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DISTRIBUTION RECORDS OF IRISH CHIRONOMIDAE (DIPTERA): PART 3 - CHIRONOMINAE

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Abstract

This is the third of three papers of records and distribution data for species-level taxa of Chironomidae currently known to occur in Ireland. Information is presented on 234 species-level taxa of the subfamily Chironominae in the tribes Chironomini (140 taxa), Pseudochironomini (1 taxon) and Tanytarsini (93 taxa). The majority of the approximately 8,274 records documented have not been published previously. Four species: *Chironomus* (*Chironomus*) *lacunarius* Wülker, 1973, *Parachironomus danicus* Lehmann, 1970, *Tanytarsus dibranchius* Kieffer, 1926 and *Tanytarsus nemorosu*s Edwards, 1929 are reported as new to the Irish chironomid checklist.

Key words: Chironomidae, Chironominae, Ireland, records, distribution

Introduction

This is the third of three papers containing records and distribution data of Chironomidae in Ireland. Part 1 gave 4,360 distribution records of 84 species-level taxa in the subfamilies Buchonomyiinae, Podonominae, Tanypodinae, Telmatogetoninae, Diamesinae and Prodiamesinae (Murray *et al*., 2013). Part 2 contained 9,420 distribution records for 220 species-level taxa in the subfamily Orthocladiinae (Murray *et al*., 2014). The present paper contains 8,274 records for 234 species-level taxa of Chironominae within which three tribes are recognised: Chironomini Newman, 1834, Pseudochironomini Sæther, 1977 and Tanytarsini Zavřel, 1917. Andersen *et al.* (2013), being uncertain about the monophyletic status of the Pseudochironomini, included *Pseudochironomus* in the tribe Chironomini. However, since there has been no formal proposal or ruling on this matter, the tribe Pseudochironomini is recognised in the present work and distribution data is given for the Chironomini (4,541 records, 140

species level taxa), Pseudochironomini (167 records, 1 species) and Tanytarsini (3,566 records, 93 species-level taxa). Details of location and dates of collection for the majority of records presented here have not been published previously. The revised status of some genus-group taxa as noted in Ekrem (2004), Stur and Ekrem (2005), Epler *et al*. (2013), Spies and Bolton (2013), and Spies and Dettinger-Klemm (2015), is adopted.

New Irish records

Records of four species, *Chironomus* (*Chironomus*) *lacunarius* Wülker, 1973, *Parachironomus danicus* Lehmann, 1970, *Tanytarsus dibranchius* Kieffer, 1926 and *Tanytarsus nemorosu*s Edwards, 1929 are presented as new additions to the Irish chironomid checklist.

Record citation format

Genera are treated in alphabetic order, species are documented alphabetically within genus and distribution records are cited by County (Fig.1) and Hydrometric Area (Fig. 2). An account of hydrometric areas of Ireland has been given in Part 1 (Murray *et al*., 2013). County names and Hydrometric Area numbers (HA #) are depicted in bold capital font followed by the water body type and name, district and/or collection site, the Irish Grid Reference (in parentheses) is given as letter and six figure number where possible, followed by date(s) of record(s), collector and source of record (in parentheses). Records from publications, theses or reports are cited by author and year. Where the source is a personal unpublished record by the collector/determinator then his/her initials are given in parentheses and the "collector" entry is omitted avoiding unnecessary duplication. Initials of the collector determinator are provided if the source is a multi-author citation.

The complete dataset of Parts 1, 2 and 3 will be available in pdf format at the <www.irishbiogeographicalsociety.com>, the website of the Irish Biogeographical Society. Species distribution maps may also be viewed at the website of the Irish National Biodiversity Data Centre <www.biodiversityireland.ie>

Abbreviations used in the text

AF - A. Fitzgerald, AJOS - A. J. O'Sullivan, BC - B. Connolly, BH - B. Healy, BPH - B. P. Hayes, CAD - C. A. Duigan; CB - C. Bradley; CD - C. Dowling; CFH - C. F. Humphries; CNP - Connemara National Park; DAM - D. A. Murray; DEM - D. E. Morgan; det. - determined; d/s - downstream; DJD - D. J. Douglas; EF - E. Fahy; EPA - Environmental Protection Agency; FC - F. Curran; FWE - F. W. Edwards; GF - G. Free; GM - G. Morgan; GNP - Glenveagh National Park; GO - G. Oliver; GPF - G. P. Forde; HA - Hydrometric Area; HD - H. Daoud; IFT - Inland

Fisheries Trust; JNH - J. N. Halbert; LMcL - L. Mc Larnon; LPR - L. P. Ruse; JPOC - J. P. O'Connor; JRB - J-R. Baars; L - Lough; LJH - L. J. Heneghan; MB - M. Berrigan; MC - M. Carroll; MKQ - M. Kelly-Quinn; MK - M. Kennedy; MT - M Tokeshi, Mt - Mountain / Mount; NH - N. Hackett; NMI - National Museum of Ireland; NOM - N. O'Maoilideigh; PG - P. Gargan; PHG - P. H. Grimshaw; PHL - P. H. Langton; PJA - P. J. Ashe; POD - P. O'Dwyer; R - River; RF - R. French; RH - R. Hernan; RL - R. Little; SF - S. Fahy; SMcB - S. McBean; SR - S. Reilly; UCD - University College Dublin; u/s - upstream; UU - University of Ulster; WM - W. Murray; WMNP - Wicklow Mountains National Park; WT - W. Trodd.

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SUBFAMILY CHIRONOMINAE - tribe Chironomini

***Benthalia carbonaria* (Meigen, 1804)**

CAVAN: HA 7 - L. Acurry, Baileborough (N584990), 5 July 2007, EPA (DAM). **FERMANAGH: HA 36 -** L. Macnean, upper, Belcoo (H042403), 29 June 2000 (Langton, 2002 sub *Chironomus* (*Lobochironomus*) *dissidens*). **GALWAY: HA 30 -** L. Corrib Lower, Hurney (M258310), 18 May 1980, BC (DAM). **MAYO: HA 30 -** L. Aille, Aille, Westport (M071807), 24 June 2008, EPA (DAM)**: HA 34 -** L. More, Ballynagoraher (G115044), 29 June 2006, EPA

(DAM). **MONAGHAN: HA 36 -** L. Annaghmakerrig, Newbliss (H585205), 27 June 2006 and L. Drumore, Drum (H614164), 2 May 2007, EPA (DAM).

Langton (2002) published the first Irish record from a collection in June 2000 at L. Macnean, Co. Fermanagh. An earlier unpublished record is documented here from L. Corrib, Co. Galway in May 1980.

***Chironomus* (*Chironomus*) *alpestris* Goetghebuer, 1934**

[*C. dorsalis* Auctt., C. *dorsalis* sensu Strenzke, 1956 (adult male) and sensu Langton and Viser, 2003 (pupal exuviae).]

ARMAGH: HA 6 - L. Camlough, Camlough (J024258), 16 August 2011 (PHL). **GALWAY: HA 32 -** pond near Administration Centre, CNP, Letterfrack (L715573), 17 September 1986 (Heneghan, 1987). **MAYO: HA 32** - Demesne garden, Westport (L990845), July 1911, PHG (Grimshaw, 1912)**: HA 33 -** bog pools, Glenamoy (F896345), 1973, CD (Dowling and Murray, 1981)**: Clare Island -** no data (L6885), 1911, PHG (Grimshaw, 1912). **MEATH: HA 7 -** cattle drinking trough, Ardsallagh, Navan (N896635) 24 April 2000 (DAM): **HA 8 -** Meadesbrook, Kilmoon (O040594), 3 April 1999 and 20 June 2014 (DAM).

***Chironomus* (*Chironomus*) *annularius* Auctt. (Meigen, 1818)**

ANTRIM: HA 3 - pool, Leslie Hill, Ballymoney (C935263), 26 September 1999 (PHL). **CORK: HA 19 -** L. Gouganebarra, Inchegeelagh (W009060), 27 July 1968 (Murray, 1972). **DERRY: HA 3 -** R. Bann, Coleraine (C854304), 23 June 1999 (PHL). Water butt, Kylebeg, Coleraine (C858304), 30 May and 4 July 1999 (PHL/NMI). R. Moyola, New Bridge, Magherafelt (H955905), 4 July 2000 (Langton, 2002). **DUBLIN: HA 9 -** Upper Bohernabreena Reservoir (O095219), April 1947, AF (Fitzgerald, 1947). **GALWAY: HA 30 -** L. Corrib Lower, Hurney (M258310), 18 May 1980, BC (DAM). **KERRY: HA 22 -** L. Leane, Killarney, Muckross Boathouse (V965866), 29 August 1987, NOM (Murray, 2005).

***Chironomus* (*Chironomus*) *anthracinus* Zetterstedt, 1860**

ANTRIM: HA 3 - L. Neagh: Lennymore Bay (J115745), 1930, JS (Skillen, 1931); March 1969, RJM (Marks and Henderson, 1970); Antrim Bay (J135866), 4 May 1999 and 17 March 2000 (PHL); Churchtown Point (J056852), 22 August 2001 (PHL)**: HA 4 -** pond, Benvarden Garden (C946334), 15 May 2005 (PHL)**: HA 5 -** L. Mourne, Copeland water, Carrickfergus (J415924), 4 and 8 May 1999 (Langton/NMI). **CAVAN: HA 7 -** L. Mullagh, Mullagh (N680856), 27 May 1968 (Murray, 1972)**: HA 26 -** L. Sheelin, Kilnahard (N435860), March 1984 and October 1987 (DAM). **CLARE: HA 25 -** L. Graney: Doorus (R556930), 24 May 2003 (PHL); L. Graney (R568907), 24 May 2003, EPA (PHL)**: HA 27 -** L. Bunny, south east

shore, Aughrim (R377965), 2 May 2006 and L. Inchicronan, Crusheen west basin (R391860), 8 April 2009, EPA (DAM). L. Muckanagh, Tubber, Corrofin (R368926), 3 April 2006, EPA (LPR). **CORK: HA 19 -** L. Allua, Ballingeary (W180652), 16 September 2008, EPA (DAM)**: HA 20 -** L. Abisdealy, Skibbereen (W136314), 9 April 2008, EPA (DAM)**: HA 21 -** L. Bofinna, Bantry (W041488), 8 April 2008, EPA (DAM). **DERRY: HA 1 -** Upper Reservoir, Creggan, Derry (C417173), 23 March, 26 April, 10 and 18 May 2001, 17 May 2002 (PHL). Pool near Reservoir, Creggan, Derry (C414171), 18 May 2001 and 17 May 2002 and Lower Reservoir, Creggan, Derry (C422174), 10 May 2001 (PHL)**: HA 3 -** R. Bann, Coleraine (C854304), 26 April 2001 (PHL). L. Neagh (H9080), anon. (McLarnon and Carter, 2000); L. Neagh, Ballyronan (H948862), 1988, Tokeshi (1990); 27 April and 4 May 1999, 7 May 2001 and 15 May 2002 (PHL). R. Moyola, New Bridge, Magherafelt (H955905), 17 May 2001 and L. Fea, Draperstown (H760868), 15 May 2002 (PHL). **DONEGAL: HA 36 -** L. Avehy, Pettigo (H043664), 27 April 2002 and 28 March 2004 (PHL)**: HA 37 -** Carn L., Blue Stack Mountains (G871886), 10 May 2005, JRB/MC (DAM). L. Eske, Donegal (G973844), 17 April 2009, EPA (DAM). L. Shinvagh, Ballintra (H005675), 28 March 2004 (PHL)**: HA 38 -** R. Gweedore, outflow from L. Anure, Crolly (B827184) and L. Dunlewy, Dunlewy (B926193), 19 July 2000 (Langton, 2002). L. Shannagh, Magheradrumman, Fanad Penninsula (C216450), 13 August 1982, BPH (Murray, 2005). **FERMANAGH: HA 36 -** L. Erne, Lower, Black Bay (H072639), 27 April 2002 and 28 March 2004 (PHL). **GALWAY: HA 25 -** L. Derg, Meelich Bay, Portumna (M860033), 16 August 1995, C. Moriarty (DAM)**: HA 29 -** L. Rea, Loughrea (M615154), 25 May 2003 (PHL)**: HA 30 -** L. Corrib Lower, Hurney (M258310), 9 April 1980, BC (DAM). **KERRY: HA 22 -** L. Leane, Killarney: Brickeen (V937850), 3 July 1973; Cow Island (V925897), 27 June 1973; mid lake (V930883), 14 July 1973; Inishfallen (V933893), 11 June 1973; O'Sullivans Cascade (V916886), 17 April 1973, Douglas and Murray (1980). L. Muckross (Muckross Lake), Camilan Bay, Killarney (V943859), March to May 1973, DJD/DAM (Douglas and Murray, 1980). L. Annascaul, Dingle Penninsula (Q589152), 14 April 1981 (BPH). **LEITRIM: HA 26 -** L. Natire, north of L. Allen (G966340), 3 August 2005, JRB/MC (DAM)**: HA 35 -** L. Nabrack, Crocknagapple (G860477), 29 April 2005, JRB (DAM). L. Sandy, Crocknagapple (G891448), 28 April 2005, JRB/MC (DAM). **MAYO: HA 32 -** L. Knappabeg, Westport (M010803), 18 September 2008, EPA (DAM). **MONAGHAN: HA 36 -** Summerhill L., Magheraveely (H490280), 28 June 2000 (Langton, 2002). **TIPPERARY: HA 18 -** Black L., Arra Mountains (R738771), 10 August 2005, JRB (DAM). **WATERFORD: HA 16 -** L. Ballyscanlan (Ballyscanlan Reservoir), Tramore (S540030), 19 August 2009, EPA (DAM)**: HA 18 -** R. Blackwater, Ballyduff (W964992), 31 August 1981 (Hayes, 1991). **WESTMEATH: HA 25 -** L. Owel, Mullingar (N421566), May 1981 (Forde, 1985) and 17 April 1989 (DAM). L. Ennell: Lacy's Canal (N420500), 4 February 1975; Tudenham

(N415466), 2 May 1966 (Murray, 1972); April 1981 (Forde, 1985), 31 January 1986 (DAM). **WICKLOW: HA 10 -** Vartry Reservoir, south east shore, Roundwood (O214002), 13 August 1983, HD (DAM).

***Chironomus* (*Chironomus*) *aprilinus* Meigen, 1818**

ANTRIM: Rathlin Island - pool (3), east of lighthouse (D156516), 24 July 2000 (PHL). Rock pool, Ushet Point (D153476), 5 July 2004 (PHL). Outflow stream from L. Craigmacagan (D153496), 5 July 2004 (PHL). **DONEGAL: HA 39 -** Inch Island impoundment, Inch (C346240), 26 June 1998, BH (DAM). **ARMAGH: HA 3 -** Upper R. Bann tributary, Cappagh (J156425), 20 August 1997 (PHL). **LOUTH: HA 6 -** unnamed lake, Tremonfeckin (O134804), 18 August 1983 (Murray, 2005). **MAYO: HA 32 -** L. Roonagh, south east shore, Roonagh (L749759), 30 September 2004 and Westport L., Westport Woods Hotel, Westport (L985843), 7 May and 30 September 2004, DAM/WM (DAM). "Lough near Westport" ?Ballin L. (L9984), July 1911 and Westport Demesne (L990845), July 1911 (Grimshaw, 1912)**: Clare Island -** roadside at Bayview Hotel (L716856), 27 April 2000 (Murray and Murray, 2003). Creggan L., Lecarrow (L689857), 11 June 1998, 13 and 20 August 1999 (Fahy, 2002). **MONAGHAN: HA 36 -** Kilroosky L., Clones (H494274), 28 June 2000 (PHL). **WEXFORD: HA 13 -** Lady's Island Lake, Carnsore (T105077), 12 July 1974, BH (DAM). Coastal splash pool, Hook Head Road (X732978), 13 June 2012 (DAM).

***Chironomus* (*Chironomus*) *bernensis* Kloetzli, 1973**

ANTRIM: HA 3 - R. Main, Randalstown (J084904), 13 October 2000 (Langton, 2002)**: HA 4 -** R. Bush, Seneirl Bridge (C943362), 16 July 2000 (Langton, 2002). **CLARE: HA 27 -** L. Cullaun, Corrofin, mid east shore (R317905), 4 July 2006, EPA (PHL). **DERRY: HA 2 -** pool at Roe Valley Park, Limavady (C679201), 9 June and 3 July 2000 (PHL). R. Roe, Largy Bridge, Limavaddy (C681202), 14 July 2000 (Langton, 2002)**: HA 3 -** R. Bann, Mountsandel, Coleraine (C852305), 25 April 1999, PHL (NMI, Pe). R. Bann, Coleraine (C854304): 12 April to 5 May and 1 October 1999, 3 May and 3 July 2000 (PHL). R. Moyola, New Bridge, Magherafelt (H955905), 14 July and 13 October 2000 also 7 May 2001 (PHL). **DONEGAL: HA 39 -** L. Swilly - stagnant drain, Newtown Cunningham (C311197), 21 June 2000 (Langton, 2002). **TYRONE: HA 3 -** R. Ballinderry, Ballinderry Bridge (H928798), 10 May 2000 (Langton, 2002).

***Chironomus* (*Chironomus*) *cingulatus* Meigen, 1830**

CAVAN: HA 7 - L. Mullagh, Mullagh (N680856), 23 May 1968 (Murray, 1972). **CLARE: HA 25 -** L. Graney, Doorus (R556930), 24 May 2003 (PHL). **DERRY: HA 2 -** pool at Roe Valley

Park, Limavady (C679201), 9 June 2000 (Langton, 2002)**: HA 3 -** Howell's Tarn, Ballywildrick, Coleraine (C766325), 21 April 2002 and pond near R. Macquosin, Ballytinagh Road, Coleraine (C854255), 20 August 2006 (PHL). R. Bann, Coleraine (C854304): 10 June to 3 July 1999 and 25 April 2010 (PHL). Pond 1 and pond 3, Magherafelt Golf Course, Traad Point (H955874), 10 May 2000 (Langton, 2002). L. Neagh (H9080), April and May, 1971-1974 (Carter, 1975; McLarnon and Carter, 2000). **DONEGAL: HA 37 -** L. Shinvagh, Ballintra (H005675), 27 April 2002 (PHL)**: HA 38 -** L. Shannagh, Magheradrumman, Fanad Penninsula (C216450), 13 August 1982, BPH (DAM). **GALWAY: HA 30 -** L. Corrib, no data (M1545), April 1964, NH (Murray, 1972); L. Corrib Lower, Hurney (M258310), 8 May 1980, BC (DAM). **KERRY: HA 22 -** L. Leane, Killarney, Muckross Boathouse (V965866), 29 August 1987, NOM (Murray, 2005). **KILDARE: HA 9 -** R. Liffey, Straffan Bridge (N924293), 15 July 1983 (Hayes, 1991). Pond, Lyons Estate, Celbridge (N973288), 18 January 1968 (Murray, 1972). **MEATH: HA 7 -** R. Boyne, d/s Bellinter Bridge (N895628), 3 May 1982 (DAM). **MONAGHAN: HA 36 -** Kilroosky L., Clones (H494274), 28 June 2000 (Langton, 2002). **WESTMEATH: HA 25 -** L. Ennell, Tudenham (N415466), 2 May 1966 (Murray, 1972). **WEXFORD: HA 12 -** R. Slaney, Scarawash Bridge, Marshalstown (S985451), 9 August 1984 (DAM).

***Chironomus* (*Chironomus*) *commutatus* Keyl, 1960**
ARMAGH: HA 3 - Upper R. Bann tributary, Cappagh (J156425), 13 August 1998 (PHL). **DERRY: HA 2 -** Binevenagh pond, Coleraine (C691305), 18 May 2000 (Langton, 2002)**: HA 3 -** R. Bann, Coleraine (C854304), 25 April 2010 (PHL). **DONEGAL: HA 40 -** R. Keenagh, Hugh Roe's Bridge, Umgall (C454543), 16 August 1982, BPH (Murray, 1996). **GALWAY: HA 25 -** R. Woodford, Woodford (M732000), 24 May 2003 (PHL)**: HA 31 -** R. Owentouey, Tullywee Bridge, Recess (L873474), 18 August 1981, BPH (Murray, 1996). **KERRY: HA22 -** L. Leane, Killarney, Muckross Boathouse (V965866), 29 August 1987, LJH (DAM). **MAYO: Clare Island -** Creggan L., Lecarrow (L689857), 11 August 1998 and 10 June to 13 August 1999 (Fahy, 2002). **OFFALY: HA 25 -** R. Shannon, Shannon Bridge (M967254), 15 August 1981, BPH (Murray, 1996).

***Chironomus* (*Chironomus*) *lacunarius* Wülker, 1973** **New to Ireland**
WESTMEATH: HA 36 - L. Bane, Collinstown (N550712), 26 April and 23 May 2006, EPA (PHL).

***Chironomus* (*Chironomus*) *longistylus* Goetghebuer, 1921**
ANTRIM: Rathlin Island - Nature Reserve Lough (D095505), 24 July 2000 (Langton, 2002).

DERRY: HA 1 - Lower Reservoir, Creggan, Derry (C422174), 26 April 2001 (PHL)**: HA 2 -** pool at Roe Valley Park, Limavady (C679201), 9 June 2000 (Langton, 2002)**: HA 3 -** bog pool, Glenullin, Garvagh (C795132), 7 June 2008 (PHL). R. Bann, Coleraine (C854304), 10 June 1999 and 16 July 2000 (PHL). **FERMANAGH: HA 36 -** Dummy's L., Magheraveely (H488276), 28 June 2000 (Langton, 2002). **GALWAY: HA 30 -** L. Corrib Lower, Hurney (M258310), 24 April 1980, BC (DAM)**: HA 32 -** pond near Administration Centre, CNP, Letterfrack (L715575), 16 September 1986 (Heneghan, 1987). **MEATH: HA 7 -** R. Boyne, d/s Bellinter Bridge (N895628), 3 May 1982 (DAM) and Ardsallagh (N894640), 22 April 2005 (Murray, 2005). **MONAGHAN: HA 36 -** Kilroosky L., Clones (H494274), 28 June 2000 (Langton, 2002). **WICKLOW: HA 9 -** bog pool, Featherbed Mountain, Sally Gap (O130113), August 1975 (DAM).

***Chironomus* (*Chironomus*) *lugubris* Zetterstedt, 1850**

ANTRIM: HA 3 - L. Neagh, Lennymore Bay, north shore (J115745), 1966 (Marks and Henderson, 1970). **GALWAY: HA 32 -** stream near Administration Centre, CNP, Letterfrack (L716573), 17 September 1986 (Heneghan, 1987). **WICKLOW: HA 9 -** bog pool, Featherbed Mountain, Sally Gap (O130113), 27 August 1981 (DAM).

