotaelius pellucidus</i> (Retzius) 2- Blelham Fishpond Beck (27/05/41) 1- Blelham Fishpond Beck(18/08/41) 1- Wray Castle (16/07/41) 1- Tarn Hows (23/07/41)	(1)
<i>Grammotaulius nigropunctatus</i> (Retzius) no specimens	(-)
<i>Grammotaulius nitidus</i> (Müller) no specimens	(-)
<i>Limnephilus affinis</i> Curtis no specimens	(-)
<i>Limnephilus auricula</i> Curtis 1- Blelham Fishpond Beck (19/08/41) 1- Blelham Fishpond Beck (25/05/41) 1- Torquay Reservoir (17/05/30)	(1)
<i>Limnephilus binotatus</i> Curtis (=xanthodes) 1- Blelham (16/06/41) 1- Blelham (29/05/41) 1- Blelham (13/06/41)	(1)
<i>Limnephilus bipunctatus</i> Curtis no specimens	(-)
<i>Limnephilus borealis</i> (Zetterstedt) no specimens	(-)
<i>Limnephilus centralis</i> Curtis 1- Windsor Forest, Berks (09/09/31) 1- Blelham Fishpond (20/08/41) 1- Scale Tarn, Claife Heights (18/06/41)	(1)

<i>Limnephilus coenosus</i> Curtis no specimens	((-)
<i>Limnephilus decipiens</i> (Kolenati) no specimens	(-)
<i>Limnephilus elegans</i> Curtis 2- Ireland Moss, Haverthwaite, Lancs. (21/05/42)	(1)
<i>Limnephilus extricatus</i> McLachlan 1- Cunsey Beck (02/08/41)	(1)
<i>Limnephilus flavicornis</i> (Fabricius) 1- — (-/09-27)	(1)
<i>Limnephilus fuscicornis</i> (Rambur) no specimens	(-)
<i>Limnephilus fuscinervis</i> (Zetterstedt) no specimens	(-)
<i>Limnephilus griseus</i> (Linnaeus) no specimens	(-)
<i>Limnephilus hirsutus</i> (Pictet) no specimens	(-0)
<i>Limnephilus ignavus</i> McLachlan no specimens	(-)
<i>Limnephilus incisus</i> Curtis 1- Blelham Beck (25/06/41)	(1)
<i>Limnephilus lunatus</i> Curtis 1- Brathay Quarries (-/07/37) 2- Low Wray Beck (23/07/37) 1- Low Wray Beck (30/07/41) 1- High Wray Beck (25/09/41) 2- Rather Heath (22/09/54)	(1 & 4) (1) (4)
<i>Limnephilus luridus</i> Curtis 1- Blelham Beck (12/06/42) 1- Blelham Fishpond Beck (12/06/42)	(1)
<i>Limnephilus marmoratus</i> Curtis 1- — (18/12/37) 1- — (05/08/37)	(1)

1- Lake District (10/07/36)	
1- — (27/08/37)	
3- Tarn Hows (23/07/41)	
1- Three Dubs Tarn (-/08/41)	
<i>Limnephilus nigriceps</i> (Zetterstedt)	(-)
no specimens	
<i>Limnephilus pati</i> O'Connor	(-)
no specimens	
<i>Limnephilus politus</i> McLachan	(-)
no specimens	
<i>Limnephilus rhombicus</i> (Linnaeus)	(1)
1- Blelham (04/07/41)	
1- Tarn Hows (23/07/41)	
1- Scale Tarn, Claife Heights (18/06/41)	
<i>Limnephilus sparsus</i> Curtis	(1)
1- Torquay Reservoir (17/05/30)	
2- Blelham Fishpond (18/08/41)	
<i>Limnephilus stigma</i> Curtis	(1)
1- Pyrenees Orient, R. Tet, Mont Louis (22/06 - 02/07/23)	
<i>Limnephilus subcentralis</i> (Brauer)	(-)
no specimens	
<i>Limnephilus tauricus</i> Schmid	(-)
no specimens	
<i>Limnephilus vittatus</i> (Fabricius)	(1)
1- Ross Links, N. Northumberland (25/09/36)	
<i>Nemotaulius punctatolineatus</i> (Retzius)	(-)
no specimens	
<i>Phacopteryx</i> (=Anabolia) <i>brevipennis</i> (Curtis)	(-)
no specimens	
<i>Rhadicoleptus</i> (=Stenophylax) <i>alpestris</i> (Kolenati)	(-)
no specimens	

FAMILY: LEPTOCERIDAE

Athripsodes (=Leptocerus) *albifrons* (= *interjectus*) (Linnaeus) (2)