***Chironomus* (*Chironomus*) *luridus* Strenzke, 1959**

ANTRIM: Rathlin Island - *Menyanthes* pool (D123515), 6 July 2004 (PHL). **ARMAGH: HA 3 -** Upper R. Bann tributary, Cappagh (J156425), 20 August 1997 (PHL). **CAVAN: HA 36 -** R. Erne, Kilsarin (N362910), 27 May 1982 (Hayes, 1991); R. Erne, Drumbarry (N462951), 17 August 1982 (Hayes, 1991). **CORK: HA 18 -** R. Blackwater, Knocknagree (W159975) and Duncannon (W180931), 2 September 1981 (Hayes, 1991). **DERRY: HA 1 -** pool near Reservoir, Creggan, Derry (C414171), 17 May 2002 (PHL)**: HA 3 -** Downhill Forest lake (C757353) and Bishops Gate, Coleraine (C762361), 21 August 2001 (PHL). R. Agivey, Garvagh (C838154), 30 May 2002 (PHL). Pond, near R. Macquosin, Ballytinagh Road, Coleraine (C854255), 18 April and 16 May 2004 (PHL). R. Bann, Coleraine (C854304), 18 June 1999 (PHL). Water butt, Kylebeg, Coleraine (C858304), 13 and 27 July 2000, 21 April 2001, 29 March and 19 April 2002, 26 April 2004, 27 July 2007 and 4 May 2008 (all PHL). Pond 3, Magherafelt Golf Course, Traad Point (H955874), 10 May 2000 and R. Moyola, New Bridge, Magherafelt (H955905), 4 July 2000 (Langton, 2002). **DONEGAL: HA 39 -** L. Swilly, stagnant drain, Newtown Cunningham (C311197), 21 June 2000 and R. Glashagh, Drumbologe, Letterkenny (C096153), 18 July 2000 (Langton, 2002). **DOWN: HA 3 -** Upper R. Bann tributary, Hilltown (J210294), 27 March 1998, LMcL (PHL). **DUBLIN: HA 9 -** Woodview Pond, Belfield, UCD (O186203), 24 June 1966 (DAM); Rain-filled exposed small tank on roof

of Science Centre, Belfield, UCD, (O182301), 13 April 1981, PJA (DAM); Rain-filled plastic dustbin in garden, Castleknock (O090370), 22 April 2015, JPOC (DAM). **FERMANAGH: HA 36 -** R. Colebrook tributary, Tullyweel, Fivemiletown (H416474), 15 September 1997 and R. Colebrook, Tattenbuddagh Bridge, Brookeborough (H458428), 3 October 1997 (PHL). **GALWAY: HA 25 -** R. Woodford, Woodford (M732000), 24 May 2003 (PHL). **MEATH: HA 8 -** water tank, Meadesbrook, Kilmoon (O040594), 14 March 1986, 3 April 1999, also 24 April, 16 June, 7 and 30 October 2012, 13 April 2014 and 12 April 2015 (all DAM). **MONAGHAN: HA 36 -** Kilroosky L., Clones (H494274), 28 June 2000 (Langton, 2002). **WEXFORD: HA 12 -** R. Slaney, Edernline Bridge (S977345), 29 July 1981 (Hayes, 1991).

***Chironomus* (*Chironomus*) *nuditarsis* Keyl, 1961**

ANTRIM: HA 3 - pool, Leslie Hill, Ballymoney (C935263), 26 September 1999 (PHL). **ARMAGH: HA 3 -** L. Neagh, Oxford Island, Lurgan (J044621), 18 July 2003 (PHL). **CLARE: HA 27 -** L. Bunny, Aughrim, south east shore (R377965), 25 May 2003 (PHL). **DERRY: HA 1 -** Upper Reservoir, Creggan, Derry (C417173), 26 April and 18 May 2001 (PHL). Pool near Reservoir, Creggan, Derry (C414171), 17 May 2002 (PHL). Lower Reservoir, Creggan, Derry (C422174), 10 May 2001 (PHL)**: HA 3 -** Howell's Tarn, Ballywildrick, Coleraine (C766325), 22 April 2001 (PHL). Downhill Forest lake, Coleraine (C757353), 21 August 2001 (PHL). Downhill Lake, Bishops Gate, Coleraine (C762361), 18 May 2000 (Langton, 2002) and 21 August 2001 (PHL). R. Bann, Coleraine (C854304): 18 June 1999, 18 and 25 April 2010 (PHL). L. Neagh, Ballyronan (H948862), 22 May 2011 (PHL). **DONEGAL: HA 39 -** L. Fern, Milford (C182247), 18 August 2011 (PHL). L. Swilly, stagnant drain, Newtown Cunningham (C311197), 21 June 2000 (Langton, 2002). **GALWAY: HA 25 -** R. Woodford, Woodford (M732000), 24 May 2003 (PHL)**: HA 29 -** L. Rea, Loughrea (M615154), 25 May 2003 (PHL). **LEITRIM: HA 26 -** pond in walled garden, Lough Rynn Castle (N098936), 25 September 2014 (DAM). **MEATH: HA 7 -** cattle drinking trough in field, Dalgan Park, Navan (N9006347), 23 May 2015 (Murray, 2015a). **MONAGHAN: HA 36 -** Kilroosky L., Clones (H494274), 28 June 2000 (Langton, 2002). **TYRONE: HA 1 -** L a' Tirrive, Mulderg, Mountfield (H534778), 16 August 2011 (PHL).

***Chironomus* (*Chironomus*) *nudiventris* Ryser, Scholl and Wülker, 1983**

ANTRIM: HA 3 - L. Neagh: Antrim Bay (J135866), 4 May 1999; Churchtown Point (J056852), 22 and 31 May 2011 (PHL). **DERRY: HA 3 -** Downhill Lake, Bishops Gate, Coleraine (C762361), 18 May 2000 (Langton, 2002). Balinrees Reservoir, Coleraine (C794300), 9 June 2000 (Langton, 2002). R. Bann, Coleraine (C854304): 13 May to 13 October 1999, 3 May to 8 October 2000, 27 April 2001 and 22 September 2002 (all PHL). Water butt,

Kylebeg, Coleraine (C858304), 28 August 2002 (PHL). R. Agivey, Glascort Bridge (C907226), 16 July 2000 (Langton, 2002). Pond 1, Magherafelt Golf Course, Traad Point (H950873), 10 May 2000 (Langton, 2002). L. Neagh, Ballyronan (H948862), 4 May 1999, 10 May and 4 July 2000, 22 August 2001 and 15 May 2002 (all Langton, 2002). **DONEGAL: HA 38 -** L. Mulladerg, The Rosses (B775199), 19 July 2000 (Langton, 2002)**: HA 39 -** Inch Island impoundment, Inch (C346240), 18 August 2011 (PHL). **FERMANAGH: HA 36 -** L. Erne Upper, slipway (H362242) and Crom Castle, Newtownbutler (H357244), 27 June 2000 (Langton, 2002). **TYRONE: HA 3 -** L. Neagh, Washing Bay, Coalisland (H903662), 15 and 30 May 2002 (PHL).

***Chironomus* (*Chironomus*) *obtusidens* Goetghebuer, 1921**

ANTRIM: HA 4 - park pond, Carnfunnock (D379069), 20 June 2000 (Langton, 2002)**: HA 5 -** Three-mile-water, Mossley (J380892), 4 May 1999, SMcB (PHL). **CAVAN: HA 26 -** L. Sheelin, Gore Point (N439817), 18 May 1982, PG (DAM). **DONEGAL: HA 39 -** R. Glashagh, Drumbologe, Letterkenny (C096153), 18 July 2000 (Langton, 2002). **GALWAY: HA 30 -** L. Corrib Upper, Dereenmeel (M119465), 18 April 1980, BC (DAM). **KERRY: HA 22 -** L. Leane, Killarney, Muckross Boathouse (V965866), 27 August 1987, NOM (Murray, 2005). **WICKLOW: HA 10 -** Vartry Reservoir, south east shore, Roundwood (O214002), 13 August 1983, HD (DAM).

***Chironomus* (*Chironomus*) *pallidivittatus* Edwards, 1929**

ANTRIM: HA 3 - L. Neagh, Antrim Bay (J135866), 22 August 2001 (Langton, 2004)**: Rathlin Island -** outflow stream from L. Craigmacagan (D153496), 5 July 2004, L. Craigmacagan (D154498) and *Menyanthes* pool (D123515), 6 July 2004 also pool east of lighthouse (D156516), 7 July 2004 (all PHL). **CLARE: HA 27 -** L. Muckanagh, Tubber, Corrofin (R368926), 2 August 2006, EPA (PHL). **DERRY: HA 1 -** pool near Reservoir, Creggan, Derry (C414171), 17 May 2002 (Langton, 2004)**: HA 3 -** Howell's Tarn, Ballywildrick, Coleraine (C766325), 7 July 2002 (Langton, 2004). R. Bann, Coleraine (C855304), 25 June 2010 (PHL). **DONEGAL: HA 39 -** Inch Island impoundment, Inch (C346240), 18 August 2011 (PHL). **GALWAY: HA 29 -** L. Rea, Loughrea (M624153), 25 May 2003 (Langton, 2004). **WESTMEATH: HA 36 -** L. Bane, Collinstown (N550712), 26 June 2006 (EPA). **WEXFORD: HA 12 -** North Slob, Wexford (T090248), 5 September 2002, G. Oliver (Murray, 2005).

***Chironomus* (*Chironomus*) *piger* Strenzke, 1956**

CLARE: HA 27 - L. Bunny, Aughrim, south east shore (R377965), 25 May 2003 (PHL).

DERRY: HA 1 - pool near Reservoir, Creggan, Derry (C414171), 17 May 2002 (PHL)**: HA 2 -** R. Owenbeg, Feeny picnic area, Feeny (C645058), 26 June 2000; R. Bessbrook, Limavady (C655212), 9 June 2000; pool at Roe Valley Park, Limavady (C679201), 9 June 2000; R. Roe, Deerpark Wood, Limavaddy (C682203), 9 June 2000 and R. Roe, Largy Bridge, Limavaddy (C681202), 14 July 2000 (all Langton, 2002)**: HA 3 -** R. Moyola, New Bridge, Magherafelt (H955905), 4 July 2000 (Langton, 2002). Howell's Tarn, Ballywildrick, Coleraine (C766325), 7 and 21 April 2002; Downhill Forest lake, Coleraine (C757353), 24 March 2002; R. Bann, Coleraine (C854304) 26 April and 5 May 1999; Water butt, Kylebeg, Coleraine (C858304), 12 March 1999; Coleraine (C855308), 16 July 2000; Pond, University of Ulster Campus (C846339), 8 June 2003 and pond, Bohill Hotel, Danes Hill, Coleraine (C867344), 30 September 1999 (all PHL). **DONEGAL: HA 39 -** L. Swilly, stagnant drain, Newtown Cunningham (C311197), 21 June 2000 (Langton, 2002)**: HA 40 -** outdoor bucket, Lagacurry, Doagh (C425515), 15 May 2004 and R. Keenagh, Keenagh Bridge, Malin Head (C435555), 18 August 2011 (PHL). **DOWN: HA 3 -** Eel Burn, Shanrod House, Shanrod (J223477), 19 September 1997, LMcL (PHL). **FERMANAGH: HA 36 -** R. Colebrook tributary (1), Drumcleave, Brookeborough (H367427), 24 September 1998 (PHL). **GALWAY: HA 30 -** pool at lay-by picnic site on road N59, Moycullen (M204336), 25 May 2003 (PHL). **MAYO: HA 32 -** pond, Laghta, west side of road, Laghta (L845759), 7 May 2004, DAM/WM (DAM)**: HA 33 -** pool/stream, Camport, Achill Island (L677982), 29 September 2004, DAM/WM (DAM). **MEATH: HA 8 -** in a rain-filled bucket, Meadesbrook, Kilmoon (O040594), 7 October 2012 (DAM). **TYRONE: HA 1 -** pool by R. Glenelly, Upper Barnes (H553904), 17 August 2011 (PHL). **WEXFORD: HA 13 -** animal drinking trough, Horetown House (S870188), 12 June 2012 (DAM).

***Chironomus* (*Chironomus*) *pilicornis* (Fabricius, 1787)**

CAVAN: HA 7 - L. Cuilcagh, Virginia (N636895), 30 April 1968 (Murray, 1972). **DERRY: HA 3 -** L. Neagh (H9080), no date (McLarnon and Carter, 2000). **MEATH: HA 7 -** Headford Pond, Kells (N752763), 28 March 1968 (Murray, 1972). **WESTMEATH: HA 25 -** L. Owel, Mullingar (N421566), August 1979, NH (BPH).

***Chironomus* (*Chironomus*) *plumosus* (Linnaeus, 1758)**

ANTRIM: HA 3 - L. Neagh: Lennymore Bay, north shore (J115745), 1965 (Marks and Henderson, 1970); Churchtown Point (J056852), 22 August 2001 and 31 May 2011 (PHL). Pond, Templepatrick (J232856), 26 August 2008 (PHL)**: HA 5 -** Three-mile-water, Mossley (J380892), 4 May 1999, SMcB (PHL)**: Rathlin Island -** L. Ally (D154497) and L. Nanskan (D108524), 24 July 2000 (Langton, 2002). Ushet L. (D154485), 5 July 2004 (PHL).

ARMAGH: HA 6 - L. Camlough (Reservoir), Camlough (J024258), 16 August 2011 (PHL). **CAVAN: HA 7 -** L. Acurry, Baileborough (N584990), 5 July 2007, EPA (DAM). L. Ramor, Virginia (N595870), 25 May 1967 (Murray, 1972) and May 1971 (Douglas, 1971). L. Mullagh, Mullagh (N680856), 23 May 1968 (Murray, 1972)**: HA 26 -** L. Sheelin, Kilnahard (N435860), 19 August 1971, NH (DAM)**: HA 36 -** Glasshouse L., Killashandra (H270060), 7 June 2007, and L. Garty, Arvagh (N278978), 12 April, 7 June and 18 July 2007, EPA (DAM). **CLARE: HA 25 -** L. Graney, Doorus (R556930), 24 May 2003 (PHL)**: HA 27 -** L. Cullaun, Corrofin, mid east shore (R317905), 4 July 2006, EPA (PHL). L. Rosroe, Newmarket on Fergus, south east shore (R442681), 12 August 2009, EPA (DAM). **CORK: HA 20 -** L. Curraghalicky, Drinagh, Dunmanway (W234046), 9 April 2008 and L. Ballin, Leap (W199389), 17 June 2008, EPA (DAM)**: HA 21 -** L. Avaul, Glengarrif (V910553), 19 May 1969 and L. Reenydonegan, Bantry (W000515), 16 September 1969, NH (Bracken and Murray, 1973). **DERRY: HA 1 -** pool near Reservoir, Creggan, Derry (C414171), 17 May 2002 (PHL)**: HA 3 -** Balinrees Reservoir, Coleraine (C794300), 9 June 2000; Downhill Lake, Bishops Gate, Coleraine (C762361), 21 August 2001 and Howell's Tarn, Ballywildrick, Coleraine (C766325), 21 April and 7 July 2002 (all PHL). R. Bann, Coleraine (C854304), 2 May and 16 July 2010 (PHL). Water butt, Kylebeg, Coleraine (C858304), 20 August 2002 (PHL). Pond 1, Magherafelt Golf Course, Traad Point (H950873), 10 May 2000 (Langton, 2002). L. Neagh: no site data (H9080), April and May, 1971-1974 (Carter, 1975; McLarnon and Carter, 2000); Ballyronan (H948862), 1988 (Tokeshi, 1990) also 27 April and 4 and 25 May 1999 (PHL). **DONEGAL: HA 39 -** L. Fern, Millford (C180233), 23 July 2009, EPA (DAM) and L. Fern, (C182247), 18 August 2011 (PHL). Inch Island impoundment, Inch (C346240), 18 August 2011 (PHL). **DOWN: HA 5 -** Bow L., Ballynahinch (J354577), 22 June 2000 (Langton, 2002). **FERMANAGH: HA 36 -** L. Erne Upper, Newtownbutler, slipway (H362242) and Crom Castle (H357244), 27 June 2000; L. Killyfole (Mill L.), Rosslea (H464314), 28 June 2000; L. Kilturk, Newtownbutler, south shore (H374255), 27 June 2000; L. Lattone, Kiltyclogher (H003456) and L. Macnean, lower, Belcoo (H085384), 29 June 2000 (all Langton, 2002). L. Eyes, Lisbellaw (H324434), 16 August 2011 (PHL). **GALWAY: HA 25 -** L. Derg, Meelich Bay, Portumna (M860033), 16 August 1995, C. Moriarty (Murray, 2005). **GALWAY: HA 29 -** L. Rea, Loughrea (M615154), 25 May 2003 (PHL)**: HA 30 -** L. Ballyquirke, Moycullen (M232317), 14 June and 8 August 2007, EPA (DAM). L. Corrib: Oughterard (M119452), April 1964, NH (Murray, 1972); Hurney's Point (M256315), 9 April 1980 and Knockferry (M230410), 18 May 1980, BC (DAM). L. Ross, Moycullen (M200363), 25 May 2003 (PHL). **KERRY: HA 22 -** L. Leane, Killarney, Muckross Boathouse (V965866), 29 August 1987, NOM (DAM). R. Flesk, u/s L. Leane (V964894), August 1978 (Ashe, 1982). **KILDARE: HA 9 -** R. Liffey, Straffan Bridge (N924293), 16 July 1983, BPH (Murray, 2005). **LEITRIM: HA 26 -** L. Acres, Drumshanbo (G968099), 11 June

and 24 July 2008, EPA (DAM). L. Rinn, Mohill (N095943), 10 September 2008, EPA (DAM). **MAYO: HA 32 -** Louisburg (L807807), 1910, JNH; R. Owenwee, Belclare, Westport (L960820), July 1911, PHG; Westport Demesne, Westport (L9984), July 1911, PHG (all Grimshaw, 1912). L. Carrokeel, Murrisk (L924830), 5 August 2004, DAM/WM (DAM): **HA 33 -** Achill Island, north east (F7207), 1910, JNH (Grimshaw, 1912, as *Tendipes annularis* DeGeer). **MONAGHAN: HA 36 -** L. Drumlona, Rockcorry (H636176), 4 April 2007, EPA (DAM). L. Inner, Dartery, Drum (H625173), 6 June and 10 July 2007, EPA (DAM). **OFFALY: HA 25 -** bog lake, Turraun (N172185), June 1998 (DAM). R. Shannon, Shannon Bridge (M967254), 15 August 1981 (Hayes, 1991). **TYRONE: HA 3 -** L. Neagh, Washing Bay, Coalisland (H903662), 15 May 2002 (PHL). **WATERFORD: HA 17 -** Belle Lake, Dunmore East (S665049), 2 July 2009, EPA (DAM). **WESTMEATH: HA 25 -** L. Owel, Mullingar (N421566), 3 March 1980, NH (BPH), May 1981 (Forde, 1985) and 17 April 1989 (DAM). L. Ennell: Lacy's Canal (N420500), 4 February 1975 (DAM); Tudenham (N415466), 14 June 1966 (Murray, 1972) and 3 June 1985 (BPH)**: HA 36 -** L. Bane, Collinstown (N550712), 26 June 2006 (EPA). **WICKLOW: HA 10 -** Vartry Reservoir, Roundwood, south east shore (O214002), 12 July 1983, HD (DAM).

***Chironomus* (*Chironomus*) *prasinus* sensu Pinder (1978) and Langton & Visser (2003)**
CLARE: HA 25 - L. Graney, Doorus (R556930), 24 May 2003 (PHL). **GALWAY: HA 29 -** L. Rea, Loughrea (M615154), 25 May 2003 (PHL/NMI)**: HA 30 -** stream at lay-by on road N59, Moycullen (M204326), 25 May 2003 (PHL). L. Corrib, no location data (M1545), 9 June 1964, NH (DAM). First reported from L. Corrib by Murray (1972) as *Chironomus plumosus* var *prasinatus* Meigen determined from Coe (1950) following Edwards (1929).

***Chironomus* (*Chironomus*) *pseudothummi* Strenzke, 1959**
ANTRIM: Rathlin Island - pool (1), east of lighthouse (D163521), 24 July 2000 (Langton, 2002). **CLARE: HA 27 -** L. Bunny, south east shore, Aughrim (R377965), 4 July 2006, EPA (EPA). **CORK: HA 21 -** L. Reenydonegan, Bantry (W000515), 7 July 1969, NH (Bracken and Murray, 1973). **DUBLIN: HA9 -** lake in Zoological Gardens, Dublin - formerly in grounds of Aras an Uachtarain (O129353), 23 July 1987, DAM. **GALWAY: HA 32 -** pond near Administration Centre, CNP, Letterfrack (L715575), 16 September 1986 (Heneghan, 1987); stream near Administration Centre, CNP, Letterfrack (L716574), 16 September 1986 (Heneghan, 1987)**: HA 33 -** bog pools, Glenamoy (F896345), 1973, CD (Dowling and Murray, 1981)**: Clare Island -** wetland, Ballytouhy (L696882), 20 August 2002; pond east side of Maum road (L710863), 28 April 2000; stream, Fawnglass (L713854), 4 June 2002 (Murray and Murray, 2003). Creggan L., Lecarrow (L689857), 2 and 11 June, 1 September 1998 and 10 June

1999 (Fahy, 2002). Humic pond, Bunnamohaun (L659846), 21 August 2002 (Murray and Murray, 2003). **WESTMEATH: HA 36 -** L. Bane, Collinstown (N550712), 26 June 2006 (EPA).

***Chironomus* (*Chironomus*) *riparius* Meigen, 1804**

ANTRIM: HA 3 - L. Neagh, Lennymore Bay, north shore (J115745), 1966 (Marks and Henderson, 1970) and Ballyronan (H948862), 1988 (Tokeshi, 1990)**: HA 4 -** coastal impoundment, Murlough Bay (D198420), 27 March 2003 (PHL)**: Rathlin Island -** L. Ally (D153494), 5 July 2004 (PHL). **CAVAN: HA 36 -** R. Erne, Carrigan (N391935), August 1982, BPH (Murray, 2005). **DONEGAL: HA 39 -** Inch Island impoundment, Inch (C346240), 18 August 2011 (PHL). **DOWN: HA 3 -** Upper R. Bann tributary, Shanrod (J215453), 14 August 1998, LMcL (PHL). **KERRY: HA 22 -** R. Flesk, u/s L. Leane (V964894), August 1978 (Ashe, 1982). **MAYO: HA 32 -** Westport Demesne (L9984), July 1911 and Demesne garden, Westport (L990845), July 1911, PHG (Grimshaw, 1912). R. Owenwee, u/s Aghamore Bridge, Westport (L972817), 8 May 2003, DAM/WM (DAM)**: HA 33 -** Glendarary, Achill Island (L723997), July 1911, JNH (Grimshaw, 1912)**: Clare Island -** Creggan L., Lecarrow (L689857), 11 June to 13 October 1998 and 10 June to 12 October 1999 (Fahy, 2002). **MEATH: HA 7 -** R. Boyne, Ardsallagh, Navan, at St Bridget's Well (N897635), 7 July 1988 and Stackallen Bridge (N917713), 17 August 1988 (Murray, 1988). Artificial tank, Ardsallagh, Navan (N896635), 8 May 2005 (DAM). **ROSCOMMON: HA 26 -** R. Suck, Castlecoote (M809627), 1 April 1981, BPH (DAM); Briarfield Turlough, Tulsk (M815760), 25 April 1986, CAD (DAM). **TIPPERARY: HA 16 -** stream, Cahir (S048239), 1 November 1981, BPH (Murray, 2005).

***Chironomus* (*Chironomus*) *salinarius* Kieffer, 1915**

CORK: HA 21 - L. Reenydonegan, Bantry (W000515), 19 May 1969, NH (Bracken and Murray, 1973). **DONEGAL: HA 39 -** L. Swilly, Newtown Cunningham, stagnant drain (C311197) and impoundment (C306195), 21 June 2002 (Langton, 2002). **GALWAY: HA 31 -** saline lagoon, Carafinla, Cashla (L963290), 10 August 1998, BH (DAM). **WEXFORD: HA 12 -** R. Slaney, Edernline Bridge (S977345), 23 July 1984 (Murray, 2005).

***Chironomus* (*Chironomus*) *striatus* Strenzke, 1959**

CAVAN: HA 26 - L. Sheelin, Gore Point (ex trout stomach) (N439817), May 1983, PG (Murray, 2005).

***Chironomus* (*Chironomus*) *tentans* Fabricius, 1805**

ANTRIM: Rathlin Island - L. Craigmacagan (D154498), 24 July 2000 (Langton, 2002).

CAVAN: HA 7 - L. Mullagh, Mullagh (N680856), 6 June 1968 (Murray, 1972)**: HA 26 -** L. Sheelin, Kilnahard (N435860), 29 May 1978 (DAM): **HA 36 -** L. Ardan, Milltown, Belturbet (H354124), 6 June 2007; L. Atrain, Gartbrattan, Cavan (H364051), 12 April 2007; L. Oughter, Killashandra (H349051), 17 July 2007 and L. Sillan, Shercock (H705067), 19 April and 8 June 2007 all EPA (DAM). **CLARE: HA 27 -** L. Bridget, Derrymore, Badyke, east shore (R558797), 21 April 2009; L. Bunny, Aughrim, south east shore (R377965), 10 May 2005, 5 September 2006 and 11 June 2009 and L. Dromore, Ruan, Corrofin, west basin (R345858), 4 May 2006, all EPA (DAM). **CORK: HA 20 -** L. Abisdealy, Skibbereen (W136314), 17 September 2008, EPA (DAM). **DONEGAL: HA 38 -** L. Scalpachore, Cruit Island (B730216), 19 July 2000 (Langton, 2002). L. Fallaneas, Kindrum (C173424), 30 April 2009 and L. Kinny, Fanad (C204442), 21 July 2009, EPA (DAM)**: Tory Island -** L. 'Dheas (B845464), 28 June 1998, BH (DAM). **FERMANAGH: HA 36 -** L. Inver, Rosslea (H518314), 28 June 2000 (Langton, 2002). **GALWAY: HA 26 -** L. Acalla, Ballinasloe (M720344), 7 July 1964 (Murray, 1972)**: HA 29 -** L. Rea, Loughrea (M615154), 25 May 2003 (PHL) and 7 August 2007, EPA (DAM)**: HA 30 -** L. Corrib: no data (M1545), 9 June 1964, NH (Murray, 1972); L. Corrib Upper, west shore (M138486), 11 June 2007, EPA (DAM); L. Corrib Lower, Hurney (M258310), 16 April 1980, BC (DAM) and Moycullen (M271360), 11 June and 28 September 2007, EPA (DAM). **LIMERICK: HA 24 -** L. Gur, Holycross (R646269), 28 July 2009, EPA (DAM). **MAYO: HA 30 -** L. Carra, Ballinrobe (M165680), 25 August 1964, NH (Murray, 1972). L. Mask, Ferry Bridge, Clonbur (M065584), 12 May 1987 (DAM); mid east shore, Cushlough Pier, Ballinrobe (M153650), 22 July 1966, NH (Murray, 1972); west shore, north of Toormakeady (M113702), 24 June 2008, EPA (DAM)**: HA 32 -** "Lough near Westport" ?Ballin L. (L9984), July 1911, PHG (Grimshaw, 1912). Ballin L., north shore, Westport (L996882), 25 June 2008, EPA (DAM)**: HA 34 -** L. Conn, Cloghans, north east shore (G205133), 7 July 1965, AJOS (Murray, 1972). L. Cullin, Drummon Wood, Pontoon (G235048), 22 August 1995, DAM/WM (DAM). L. Cornagushlaun, Castlebar (M125892), 25 June 1965, NH (Murray, 1972)**: Clare Island -** no data (L6885), June 1911, PHG (Grimshaw, 1912). Creggan L., Lecarrow (L689857), 11 June to 1 September 1998 and 10 June to 20 August 1999 (Fahy, 2002). **MONAGHAN: HA 36 -** L. Cloonkeen, Clones (H508246), May 1964, NH (Murray, 1972). Kilroosky L., Clones (H494274), 28 June 2000 (Langton, 2002). **OFFALY: HA 25 -** bog lake 1, Turraun (N172185) and bog lake 2, Turraun (N150230), 3 June 1999, DAM (Murray, 2005). L. Derryadd, Ferbane (N100240), June 1966, NH (Murray, 1972). **ROSCOMMON: HA 26 -** L. Glinn, Loughglinn, Castlerea (M629870), 12 June 2008, EPA (DAM). **SLIGO: HA 26 -** L. Gara, Cuppanagh, Cloonlough (G714013), 26 June 2008 and Monastredan (M708996), 5 September 2008, EPA (DAM). **TYRONE: HA 3 -** L. Neagh, Washing Bay, Coalisland (H903662), 15 May 2002 (PHL). **WATERFORD: HA 17 -** Belle Lake, Dunmore East (S665049), 1 September 2009,

EPA (DAM). **WESTMEATH: HA 25 -** L. Owel, Mullingar (N421566), 10 August 1971, NH (DAM); 9 August 1979 and 3 March 1980, BPH (Hayes, 1980). L. Ennell, Tudenham (N415466), 14 June 1966 and 4 August 1968, DAM (Murray, 1972), 27 June 1979 (Murray, 2005) and 3 April 1981, GPF (DAM)**: HA 26 -** L. Killinure, Wineport (N067458), 24 April 2007 and L. Derravaragh, Crookedwood (N468634), 25 June 2007, EPA (DAM)**: HA 36 -** L. Bane, Collinstown (N550712), 23 May, 26 June and 22 August 2006 (EPA). **WEXFORD: HA 13 -** L. Ballyteige, Wexford (S936066), 14 July 1998, BH (DAM).

***Chironomus* sp. A - sensu Pinder, 1978**
CAVAN: HA 26 - L. Sheelin, Gore Point (ex trout stomach) (N439817), 18 May 1982, PG (DAM). **GALWAY: HA 29 -** L. Rea, Loughrea (M615154), 18 September 2007, EPA (DAM)**: HA 30 -** L. Corrib, Knockferry (M230410), 28 April 1980, BC (DAM). **WESTMEATH: HA 25 -** L. Owel, outflow canal, Cullion (N424563), 22 May 1973, BPH (Murray, 2005).

***Chironomus* (*Lobochironomus*) *dorsalis* Meigen, 1818**
[As *Einfeldia longipes* Staeger, 1839 in Murray and Ashe (1983)]
MAYO: HA 30 - L. Carra, Keel Bridge, Ballinrobe (M165680), 5 July 1974, (DAM). L. Corrib lower, west shore, Hurney (M258310), 19 May 1980, BC (DAM).

***Cladopelma bicarinatum* (Brundin, 1947)**
GALWAY: HA 32 - L. Enask, Beaghcauneen (L662468), 6 June 2007, EPA (DAM). **KERRY: HA 21 -** L. Currane, Waterville (V535664), 22 July 2008, EPA (Murray, 2010)**: HA 22 -** L. Cummernamuck, Killorglin (V745897), 20 June 2008, EPA (Murray, 2010). L. Guitane, Crohane, Killarney (W025846), 8 July 2008, EPA (Murray, 2010). **LEITRIM: HA 35 -** L. Annary, Dromahair (G817338), 10 June and 23 July 2008, EPA (Murray, 2010).

***Cladopelma goetghebueri* Spies and Sæther, 2004**
CAVAN: HA 7 - L. Drumkeery, Baileborough (H663002), 16 July 2007, EPA (DAM)**: HA 36 -** L. Cuillaghan, Ballyconnell (H303183), 6 June 2007, EPA (DAM). **CLARE: HA 27 -** L. Cullaun, Corrofin, mid east shore (R317905), 7 June 2006, EPA (PHL). **CORK: HA 19 -** L. Aderry, Castlemartyr (W935730), 4 June 1969, NH (Murray, 2005). **DONEGAL: HA 38 -** L. Keel, Kilmacrennan (C158243), 2 April and 16 June 2009, EPA (DAM). **GALWAY: HA 30 -** L. Beaghcauneen, Ballinaboy (L679470), 6 June 2007 and L. Lettercraffroe, Oughterard (M056376), 14 June 2007, EPA (DAM)**: HA 31 -** L. Aunwillan, Carraroe (L936255), 25 July 2007; L. Ballynahinch, Ballynahinch (L777478), 6 June and 23 July 2007 and L. Illauntrasna, Glentrasna, Garomna (L888254), 6 June 2007, EPA (DAM)**: HA 32 -** L. Enask, Beaghcauneen

(L662468), 6 June and 17 July 2007 and L. Ballynakill, Cleggan (L639581), 11 September 2007, EPA (DAM). **KERRY: HA 21 -** L. Currane, Waterville (V535664), 9 May 2008 and L. Inchiquin, Kenmare (V837629), 18 June 2008, EPA (DAM)**: HA 22 -** L. Cummernamuck, Killorglin (V745897), 20 June 2008 and L. Leane, Killarney (V931886), 24 June 2008, EPA (DAM). **LEITRIM: HA 26 -** L. Rinn, Mohill (N095943), 25 June, 18 July and 10 September 2008, EPA (DAM)**: HA 35 -** L. Annary, Dromahair (G817338), 23 July 2008 and L. Belhavel, Killarga, Dromahair (G878288), 26 August 2008, EPA (DAM).

***Cladopelma krusemani* (Goetghebuer, 1935)**
ANTRIM: Rathlin Island - pool 1 (D163521) and pool 2 (D164520), east of lighthouse, 24 July 2000 (Langton, 2002). **DONEGAL: HA 38 -** L. Veagh, north east shore, Glenveagh (C038236), 24 July 1985 (Heneghan, 1986). **MAYO: Clare Island -** L. Leinapollbauty, Lecarrow (L691856), 5 June 2002 and Creggan L., Lecarrow (L689857), 21 August 2002 (Murray and Murray, 2003).

***Cladopelma virescens* (Meigen, 1818)**
CAVAN: HA 36 - L. Atrain, Gartbrattan, Cavan (H364051), 16 September 2007, EPA (Murray, 2010). **DONEGAL: HA 38 -** L. Kindrum, Kindrum, Fanad (C186430), 16 June 2009, EPA (Murray, 2010). L. Kiltoris, Dawros, Ardara (G675976), 30 July 2009, EPA (DAM). **GALWAY: HA 30 -** L. Ross, Moycullen (M188365), 5 September 2007, EPA (Murray, 2010). **LEITRIM: HA 26 -** L. Acres, Drumshanbo (G968099), 11 June 2008, EPA (Murray, 2010). L. Rinn, Mohill (N095943), 18 July 2008, EPA (Murray, 2010). **MAYO: HA 30 -** L. Aille, Aille, Westport (M071807), 18 September 2008, EPA (DAM). **TIPPERARY: HA 16 -** R. Suir, Kilsheelin (S285120), 1966, MK (Murray, 1972 as *C. laccophilus* Kieffer).

***Cladopelma viridulum* (Linnaeus, 1767)**
ANTRIM: Rathlin Island - L. Ally (D153494), 5 July 2004 (PHL) and L. Nanskan (D108524), 24 July 2000 (Langton, 2002). **CAVAN: HA 7 -** L. Mullagh, Mullagh (N680856), 23 May 1968 (Murray, 1972)**: HA 36 -** L. Atrain, Gartbrattan, Cavan (H364051), 16 September 2007, EPA (DAM). L. Garty, Arvagh (N278978), 7 June 2007, EPA (DAM). R. Erne, Dingin's Bridge (N331948), 27 August 1982 (Hayes, 1991). **CLARE: HA 25 -** L. Graney, Doorus, west shore (R556930), 6 July 2006, EPA (DAM)**: HA 27 -** L. Bridget, Badyke, Derrymore, east shore (R558797), 21 April and 29 July 2009; Castle Lake, Kilmurry, Sixmilebridge, south west shore (R481688), 12 June 2009 and west shore (R482691), 17 September 2009; L. Gortglass, Killadysert, north shore (R223599), 11 June 2009 all EPA (DAM)**: HA 28 -** L. Naminna, north west shore, Boolteagh (R178710), 7 July 2009 also L. Doo, Milltown Malbay (R123721) and L.

Keagh, Milltown Malbay, south west shore (R100811), 8 July 2009, EPA (DAM). **CORK: HA 19 -** L. Allua, Ballingeary (W180652), 17 June and 20 August 2008, EPA (DAM)**: HA 20 -** L. Curraghalicky, Drinagh, Dunmanway (W234046), 17 June 2008 and L. Abisdealy, Skibbereen (W136314), 30 July 2008, EPA (DAM). **DERRY: HA 1 -** Upper Reservoir, Creggan, Derry (C417173), 18 May 2001 and 17 May 2002 (PHL)**: HA 3 -** pond 1, Magherafelt Golf Course, Traad Point (H950873), 10 May 2000 and Balinrees Reservoir, Coleraine (C794300), 9 June 2000 (Langton, 2002). **DONEGAL: HA 1 -** L. Derg, Pettigo (H074743), 8 June 2009, EPA (DAM)**: HA 36 -** L. Golagh, Ballyshannon (G965655), 8 June 2009, L. Unshin, Ballyshannon (G951637), 6 July 2009 and L. Tullynasiddagh, Ballyshannon (G983656), 7 July 2009, EPA (DAM)**: HA 37 -** Carn L., Blue Stack Mountains (G871886), 27 July 2005, JRB (DAM)**: HA 38 -** L. Altercan, The Rosses (B755158), L. Dunglow, east shore, The Rosses, (B787117), L. Anure, Crolly (B817166) and R. Gweedore outflow from L. Anure, (B827184), 19 July 2000 (all Langton, 2002). L. Dunglow, west shore (B782119), 5 August 2009, EPA (DAM). L. Anure, east shore (B818162), 17 June 2009, EPA (DAM). L. Nasnahida, Doocharry, Dunglow (B852076), 6 August 2009, EPA (DAM). L. Nambraddan, Glenveagh (C022193), 31 July 1985 and L. Veagh, near north-east shore inflow stream, Glenveagh (C033222), 19 August 1985 (Heneghan, 1986). L. Glen, Glen (C105292), 16 June 2009 and L. Kinny, Fanad (C204442), 9 September 2009, EPA (DAM). L. Shannagh, Magheradrumman, Fanad Penninsula (C216450), 21 July 2009, EPA (DAM)**: HA 39 -** L. Gartan, Church Hill (C055159), 10 June 2009 and L. Fern, Millford (C180233), 16 June 2009, EPA (DAM)**: HA 40 -** L. Fad, Rowantree Hill, Moville (C539397), 18 August 2011 (PHL). **GALWAY: HA 25 -** R. Woodford, Woodford (M732000), 24 May 2003 (PHL)**: HA 30 -** L. Ballyquirke, Moycullen (M232317), 8 August and 14 September 2007;L. Beaghcauneen, Ballinaboy (L679470), 18 July 2007; L. Corrib Upper, Oughterard, west shore (M138486), 14 September 2007; L. Lettercraffroe, Oughterard (M056376), 14 June 2007; L. Maumwee, Maam Cross (L977485), 8 June 2007, all EPA (DAM). L. Ross, Moycullen (M200363), 25 May 2003 (PHL)**: HA 31 -** L. Anaserd, Ballyconneely (L605443), 20 June 2006, 6 June and 17 July 2007, L. Ballynakill, Gorumna (L867236), 8 August 2006 and L. Derryclare, Recess (L825485), 6 June 2007, EPA (DAM)**: HA 32 -** L. Aughrusbeg, Cleggan (L557582), 11 September 2007, L. Ballynakill, Cleggan (L639581), 5 June, 11 July and 11 September 2007 and L. Kylemore, Letterfrack (L771582), 30 July 2007, EPA (DAM). **KERRY: HA 21 -** L. Brin, Derreeny (V780775), 18 June, 13 July and 10 September 2008, EPA (DAM)**: HA 22 -** L. Caragh, Killorglin (V719904), 20 June and 15 July 2008, EPA (DAM). L. Leane, Killarney: Brickeen (V937850), 3 July 1973 (Douglas and Murray, 1980); Muckross Boathouse (V965866), 29 August and 6 September 1987, NOM (LJH). R. Flesk, d/s Whitebridge (V987900), 27 July 1976 (DAM) and u/s L. Leane (V964894), August 1978 (Ashe, 1982). **LEITRIM: HA 26 -** L. Rinn, Mohill (N095943), 10 September

2008, EPA (DAM). **LOUTH: HA 6 -** L. Mentrim, Ardee (N913879), 27 June 2005, DAM/WM (DAM). **MAYO: HA 32 -** L. Glencullin, south west shore, Delphi (L819696), 25 August 2008, EPA (DAM). L. Knappabeg, Westport (M010803), 23 July 2008 and L. Feeagh, Newport (L975983), 24 July 2008, EPA (DAM)**: HA 33 -** L. Keel, Achill Island, south east shore (F650051), 17 June 2008 and mid lake (F651059), 16 July 2008, EPA (DAM). L. Carrowmore, Derreens, Bangor Erris (F833299), 28 July 2008, EPA (DAM)**: HA 34 -** L. Alone, Ox Mountains (G367157), 5 August 2005, JRB/MC (DAM). L. Levally, Massbrook (G146043), 25 June 2008, EPA (DAM). **MONAGHAN: HA 36 -** L. Annaghmakerrig, Newbliss (H585205), 27 June 2006, EPA (DAM). Summerhill L., Magheraveely (H490280), 28 June 2000 (Langton, 2002). **OFFALY: HA 25 -** bog lake 1, Turraun (N172185), June 1998, DAM (DAM); bog lake 2, Turraun (N150230), September 1995, WT (DAM) and 3 June 1999, DAM/WM (Murray, 2005). **ROSCOMMON: HA 26 -** L. Cavetown, Boyle (M832974), 9 April 2008, EPA (DAM). **SLIGO: HA 35 -** L. Easky, Ox Mountain (G446230), 17 July 2008, EPA (DAM). **WATERFORD: HA 16 -** L. Ballyscanlan (Ballyscanlan Reservoir), Tramore (S540030), 22 April, 19 August and 1 September 2009, EPA (DAM). L. Knockaderry, Knockaderry (S496062), 19 August 2009 and L. Ballyshunnock (Reservoir), Portlaw (S455095), 2 September 2009, EPA (DAM)**: HA 17** - Belle Lake, Dunmore East (S665049), 2 July 2009, EPA (DAM). **WESTMEATH: HA 26 -** L. Derravarragh, Clinton's Bay (N471630), 20 August 1981 (DAM)**: HA 36 -** L. Bane, Collinstown (N550712), 23 May and 26 June 2006, EPA (EPA). **WICKLOW: HA 10 -** Vartry Reservoir, south east shore, Roundwood (O214002), 24 May, 12 July and 14 August 1983, HD (DAM) also north basin (O205050), 2 July 2009, EPA (DAM).

***Cryptochironomus albofasciatus* (Staeger, 1839)**

CAVAN: HA 7 - L. Drumkeery, Baileborough (H663002), 12 June 2007, EPA (DAM). **CORK: HA 19 -** L. Allua, Ballingeary (W180652), 20 August 2008, EPA (DAM). **DERRY: HA 3 -** L. Neagh, Ballyronan (H948862), 1988 (Tokeshi, 1990); no data (H9080), no date (McLarnon and Carter, 2000). **DONEGAL: HA 37 -** L. Eske (G973844), 14 July 2009, EPA (DAM)**: HA 38 -** L. Nasnahida, Doocharry, Dunglow (B852076), 17 June 2009, EPA (DAM). L. Veagh, north east shore, (C038230), 24 July 1985, LJH (DAM). **GALWAY: HA 30 -** L. Ballyquirke, Moycullen (M232317), 14 June and 8 August 2007, EPA (DAM). L. Corrib, Hurney (M256315) 27 July 1980, BC (DAM)**: HA 31 -** L. Anaserd, Ballyconneely (L605443), 17 July 2007; L. Derryclare, Recess (L825485), 6 June 2007 and L. Nahasleam, Maam Cross (L972440), 1 August 2007, EPA (DAM)**: HA 32 -** L. Enask, Beaghcauneen (L662468), 17 July 2007, EPA (DAM). **KERRY: HA 21 -** L. Namona, Waterville (V596711), 19 June 2008, EPA (DAM)**: HA 22 -** L. Leane, Killarney, Muckross Boathouse (V965866), 29 August and 1 September 1987, NOM (LJH). L. Muckross (Muckross Lake), Dundag Bay (V964858), 3

August 1973, DAM (Murray, 2005) and (V950853), 16 July 2008, EPA (DAM). **MAYO: HA 32 -** L. Feeagh, Newport (L975983), 25 June 2008, EPA (DAM).

***Cryptochironomus defectus* (Kieffer, 1913)**
ANTRIM: HA 4 - Dungonnell Dam, Newtown Crommelin (D193170), 20 June 2000 (Langton, 2002)**: Rathlin Island -** Ushet L. (D154485), 5 July 2004 (PHL). **CLARE: HA 27 -** L. Bridget, Derrymore, Badyke, east shore (R558797), 29 July 2009, EPA (DAM). **DERRY: HA 3 -** L. Neagh, Ballyronan (H948862), 4 July 2000 (Langton, 2002). **FERMANAGH: HA 36 -** Dummys L., Magheraveely (H488276), 28 June 2000; L. Erne Upper, slipway (H362242), 27 June 2000 and L. Macnean, lower, Belcoo (H085384), 29 June 2000, all Langton (2002). **MAYO: HA 33 -** L. Carrowmore, Derreens, Bangor Erris (F833299), 28 July 2008, EPA (DAM). **WATERFORD: HA 18 -** R. Blackwater, Lismore (X047988), 31 August 1981, in Hayes (1991), as *Cryptochironomus* sp. (DAM).

***Cryptochironomus denticulatus* (Goetghebuer, 1921)**
CLARE: HA 25 - L. Graney, Doorus, west shore (R556930), 8 June 2006, EPA (DAM). **DERRY: HA 2 -** R. Roe, Deerpark Wood, Limavaddy (C682203), 9 June 2000 (Langton, 2002)**: HA 3 -** R. Bann, Coleraine (C854304), 7 June 2000 (PHL). **ROSCOMMON: HA 26 -** R. Suck, Ballyforan (M817464), 28 July 1982, BPH (Murray, 2005). **WATERFORD: HA 18 -** R. Blackwater, Ballyduff (W964992) and Lismore (X047988), 31 August 1981 BPH (DAM).