1- R. Brathay (28/07/42)

1- R. Crake, Lancs (30/08/41)

1- R. Brathay (02/08/41)

1- Cunsey Beck (19/07/41)

Athripsodes (=Leptocerus) *aterrimus* (Stephens) (2 & 4)

2- Blelham (12/06/42) (2)

1- Hawkshead (23/06/41)

1- Brathay Quarries (15/07/37)

1- — (-/-/-)

1- Three Dubs Tarn (31/06/46)

2- Three Dubs Tarn (20/08/46)

1- Three Dubs Tarn (-/08/46)

1- Three Dubs Tarn (23/08/46)

1- Three Dubs Tarn (24/08/46)

1- Three Dubs Tarn (16/07/47) (4)

1- Three Dubs Tarn (13/08/47)

1- (inside screen) Wray Mires (03/08/49)

Athripsodes (=Leptocerus) *bilineatus* (Linnaeus) (-)

no specimens

Athripsodes (=Leptocerus) *cinereus* (Curtis) (2)

1- High Wray Bay (22/07/41)

1- High Wray Bay (14/07/41)

1- Wray Castle (16/07/41)

1- Newton Abbot (18/06/22)

Athripsodes (=Leptocerus) *commutatus* (Rostock) (-)

no specimens

Ceraclea albimacula (Rambur) (= *Athripsodes alboguttatus*) (2)

1- R. Brathay (28/07/42)

Ceraclea (= *Athripsodes*) *annulicornis* (Stephens) (-)

no specimens

Ceraclea (= *Athripsodes*) *dissimilis* (Stephens) (2)

1- R. Brathay (28/07/42)

Ceraclea (= *Athripsodes*) *fulva* (Rambur) (-)

no specimens

<i>Ceraclea (=Athripsodes) nigronervosa</i> (Retzius)	(2)
2- High Wray Bay (11/06/42)	
1- — (-/-/-)	
<i>Ceraclea (=Athripsodes) senilis</i> (Burmeister)	(-)
no specimens	
<i>Leptocerus interruptus</i> (Fabricius)	(-)
no specimens	
<i>Leptocerus lusitanicus</i> (McLachlan)	(-)
no specimens	
<i>Leptocerus tineiformis</i> Curtis	(-)
no specimens	
<i>Mystacides azurea</i> (Linnaeus)	(2 & 4)
3- — (-/-/-)	(2)
1- Low Wray Bay (04/09/41)	
1- High Wray Bay (25/09/41)	
2- High Wray Bay (29/09/41)	
2- Wray Mires (29/08/49)	(4)
2- Wray Mires (17/08/49)	
2- Wray Mires (22/08/49)	
<i>Mystacides longicornis</i> (Linnaeus)	(2)
1- Hythe (08/09/12)	
1- Blelham (04/07/41)	
<i>Mystacides nigra</i> (Linnaeus)	(2)
1- Wray Castle (04/08/42)	
<i>Adicella filicornis</i> (Pictet)	(-)
no specimens	
<i>Adicella reducta</i> (McLachlan)	(-)
no specimens	
<i>Erotesis baltica</i> McLachlan	(2)
2- Blelham (04/07/41)	
<i>Triaenodes bicolor</i> (Curtis)	(2)
1- — (-/-/-)	
2- Tarn Hows (23/07/41)	
1- Three Dubs Tarn (-/08/46)	
1- Three Dubs Tarn (23/08/46)	
1- Three Dubs Tarn (24/08/46)	

<i>Ylodes</i> (= <i>Triaenodes</i>) <i>conspersus</i> (Rambur) no specimens	(-)
<i>Ylodes</i> (= <i>Triaenodes</i>) <i>reuteri</i> (McLachlan) no specimens	(-)
<i>Ylodes</i> (= <i>Triaenodes</i>) <i>simulans</i> (Tjeder) no specimens	(-)
<i>Oecetis furva</i> (Rambur) 1- Blelham (30/07/41) 1- Blelham (31/07/41)	(2)
<i>Oecetis lacustris</i> (Pictet) 1- Pull Wyke (12/05/42) 1- Tarn Hows (23/07/41)	(2)
<i>Oecetis notata</i> (Rambur) no specimens	(-)
<i>Oecetis ochracea</i> (Curtis) 2- Blelham (04/07/41)	(2)
<i>Oecetis testacea</i> (Curtis) 1- Wray Castle (25/07/41) 1- High Wray Bay (22/07/41)	(2)
<i>Setodes argentipunctellus</i> McLachlan 7- — (-/-/-) 2- High Wray Bay (22/07/41)	(2)
<i>Setodes punctatus</i> (Fabricius) no specimens	(-)
<u>SMALL FAMILIES</u>	
FAMILY: BRACHYCENTRIDAE	
<i>Brachycentrus subnubilus</i> Curtis 3- R. Eden, Temple Sowerby (08/05/42)	(2)
FAMILY: LEPIDOSTOMATIDAE	
<i>Crunoecia irrorata</i> (Curtis) 1- Hawkshead Hill (28/07/41)	(2)
<i>Lasiocephala basalis</i> (Kolenati) no specimens	(-)