***Cryptochironomus obreptans* (Walker, 1856)**
ANTRIM: HA 3 - L. Neagh: Antrim Bay (J135866), 22 August 2001 (PHL); Churchtown Point (J056852), 22 August 2001, 22 and 31 May 2011 (PHL)**: HA 4 -** Dungonnell Dam, Newtown Crommelin (D193170), 20 June 2000 (Langton, 2002)**: Rathlin Island -** L. Ally (D153494), 5 July 2004 (PHL). **CAVAN: HA 36 -** L. Annagh, Butler's Bridge (H394125), 3 July 2007; L. Garty, Arvagh (N278978), 7 June 2007; L. Gowna north basin, Arnagahan (N285920), 24 July 2007 and L. Macnean, lower, Blacklion (H106378), 7 June 2007, all EPA (DAM). **CLARE: HA 25 -** L. Graney, Doorus, west shore (R556930), 6 September 2006, EPA (DAM)**: HA 27 -** L. Dromore, mid basin, Ruan, Corrofin (R352864), 16 June 2009; L. Gortglass (Gortglass L.), south shore, Killadysert (R223596), 7 July 2009; and L. Rosroe, Newmarket on Fergus, south east shore (R442681), 12 August 2009, all EPA (DAM)**: HA 28 -** L. Lickeen, Kilfenora, mid-lake (R175909), 6 June 2006 and west shore (R163909), 11 June 2009, EPA (DAM). **CORK: HA 19 -** Carrigdroihid Reservoir, Ashton (W360703), 14 August 2008, EPA (DAM)**: HA 20 -** L. Curraghalicky, Drinagh, Dunmanway (W234046), 17 June and 12 August 2008, EPA (DAM). **DERRY: HA 3 -** Downhill Lake, Bishops Gate, Coleraine

(C762361), 21 August 2001; Balinrees Reservoir, Coleraine (C794300), 9 June 2000; R. Bann, Coleraine (C854304), 24 July, 8 August and 7 September 1999, 16 July 2000 and 16 June 2001 (all PHL). L. Neagh, Ballyronan (H948862), 22 August 2001 (PHL). **DONEGAL: HA 38 -** L. Scalpachore, Cruit Island (B730216), 19 July 2000 (Langton, 2002). L. Kindrum, Kindrum, Fanad (C186430), 16 June 2009, EPA (DAM)**: HA 39 -** L. Fern, Millford (C180233), 16 June, 23 July and 18 August 2011, Inch Island impoundment, Inch (C346240), 18 August 2011 (PHL). **DOWN: HA 5 -** Bow L., Ballynahinch (J354577), 22 June 2000 (Langton, 2002). **FERMANAGH: HA 36 -** L. Erne, Lower, Boa Island (H107627), 17 August 2011 (PHL). L. Macnean, lower, Belcoo (H085384), 29 June 2000 (Langton, 2002). L. Eyes, Lisbellaw (H324434), 16 August 2011 (PHL). **GALWAY: HA 29 -** L. Cutra, Gort (R485986), 24 May 2003, EPA (EPA)**: HA 30 -** L. Corrib Upper, Oughterard, west shore (M138486), 14 August 2007, EPA (DAM). L. Ross, Moycullen (M200363), 25 May 2003 (PHL)**: HA 31 -** L. Aunwillan, Carraroe (L936255), 13 September 2007, EPA (DAM). **KERRY: HA 22 -** L. Leane, Killarney: Castlelough Bay, east shore (V975873), 27 June 1973 (Murray, 2005); Killarney (V931886), 24 June and 18 September 2008, EPA (DAM)**: HA 23 -** L. Gill, Castlegregory (Q603139), 29 April and 28 August 2008, EPA (DAM). **LEITRIM: HA 26 -** L. Acres, Drumshanbo (G968099), 24 July 2008; L. Boderg, Derrycarne, north west shore (N013915), 10 September 2008; and L. Rinn, Mohill (N095943), 25 June 2008, EPA (DAM)**: HA 35 -** L. Glencar, Glencar (G757435), 2 September 2008 and L. Glenade, south east shore, Glenade, Manorhamilton (G831457), 4 September 2008, EPA (DAM). **LIMERICK: HA 24 -** L. Bleach (Bleach Lake), Pallaskenry (R441569), 16 September 2009, EPA (DAM). **LONGFORD: HA 26 -** L. Forbes, Cloonard, Newtownforbes (N084821), 27 August and 10 September 2008, EPA (DAM). **MAYO: HA 26 -** L. Nanoge, Urlaur (M506903), 18 June and 27 August 2008, EPA (DAM)**: HA 32 -** L. Feeagh, Newport (L975983), 25 June, 24 July and 17 September 2008, all EPA (DAM). L. Carrokeel, Murrisk (L924830), 5 August 2004, DAM/WM (DAM). L. Knappabeg, Westport (M010803), 23 July 2008, EPA (DAM)**: HA 33 -** L. Carrowmore, Derreens, Bangor Erris (F833299), 28 July 2008, EPA (DAM). **MONAGHAN: HA 36 -** L. Avagnon, Latton, Cotehill (H688133), 6 June and 11 July 2007; L. Drumlona, Rockcorry (H636176), 5 June 2007 and L. Inner, Dartery, Drum (H625173), 6 June 2007, all EPA (DAM). **OFFALY: HA 25 -** bog lake 1, Turraun (N172185), 3 June 1999 (Murray, 2005). **ROSCOMMON: HA 26 -** L. Cavetown, Boyle (M832974), 17 July and 9 September 2008; L. Glinn, Loughglinn, Castlerea (M629870), 12 June 2008; L. Grange (Grange L.), Greywood, Strokestown (M938857), 25 June 2008 and L. Key, Boyle Park wharf (G848040), 11 June 2008 also at (G838057), 6 August 2008, all EPA (DAM). **SLIGO: HA 26 -** L. Gara, Cuppanagh, Cloonlough (G714013), 26 June 2008 and L. Gara, Monastredan (M708996), 5 September 2008, EPA (DAM). **TYRONE: HA 3 -** L. Neagh, Washing Bay,

Coalisland (H903662), 30 May 2002 (PHL). **WATERFORD: HA 16 -** L. Knockaderry, Knockaderry (S496062), 2 September 2009, EPA (DAM). **WESTMEATH: HA 7 -** L. Lene (N510685), 22 August 2006, EPA (DAM).

***Cryptochironomus psittacinus* (Meigen, 1830)**
ANTRIM: Rathlin Island - Ushet L. (D154485), 5 July 2004 (PHL). **CAVAN: HA 26 -** L. Sheelin, Gore Point (N439817), 18 May 1982, PG (DAM). **CLARE: HA 25 -** L. Alewnaghta, Whitegate, west shore (R758908), 16 July 2009, EPA (DAM)**: HA 27 -** L. Bunny, Aughrim, south east shore (R377965), 14 July 2009; Castle L., Kilmurry, Sixmilebridge, south west shore (R481688), 12 June 2009; Gortglass L., Killadysert, north shore (R223599), 11 June 2009 and L. Rosroe, Newmarket on Fergus, south east shore (R442681), 12 August 2009, all EPA (DAM)**: HA 28 -** L. Naminna, Boolteagh (R179708), 11 June 2009, EPA (DAM). **DONEGAL: HA 38 -** L. Mulladerg, The Rosses (B775199), 19 July 2000 (Langton, 2002). L. Kindrum, Fanad (C186430), 22 July 2009; L. Kinny, Fanad (C204442), 6 June 2009 and L. Shannagh, Magheradrumman, Fanad (C216450), 21 July 2009, all EPA (DAM)**: HA 39 -** L. Gartan, Church Hill (C055159), 22 July 2009, EPA (DAM). **DOWN: HA 5 -** Hillsborough Park Lake, Hillsborough (J246583), 22 May 2000 (Langton, 2002). **DUBLIN: HA 9 -** Upper Bohernabreena Reservoir (O095219), 1949 (Reilly, 1950). **FERMANAGH: HA 36 -** L. Macnean, lower, Belcoo (H085384), 29 June 2000 (Langton, 2002). **GALWAY: HA 29 -** L. Caherglassaun, Gort (M412061), 13 June 2007 and L. Coole, Gort (M432043), 15 June 2009 , EPA (DAM). L. Cutra, Gort (R485986), 24 May 2003, EPA (PHL)**: HA 30 -** L. Ballyquirke, Moycullen (M232317), 14 June and 8 August 2007; L. Beaghcauneen, Ballinaboy (L679470), 18 July 2007 and L. Bofin, Maam Cross (M034441), 7 June 2007, EPA (DAM). L. Ross, Moycullen (M200363), 25 May 2003 (PHL)**: HA 31 -** L. Ahalia, north east shore, south of Maam Cross (L971402), 18 June 2009, EPA (DAM)**: HA 31 -** L. Anaserd, Ballyconneely (L605443), 20 June 2006, L. Aunwillan, Carraroe (L936255), 7 June 2007; L. Ballynahinch, Ballynahinch (L777478), 6 June 2007 and L. Loughanaure, Kilkieran (L828320), 7 June 2007, all EPA (DAM)**: HA 32 -** L. Ballynakill, Cleggan (L639581), 5 June 2007 and L. Enask, Beaghcauneen (L662468), 6 June 2007, EPA (DAM). **KERRY: HA 21 -** L. Brin, Derreeny (V780775), 18 June and 13 July 2008, EPA (DAM)**: HA 22 -** Upper Lake, Killarney (V909821), 17 July 2008, EPA (DAM). **LEITRIM: HA 26 -** L. Bofin, Rinnafarna, Dromod (N036891), 24 June and 29 July 2008 and L. Rinn, Mohill (N095943), 25 June and 18 July 2008, EPA (DAM). **LONGFORD: HA 26 -** L. Forbes, Cloonard, Newtownforbes (N084821), 25 June 2008, EPA (DAM). **MAYO: HA 30 -** L. Carra, Keel Bridge, Ballinrobe (M165680), 19 June 2008, EPA (DAM). L. Mask, west shore, Toormakeady (M113702), 24 June 2008, EPA (DAM)**: HA 32 -** L. Knappabeg, Westport (M010803), 24 June and 23 July 2008, EPA (DAM).

Clogher L., Clogher, Westport (M035884), July 1911, PHG (Grimshaw, 1912)**: HA 33 -** Glendarary, Achill Island (L723997), July 1911, JNH (Grimshaw, 1912)**: HA 34 -** L. Cullin, Drummon Wood, Pontoon (G235046), 18 June 2008 and L. Levally, Massbrook (G146043), 25 June and 23 July 2008, EPA (DAM). **MONAGHAN: HA 36 -** L. Drumlona, Rockcorry (H636176), 5 June 2007 and L. Inner, Dartery, Drum (H625173), 6 June 2007, EPA (DAM). **OFFALY: HA 25 -** bog lake 1, Turraun (N172185), 3 June 1999, DAM (Murray, 2005). **WATERFORD: HA 16 -** L. Ballyscanlan (Ballyscanlan Reservoir), Tramore (S540030), 19 August 2009, EPA (DAM). **WESTMEATH: HA 26 -** L. Derravaragh, Crookedwood (N468634), 25 June 2007, EPA (DAM).

***Cryptochironomus redekei* (Kruseman, 1933)**
GALWAY: HA 29 - L. Caherglassaun, Gort (M412061), 13 June and 7 August 2007 (Murray, 2010)**: HA 30 -** L. Lettercraffroe, Oughterard (M056376), 14 June 2007 (Murray, 2010)**: HA 31 -** L. Ballynahinch, Ballynahinch (L777478), 6 June and 23 July 2007 (Murray, 2010)**: HA 32 -** L. Tully, Tully Cross (L695618), 5 June 2007 (Murray, 2010). **LEITRIM: HA 26 -** L. Boderg, Dromod (N020910), 25 June 2008 (Murray, 2010).

***Cryptochironomus rostratus* Kieffer, 1921**
CARLOW: HA 12 - R. Slaney, Kilcarry Bridge (S893624), 28 July 1981 (Hayes, 1991)**: HA 12 -** R. Derreen, Acann Bridge (S900781), 29 July 1981 (Hayes, 1991). **DERRY: HA 3 -** R. Bann, Coleraine (C854304): 20 May, 10, 18 and 23 June, 4 July and 8 August 1999, 17, 25 and 31 May, 7 and 13 June, 16 and 30 July 2000, 16 June 2001 (all PHL). **DONEGAL: HA 38 -** L. Veagh, north east shore, Glenveagh (C039231), 24 July 1985 (Heneghan, 1986)**: HA 39 -** R. Leannan, Drumaboden (C165218), 16 July 1984, BPH (Murray, 2005). **KILDARE: HA 9 -** R. Liffey, Sallins (N881245), 17 July 1983 (Hayes, 1991). **MEATH: HA 7 -** R. Boyne, Stackallen Bridge (N917713), 17 August 1988 (Murray, 1988). R. Boyne, d/s Oldbridge (O062753), 19 July 1989 (DAM). R. Blackwater, Donaghpatrick (N819723), 19 August 1988 (Murray, 1988). **OFFALY: HA 25 -** R. Shannon: Shannon Bridge (M967254), 15 August 1981 and Banagher (N005157), 3 September 1982 (Hayes, 1991). **WEXFORD: HA 12 -** R. Slaney, Edernline Bridge (S977345), 29 July 1981 (Hayes, 1991).

***Cryptochironomus supplicans* (Meigen, 1830)**
ANTRIM: HA 3 - L. Neagh: Antrim Bay (J135866), 22 August 2001 and Churchtown Point (J056852), 31 May 2011 (both PHL)**: Rathlin Island -** L. Nachiule (D160521), 24 July 2000 (Langton, 2002). L. Ally (D153494), 5 July 2004 (PHL). **CAVAN: HA 7 -** L. Ramor, Virginia (N612860), 12 June 2007, EPA (DAM)**: HA 36 -** L. Annagh, Butler's Bridge (H394125), 5

June and 3 September 2007, EPA (DAM). L. Cuillaghan, Ballyconnell (H303183), 6 June 2007 and L. Oughter, Killashandra (H349051), 17 July 2007, EPA (DAM). **CLARE: HA 25 -** L. Graney: Doorus (R557924), 11 August 2009 and Drumandora, west shore (R553938), 15 June 2009, EPA (DAM). L. Alewnaghta, Whitegate, west shore (R758908), 16 July 2009 and north east shore (R764914), 23 September 2009, EPA (DAM)**: HA 27 -** L. Bridget, Derrymore, Badyke, east shore (R558797), 29 July 2009, EPA (DAM). Castle L., Kilmurry, Sixmilebridge, south west shore (R481688), 12 June 2009 and west shore, Kilmurry, Sixmilebridge (R482691), 17 September 2009, EPA (DAM). L. Muckanagh, Tubber, Corrofin, south west shore (R370922), 11 June 2009 also L. Cullaunyheeda, Kilkishen (R484746), 12 June and 17 September 2009, EPA (DAM)**: HA 28 -** L. Acrow, Lissycasey (R193687), 9 May and 8 June 2006, EPA (DAM). L. Keagh, Milltown Malbay, north shore (R100813), 11 June 2009 and south west shore (R100811), 8 July 2009, EPA (DAM). R. Creegh, Mountrivers Bridge, Doonbeg (Q991659), 30 July 1982 (Hayes, 1991). **CORK: HA 19 -** Carrigdroihid Reservoir, Ashton (W360703), 14 August and 16 September 2008, EPA (DAM). L. Aderry, Castlemartyr (W935730), 4 June 1969, NH (Bracken and Murray, 1973). L. Allua, Ballingeary (W180652), 20 August 2008, EPA (DAM)**: HA 21 -** L. Bofinna, Bantry (W041488), 18 June 2008, EPA (DAM). **DERRY: HA 3 -** Howell's Tarn, Ballywildrick, Coleraine (C766325), 7 July 2002 (PHL). Pond 3, Magherafelt Golf Course, Traad Point (H955874), 10 May 2000 and Balinrees Reservoir, Coleraine (C794300), 9 June 2000 (Langton, 2002). R. Bann, Coleraine (C854304): 10 April 1999, 7 June 2000 and 22 September 2002 (PHL). L. Neagh (H9080), no data (McLarnon and Carter, 2000). **DONEGAL: HA 38 -** L. Anure, Loughanure, east shore (B818162), 17 June 2009 and L. Keel, Crolly (B848162), 17 June and 13 August 2009 also L. Keel, Kilmacrennan (C158243), 16 June 2009, all EPA (DAM). **FERMANAGH: HA 36 -** L. Erne, Upper, Newtownbutler, slipway (H362242) and Crom Castle (H357244), 27 June 2000; L. Erne, Lower, Boa Island (H108626), 29 June 2000; L. Killyfole (Mill L.), Rosslea (H464314), 28 June 2000; L. Kilturk Newtownbutler (H374255), 27 June 2000 and L. Macnean, upper, Belcoo (H042403), 29 June 2000, all PHL (Langton, 2002). **GALWAY: HA 26 -** R. Suck, Lismanny (M900255), 15 July 1969 (Murray, 1972)**: HA 29 -** L. Caherglassaun, Gort (M412061), 7 August 2007, EPA (DAM). L. Rea, Loughrea (M615154), 25 May 2003 (PHL/NMI)**: HA 30 -** L. Corrib Lower, Hurney (M258310), 7 July 1980, BC (DAM). L. Ross, Moycullen (M188365), 8 August 2007, EPA (DAM). R. Grange, Grange Bridge (M428498), 16 August 1981 (Hayes, 1991)**: HA 31 -** L. Anaserd, Ballyconneely (L605443), 6 June 2007; L. Aunwillan, Carraroe (L936255) and L. Loughanaure, Kilkieran (L828320), 7 June 2007, all EPA (DAM)**: HA 32 -** L. Kylemore, Letterfrack (L771582), 30 July 2007, EPA (DAM). **KERRY: HA 22** - L. Acoose, Slievanore, Killorglan (V755854), 9 July 2008, EPA (DAM). L. Leane, Killarney: Victoria Bay (V946900), July 1972, DJD/DAM (DAM); Killarney

(V931886), 24 June 2008, EPA (DAM)**: HA 23 -** L. Gill, Castlegregory (Q603139), 29 April 2008, EPA (DAM). **LEITRIM: HA 26 -** L. Natire, north of L. Allen (G966340), 3 August 2005, JRB/MC (DAM). L. Rinn, Mohill (N095943), 25 June, 18 July and 10 September 2008, EPA (DAM)**: HA 35 -** L. Glenade, Glenade, Manorhamilton, south east shore (G831457), 10 June 2008, EPA (DAM). L. Nabrack, Crocknagapple (G860477), 4 August 2005, JRB/MC (DAM). **LIMERICK: HA 24 -** Bleach L., Pallaskenry (R441569), 13 June 2009, EPA (DAM). **LONGFORD: HA 26 -** L. Forbes, Cloonard, Newtownforbes (N084821), 10 September 2008, EPA (DAM). **WESTMEATH: HA 26 -** L. Ree, Coosan (N050450), 15 August 2007, EPA (DAM). **ROSCOMMON: HA 26 -** L. Ree, Yew Point, Barley Harbour (N018485), 13 June 2007, EPA (DAM). **MAYO: HA 26 -** L. Nanoge, Urlaur (M506903), 18 June 2008, EPA (DAM)**: HA 30 -** L. Carra, Keel Bridge, Ballinrobe (M165680), 19 June 2008 and L. Mask, Toormakeady (M113702), 24 June 2008, EPA (DAM)**: HA 32 -** L. Doo Delphi, north east shore (L834689), 22 August 2002, DAM/WM (DAM). L. Ballin, Westport (L996882), 25 June 2008, EPA (DAM)**: HA 33 -** Cross L., Drumreagh, north east shore, Belmullet (F651299), 17 June 2008 and west shore (F645293), 14 August 2008, EPA (DAM). L. Carrowmore, Cloontakilla Bay, Bangor Erris (F851253), 17 June 2008, EPA (DAM)**: HA 34 -** L. Conn, south basin, Illannaglashy (G207070), 20 August 2008 and L. Cullin, Drummon Wood, Pontoon (G235046), 18 June and 20 August 2008, EPA (DAM). L. Washpool, Ballycarra (M219842), 19 June 2008, EPA (DAM). **MONAGHAN: HA 36 -** L. Annaghmakerrig, Newbliss (H585205), 27 June 2006, EPA (DAM). **ROSCOMMON: HA 26 -** L. Annaghmore, Strokestown, Elphin (M902838), 12 June and 15 July 2008, EPA (DAM). L. Cavetown, Boyle (M832974), 11 June 2008, EPA (DAM). L. Glinn, Loughglinn, Castlerea (M629870), 12 June 2008, EPA (DAM). **SLIGO: HA 35 -** L. Templehouse, Ballymote (G619182), 9 September 2008, EPA (DAM). **TIPPERARY: HA 25 -** L. Derg, Dromineer, east shore (M809858), 17 June 2009, EPA (DAM). R. Kilmastulla, Kilmastulla Bridge, Birdhill (R728698), 3 September 1982, BPH (Murray, 2005). **TYRONE: HA 3 -** L. Neagh, Washing Bay, Coalisland (H903662), 30 May 2002 (PHL). **WATERFORD: HA 17 -** Belle Lake, Dunmore East (S665049), 2 July 2009, EPA (DAM). **WESTMEATH: HA 7 -** L. Lene (N510685), 19 September 2006, EPA (DAM).

***Cryptochironomus* sp. pe1 sensu Langton and Viser, 2003**

GALWAY: HA 30 - L. Maumwee, Maam Cross (L977485), 19 April 2007, EPA (DAM). **ROSCOMMON: HA 30 -** R. Dalgan, Cloonfad (M518712), 20 August 1981 and R. Suck, Ballyforan (M817464), 16 July 1984 (Hayes, 1991).

***Cryptotendipes pflugfelderi* Reiss, 1964**

CAVAN: HA 36 - L. Annagh, Butler's Bridge (H394125), 5 June 2007, EPA (DAM).

CLARE: HA 27 - Gortglass L., Killadysert, north shore (R223599), 11 June 2009 and south shore (R223596), 7 July 2009, EPA (DAM). L. Inchiquin, Corrofin, west shore (R266896), 15 July 2009, EPA (DAM). **LEITRIM: HA 26 -** L. Boderg, Dromod (N020910), 25 June 2008, EPA (DAM). L. Rinn, Mohill (N095943), 18 July 2008, EPA (DAM)**: HA 35 -** L. Glenade, south east shore, Glenade, Manorhamilton (G831457), 22 July 2008, EPA (DAM). L. Glencar, Glencar (G757435), 2 September 2008, EPA (DAM). **MAYO: HA 30 -** L. Corrib Upper, Kitteen's Bay, west shore (M110463), 25 June 2010, JRB (DAM). **OFFALY: HA 25 -** bog lake 2, Turraun (N150230), 3 June 1999, DAM/WM (Trodd and Murray, 2004). **ROSCOMMON: HA 26 -** L. Cavetown, Boyle (M832974), 17 July 2008, EPA (DAM). **SLIGO: HA 35 -** L. Arrow, Ballinafad (G789123), 11 June 2008, EPA (DAM). **WESTMEATH: HA 26 -** L. Killinure, Wineport (N067458), 26 June and 15 August 2007, EPA (DAM). L. Coosan, Athlone (N055449), 16 August 2007, EPA (DAM).

***Cryptotendipes pseudotener* (Goetghebuer, 1922)**
CAVAN: HA 7 - L. Mullagh, Mullagh (N680856), 23 May 1968 (Murray, 1972). **CORK: HA 19 -** L. Aderry, Castlemartyr (W935730), 4 June 1969, NH (Bracken and Murray, 1973).

***Cryptotendipes usmaensis* (Pagast, 1931)**
CLARE: HA 27 - Castle L., Kilmurry, Sixmilebridge, south west shore (R481688), 12 June 2009 and west shore (R482691), 17 September 2009, EPA (Murray, 2012).

***Demeijerea rufipes* (Linnaeus, 1761)**
ANTRIM: HA 3 - Templepatrick Pond, Templepatrick (J232856), 26 August 2008 (PHL). **CLARE: HA 27 -** Castle L., Kilmurry, Sixmilebridge, west shore (R482691), 17 September 2009, EPA (DAM). L. Cullaun, Corrofin, mid east shore (R317905), 22 July and 14 September 2009, EPA (DAM). L. Muckanagh, Tubber, Corrofin, south east shore (R370922), 14 September 2009, EPA (DAM). **CORK: HA 20 -** R. Bandon, Castle Bernard (u/s Bandon) (W472546), 25 August 1980 (Morgan, 1982). **DONEGAL: HA 39 -** L. Fern, Milford (C182247), 18 August 2011 (PHL). **GALWAY: HA 30 -** L. Beaghcauneen, Ballinaboy (L679470), 18 July 2007, EPA (DAM). L. Lettercraffroe, Oughterard (M056376), 14 June, 31 July and 5 September 2007, EPA (DAM)**: HA 32 -** L. Enask, Beaghcauneen (L662468), 17 September 2007, EPA (DAM). L. Fadda, Beaghcauneen (L668455), 6 June 2007, EPA (DAM). **KERRY: HA 22 -** L. Leane, Killarney, Castlelough Bay, north shore (V966866), August 1973 (Douglas and Murray, 1980); Muckross Boathouse (V965866), 29 August 1987, NOM (LJH). **LEITRIM: HA 26 -** L. Acres, Drumshanbo (G968099), 24 July and 9 September 2008, EPA (DAM). L. Rinn, Mohill (N095943), 10 September 2008, EPA (DAM)**: HA 35 -** L. Glencar,

Glencar (G757435), 21 July 2008, EPA (DAM). **LONGFORD: HA 26 -** L. Forbes, Cloonard, Newtownforbes (N084821), 25 June 2008, EPA (DAM). **MAYO: HA 32 -** L. Moher, Liscarney, Westport (L977766), 18 September 2008, EPA (DAM)**: HA 33 -** Glendarary, Achill Island (L723997), July 1911, JNH (Grimshaw, 1912)**: HA 34 -** L. Conn, east shore, Brackwansha (G194098), 22 August 1995, DAM/WM (Murray, 2005)**: Clare Island -** L. Poirtin Fuinch (L706857), 7 September 1999 (Fahy, 2002 (NMI)). **SLIGO: HA 35 -** L. Templehouse, Ballymote (G619182), 4 and 9 September 2008, EPA (DAM). **WATERFORD: HA 16 -** L. Knockaderry, Knockaderry (S496062), 2 September 2009, EPA (DAM).

***Demicryptochironomus* (*Demicryptochironomus*) *vulneratus* (Zetterstedt, 1838)**
ANTRIM: HA 3 - L. Neagh, Antrim Bay (J135866), 22 August 2001 (PHL). R. Kells, Shank Bridge, Kells (J126982), 20 June 2000 (Langton, 2002)**: HA 4 -** R. Glendun, Drumfresky, Cushendun (D193308), 2 July 2000 (Langton, 2002). Dungonnell Dam, Newtown Crommelin (D193170), 20 June 2000 (Langton, 2002). **CARLOW: HA 12 -** R. Slaney, Kilcarry Bridge (S893624), 28 July 1981 (Hayes, 1991). **CAVAN: HA 26 -** L. Sheelin, Gore Point (N439817), 27 September 1983, PG (DAM)**: HA 36 -** L. Oughter, Killashandra (H349051), 17 July 2007, EPA (DAM). R. Erne, Carrigan (N391935), 27 August 1982 (Hayes, 1991). **CLARE: HA 25 -** L. Graney, Drumandora, west shore (R553938), 15 June 2009, EPA (DAM). L. Graney, Flagmount, east shore (R563932), 16 September 2009, EPA (DAM)**: HA 27 -** L. Bunny, Aughrim, south east shore (R377965), 2 May and 14 September 2009, EPA (DAM). L. Gortglass, Killadysert, south shore (R223596), 7 July 2009, EPA (DAM). L. Rosroe, Newmarket on Fergus, north east shore (R449697), 16 September 2009, EPA (DAM). L. Atedaun, Corrofin (R297884), 21 April 2009, EPA (DAM)**: HA 28 -** L. Naminna, Boolteagh (R180710), 15 September 2009, EPA (DAM). R. Creegh, Mountrivers Bridge, Doonbeg (Q991659), 30 July 1982 (Hayes, 1991). **CORK: HA 18 -** R. Blackwater, Killavullen (W648998), 31 August 1981 (Hayes, 1991)**: HA 19** - L. Allua, Ballingeary (W180652), 20 August 2008, EPA (DAM)**: HA 20 -** R. Ovane, Pierson's Bridge (W023454), 24 August 1983 (Hayes, 1991). **DERRY: HA 2 -** R. Owenbeg, Feeny picnic area, Feeny (C645058), 26 June 2000 (Langton, 2002)**: HA -** L. Neagh (H9080), no date (McLarnon and Carter, 2000). L. Fea, Draperstown (H760868), 15 May 2002 (PHL). **DONEGAL: HA 37 -** R. Eany, d/s Eanybeg confluence (G842815), 10 August 1982 (Hayes, 1991)**: HA 38 -** L. Mulladerg, The Rosses (B775199), 19 July 2000 (Langton, 2002). L. Dunglow, The Rosses, west shore (B782119), 5 August 2009, EPA (DAM). L. Anure, Loughanure, east shore (B818162), 7 September 2009, EPA (DAM). R. Gweedore, outflow from L. Anure, Crolly (B827184), 19 July 2000 (Langton, 2002). L. Keel, Crolly (B848162), 13 August 2009, EPA (DAM). R. Devlin, Dunlewy (B927190), 19 July 2000 (Langton, 2002). L. Barra, Commeen (B935119), 10 June 2009, EPA

(DAM). L. Nambraddan, Glenveagh (C022193), 31 July 1985 (Heneghan, 1986). L. Veagh, Glenveagh, north east shore (C039230), 22 August 1985 and stream near GNP Administration Centre (C041227), 16 August 1985 (Heneghan, 1986). L. Veagh, north east shore near GNP Visitor Centre (C033223), 19 July 2000 (Langton, 2002). L. Glen, Glen (C105292), 16 June 2009, EPA (DAM). L. Kinny, Fanad (C204442), 6 June and 9 September 2009, EPA (DAM)**: HA 39 -** L. Gartan, Church Hill: north shore (C065173), 18 July 2000 (Langton, 2002) and L. Gartan (C055159), 10 June and 22 July 2009, EPA (DAM). L. Akibbon, Church Hill (C068184), 11 June 2009, EPA (DAM). R. Leannan, Drumaboden (C165218), 12 August 1982 (Hayes, 1991). **DOWN: HA 3 -** R. Leitrim, Leitrim Bridge, Hilltown (J217285), 13 August 1998, LMcL (PHL). Upper R. Bann, Roughan Bridge, Rathfriland (J225363), 13 August 1998, LMcL (PHL). **FERMANAGH: HA 36 -** L. Lattone, Kiltyclogher (H003456), 29 June 2000 (Langton, 2002). **GALWAY: HA 25 -** L. Derg, Woodford (M794964), 23 May 2003 (PHL)**: HA 29 -** L. Coole, Gort (M425037), 27 July 2009, EPA (DAM). L. Rea, Loughrea (M615154), 14 June 2007, EPA (DAM). L. Cutra, Gort (R485986), 24 May 2003, EPA (PHL)**: HA 30 -** L. Ballyquirke, Moycullen (M232317), 14 June 2007, EPA (DAM). L. Corrib (M1545), 1980, BC (DAM). L. Lettercraffroe, Oughterard (M056376), 31 July 2007, EPA (DAM)**: HA 31 -** L. Anaserd, Ballyconneely (L605443), 6 June 2007, EPA (DAM). L. Ardderry, Maam Cross (L982458), 25 March 2003 (PHL). L. Aunwillan, Carraroe (L936255), 7 June 2007, EPA (DAM). L. Ballynahinch, Ballynahinch (L777478), 6 June and 13 September 2007, EPA (DAM). L. Illauntrasna, Glentrasna, Garomna (L888254), 6 June and 12 September 2007, EPA (DAM). L. Loughanaure, Kilkieran (L828320), 24 July and 12 September 2007, EPA (DAM). L. Nahasleam, Maam Cross South (L972440), 8 August 2006, EPA (DAM)**: HA 32 -** L. Ballynakill, Cleggan (L639581), 11 September 2007, EPA (DAM). L. Enask, Beaghcauneen (L662468), 6 June 2007, EPA (DAM). L. Fadda, Beaghcauneen (L668455), 11 September 2007, EPA (DAM). L. Tully, Tully Cross (L695618), 19 July 2007, EPA (DAM). L. Nambrackmore, Ballinaboy, Toombeola (L716454), 12 September 2007, EPA (DAM). **KERRY: HA 21 -** Erik L., Derrygarriff (V881777), 9 August 2005, JRB (DAM)**: HA 22 -** L. Caragh, Killorglin (V719904), 15 July 2008, EPA (DAM). L. Guitane, Crohane, Killarney (W025846), 16 May 2005 and 8 July 2008, EPA (DAM). L. Leane, Killarney: Castlelough Bay, north shore (V966866), 27 June 1973; Juniper Bay (V949863), 11 June 1973; shore at O'Sullivans Cascade (V916886), 17 April 1973, all DJD/DAM (Douglas and Murray, 1980). L. Leane, Killarney, Muckross Boathouse (V965866), 6 September 1987, NOM (LJH). Muckross Lake, Killarney: Dundag Bay (V964858), 23 July 1973 (DAM); Muckross Lake, Killarney (V950853), 16 July and 18 September 2008, EPA (DAM). **KILDARE: HA 9 -** R. Liffey, Sallins (N881245), 17 July 1983 (Hayes, 1991). **KILKENNY: HA 15 -** R. Nore, Norelands Bridge (S547436), 28 August 1981 (Hayes, 1991). **LEITRIM: HA 26 -** L. Boderg, Dromod

(N020910), 25 June 2008 and L. Boderg, Derrycarne, north west shore (N013915), 10 September 2008, EPA (DAM)**: HA 35 -** L. Glenade, Glenade, Manorhamilton (G831457), south east shore, 10 June 2008, EPA (DAM). L. Glencar, Glencar (G757435), 2 September 2008, EPA (DAM). **LIMERICK: HA 24 -** Bleach L., Pallaskenry (R441569), 13 June 2009, EPA (DAM). **LONGFORD: HA 26 -** L. Forbes, Cloonard, Newtownforbes (N084821), 27 August 2008, EPA (DAM). **MAYO: HA 30 -** L. Carra, Keel Bridge, Ballinrobe (M165680), 19 June and 28 July 2008, EPA (DAM)**: HA 32 -** L. Glencullin, Delphi, north west shore, (L815699), 26 June 2008, EPA (DAM). R. Erriff, Ashleigh Falls (L895645), 18 August 1981 (Hayes, 1991). Demesne garden, Westport (L9984), July 1911, PHG (Grimshaw, 1912). L. Ballin, Westport, north shore (L996882), 25 June 2008, EPA (DAM). L. Knappabeg, Westport (M010803), 23 July 2008, EPA (DAM)**: HA 33 -** L. Keel, Achill Island, south east shore (F650051), 17 June 2008 and south west shore (F641055), 17 September 2008, EPA (DAM). L. Carrowmore, Bangor Erris, Derreens (F833299), 28 July 2008 and Knocknascollop (F830282), 17 September 2008, EPA (DAM)**: HA 34 -** L. Cullin, Drummon Wood, Pontoon (G235046), 18 June and 22 August 1995, DAM/WM (DAM). L. Washpool, Ballycarra (M219842), 19 June 2008, EPA (DAM). **MEATH: HA 7 -** R. Boyne, Newtown, Trim (N815571), 9 July 1981 (Hayes, 1991); Ardsallagh, at St Bridget's Well (N897635), 7 July 1988 (Murray, 1988); Knowth Weir (N995720) and Oldbridge (O045761), 19 July 1989 (DAM). **OFFALY: HA 25 -** bog lake 1, Turraun (N172185), June 1998 (DAM). **ROSCOMMON: HA 26 -** R. Suck, Mount Talbot (M813531), 14 August 1981; Ballyforan (M817464), 16 July 1981 (both Hayes, 1991). L. Cavetown, Boyle (M832974), 11 June and 17 July 2008, EPA (DAM). L. Key, Boyle (G838057), 6 August 2008, EPA (DAM). **SLIGO: HA 34 -** R. Moy, Cloonacool (G493168), 30 August 1982; Annagh (G466123), 30 August 1982 (both Hayes, 1991)**: HA 35 -** L. Easky, Ox Mountain (G446230), 18 June and 17 July 2008, EPA (DAM). **TIPPERARY: HA 16 -** R. Suir, d/s Thurles (S128581), 22 May 1992 and Cabragh (S124562), 6 July 1992 (Murray and Lynch, 1992)**: HA 18 -** Black L., Arra Mountains (R738771), 10 August 2005, JRB (DAM). **WATERFORD: HA 18 -** R. Blackwater, Ballyduff (W964992) and Lismore (X047988), 31 August 1981 (Hayes, 1991). **WESTMEATH: HA 36 -** L. Bane, Collinstown (N550712), 23 May and 26 June 2006, EPA (EPA). **WICKLOW: HA 12 -** R. Derry, Balisland (S978645), 28 July 1981 (Hayes, 1991). R. Slaney, Kilmurray (S889856), 28 July 1981 (Hayes, 1991).

***Demicryptochironomus* (*Demicryptochironomus*) sp. pe1 sensu Langton and Visser, 2003**
CAVAN: HA 36 - R. Erne, Drumbarry (N462951), 17 August 1982, BPH (DAM). **DONEGAL: HA 38 -** L. Anure, Loughanure, east shore (B818162), 7 September 2009, EPA (DAM)**: HA 39 -** R. Leannan, Drumaboden (C165218), 12 August 1982, BPH (DAM). **KILKENNY: HA 15 -** R. Nore, Norelands Bridge (S547436), 18 August 1982, BPH (DAM).

WICKLOW: HA 10 - R. Avoca, Avoca village (T203802), 19 June 1997, FC (Curran, 2001; DAM)

***Demicryptochironomus* (*Irmakia*) *neglectus* Reiss, 1988**
MAYO: HA 32 - R. Bunowen u/s of bridge, Louisburg (L807807), 15 August 2004, DAM/WM (Murray, 2010). **WICKLOW: HA 10 -** R. Avonmore, Lion Arch Bridge (T194833), July 1997, FC (DAM).

***Dicrotendipes lobiger* (Kieffer, 1921)**
ARMAGH: HA 3 - L. Neagh, Oxford Island, Lurgan (J044621), 18 July 2003 (PHL). **CAVAN: HA 26 -** L. Sheelin, Gore Point (N439817), 28 September 1983, PG (DAM). **CLARE: HA 27 -** L. Rosroe, Newmarket on Fergus, south east shore (R442681), 12 August 2009, EPA (DAM). L. Cullaunyheeda, Kilkishen (R488746), 13 August 2009, EPA (DAM). **DERRY: HA 1 -** pool near Reservoir, Creggan, Derry (C414171), 17 May 2002 (PHL)**: HA 3 -** L. Neagh, Ballyronan (H948862), 22 May 2011 (PHL). **DONEGAL: HA 38 -** L. Nasnahida, Doocharry, Dunglow (B852076), 17 June 2009, EPA (DAM)**: HA 39 -** L. Fern, Millford (C180233), 16 June, 23 July and 9 September 2009, EPA (DAM). **GALWAY: HA 26 -** L. Acalla, Ballinasloe (M720344), 7 July 1964 (Murray, 1972)**: HA 30 -** L. Corrib (M1545), 1980, BC (DAM). **KERRY: HA 21 -** L. Namona, Waterville (V596711), 19 June 2008, EPA (DAM)**: HA 22 -** Upper Lake, Killarney, Gortroe (V918818), May 1973 (Douglas and Murray, 1980). **LEITRIM: HA 26 -** L. Rinn, Mohill (N095943), 25 June 2008, EPA (DAM). **MAYO: HA 32 -** L. Doo, Delphi, west shore (L835681), 12 July 2006, EPA (DAM)**: HA 34 -** L. Cullin, Drummon Wood, Pontoon (G235046), 18 June 2008, EPA (DAM). **ROSCOMMON: HA 26 -** L. Cavetown, Boyle (M832974), 17 July 2008, EPA (DAM). L. Key, Boyle (G838057), 6 August 2008, EPA (DAM). **WATERFORD: HA 16 -** L. Ballyscanlan (Reservoir), Tramore (S540030), 22 April 2009, EPA (DAM)**: HA 17 -** L. Carrigavantry, Tramore (S548022), 21 April 2009, EPA (DAM). **WESTMEATH: HA 25 -** L. Owel, Mullingar (N421566), May 1973, NH (Hayes, 1980) and June 1981 (Forde, 1985). L. Ennell, Tudenham (N415466), 1981, GPF (Forde, 1985).

***Dicrotendipes nervosus* (Staeger, 1839)**
ANTRIM: HA 3 - L. Neagh, Antrim Bay (J135866), 4 May 1999 and 22 August 2001 also Churchtown Point (J056852), 22 August 2001 (PHL). Pond, Templepatrick (J232856), 26 August 2008 (PHL)**: HA 5 -** L. Mourne, Copeland water, Carrickfergus (J415924), 4 and 8 May 1999 (PHL)**: Rathlin Island** - pool 2, east of lighthouse (D164520), 24 July 2000 (Langton, 2002). L. Ally (D153494), 24 July 2000 (Langton, 2002) and 5 July 2004 (PHL). **ARMAGH:**

HA 3 - L. Neagh, Oxford Island, Lurgan (J044621), 18 July 2003 (PHL). **CAVAN: HA 26 -** L. Sheelin, Gore Point (N439817), 26 September and 3 October 1983, PG (DAM)**: HA 36 -** L. Gowna, Arnagahan, north basin (N285920), 24 July 2007, EPA (DAM). **CLARE: HA 27 -** L. Bridget, Derrymore, Badyke, east shore (R558797), 29 July 2009, EPA (DAM). Castle L., Kilmurry, Sixmilebridge, west shore (R484690), 17 July 2009, EPA (DAM). L. Dromore, Ruan, Corrofin (R345858), 8 April 2009, EPA (DAM). L. Muckanagh, Tubber, Corrofin (R368926), 2 May 2006, EPA (PHL). **CORK: HA 19 -** L. Aderry, Castlemartyr (W935730), 21 May 1969, NH (Bracken and Murray, 1973)**: HA 21** - L. Avaul, Glengarrif (V910553), 15 July 1969, NH (Bracken and Murray, 1973). **DERRY: HA 3 -** Downhill Forest lake, Coleraine (C757353), 21 August 2001 (PHL). R. Bann, Coleraine(C854304), 25 May and 7 June 2000 (PHL). Pond 1, Magherafelt Golf Course, Traad Point (H950873), 10 May 2000 (Langton, 2002). L. Neagh (H9080), no date (McLarnon and Carter, 2000); L. Neagh, Ballyronan (H948862): 4 May 1999, 10 May and 4 July 2000 (Langton, 2002); 22 August 2001, 22 and 31 May 2011 (PHL). **DONEGAL: HA 38 -** R. Gweedore, outflow from L. Anure, Crolly (B827184), 19 July 2000 (Langton, 2002). L. Veagh, north east shore near Visitor Centre, Glenveagh (C033223), 19 July 2000 (Langton, 2002). L. Glen, Glen (C105292), 16 June 2009, EPA (DAM)**: HA 39 -** L. Fern, Milford (C182247), 2 June 2000 (Langton, 2002) and 18 August 2011 (PHL). **DUBLIN: HA 9 -** lakes in Zoological Gardens, Dublin (O130350), July 1987, DAM/RH (Murray, 2005; Murray *et al*., 1987). **FERMANAGH: HA 36 -** L. Erne, Lower: Boa Island (H108626), 29 June 2000 (Langton, 2002) and Black Bay (H072639), 27 April 2002 (PHL). **GALWAY: HA 25 -** L. Derg, Woodford (M794964), 23 May 2003 (PHL)**: HA 30 -** L. Corrib, Knockferry (M230410), 28 April 1980, BC (DAM). **KERRY: HA 22 -** L. Leane, Killarney, mid lake (V930883), 14 July 1973 (Douglas and Murray, 1980). R. Flesk, Killarney, u/s Newbridge (V978900), 4 May 1973 (DAM) and (V973895), September 1973, DJD/DAM (Ashe, 1982). **LEITRIM: HA 26 -** L. Bofin, Rinnafarna, Dromod (N036891), 29 July and 10 September 2008, also L. Rinn, Mohill (N095943), 10 September 2008, EPA (DAM) and pond in Lough Rynn Castle walled garden (N098936), 25 September 2014 (DAM). **LONGFORD: HA 26 -** L. Forbes, Cloonard, Newtownforbes (N084821), 10 September 2008, EPA (DAM). **MAYO: HA 30 -** L. Carra, Keel Bridge, Ballinrobe (M165680), 28 April 2008, EPA (DAM)**: HA 32 -** Demesne, Westport (L990845), July 1911, PHG (Grimshaw, 1912)**: HA 33 -** Glendarary, Achill Island (L723997), July 1911, JNH (Grimshaw, 1912)**: HA 34 -** Castlebar L., Castlebar (M100870), July 1911, PHG (Grimshaw, 1912)**: Clare Island -** L. Poirtin Fuinch (L706285), 2 and 11 June, 6 July 1998 also 10 June 1999, all SF (Fahy, 2002). **MONAGHAN: HA 36 -** L. Drumlona, Rockcorry (H636176), 11 July 2007, EPA (DAM). **OFFALY: HA 25 -** R. Shannon, Shannon Bridge (M967254), 15 August 1981 (Hayes, 1991). **ROSCOMMON: HA 26 -** L. Cavetown, Boyle (M832974), 17 July 2008, EPA (DAM). L. Glinn, Loughglinn, Castlerea (M629870), 12 June

2008, EPA (DAM). L. Key, Boyle (G838057), 6 August 2008, EPA (DAM). **SLIGO: HA 35 -** L. Easky, Ox Mountain (G446230), 18 June 2008, EPA (DAM). **TYRONE: HA 3 -** L. Neagh, Washing Bay, Coalisland (H903662), 30 May 2002 (PHL). **WATERFORD: HA 18 -** R. Blackwater, Ballyduff (W964992) and Lismore (X047988), 31 August 1981 (Hayes, 1991). **WESTMEATH: HA 25 -** L. Owel, Mullingar (N421566), 14 August 1973, NH (Hayes, 1980)**: HA 36 -** L. Bane, Collinstown (N550712), 24 July 2006, EPA (EPA).