<i>Lepidostoma hirtum</i> (Fabricius)	(2)
1-Low Wray Bay (10/09/41)	
1- High Wray Bay (14/08/41)	
1- St. Gennys, N. Cornwall (-/08/33)	
1-Low Wray Bay (06/09/41)	
FAMILY: GOERIDAE	
<i>Goera pilosa</i> (Fabricius)	(2)
1- Wray Castle (16/07/41)	
1- Blelham Beck (03/06/42)	
1- Newton Abbot (09/06/22)	
<i>Silo nigricornis</i> (Pictet)	(-)
no specimens	
<i>Silo pallipes</i> (Fabricius)	(2 & 4)
1- Rydal Beck (19/07/42)	(2)
1- R. Brathay (23/05/42)	
1- BH ₂ Beck (02/06/50)	(4)
2- Ford Wood Beck (19/07/50)	
1- Ford Wood Beck (29/06/50)	
1- Ford Wood Beck (04/07/50)	
1- Ford Wood Beck (14/07/50)	
FAMILY: SERICOSTOMATIDAE	
<i>Notidobia ciliaris</i> (Linnaeus)	(-)
no specimens	
<i>Sericostoma personatum</i> (Spence in Kirby & Spence)	(2)
3- Wray Castle (16/07/41)	
1- Newton Abbot (27/05/22)	
FAMILY: MOLANNIDAE	
<i>Molanna albicans</i> (Zetterstedt) (=palpata)	(-)
no specimens	
<i>Mollana angustata</i> Curtis	(2)
1- (caddis case) (-/-/-)	
3- Westby Reservoir (-/06/43)	
1- Blelham Beck (31/05/49)	
<i>Mollana</i> spp.	(2)
1- Blelham (12/06/42)	
1- Blelham Beck (03/06/42)	

FAMILY: BERAEIDAE

Beraea maurus (Curtis) (-)
no specimens

Beraea pullata (Curtis) (-)
no specimens

Beraeodes minutus (Linnaeus) (-)
no specimens

Ernodes articularis (Pictet) (-)
no specimens

FAMILY: ODONTOCERIDAE

Odontocerum albicorne (Scopoli) (2)
1- Hawkshead Hill (28/07/41)
1- Hawkshead Hill (02/07/41)
1- Ford Wood Beck (-/-/50)

3.9. CULICIDAE/ MOSQUITOES AND GNATS

Nomenclature follows that given in: Cranston, P.S., Ramsdale, C.D., Snow, K.R. & White, G.B (1987) *Keys to the Adults, male Hypopygia, Fourth- Instar Larvae and Pupae of the British Mosquitoes (Culicidae) with Notes on their Ecology and medical Importance*. Scient. Publs. Freshwat.biol. Ass. No.48. F.B.A., Ambleside.

NB: All names in [] refer to misidentifications by some British workers)

SUB FAMILY: ANOPHELINAE

Anopheles algeriensis Theobald (-)
no specimens

Anopheles atroparvus van Thiel [=maculipennis Meigen] [=labranchiae Falleroni] (1 & 2)
1- Horse Pond, Sussex (-/07/31) (1)
5- Three Dubs Tarn (03/09/47)
1- ASH 17, SR (04/09/41)
1- ASH 17, SR (29/08/41)
1- ASH 17, SR (26/08/41)
2- ASH 17, SR (23/08/41)
1- ASH 17, SR (01/09/41)
1- (biting) Steveney Outgate (11/06/50) (2)

Anopheles claviger (Meigen) (=grisescens Stephens) [=bifurcatus (Linnaeus)] (1 & 2)
2- ASH, SR (04/09/41) (1)
2- ASH 18 (02/09/41)
2- Blelham Outflow Carr (02/06/39)
1- Hog House Beck (02/07/39)
1- Brathay Quarries (20/06/37)
1- Blelham Outflow Carr (18/04/39)
1- ASH 12 (13/08/41)
1- ASH 12 (14/08/41)
1- ASH 12 (16/08/41)
1- ASH 12 (19/08/41)
1- ASH 18 (26/08/41)
1- WL (31/08/46)
1- Blelham Tree Pool (25/06/49) (2)
1- Blelham Tree Pool (27/06/49)
2- Buttermere (28/06/49)
1- Buttermere (04/07/49)
1- Buttermere (05/07/49)
1- Buttermere (18/07/49)