***Dicrotendipes notatus* (Meigen, 1818)**
ANTRIM: HA 3 - pond, Templepatrick (J232856), 26 August 2008 (PHL). **CAVAN: HA 7 -** L. Cuilcagh, Virginia (N636895), 30 April 1968 (Murray, 1972). **DONEGAL: HA 38 -** L. Veagh, GNP, boathouse near castle (C022211), 21 July 2009, EPA (DAM). L. Greenan, Loughsalt, Kilmacrennan (C117262), 29 April 2009, EPA (DAM)**: HA 39 -** L. Fern, Millford (C180233), 9 September 2009, EPA (DAM). **GALWAY: HA 30 -** L. Corrib Upper, Oughterard (M138486), 14 September 2007, EPA (DAM): **HA 32 -** L. Kylemore, Letterfrack (L771582), 2 April 2007, EPA (DAM). **KERRY: HA 22 -** L. Leane, Killarney, Ross Bay (V945850), February to August 1973 and mid lake (V930883), 14 July 1973 (Douglas and Murray, 1980). R. Flesk, White Bridge (V987904), February to August 1973 (Douglas and Murray, 1980; Ashe, 1982)**: HA 23 -** L. Cam, Castlegregory (Q597079), 25 June 2008, EPA (DAM). **KILDARE: HA 9 -** R. Rye, Kildare Bridge, Carton (N948387), 13 July 1983 (Hayes, 1991). **MAYO: HA 32 -** Westport L., Westport Woods Hotel, Westport (L985843), 7 May 2004, DAM/WM (DAM). **MEATH: HA 7 -** R. Boyne, Ardsallagh, at St Bridget's Well (N897635), 18 June 2000, DAM/WM (DAM). Artificial tank, Ardsallagh, Navan (N896635), 11 June 2000, DAM/WM (Murray, 2005).

***Dicrotendipes pallidicornis* (Goetghebuer, 1934)**
MAYO: HA 32 - L. Furnace, Burrishoole, Newport (L975965), 7 July 1997, DAM (Murray and Murray, 2006).

***Dicrotendipes pulsus* (Walker, 1856)**
ANTRIM: HA 3 - L. Neagh, Lennymore Bay, north shore (J115745), March 1969 (Marks and Henderson, 1970). Killylane Reservoir, Magherabane, Larne (J292985), 8 May 1999 (PHL)**: HA 5 -** Three-mile-water, Mossley (J380892), 4 May 1999, SMcB (PHL). **CAVAN: HA 7 -** L. Ramor, Virginia (N603871), 25 May 1967 (DAM); golf course shore, Virginia (N595870), 9 July 1968 (Murray, 1972), May 1971, DJD/DAM (Douglas, 1971) and 27 June 2005 (DAM). L. Cuilcagh, Virginia (N636895), 6 May 1968 (DAM). L. Mullagh, Mullagh (N680856), 23 May 1968 (Murray, 1972) and 9 May 1974 (DAM)**: HA 26 -** L. Sheelin, Gore Point (N439817), 28

September 1983, PG (DAM)**: HA 36 -** L. Oughter, Killashandra (H349051), 17 July 2007, EPA (DAM). **CLARE: HA 25 -** L. Derg, d/s Killaloe (M705715), 21 April 2009, EPA (DAM). L. Alewnaghta, Whitegate (R758908), 20 April 2009, EPA (DAM)**: HA 27 -** L. Bunny, Aughrim, south east shore (R377965): 25 May 2003 (PHL), 10 May 2005, 2 May and 7 June 2006 (EPA), 11 June and14 July 2009, EPA (DAM). L. Cullaun, Corrofin, mid east shore (R317905), 7 June and 4 July 2006, EPA (PHL). L. Inchicronan, Crusheen (R391860), 9 July 2009, EPA (DAM). L. Inchiquin, Corrofin (R270895), 4 July 2006, EPA (DAM). L. Muckanagh, Tubber, Corrofin (R368926), 2 May, 3 July and 5 September 2006, EPA (PHL/LPR); L. Muckanagh (R370922), 11 June 2009, EPA (DAM). L. Rosroe, Newmarket on Fergus, south east shore (R442681), 12 August 2009, EPA (DAM). L. Cullaunyheeda, Kilkishen (R484746), 12 June and 13 August 2009, EPA (DAM). L. Atedaun, Corrofin (R297884), 14 July 2009, EPA (DAM)**: HA 28 -** L. Naminna, Boolteagh (R179708), 11 June 2009, EPA (DAM). **CORK: HA 19 -** Carrigdroihid Reservoir, Ashton (W360703), 3 April, 16 June, 14 August and 16 September 2008, EPA (DAM). L. Aderry, Castlemartyr (W935730), 13 August 1969, NH (Bracken and Murray, 1973)**: HA 20 -** L. Ballin, Leap (W199389), 17 June and 21 August 2008, EPA (DAM). L. Tooreen, Crookhaven (V790259), 17 September 2008, EPA (DAM). **DERRY: HA 1 -** Upper Reservoir, Creggan, Derry (C417173), 10 and 18 May 2001 also inflow to Upper Reservoir (C413171), 18 May 2001 (PHL)**: HA 3 -** pond 1, Magherafelt Golf Course, Traad Point (H950873), 10 May 2000 (Langton, 2002). L. Neagh (H9080), no date (McLarnon and Carter, 2000); L. Neagh, Ballyronan (H948862), 1988 (Tokeshi, 1990) also 7 May 2001 and 15 May 2002 (PHL). **DONEGAL: HA 1 -** L. Finn, Fintown, Glenties (B911018), 9 June 2009, EPA (DAM)**: HA 36 -** L. Unshin, Ballyshannon (G951637), 6 July 2009, EPA (DAM)**: HA 37 -** L. Eske, Donegal (G973844), 17 April 2009, EPA (DAM)**: HA 38 -** L. Altercan, The Rosses (B755158), 19 July 2000 (Langton, 2002). L. Anure, Loughanure, east shore (B818162), 17 June 2009, EPA (DAM). L. Veagh, north east shore, Glenveagh (C038236), 24 July 1985, POD (Heneghan, 1986). L. An tSeisigh, Portnablagh, Sheephaven (C043361), 28 July 2009, EPA (DAM). L. Greenan, Loughsalt, Kilmacrennan (C117262), 8 September 2009, EPA (DAM). L. Kiltoris, Dawros, Ardara (G675976), 30 July 2009, EPA (DAM). L. Voriskey, The Rosses (B762176), 19 July 2000 (Langton, 2002)**: HA 39 -** L. Fern, Millford (C180233), 23 July 2009, EPA (DAM). **FERMANAGH: HA 36 -** L. Erne, Lower: Black Bay (H072639), 27 April 2002 (PHL) and Brockagh Point, Boa Island (H108627), 17 August 2011 (PHL). R. Bannagh, Drummoney Falls, Pettigo (H168676), 17 August 2011 (PHL). **GALWAY: HA 29 -** L. Rea, Loughrea (M615154), 25 May 2003 (PHL) and 14 June 2007, EPA (DAM)**: HA 30 -** L. Anillaun, Maam Cross (L980470), 19 April and 1 August 2007, EPA (DAM). L. Beaghcauneen, Ballinaboy (L679470), 18 July 2007, EPA (DAM). L. Corrib, Knockferry (M230410), 29 April 1980, BC (DAM). L. Maumwee, Maam Cross (L977485), 19 April, 8

June and 12 July 2007, EPA (DAM). Stream at lay-by picnic site on road N59, Moycullen (M204326), 25 May 2003 (PHL)**: HA 31 -** L. Anaserd, Ballyconneely (L605443), 17 July 2007, EPA (DAM). L. Ballynahinch, Ballynahinch (L777478), 17 April and 6 June 2007, EPA (DAM). L. Ballynakill, Gorumna (L867236), 20 June 2006, EPA (DAM). L. Derryclare, Recess (L825485), 17 April and 6 June 2007, EPA (DAM). L. Nahasleam, Maam Cross (L972440), 20 June and 8 August 2006 also 19 April and 1 August 2007, EPA (DAM). L. Shindilla, Derreennacreeva, Maam Cross (L958460), 9 August 2006, EPA (DAM)**: HA 32 -** L. Ballynakill, Cleggan (L639581), 11 July 2007, EPA (DAM). L. Fadda, Beaghcauneen (L668455), 17 July 2007, EPA (DAM). L. Tully, Tully Cross (L695618), 19 July 2007, EPA (DAM). L. Pollacappul, Kylemore (L754582), 5 June and 9 July 2007, EPA (DAM). **KERRY: HA 21 -** L. Currane, Waterville (V535664), 9 May 2008, EPA (DAM). L. Inchiquin, Kenmare (V837629), 18 June 2008, EPA (DAM)**: HA 22 -** L. Cummernamuck, Killorglin (V745897), 20 June 2008, EPA (DAM). L. Kilbrean, Killarney (W005935), 24 July 1969, NH (Bracken and Murray, 1973). L. Leane, Killarney, mid lake (V930883), 14 July 1973 and Inishfallen (V933893), 11 June 1973 (Douglas and Murray, 1980). Muckross Lake, Killarney: Coleen Bawn (V950857) and Dundag Bay (V964858), April and May 1973 (Douglas and Murray, 1980) also Muckross Lake (V950853), 24 April 2008, EPA (DAM). Upper Lake, Killarney, Gortroe (V918818), May 1973 (Douglas and Murray, 1980)**: HA 23 -** L. Gill, Castlegregory (Q603139), 29 April, 25 June and 28 August 2008, EPA (DAM). **LEITRIM: HA 26 -** L. Bofin, Dromod (N049894), 24 June 2008, EPA (DAM). L. Rinn, Mohill (N095943), 25 June 2008, EPA (DAM). **LONGFORD: HA 26 -** L. Forbes, Cloonard, Newtownforbes (N084821), 25 June and 27 August 2008, EPA (DAM). **MAYO: HA 30 -** L. Carra, Keel Bridge, Ballinrobe (M165680), 28 July 2008, EPA (DAM). L. Mask, Toormakeady (M113702), 24 June 2008, EPA (DAM)**: HA 32 -** L. Doo, Delphi, north east shore (L834689), 6 June 2002, DAM/WM (Murray, 2005). Ballin L., Westport, south shore (L994878), 22 April 2008, EPA (DAM). L. Knappabeg, Westport (M010803), 24 June and 23 July 2008, EPA (DAM)**: HA 33 -** L. Acorrymore, Achill Island (F578057), 17 June 2008, EPA (DAM). Bog pools, Glenamoy (F896345), 1973, CD (Dowling and Murray, 1981)**: HA 34 -** L. Mallard, Castlebar (M121902), 30 September 2004, DAM/WM (DAM). **MONAGHAN: HA 36 -** L. Annaghmakerrig, Newbliss (H585205), 27 June 2006, EPA (DAM). L. Avagnon, Latton, Cotehill (H688133), 11 July 2007, EPA (DAM). **ROSCOMMON: HA 26 -** L. Cavetown, Boyle (M832974), 17 July 2008, EPA (DAM). **SLIGO: HA 35 -** L. Arrow, Ballinafad (G789123), 29 April 2008, EPA (DAM). **TYRONE: HA 1 -** R. Glenelly, Leagh's Bridge, Mullaghsallagh (H695940), 17 August 2011 (PHL). **WATERFORD: HA 16 -** L. Knockaderry, Knockaderry (S496062), 2 April 2009, EPA (DAM)**: HA 17 -** L. Carrigavantry, Tramore (S548022), 21 April 2009, EPA (DAM). **WESTMEATH: HA 25 -** L. Ennell, Tudenham (N415466), 1981 (Forde, 1985)**: HA**

26 - L. Derravaragh, Crookedwood (N468634), 30 August 2007, EPA (DAM). L. Coosan, Athlone (N055449), 24 April 2007, EPA (DAM)**: HA 36 -** L. Bane, Collinstown (N550712), 22 August 2006, EPA (EPA). **WEXFORD: HA 13 -** Lady's Island Lake, Carnsore (T105077), July 1991, B. Healy (DAM). **WICKLOW: HA 10 -** L. Dan, Roundwood (O157035), 15 June 2009, EPA (DAM). Vartry Reservoir, south east shore, Roundwood (O214002), 13 August 1983, HD (DAM) and north basin, Roundwood (O205050), 2 July 2009, EPA (DAM).

***Dicrotendipes tritomus* (Kieffer, 1916)**

CAVAN: HA 7 - L. Acurry, Baileborough (N584990), 5 July 2007, EPA (DAM). **CLARE: HA 28 -** L. Naminna, Boolteagh (R179708), 11 June 2009, EPA (DAM). **CORK: HA 19 -** Carrigdroihid Reservoir, Ashton (W360703), 14 August 2008, EPA (DAM)**: HA 20 -** L. Skeagh (Schull Reservoir), Schull (V937338), 17 June and 27 August 2008, EPA (DAM). L. Tooreen, Crookhaven (V790259), 17 June 2008, EPA (DAM). **DONEGAL: HA 36 -** L. Golagh, Ballyshannon (G965655), 7 July 2009, EPA (DAM). L. Unshin, Ballyshannon (G951637), 8 June 2009, EPA (DAM)**: HA 38 -** L. Dungloe, The Rosses: south east shore (B783112), 12 August 1982, BPH (DAM); east shore (B787117), 19 July 2000 (Langton, 2002); west shore (B782119), 5 August 2009, EPA (DAM). L. Anure, Loughanure, east shore (B818162), 17 June 2009, EPA (DAM). R. Gweedore, outflow from L. Anure, Crolly (B827184), 19 July 2000 (Langton, 2002). L. Veagh, north east shore, Glenveagh (C038233), 24 July, 22 and 27 August 1985 (Heneghan, 1986)**: HA 39 -** L. Gartan, north shore, Church Hill (C065173), 18 July 2000 (Langton, 2002). **GALWAY: HA 30 -** L. Anillaun, Maam Cross (L980470), 8 June and 1 August 2007, EPA (DAM). L. Beaghcauneen, Ballinaboy (L679470), 6 June and 18 July 2007, EPA (DAM). L. Bofin, Maam Cross (M034441), 31 July 2007, EPA (DAM). L. Corrib Upper, Oughterard (M138486), 14 September 2007, EPA (DAM). L. Lettercraffroe, Oughterard (M056376), 31 July 2007, EPA (DAM). L. Maumwee, Maam Cross (L977485), 17 September 2007, EPA (DAM)**: HA 31 -** L. Ahalia, Maam Cross (L971402), 18 June 2009, EPA (DAM). L. Ardderry, Maam Cross (L982458), 1 August 2007, EPA (DAM). L. Ballynakill, Gorumna (L867236), 20 June 2006, EPA (DAM). L. Nahasleam, Maam Cross (L972440), 20 June, 11 July, 8 August 2006 and 7 June 2007, EPA (DAM)**: HA 32 -** L. Fadda, Beaghcauneen (L668455), 17 July 2007, EPA (DAM). **KERRY: HA 21 -** L. Currane, Waterville (V535664), 18 June 2008, EPA (DAM). L. Inchiquin, Kenmare (V837629), 18 June 2008, EPA (DAM)**: HA 22 -** L. Guitane, Crohane, Killarney (W025846), 26 June 2008, EPA (DAM). L. Leane, Killarney, Muckross Boathouse (V965866), 29 August 1987, NOM (Murray, 2005). Muckross Lake, Killarney (V950853), 16 July 2008, EPA (DAM)**: HA 23 -** L. Cam, Castlegregory (Q597079), 29 April and 25 June 2008, EPA (DAM). **MAYO: HA 32 -** L. Fin, Delphi (L841657), 28 June 2006, EPA (DAM). **WESTMEATH: HA 25 -** L. Ennell, Mullingar

(N378444), 29 April 1981, BPH (PJA/DAM). **WICKLOW: HA 10 -** Vartry Reservoir, Roundwood, north basin (O205050), 2 July 2009, EPA (DAM).

***Einfeldia pagana* (Meigen, 1838)**
CLARE: HA 27 - L. Muckanagh, Tubber, Corrofin (R368926), 2 August 2006, EPA (PHL). **CORK: HA 19 -** L. Allua, Ballingeary (W180652), 20 August 2008, EPA (DAM). **GALWAY: HA 29 -** L. Rea, Loughrea (M615154), 14 June 2007, EPA (DAM)**: HA 30 -** L. Corrib: Knockferry (M236415), 8 May 1980, BC (DAM); Clonbur (M068525), 22 August 1995 (DAM); Moycullen (M271360), 11 June 2007, EPA (DAM)**: HA 31 -** L. Aunwillan, Carraroe (L936255), 7 June and 25 July 2007, EPA (DAM). **MAYO: HA 30 -** L. Carra, Keel Bridge, Ballinrobe (M165680), 28 July 2008, EPA (DAM). **MEATH: HA 7 -** R. Boyne, Bellinter Bridge (N894625), 8 May 1974 (Murray, 2005). **MONAGHAN: HA 6 -** L. Monalty, Carrickmacross (H866027), 14 September 2007, EPA (DAM). **WESTMEATH: HA 25 -** L. Owel, Mullingar (N421566), June 1973, NH (Hayes, 1980)**: HA 25 -** L. Ennell, Tudenham (N415466), 1981 (Forde, 1985)**: HA 36 -** L. Bane, Collinstown (N550712), 26 June and 22 August 2006, EPA (EPA).

***Endochironomus albipennis* (Meigen, 1830)**
ANTRIM: HA 3 - L. Neagh: Lennymore Bay (J115745), 1965 (Marks and Henderson, 1970); Antrim Bay (J135866) and Churchtown Point (J056852), 22 August 2001 (PHL). Pond, Templepatrick (J232856), 26 August 2008 (PHL)**: HA 5 -** L. Mourne, Copeland water, Carrickfergus (J415924), 4 and 8 May 1999 (PHL)**: Rathlin Island -** Nature Reserve lough (D095505), 24 July 2000 (Langton, 2002), Ushet L. (D154485), 5 July 2004 (PHL). **CAVAN: HA 7 -** L. Drumkeery, Baileborough (H663002), 1 May 2007, EPA (DAM). L. Acurry, Baileborough (N584990), 5 July 2007, EPA (DAM). L. Ramor: golf course shore, Virginia (N595870), 7 May 1967 (Murray, 1972); Virginia (N603871), May 1971, DJD/DAM (Douglas, 1971) and 27 June 2005, DAM/WM (DAM). L. Cuilcagh, Virginia (N636895), 30 April 1968 (Murray, 1972). L. Mullagh, Mullagh (N680856), 23 May 1968 (Murray, 1972)**: HA 26 -** L. Sheelin: Kilnahard (N435860), 19 and 31 August 1971, NH (DAM); Gore Point (N439817), 21 March 1982, PG (DAM)**: HA 36 -** Glasshouse L., Killashandra (H270060), 7 June and 18 July 2007, EPA (DAM). L. Annagh, Butler's Bridge (H394125), 3 and 18 September 2007, EPA (DAM). L. Cuillaghan, Ballyconnell (H303183), 25 July 2007, EPA (DAM). L. Garty, Arvagh (N278978), 7 June and 18 July 2007, EPA (DAM). L. Gowna, north basin, Arnagahan (N285920), 24 July and 18 September 2007, EPA (DAM). **CLARE: HA 25 -** L. Graney, Doorus, west shore (R556930), 3 August 2006, EPA (DAM). L. Alewnaghta, Whitegate, west shore (R758908), 20 April and 16 July 2009, EPA (DAM). L. Atorick, Feakle (R637964), 24

May 2003, EPA (PHL)**: HA 27 -** L. Bridget, Derrymore, Badyke, east shore (R558797), 21 April, 29 July and 17 September 2009, EPA (DAM). L. Bunny, Aughrim, south east shore (R377965), 7 June 2006, EPA (EPA). L. Dromore, Ruan, Corrofin (R345858), 4 May 2006, and mid lake (R352864), 16 June 2009, EPA (DAM). Gortglass L., Killadysert (R223599), 15 September 2009, EPA (DAM). L. Inchiquin, Corrofin (R270895), 4 July 2006, EPA (DAM). L. Muckanagh, Tubber, Corrofin (R370922), 14 September 2009, EPA (DAM). L. Rosroe, Newmarket on Fergus, south east shore (R442681), 12 August 2009 and north east shore (R449697), 16 September 2009, EPA (DAM). L. Cullaunyheeda, Kilkishen (R488746), 13 August 2009, EPA (DAM)**: HA 28 -** L. Doo, Milltown Malbay (R123721), 8 July 2009, EPA (DAM) and (R114722), 15 September 2009, EPA (DAM). L. Keagh, Milltown Malbay, north shore (R100813), 11 June 2009 and south west shore (R100811), 8 July 2009, EPA (DAM). L. Lickeen, Kilfenora: mid lake (R175909), 6 June 2006; west shore 1 (R168909), 21 July 2009; west shore 2 (R164908), 15 September 2009, EPA (DAM). **CORK: HA 19 -** Carrigdroihid Reservoir, Ashton (W360703), 16 June 2008, EPA (DAM). Iniscarra Reservoir, Coachford (W477717), 28 July 2008, EPA (DAM). L. Allua, Ballingeary (W180652), 17 June and 20 August 2008, EPA (DAM)**: HA 20 -** L. Ballin, Leap (W199389), 9 April, 21 August and 17 September 2008, EPA (DAM). L. Coolkllure, Dunmanway (W177539), 11 August 2008, EPA (DAM). L. Curraghalicky, Drinagh, Dunmanway (W234046), 17 June 2008, EPA (DAM). L. Skeagh (Schull Reservoir), Schull (V937338), 27 August and 17 September 2008, EPA (DAM)**: HA 21 -** L. Avaul, Glengarrif (V910553), 18 August 1969 and L. Reenydonegan, Bantry (W000515), 2 June 1969, NH (Bracken and Murray, 1973). **DERRY: HA 1 -** Upper Reservoir, Creggan, Derry (C417173) and inflow to Upper Reservoir (C413171), 18 May 2001 (PHL). Pool near Upper Reservoir, Creggan, Derry (C414171), 17 May 2002 (PHL). Lower Reservoir, Creggan, Derry (C422174), 10 May 2001 (PHL)**: HA 3 -** Howell's Tarn, Ballywildrick, Coleraine (C766325), 21 April and 7 July 2002 (PHL). Downhill Forest lake, Coleraine (C757353), 21 August 2001 (PHL). Downhill Lake, Bishops Gate, Coleraine (C762361), 18 May and 21 August 2001 (Langton, 2002). Balinrees Reservoir, Coleraine (C794300), 9 June 2000 (Langton, 2002). R. Bann, Coleraine (C854304): 3 May, 3 and 16 July 2000 (PHL). Coleraine (C855308), 28 August 2002 (PHL). Pond 3, Magherafelt Golf Course, Traad Point (H955874), 10 May 2000 (Langton, 2002). L. Neagh: (H9080), no date (McLarnon and Carter, 2000); Ballyronan (H948862), 27 April, 4 and 10 May, 4 July 2000 (Langton, 2002) also 7 May and 22 August 2001, 25 May 2002 (all PHL). **DONEGAL: HA 1 -** L. Finn, Fintown, Glenties (B911018), 9 June 2009, EPA (DAM)**: HA 38 -** L. Scalpachore, Cruit Island (B730216) and L. Mulladerg, The Rosses (B775199), 19 July 2000 (Langton, 2002). L. Anure, Loughanure, east shore (B818162), 17 June and 12 August 2009, EPA (DAM). L. Glen, Glen (C105292), 16 June 2009, EPA (DAM). L. Keel, Kilmacrennan (C158243), 16 July 2009, EPA (DAM). L.

Fallaneas, Kindrum (C173424), 30 April 2009, EPA (DAM). L. Kinny, Fanad (C204442), 9 September 2009, EPA (DAM)**: HA 39 -** L. Akibbon, Church Hill (C068184), 23 April 2009, EPA (DAM). L. Fern, Milford (C182247), 18 August 2011 (PHL). **DOWN: HA 5 -** L. Henney, Ballynahinch (J348586), 22 June 2000 (Langton, 2002). Bow L., Ballynahinch (J354577), 22 June 2000 (Langton, 2002). **DUBLIN: HA 9 -** Royal Canal, Ashtown (O108378), 22 May 1968, DAM (Murray, 1972). **FERMANAGH: HA 36 -** Dummys L., Magheraveely (H488276), 28 June 2000 (Langton, 2002). L. Erne, Upper, slipway (H362242) and Crom Castle, Newtownbutler (H357244), 27 June 2000 (Langton, 2002). L. Erne, Lower: Brockagh Point, Boa Island (H108626), 29 June 2000 (Langton, 2002) and 16 August 2011 (PHL); Black Bay (H072639), 27 April 2002 (PHL). L. Killyfole (Mill L.), Rosslea (H464314), 28 June 2000 (Langton, 2002). L. Kilturk, Newtownbutler (H374255), 27 June 2000 (Langton, 2002). L. Lattone, Kiltyclogher (H003456), 29 June 2000 (Langton, 2002). L. Macnean, lower, Belcoo (H085384), 29 June 2000 (Langton, 2002). L. Nolughage, Crom Castle, Newtownbutler (H364243), 27 June 2000 (Langton, 2002). Toppedmountain L., Tempo, Enniskillen (H310453) and L. Eyes, Lisbellaw (H324434), 16 August 2011 (PHL). **GALWAY: HA 29 -** L. Caherglassaun, Gort (M412061), 7 August 2007, EPA (DAM). L. Rea, Loughrea (M615154), 25 May 2003 (PHL)**: HA 30 -** L. Anillaun, Maam Cross (L980470), 19 April 2007, EPA (DAM). L. Corrib Upper, Oughterard (M138486), 14 September 2007, EPA (DAM). L. Corrib Lower, Hurney (M258310), 8 May 1980, BC (DAM). L. Ross, Moycullen (M200363), 25 May 2003 (PHL)**: HA 31 -** L. Aunwillan, Carraroe (L936255), 16 April, 25 July and 13 September 2007, EPA (DAM). L. Ballynahinch, Ballynahinch (L777478), 13 September 2007, EPA (DAM). L. Derryclare, Recess (L825485), 16 July 2007, EPA (DAM). L. Loughanaure, Kilkieran (L828320), 24 July 2007, EPA (DAM)**: HA 32 -** L. Tully, Tully Cross (L695618), 19 July 2007, EPA (DAM). **KERRY: HA 21 -** Erik L., Derrygarriff (V881777), 9 August 2005, JRB (DAM)**: HA 22 -** L. Kilbrean, Killarney (W005935), 11 August 1969, NH (Bracken and Murray, 1973). L. Leane, Killarney: Castlelough Bay, north shore (V966866), 27 June 1973, JPOC (Douglas and Murray, 1980); Juniper Bay (V949863), 11 June 1973; Ross Bay (V945850), May to August 1973 (Douglas and Murray, 1980) and 27 August 1987 (DAM); Victoria Bay (V946900), May to August 1973, DJD/DAM (all Douglas and Murray, 1980); Killarney (V931886), 24 June and 10 July 2008, EPA (DAM). Muckross Lake, Killarney, Goleen Bay (V963853), 26 June 1973 (Douglas and Murray, 1980)**: HA 23 -** L. Gill, Castlegregory (Q603139), 28 August 2008, EPA (DAM). **LEITRIM: HA 26 -** L. Allen, Mountallen, Drumshanbo (G950145), 7 August 2008, EPA (DAM). L. Boderg, Derrycarne, north west shore (N013915), 29 July 2008, EPA (DAM)**: HA 35 -** L. Belhavel, Killarga, Dromahair (G878288), 10 June 2008, EPA (DAM). L. Glenade, Manorhamilton, south east shore (G831457), 22 July 2008, EPA (DAM). L. Glencar, Glencar (G757435), 10 June 2008,

EPA (DAM). **LEITRIM: HA 26 -** L. Rinn, Shore at Lough Rynne Castle, (N100935), 25 September 2014, DAM. **LIMERICK: HA 24 -** Bleach L., Pallaskenry (R441569), 16 September 2009, EPA (DAM). **LONGFORD: HA 26 -** L. Forbes, Cloonard, Newtownforbes (N084821), 25 June 2008, EPA (DAM). **WESTMEATH: HA 26 -** L. Ree, Coosan (N050450), 15 August 2007, EPA (DAM). **LOUTH: HA 6 -** L. Mentrim, Ardee (N913879), 27 June 2005, DAM/WM (DAM). **MAYO: HA 26 -** Loughanboy turlough, Ballyhaunis (M433816), 24 May 1986, DAM/WM (DAM). L. Nanoge, Urlaur (M506903), 18 June and 27 August 2008, EPA (DAM)**: HA 30 -** L. Aille, Aille, Westport (M071807), 8 August 2008, EPA (DAM). L. Carra, Keel Bridge, Ballinrobe (M165680), 28 July 2008, EPA (DAM)**: HA 32 -** L. Ballin, Westport, south shore (L994878), 22 April and north shore (L996882), 18 September 2008, EPA (DAM). L. Knappabeg, Westport (M010803), 23 July 2008, EPA (DAM)**: HA 33 -** L. Keel, Achill Island, south east shore (F650051), 17 June 2008 and mid lake (F651059), 16 July 2008, EPA (DAM)**: HA 34 -** L. Castlebar, Castlebar (M106879), 7 May 2004, DAM/WM (DAM). L. Conn: Cloghans (G205133), 7 March 1965 (Murray, 1972); Brackwansha (G194098) and Massbrook (G168054), 1 August 1995, DAM/WM (Murray, 2005); Illannaglashy (G207070), 20 August 2008, EPA (DAM). L. Cullin, Drummon Wood, Pontoon (G235046), 20 August 2008, EPA (DAM). L. Mallard, Castlebar, Castlebar (M121902), 30 September 2004, DAM/WM (DAM). **MONAGHAN: HA 6 -** L. Monalty, Carrickmacross (H866027), 14 September 2007, EPA (DAM)**: HA 36 -** L. Annaghmakerrig, Newbliss (H585205), 22 May 2006, EPA (DAM). L. Avagnon, Latton, Cotehill (H688133), 11 July 2007, EPA (DAM). Summerhill L., Magheraveely (H490280), 28 June 2000 (Langton, 2002). **OFFALY: HA 25 -** R. Shannon, Banagher (N005157), 3 September 1982; Shannon Bridge (M967254), 15 August 1981 (both Hayes, 1991). **ROSCOMMON: HA 26 -** R. Suck, Castlecoote (M809627), 16 July 1981 (Hayes, 1991). L. Annaghmore, Strokestown, Elphin (M902838), 15 July and 2 September 2008, EPA (DAM). L. Glinn, Loughglinn, Castlerea (M629870), 12 June and 25 August 2008, EPA (DAM). Grange L., Greywood, Strokestown (M938857), 10 September 2008, EPA (DAM). L. Key, Boyle (G838057), 6 August 2008, EPA (DAM). **SLIGO: HA 26 -** L. Gara, Cuppanagh, Cloonlough (G714013), 26 June 2008, EPA (DAM). **TYRONE: HA 1 -** L a'Tirrive, Mulderg, Mountfield (H534778), 16 August 2011 (PHL)**: HA 3 -** L. Neagh, Washing Bay, Coalisland (H903662), 15 and 30 May 2002 (PHL). **WATERFORD: HA 16 -** L. Ballyscanlan (Reservoir), Tramore (S540030), 19 August 2009, EPA (DAM). L. Ballyshunnock (Reservoir), Portlaw (S455095), 20 April and 2 September 2009, EPA (DAM). L. Knockaderry, Knockaderry (S496062), 2 April and 1 July 2009, EPA (DAM)**: HA 17 -** Belle Lake, Dunmore East (S665049), 22 April and 2 July 2009, EPA (DAM). L. Carrigavantry, Tramore (S548022), 21 April, 19 August and 1 September 2009, EPA (DAM). **WESTMEATH: HA 25 -** L. Ennell, Tudenham (N415466), 14 June 1966 (Murray, 1972) and 29 June 1966 (DAM)**: HA 26 -** L.

Derravaragh, Crookedwood (N468634), 30 August 2007, EPA (DAM). L. Killinure: Ballaghkeernan Bay (N069445), 24 April and 11 September 2007; Wineport (N067458), 26 June 2007, all EPA (DAM). L. Coosan, Athlone (N055449), 16 August and 11 September 2007, EPA (DAM).

***Endochironomus tendens* (Fabricius, 1775)**

ANTRIM: Rathlin Island - pool 2, east of lighthouse (D164520), L. Nachiule (D160521) and long pool (D148521), 24 July 2000 (all Langton, 2002). *Menyanthes* pool (D123515), 6 July 2004 (PHL). **CLARE: HA 25 -** L. Alewnaghta, Whitegate: west shore (R758908), 17 June and 16 July 2009; north east shore (R764914), 23 September 2009, all EPA (DAM)**: HA 27 -** L. Bridget, Derrymore, Badyke, north basin (R563803), 12 June 2009 and east shore, (R558797), 17 September 2009, EPA (DAM). L. Bunny, Aughrim, south east shore (R377965), 7 June 2006, EPA (EPA). Castle L., Kilmurry, Sixmilebridge (R481688), 12 June 2009, EPA (DAM). **CORK: HA 19 -** College lake, Castlemartyr (W963722), 3 May 1965 (Murray, 1972)**: HA 20 -** L. Skeagh (Schull Reservoir), Schull (V937338), 27 August 2008, EPA (DAM)**: HA 21 -** L. Avaul, Glengarrif (V910553), 8 September 1969, NH (Bracken and Murray, 1973). **DERRY: HA 3 -** pond, near R. Macquosin, Ballytinagh Road, Coleraine (C854255), 16 May 2004 and 20 August 2006 (PHL). R. Bann, Coleraine (C854304), 22 September 1999 (PHL). Pond 2, Magherafelt Golf Course, Traad Point (H954873), 10 May 2000 (Langton, 2002). L. Neagh (H9080), no date (McLarnon and Carter, 2000); Ballyronan (H948862), 1988 (Tokeshi, 1990) also 4 May 1999 and 22 May 2011 (PHL). **DONEGAL: HA 38 -** L. Mulladerg, The Rosses (B775199), 19 July 2000 (Langton, 2002)**: HA 38 -** L. Kindrum, Kindrum, Fanad (C186430), 16 June 2009, EPA (DAM). **DOWN: HA 5 -** L. Henney, Ballynahinch (J348586), 22 June 2000 (Langton, 2002). **GALWAY: HA 25 -** L. Derg: Meelich Bay, Portumna (M860033), 16 August 1995, C. Moriarty (DAM); Woodford (M794964), 23 May 2003 (PHL)**: HA 30 -** L. Ross, Moycullen (M200363), 25 May 2003 (PHL)**: HA 31 -** L. Anaserd, Ballyconneely (L605443), 11 September 2007, EPA (DAM). L. Illauntrasna, Glentrasna, Garomna (L888254), 6 June 2007, EPA (DAM). **KERRY: HA 22 -** L. Leane, Killarney: Ross Bay (V945850), July to September 1973, DJD/DAM (Douglas and Murray, 1980); Muckross Boathouse (V965866), 1 September 1987, NOM (LJH). Muckross Lake, Killarney, mid lake (V950850), 30 July 1973 (Douglas and Murray, 1980). **LEITRIM: HA 26 -** L. Acres, Drumshanbo (G968099), 11 June 2008, EPA (DAM). L. Boderg, Dromod (N020910), 25 June 2008, EPA (DAM). **LONGFORD: HA 26 -** L. Forbes, Cloonard, Newtownforbes (N084821), 25 June and 10 September 2008, EPA (DAM). **MAYO: HA 32 -** L. Fin, Delphi (L841657), 28 June 2006, EPA (DAM). L. Carrokeel, Murrisk (L924830), 5 August 2004, DAM/WM (DAM). L. Moher, Liscarney, Westport (L977766), 24 June 2008, EPA (DAM)**: HA 33 -** L. Keel, Achill Island, south east shore

(F650051), 17 June 2008 and mid lake (F651059), 16 July 2008, EPA (DAM)**: HA 34 -** L. Lannagh, Castlebar, west shore (M109883), 21 August 2008, EPA (DAM)**: Clare Island -** Creggan L., Lecarrow (L689857), 4 August 1998 and L. Poirtin Fuinch (L706857), 10 August 1998 (Fahy, 2002, NMI). **OFFALY: HA 25 -** bog lake 1, Turraun (N172185), 3 June 1999, DAM (DAM). **ROSCOMMON: HA 26 -** L. Annaghmore, Strokestown, Elphin (M902838), 15 July 2008, EPA (DAM). L. Glinn, Loughglinn, Castlerea (M629870), 25 August 2008, EPA (DAM). **WESTMEATH: HA 25 -** L. Owel, Mullingar (N421566), 1981 (Forde, 1985). L. Ennell, Tudenham (N415466), 27 July 1979, DAM (Murray, 2005)**: HA 36 -** L. Bane, Collinstown (N550712), 26 June 2006, EPA (EPA). **WICKLOW: HA 10 -** Vartry Reservoir, Roundwood, south east shore (O214002), 13 August 1983, HD (DAM).

***Glyptotendipes* (*Caulochironomus*) *foliicola* ?Kieffer, 1918 sensu Pinder 1978 (adult male) and Langton & Visser, 2003 (Pe)**

CAVAN: HA 7 - L. Drumkeery, Baileborough (H663002), 16 July 2007, EPA (DAM)**: HA 36 -** L. Ardan, Milltown, Belturbet (H354124), 26 July 2007, EPA (DAM). L. Gowna, south basin, Dring (N300856), 18 April 2007, EPA (DAM). L. Oughter, Killashandra (H349051), 17 July 2007, EPA (DAM). **CLARE: HA 25 -** L. Alewnaghta, Whitegate, west shore (R758908), 16 July 2009, EPA (DAM)**: HA 27 -** L. Bridget, Derrymore, Badyke, east shore (R558797), 21 April 2009, EPA (DAM). L. Cullaun, Corrofin, mid east shore (R317905), 22 July 2009, EPA (DAM). L. Dromore, Ruan, Corrofin (R345858), 4 May 2006 and 21 July 2009, EPA (DAM). L. Gortglass, Killadysert, south shore (R223596), 7 July 2009, EPA (DAM). **CORK: HA 20 -** L. Abisdealy, Skibbereen (W136314), 17 September 2008, EPA (DAM). L. Ballin, Leap (W199389), 9 April and 17 June 2008, EPA (DAM). **DERRY: HA 3 -** pond, near R. Macquosin, Ballytinagh Road, Coleraine (C854255), 16 May 2004 (PHL). **DONEGAL: HA 38 -** L. Fallaneas, Kindrum (C173424), 30 April and 16 June 2009, EPA (DAM). L. Kiltoris, Dawros, Ardara (G675976), 30 July 2009, EPA (DAM)**: HA 39 -** L. Akibbon, Church Hill (C068184), 23 April 2009, EPA (DAM). **DUBLIN: HA 9 -** lake in Zoological Gardens , Dublin (O129353), 15 May 1987 MB/DAM (DAM). **FERMANAGH: HA 36 -** Dummys L., Magheraveely (H488276), 28 June 2000 (Langton, 2002). L. Erne Upper, Newtownbutler slipway (H362242) and Crom Castle (H357244), 27 June 2000 (Langton, 2002). L. Inver, Rosslea (H518314), 28 June 2000 (Langton, 2002). L. Macnean, lower, Belcoo (H085384), 29 June 2000 (Langton, 2002). L. Nolughage, Crom Castle, Newtownbutler (H364243), 27 June 2000 (Langton, 2002). **GALWAY: HA 31 -** L. Anaserd, Ballyconneely (L605443), 16 May and 20 June 2006, EPA (DAM). L. Illauntrasna, Glentrasna, Garomna (L888254), 6 June 2007, EPA (DAM)**: HA 32 -** L. Nambrackmore, Ballinaboy, Toombeola (L716454), 6 June and 27 July 2007, EPA (DAM). **LEITRIM: HA 26 -** L. Boderg, Derrycarne, north west shore (N013915),

29 July and 10 September 2008, EPA (DAM). L. Bofin, Rinnafarna, Dromod (N036891), 29 July 2008, EPA (DAM)**: HA 35 -** L. Glenade, south east shore, Glenade, Manorhamilton (G831457), 22 July 2008, EPA (DAM). **LONGFORD: HA 26 -** L. Ree, Bleanavoher (N069445), 25 April 2007, EPA (DAM). **ROSCOMMON: HA 26 -** L. Ree, Yew Point, Barley Harbour (N018485), 25 April 2007, EPA (DAM). **LOUTH: HA 6 -** L. Mentrim, Ardee (N913879), 27 June 2005, DAM/WM (DAM). **MAYO: HA 30 -** L. Carra, Keel Bridge, Ballinrobe (M165680), 28 July 2008, EPA (DAM)**: HA 32 -** L. Moher, Liscarney, Westport (L977766), 21 April 2008, EPA (DAM). Clogher L., boat dock on north shore, Clogher, Westport (M032880), 30 September 2004, DAM/WM (DAM)**: HA 34 -** L. Lannagh, west shore, Castlebar (M109883), 23 April 2008, EPA (DAM) and west shore (M105880), 30 June 2008, EPA (DAM). L. More, Ballynagoraher (G115044), 8 May and 29 June 2006, EPA (DAM). **MONAGHAN: HA 36 -** L. Drumlona, Rockcorry (H636176), 11 July 2007, EPA (DAM). **ROSCOMMON: HA 26 -** L. Annaghmore, Strokestown, Elphin (M902838), 15 July 2008, EPA (DAM). Grange L., Greywood, Strokestown (M938857), 25 June and 28 July 2008, EPA (DAM). **WATERFORD: HA 17 -** L. Carrigavantry, Tramore (S548022), 3 July 2009, EPA (DAM). **WESTMEATH: HA 26 -** L. Killinure, Wineport (N067458), 24 April and 15 August 2007, EPA (DAM). L. Coosan, Athlone (N055449), 24 April and 16 August 2007, EPA (DAM).

***Glyptotendipes* (*Caulochironomus*) *scirpi* (Kieffer, 1915)**

CAVAN: HA 36 - L. Annagh, Butler's Bridge (H394125), 3 July 2007, EPA (DAM). L. Atrain, Gartbrattan, Cavan (H364051), 4 July 2009, EPA (DAM). L. Macnean, lower, Blacklion (H106378), 23 July 2007, EPA (DAM). **CLARE: HA 25 -** L. Alewnaghta, Whitegate, west shore (R758908), 20 April and 16 July 2009, EPA (DAM)**: HA 27 -** L. Bridget, Derrymore, Badyke, east shore (R558797), 29 July 2009, EPA (DAM). L. Bunny, Aughrim, south east shore (R377965), 2 May 2006, EPA (EPA). L. Inchicronan, Crusheen west basin (R391860), 9 July 2009, EPA (DAM). L. Muckanagh, Tubber, Corrofin (R368926), 2 May 2006, EPA (PHL). L. Rosroe, Newmarket on Fergus, south east shore (R442681), 12 August 2009, EPA (DAM). **CORK: HA 19 -** L. Allua, Ballingeary (W180652), 17 June 2008, EPA (DAM)**: HA 20 -** L. Ballin, Leap (W199389), 9 April 2008, EPA (DAM). L. Curraghalicky, Drinagh, Dunmanway (W234046), 9 April 2008, EPA (DAM). L. Tooreen, Crookhaven (V790259), 10 April 2008, EPA (DAM). **DONEGAL: HA 37 -** L. Shinvagh, Ballintra (H005675), 27 April 2002 (Langton, 2004). **FERMANAGH: HA 36 -** L. Eyes, Lisbellaw (H324434), 16 August 2011 (PHL). **GALWAY: HA 30 -** L. Ballyquirke, Moycullen (M232317), 13 April, 14 June and 8 August 2007, EPA (DAM). L. Beaghcauneen, Ballinaboy (L679470), 6 June 2007, EPA (DAM). L. Ross, Moycullen (M188365), 13 April 2007, EPA (DAM)**: HA 31 -** L. Anaserd,

Ballyconneely (L605443), 6 June and 17 July 2007, EPA (DAM)**: HA 32 -** L. Ballynakill, Cleggan (L639581), 3 April and 11 July 2007, EPA (DAM). L. Fadda, Beaghcauneen (L668455), 6 June 2007, EPA (DAM). **KERRY: HA 21 -** L. Brin, Derreeny (V780775), 16 April 2008, EPA (DAM). **LIMERICK: HA 24 -** L. Gur, Holycross (R646269), 28 July 2009, EPA (DAM). **MAYO: HA 26 -** L. Nanoge, Urlaur (M506903), 24 April 2008, EPA (DAM)**: HA 30 -** L. Aille, Aille, Westport (M071807), 24 June 2008, EPA (DAM). L. Carra, Keel Bridge, Ballinrobe (M165680), 28 April 2008, EPA (DAM)**: HA 32 -** L. Moher, Liscarney, Westport (L977766), 21 July 2008, EPA (DAM). L. Knappabeg, Westport (M010803), 24 June and 23 July 2008, EPA (DAM). **ROSCOMMON: HA 26 -** L. Cavetown, Boyle (M832974), 17 July 2008, EPA (DAM). Grange L., Greywood, Strokestown (M938857), 8 April and 25 June 2008, EPA (DAM). **SLIGO: HA 35 -** L. Arrow, Ballinafad (G789123), 11 June 2008, EPA (DAM). **WATERFORD: HA 17 -** Belle Lake, Dunmore East (S665049), 22 April, 2 July and 19 August 2009, EPA (DAM). **WESTMEATH: HA 26 -** L. Killinure, Ballaghkeernan Bay (N069445), 24 April 2007, EPA (DAM). **WICKLOW: HA 9 -** Pollaphuca Reservoir, Ballymore Eustace (N995080), 30 April 2009, EPA (DAM).