Anopheles messeae Falleroni (-)
no specimens

Anopheles plumbeus Stephens (=nigripes Staeger) (1)
1- tree hole, Downing Fellows Garden (31/10/31)
3- Watbarrow Wood, Wray Castle (25/07/47)

SUB FAMILY: CULICINAE

Aedes cinereus Meigen (1)
1- ditch near Ringmere, Suffolk (31/05/32)
1- ASH 24 (04/09/41)
3- (on wing), ASH 11(15/06/41)
1- ASH 11 (06/09/41)
3- Blelham Outflow Carr (04/07/37)
1- Blelham Outflow Carr (07/07/37)
2- Blelham Outflow Carr (06/07/37)
1- Blelham Outflow Carr (01/07/37)
3- Blelham Outflow Carr (02/06/37)
2- Helton Lake (20/06/37)

Aedes vexans (Meigen) (-)
no specimens

Aedes geniculatus (Olivier) (=lateralis Meigen)(=guttatus (Curtis)) (1)
1- Hardwike Wood (12/03/30)
1- — (-/-/-)

Aedes annulipes (Meigen) (1)
1- (biting) ASH 14, SR (01/08/41)
1- ASH 15 (13/06/41)
1- ASH 5 (12/06/41)
1- ASH 5 (-/-/-)
2- (on wing) ASH 5 (10/06/41)
1- ASH 5 (21/06/41)

Aedes cantans (Meigen) (=waterhousei Theobald) [=maculatus Meigen] (1)
1- ASH 1, SR (11/09/41)
1- Bagley Wood (13/06/31)
2- ASH 1 (13/09/41)
1- (biting) ASH 14 (01/08/41)
1- ASH 1 (11/06/41)
1- ASH 14 (-/06/41)
1- ASH 1 (11/09/41)

Aedes caspius (Pallas) [=punctatus Meigen] (1)
1- ASH 18 (22/08/41)
1- (biting) ASH 24 (04/09/41)

<i>Aedes communis</i> (Degeer) [=sylvaticus Meigen] no specimens	(-)
<i>Aedes detritus</i> (Haliday)(= <i>salinus</i> Ficalbi)(= <i>terriei</i> Theobald) 2- Foulshaw, Lancs. (20/08/36) 1- Area G, ditch, Tourner Bury Marsh, Haylines (25/09/30) 23- Foulshaw Moss (-/04/50) 11- Leighton Moss (lower) (09/05/50) 6- Leighton Moss (upper) (09/05/50) 5- (caught biting) BQ2 (10/07/50)	(1 & 2) (1) (2)
<i>Aedes dorsalis</i> (Meigen) (=curriei Coquillett) 1- Gilpin Estuary (22/05/40)	(1)
<i>Aedes flavescens</i> (Müller) [=lutescens Fabricius] no specimens	(-)
<i>Aedes leucomelas</i> (Meigen) (=salinellus Edwards) no specimens	(-)
<i>Aedes punctor</i> (Kirby) (=concinus Stephens) (=sylvae (Theobald) as var. of <i>Cx. nigripes</i>) [= <i>nemorosus</i> Meigen] [=nigripes (Zetterstedt)]	(1 & 2)
1- Wellington College (-/-/-) 1- Blelham Lake (28/09/48) 4- Three Dubs Tarn (13/08/47) 2- ASH 1 (08/09/47) 3- (biting) ASH 25 (10/09/41) 2- ASH 1 (06/09/41) 1- (biting) ASH 24 (04/09/41) 1- 2 nd ridge, Pine Clunip (-/04/37) 2- ASH 5 (22/06/41) 1- ASH 14 (-/06/41) 1- Leighton Moss (22/05/50) 7- carr track, Wise Een Pool (20/06/49)	(1) (2)
<i>Aedes rusticus</i> (Rossi) (=diversus Theobald) 2- Kingston, Cambridge (05/01/36)	(1)
<i>Aedes sticticus</i> (Meigen) 1- Haverthwaite Field Pool (25/10/38) 1- Haverthwaite Field Pool (01/09/38)	(1)
<i>Coquillettidia</i> [=Mansonia] [=Taeniorhynchus] richiardii (Ficalbi) no specimens	(-)
<i>Culex modestus</i> Ficalbi no specimens	(-)

<i>Culex pipiens</i> Linnaeus (inc. <i>molestus</i> Forskål) (= <i>bicolor</i> Meigen) (= <i>rufus</i> Meigen) (= <i>marginalis</i> (Stephens)) (= <i>unistriatus</i> Curtis) (= <i>doliorum</i> Edwards (as var.))	(1 & 2)
1- rockpool, Loch Sween (-/08/32)	(1)
1- Gilpin Estuary (30/05/40)	
4- Officers Mess, ASH (15/08/41)	
4- Blelham Lake (28/09/48)	
4- Blelham Outflow Carr (03/07/39)	
1- Blelham Outflow Carr (04/07/39)	
3- Foulshaw, Lancs (20/08/36)	
1- water tank, High Wray Farm (06 /07/49)	(2)
1- water tank, High Wray Farm (02/07/49)	
2- water tank, High Wray Farm (13/07/49)	
1- water tank, High Wray Farm (05 /07/49)	
1- water tank, High Wray Farm (18/07/49)	
1- High Wray Farm (11/07/49)	
1- Blelham Outflow Carr (23/06/49)	
 <i>Culex torrentium</i> Martini	(-)
no specimens	
 <i>Culex territans</i> Walker (= <i>nematoides</i> Dyar & Shannon) [= <i>apicalis</i> Adams]	(1 & 2)
2- Blelham Lake (28/09/40)	(1)
1- — (-/-/-)	(2)
1- Blelham Outflow Carr (08/08/49)	
2- Blelham Outflow Carr (01/08/49)	
 <i>Culiseta</i> (= <i>Theobaldia</i>) <i>longiareolata</i> (Macquart)	(-)
no specimens	
 <i>Culiseta</i> (= <i>Theobaldia</i>) <i>fumipennis</i> (Stephens) (= <i>theobaldi</i> De Meijere)	(1)
1- Pipley Pool, South Haven Peninsula (-/04/37)	
5- Sphagnum Pool, SHP (-/04/37)	
 <i>Culiseta</i> (= <i>Theobaldia</i>) <i>litorea</i> (Shute)	(-)
no specimens	
 <i>Culiseta</i> (= <i>Theobaldia</i>) <i>morsitans</i> (Theobald)	(1)
1- East Marsh, South Haven Peninsula (-/04/37)	
2- Central Marsh (-/04/37)	
 <i>Culiseta</i> (= <i>Theobaldia</i>) <i>alaskaensis</i> (Ludlow)	(1)
1- Brathay Quarries (06/07/37)	
1- Brathay Quarries (07/07/37)	
1- Brathay Quarries (20/06/37)	
1- Mortimer's Garden (-/-/-)	
1- inflow carr pool, Malham Tarn (22/09/47)	

- Culiseta* (=Theobaldia) *annulata* (Schrank) (=affinis (Stephens)) [=calopus Stephens] (1 & 2)
- 1- Button Mere (-/09/32) (1)
 - 4- Brathay Quarries (20/06/37)
 - 1- Blelham Outflow Carr (20/06/37)
 - 1- Brathay Quarries (05/07/37)
 - 2- Brathay Quarries (-/07/37)
 - 1- Watbarrow Wood, Wray Castle (25/07/47)
 - 2- Brathay Quarries (06/07/37)
 - 1- Blelham Outflow Carr (10/07/39)
 - 1- ASH 20 (03/09/41)
 - 1- ASH 20 (24/09/41)
 - 1- ASH 18 (02/09/41)
 - 1- ASH 1 (11/09/41)
 - 1- Brathay Quarries (31/06/46)
 - 1- Holton Marsh (18/04/39)
 - 1- Gilpin Estuary (30/05/40)
 - 5- Blelham Tree Pool (22/06/49) (2)
 - 3- Blelham Tree Pool (24/06/49)
 - 1- Blelham Tree Pool (25/06/49)
 - 2- Blelham Tree Pool (23/06/49)
 - 7- Blelham Tree Pool (27/06/49)
 - 2- Blelham Tree Pool (28/06/49)
 - 2- Blelham Tree Pool (29/06/49)
 - 3- Blelham Tree Pool (30/06/49)
 - 2- Blelham Tree Pool (02/07/47)
 - 1- Blelham Tree Pool (06/07/49)
 - 1- Blelham Tree Pool (04/08/49)
 - 1- High Wray Farm Pond (19/08/49)
 - 2- High Wray Farm Pond (22/08/49)
 - 1- Blelham Tree Pond (07/09/49)
 - 2- Blelham Tree Pond (13/09/49)
- Culiseta* (=Theobaldia) *subochrea* (Edwards) (-)
no specimens
- Orthopodomyia pulcripalpis* (Rondani)(=albionensis MacGregor) (-)
no specimens