***Glyptotendipes* (*Caulochironomus*) *viridis* (Macquart, 1834)**
[Including records under *Glyptotendipes* (*Caulochironomus*) *imbecilis* (Walker, 1856)]
CLARE: HA 27 - L. Bridget, Derrymore, Badyke, north basin (R563803), 12 June 2009, EPA (DAM). L. Bunny, Aughrim, south east shore (R377965), 25 May 2003 (PHL). Castle L., Kilmurry, Sixmilebridge, south west shore (R481688), 12 June 2009, EPA (DAM). **CORK: HA 21 -** L. Avaul, Glengarrif (V910553), 1969, NH (Bracken and Murray, 1973). **GALWAY: HA 30 -** L. Corrib, Knockferry (M230410), 18 May 1980, BC (DAM)**: HA 31 -** L. Illauntrasna, Glentrasna, Garomna (L888254), 25 July and 12 September 2007, EPA (DAM). **KERRY: HA 22 -** L. Leane, Killarney, Castlelough Bay (North) (V966866), 27 June 1973, JPOC (Douglas and Murray, 1980). **MAYO: HA 32 -** Clogher L., Clogher, Westport (M035884), July 1911, PHG (Grimshaw, 1912).

***Glyptotendipes* (*Glyptotendipes*) *barbipes* (Staeger, 1839)**
CAVAN: HA 7 - L. Acurry, Baileborough (N584990), 12 June 2007, EPA (DAM)**: HA 36 -** L. Annagh, Butler's Bridge (H394125), 3 July 2007, EPA (DAM). **CLARE: HA 25 -** L. Graney, Doorus (R557924), 11 August 2009, EPA (DAM)**: HA 27 -** L. Bridget, Derrymore, Badyke, north basin (R563803), 12 June 2009 and east shore (R558797), 29 July 2009, EPA (DAM). L. Dromore, Ruan, Corrofin (R345858), 8 June 2006, EPA (DAM). L. Rosroe, Newmarket on Fergus, north east shore (R449697), 16 September 2009, EPA (DAM). **CORK: HA 19 -** L. Aderry, Castlemartyr (W935730), 21 May 1969, NH (Bracken and Murray, 1973). L. Allua,

Ballingeary (W180652), 17 June and 20 August 2008, EPA (DAM)**: HA 20 -** L. Abisdealy, Skibbereen (W136314), 17 September 2008, EPA (DAM). L. Skeagh (Schull Reservoir), Schull (V937338), 17 June 2008, EPA (DAM). **DONEGAL: HA 38 -** L. Fallaneas, Kindrum (C173424), 30 April and 16 June 2009, EPA (DAM). **FERMANAGH: HA 36 -** L. Nolughage, Crom Castle, Newtownbutler (H364243), 27 June 2000 and Dummys L., Magheraveely (H488276), 28 June 2000, both Langton (2002). **GALWAY: HA 30 -** L. Beaghcauneen, Ballinaboy (L679470), 6 June 2007, EPA (DAM). L. Corrib Lower, Moycullen (M271360), 28 August 2007, EPA (DAM). L. Ross, Moycullen (M188365), 14 June 2007, EPA (DAM). **KERRY: HA 23 -** L. Gill, Castlegregory (Q603139), 16 June 2002, GO (Murray, 2005). **LEITRIM: HA 26 -** L. Acres, Drumshanbo (G968099), 11 June 2008, EPA (DAM). L. Rinn, Shore at Lough Rynn Castle (N100935), 25 September 2014 (DAM). **MAYO: HA 32 -** L. Ballin, north shore, Westport (L996882), 25 June 2008, EPA (DAM)**: HA 33 -** Cross L., Drumreagh, Belmullet: north east shore (F651299), 17 June 2008; west shore (F645293), 14 August 2008, both EPA (both DAM). **ROSCOMMON: HA 26 -** L. Annaghmore, Strokestown, Elphin (M902838), 15 July and 2 September 2008, EPA (DAM). L. Glinn, Loughglinn, Castlerea (M629870), 12 June 2008, EPA (DAM).

***Glyptotendipes* (*Glyptotendipes*) *cauliginellus* (Kieffer, 1913)**

ANTRIM: Rathlin Island - pool 2, east of lighthouse (D164520), L. Craigmacagan (D154498), 24 July 2000 and Nature Reserve lough (D095505), all 24 July 2000 (Langton, 2002). *Menyanthes* pool (D123515), 6 July 2004 (PHL). **CAVAN: HA 36 -** L. Ardan, Milltown, Belturbet (H354124), 6 June and 26 July 2007, EPA (DAM). L. Atrain, Gartbrattan, Cavan (H364051), 4 July 2009, EPA (DAM). L. Gowna, north basin, Arnagahan (N285920), 7 June 2006, EPA (DAM). **CLARE: HA 25 -** L. Graney, Doorus (R556930), 24 May 2003 (PHL). L. Alewnaghta, Whitegate, west shore (R758908), 16 July 2009, EPA (DAM)**: HA 27 -** L. Bridget, Derrymore, Badyke, east shore (R558797), 17 September 2009, EPA (DAM). L. Bunny, Aughrim, south east shore (R377965), 7 June 2006, 11 June and 14 July 2009, all EPA (DAM). L. Cullaun, Corrofin, mid east shore (R317905), 7 June, 22 July 2009, EPA (DAM). L. Dromore, Ruan, Corrofin, west basin (R345858), 21 July 2009, EPA (DAM). L. Gortglass, Killadysert, south shore (R223596), 7 July 2009, north shore (R223599), 15 September 2009, EPA (DAM). L. Inchicronan, east basin, Crusheen (R398866), 15 June 2009, EPA (DAM). L. Inchiquin, Corrofin (R270895), 4 July 2006, EPA (DAM). L. Muckanagh, Tubber, Corrofin (R368926), 5 September 2006, EPA (LPR) and south east shore (R370922), 11 June 2009, EPA (DAM). L. Rosroe, Newmarket on Fergus, north east shore (R448697), 16 June 2009, south east shore (R442681), 12 August 2009, EPA (DAM) and north east shore (R449697), 16 September 2009, EPA (DAM). L. Cullaunyheeda, Kilkishen (R492748), 17 September 2009, EPA (DAM).

CORK: HA 19 - Carrigdroihid Reservoir, Ashton (W360703), 14 August 2008, EPA (DAM)**: HA 20 -** L. Ballin, Leap (W199389), 17 June and 21 August 2008, EPA (DAM). L. Curraghalicky, Drinagh, Dunmanway (W234046), 12 August 2008, EPA (DAM)**: HA 21 -** L. Avaul, Glengarrif (V910553), 1969, NH (Bracken and Murray, 1973). L. Reenydonegan, Bantry (W000515), 15 July 1969, NH (Bracken and Murray, 1973). **DERRY: HA 3 -** Downhill Lake, Bishops Gate, Coleraine (C762361), 18 May 2000 (Langton, 2002); Downhill Lake, Bishops Gate, Coleraine (C762361), 21 August 2001 (Langton, 2002). Pond, near R. Macquosin, Ballytinagh Road, Coleraine (C854255), 26 May 2004 (PHL). Pond 1 (H950873), pond 2 (H954873) and pond 3 (H955874), Magherafelt Golf Course, Traad Point, all 10 May 2000, all Langton (2002). **DONEGAL: HA 38 -** L. Scalpachore, Cruit Island (B730216), 19 July 2000 (Langton, 2002). L. Greenan, Loughsalt, Kilmacrennan (C117262), 16 June 2009, EPA (DAM). L. Kindrum, Kindrum, Fanad (C186430), 16 June and 22 July 2009, EPA (DAM). L. Kinny, Fanad (C204442), 9 September 2009, EPA (DAM). **FERMANAGH: HA 36 -** L. Macnean lower, Belcoo (H085384), 29 June 2000 (Langton, 2002). Toppedmountain L., Tempo, Enniskillen (H310453), 16 August 2011 (PHL). **GALWAY: HA 25 -** L. Derg, Woodford (M794964), 23 May 2003 (PHL)**: HA 29 -** L. Coole, Gort (M432043), 15 June 2009, EPA (DAM). L. Rea, Loughrea (M615154), 14 September 2007, EPA (DAM)**: HA 30 -** L. Ballyquirke, Moycullen (M232317), 14 June, 8 August and 14 September 2007, EPA (DAM). L. Corrib Lower, Moycullen (M271360), 11 June 2007, EPA (DAM). L. Ross, Moycullen (M200363), 25 May 2003 (PHL)**: HA 31 -** L. Anaserd, Ballyconneely (L605443), 17 July 2007, EPA (DAM). L. Ballynahinch, Ballynahinch (L777478), 6 June 2007, EPA (DAM)**: HA 32 -** L. Enask, Beaghcauneen (L662468), 6 June 2007, EPA (DAM). **KERRY: HA 21 -** L. Brin, Derreeny (V780775), 18 June and 13 July 2008, EPA (DAM). L. Cloonaghlin, Waterville (V611708), 24 July 2008, EPA (DAM). L. Currane, Waterville (V535664), 18 June 2008, EPA (DAM)**: HA 22 -** L. Guitane, Crohane, Killarney (W025846), 26 June and 8 July 2008, EPA (DAM). L. Leane, Killarney, Juniper Bay (V949863), 11 June 1973 (Douglas and Murray, 1980) and Muckroos boathouse (V965866), 28 September 1987 (DAM). Muckross Lake, Killarney, Dundag Bay (V964858), June and July 1973 (Douglas and Murray, 1980). Upper Lake, Killarney, Gallavalley, south west shore (V891817), June and July 1973 (Douglas and Murray, 1980)**: HA 23 -** L. Gill, Castlegregory (Q603139), 29 April 2008, EPA (DAM). **LEITRIM: HA 26 -** L. Boderg, Dromod (N020910), 25 June 2008, EPA (DAM). L. Bofin, Rinnafarna, Dromod (N036891), 29 July 2008, EPA (DAM)**: HA 35 -** L. Glenade, Glenade, Manorhamilton, south east shore (G831457), 22 July 2008, EPA (DAM). **LIMERICK: HA 24 -** L. Gur, Holycross (R646269), 28 July 2009, EPA (DAM). **LONGFORD: HA 26 -** L. Forbes, Cloonard, Newtownforbes (N084821), 25 June, 27 August and 10 September 2008, EPA (DAM). **MAYO: HA 26 -** L. Nanoge, Urlaur (M506903), 18 June 2008, EPA (DAM)**: HA 30 -**

L. Carra, Keel Bridge, Ballinrobe (M165680), 28 July 2008, EPA (DAM)**: HA 32 -** L. Fin, Delphi (L841657), 28 June 2006; L. Moher, Liscarney, Westport (L977766), 24 June and 21 July 2008 and L. Knappabeg, Westport (M010803), 23 July 2008, all EPA (DAM)**: HA 34 -** L. Lannagh, Castlebar, west shore (M109883), 21 August 2008, EPA (DAM). L. Washpool, Ballycarra (M219842), 15 August 2008, EPA (DAM)**: Clare Island -** L. Leinapollbauty, Lecarrow (L691856), 5 June 2002 (Murray and Murray, 2003). **MONAGHAN: HA 36 -** L. Avagnon, Latton, Cotehill (H688133), 11 July 2007, EPA (DAM). Summerhill L., Magheraveely (H490280), 28 June 2000 (Langton, 2002). **ROSCOMMON: HA 26 -** L. Annaghmore, Strokestown, Elphin (M902838), 15 July and 2 September 2008, EPA (DAM). L. Glinn, Loughglinn, Castlerea (M629870), 25 August 2008, EPA (DAM). Grange L., Greywood, Strokestown (M938857), 25 June and 28 July 2008, EPA (DAM). L. Key, Boyle, Hogs Island pier (G825054), 9 September 2008, EPA (DAM). **SLIGO: HA 35 -** Templehouse Lake, Ballymote (G619182), 11 June 2008, EPA (DAM). **TIPPERARY: HA 25 -** L. Derg, Dromineer, east shore (M809858), 17 June 2009, EPA (DAM). **WESTMEATH: HA 25 -** L. Owel, Mullingar (N421566), August 1973, NH (Hayes, 1980). L. Ennell, Tudenham (N415466), 14 June 1966 (Murray, 1972) and 19 June 1966 (DAM)**: HA 26 -** L. Derravaragh, Crookedwood (N468634), 30 August 2007, EPA (DAM). L. Killinure, Wineport (N067458) and Ballaghkeernan Bay (N069445), 15 August 2007, EPA (DAM). L. Coosan, Athlone (N055449), 16 August and 11 September 2007, EPA (DAM). **WEXFORD: HA 13 -** L. Ballyteige, Wexford (S936066), 14 July 1998, BH (Murray, 2005).

***Glyptotendipes* (*Glyptotendipes*) *glaucus* (Meigen, 1818)**

ANTRIM: HA 3 - L. Neagh: Lennymore Bay, north shore (J115745), 1966 (Marks and Henderson, 1970); Churchtown Point (J056852), 22 May 2011 (PHL)**: Rathlin Island -** L. Ally (D153494), 5 July 2004 (PHL). **CAVAN: HA 7 -** L. Ramor, Virginia (N603871), May 1971, DJD/DAM (Douglas, 1971). **DERRY: HA 3 -** L. Neagh (H9080), May to September 1971-1974 (Carter, 1975); L. Neagh, Ballyronan (H948862), 4 July 2000 (Langton, 2002) and 22 May 2011 (PHL). **DOWN: HA 5 -** Hillsborough Park Lake, Hillsborough (J246583), 22 May 2000 (Langton, 2002). **FERMANAGH: HA 36 -** L. Erne Upper, Newtownbutler, slipway (H362242) and Crom Castle (H357244), 27 June 2000 (Langton, 2002). L. Inver, Rosslea (H518314), 28 June 2000 (Langton, 2002). L. Killyfole (Mill L.), Rosslea (H464314), 28 June 2000 (Langton, 2002). L. Macnean, upper, Belcoo (H042403) and L. Macnean, lower, Belcoo (H085384), 29 June 2000 (Langton, 2002). L. Nolughage, Crom Castle, Newtownbutler (H364243), 27 June 2000 (Langton, 2002). Toppedmountain L., Tempo, Enniskillen (H310453), 16 August 2011 (PHL). **GALWAY: HA 25 -** L. Derg, Woodford (M794964), 23 May 2003 (PHL). **KERRY: HA 22 -** L. Kilbrean, Killarney (W005935), 9 June 1969, NH (Bracken and Murray, 1973).

***Glyptotendipes* (*Glyptotendipes*) *pallens* (Meigen, 1804)**

ANTRIM: HA 3 - L. Neagh: Antrim Bay (J135866), 22 August 2001 (PHL); Churchtown Point (J056852), 22 August 2001, 22 and 31 May 2011 (PHL)**: HA 4 -** coastal impoundment, Murlough Bay (D198420), 27 March 2003 (PHL). **ARMAGH: HA 3 -** L. Neagh, Oxford Island, Lurgan (J044621), 18 July 2003 (PHL). **CAVAN: HA 7 -** L. Drumkeery, Baileborough (H663002), 1 May, 12 June and 17 September 2007, EPA (DAM). L. Acurry, Baileborough (N584990), 12 June 2007, EPA (DAM). L. Ramor, Virginia (N603871), 27 June 2005, DAM/WM (DAM) and Virginia (N612860), 12 June 2007, EPA (DAM)**: HA 36 -** Glasshouse L., Killashandra (H270060), 7 June and 18 July 2007, EPA (DAM). L. Cuillaghan, Ballyconnell (H303183), 6 June and 25 July 2007, EPA (DAM). L. Garty, Arvagh (N278978), 7 June 2007, EPA (DAM). L. Macnean, lower, Blacklion (H106378), 2 May 2007, EPA (DAM). Mill Lake, Killashandra (H315060), 6 July 2007, EPA (DAM). L. Oughter, Killashandra (H349051), 6 June and 17 July 2007, EPA (DAM). L. Sillan, Shercock (H705067), 8 June 2007, EPA (DAM). **CLARE: HA 25 -** L. Graney, Doorus, west shore (R556930), 8 June, 6 July and 3 August 2006 also 11 August 2009, EPA (DAM)**: HA 27 -** L. Bridget, Derrymore, Badyke, north basin (R563803), 12 June 2009 and east shore (R558797), 29 July 2009, EPA (DAM). L. Dromore, Ruan, Corrofin, mid lake (R352864), 16 June 2009 and west shore (R345858), 21 July 2009, EPA (DAM)**: HA 28 -** L. Doo, Milltown Malbay (R123721), 8 July 2009, EPA (DAM). **CORK: HA 20 -** L. Curraghalicky, Drinagh, Dunmanway (W234046), 12 August 2008, EPA (DAM). L. Skeagh (Schull Reservoir), Schull (V937338), 27 August 2008, EPA (DAM). **DERRY: HA 1 -** pool near Reservoir, Creggan, Derry (C414171), 18 May 2001 (PHL)**: HA 3 -** R. Bann, Coleraine (C854304), 20 May 1999 (PHL). Coleraine (C855308), 20 August 2002 (PHL). Pond 1 (H950873), Pond 2 (H954873) and Pond 3 (H955874), Magherafelt Golf Course, Traad Point, 10 May 2000, all Langton (2002). L. Neagh (H9080) no date (McLarnon and Carter, 2000); L. Neagh, Ballyronan (H948862), 1988, (Tokeshi, 1990) also 4 May 1999 (PHL), 4 July 2000 (Langton, 2002), 22 August 2001, 15 May 2002 and 22 May 2011 (PHL). **DONEGAL: HA 39 -** Inch Island impoundment, Inch (C346240), 18 August 2011 (PHL). **DOWN: HA 5 -** Bow L., Ballynahinch (J354577), 22 June 2000 (Langton, 2002). **DUBLIN: HA 9 -** lakes in Zoological Gardens, Dublin (O130350), 10 July 1987, DAM/RH (Murray *et al*., 1987; Murray, 2005). **FERMANAGH: HA 36 -** L. Erne Upper, Crom Castle, Newtownbutler (H357244), 27 June 2000 (Langton, 2002). L. Inver, Rosslea (H518314), 28 June 2000 (Langton, 2002). L. Kilturk, Newtownbutler, south shore (H374255), 27 June 2000 (Langton, 2002). R. Finn, Lisnanesnagh Bridge (H544337), 26 June 2000 (Langton, 2002). No name stream, Lisnaskea (H384306), 27 June 2000 (Langton, 2002). L. Eyes, Lisbellaw (H324434), 16 August 2011 (PHL). **KERRY: HA 22 -** L. Leane, Killarney, Castlelough Bay, north (V966866), June 1973, DJD/DAM (Douglas and Murray, 1980). **LEITRIM: HA 26 -** L. Acres,

Drumshanbo (G968099), 24 July 2008, EPA (DAM). **LIMERICK: HA 24 -** L. Gur, Holycross (R646269), 16 September 2009, EPA (DAM). **ROSCOMMON: HA 26 -** L. Ree, Yew Point, Barley Harbour (N018485), 13 June 2007, EPA (DAM). **LOUTH: HA 6 -** L. Mentrim, Ardee (N913879), 27 June 2005, DAM/WM (DAM). **MAYO: HA 30 -** L. Aille, Aille, Westport (M071807), 8 August 2008, EPA (DAM)**: HA 32 -** L. Knappabeg, Westport (M010803), 23 July 2008, EPA (DAM)**: HA 34 -** L. Castlebar, Castlebar, north shore (M106879), 7 May 2004, DAM/WM (DAM). L. Lannagh, Castlebar (M105880), 30 June 2008, EPA (DAM)**: Clare Island -** Creggan L., Lecarrow (L689857), 21 August 2002 (Murray and Murray, 2003). **MONAGHAN: HA 36 -** L. Annaghmakerrig, Newbliss (H585205), 22 May 2006, EPA (DAM). L. Avagnon, Latton, Cotehill (H688133), 6 June 2007, EPA (DAM). L. Corconnolly, Clones (H510247), 3 May 1967 (Murray, 1972). L. Drumore, Drum (H614164), 2 May and 18 July 2007, EPA (DAM). L. Inner, Dartery, Drum (H625173), 6 June and 10 July 2007, EPA (DAM). **OFFALY: HA 25 -** R. Shannon, Shannon Bridge (M967254), 15 August 1981 (Hayes, 1991). **ROSCOMMON: HA 26 -** L. Cavetown, Boyle (M832974), 11 June and 17 July 2008, EPA (DAM). L. Glinn, Loughglinn, Castlerea (M629870), 12 June 2008, EPA (DAM). **SLIGO: HA 35 -** L. Arrow, Ballinafad (G789123), 11 June 2008, EPA (DAM). **TYRONE: HA 1 -** L a'Tirrive, Mulderg, Mountfield (H534778), 16 August 2011 (PHL). **WATERFORD: HA 16 -** L. Ballyscanlan (Ballyscanlan Reservoir), Tramore (S540030), 19 August 2009, EPA (DAM). L. Knockaderry, Knockaderry (S496062), 1 July and 2 September 2009, EPA (DAM)**: HA 17 -** Belle Lake, Dunmore East (S665049), 1 September 2009, EPA (DAM). **WESTMEATH: HA 36 -** L. Bane, Collinstown (N550712), 22 August 2006, EPA (EPA).

***Glyptotendipes* (*Glyptotendipes*) *paripes* (Edwards, 1929)**

ANTRIM: HA 3 - L. Neagh: Lennymore Bay, north shore (J115745), 1965 and March 1969, RJM (Marks and Henderson, 1970); Antrim Bay (J135866), 4 May 1999 and 22 August 2001 (PHL); Churchtown Point (J056852), 22 August 2001 and 22 May 2011 (PHL). Pond, Templepatrick (J232856), 26 August 2008 (PHL)**: HA 4 -** Fire Dam, Black Hill (D121297), 2 July 2000 (Langton, 2002)**: Rathlin Island -** L. Ally (D154497), L. Craigmacagan (D154498) and Nature Reserve lough (D095505), 24 July 2000, all Langton (2002); L. Ally (D153494), 5 July 2004 (PHL). **CAVAN: HA 7 -** L. Drumkeery, Baileborough (H663002), 1 May, 12 June and 16 July 2007, EPA (DAM). L. Acurry, Baileborough (N584990), 12 June and 5 July 2007, EPA (DAM). L. Ramor, Virginia (N603871), 27 June 2005, DAM/WM (DAM); L. Ramor, Virginia (N612860), 12 June 2007, EPA (DAM)**: HA 26 -** L. Sheelin, Kilnahard (N435860), June 1983 in trout (*Salmo gardineri*) stomach (DAM)**: HA 36 -** Glasshouse L., Killashandra (H270060), 18 July 2007, EPA (DAM). L. Atrain, Gartbrattan, Cavan (H364051), 4 July 2009, EPA (DAM). L. Cuillaghan, Ballyconnell (H303183), 25 July 2007, EPA (DAM). L.

Derrybrick, Milltown, Belturbet (H346117), 3 September 2007, EPA (DAM). L. Garty, Arvagh (N278978), 18 July 2007, EPA (DAM). L. Gowna, north basin, Arnagahan (N285920), 7 June 2006 and 24 July 2007, EPA (DAM). L. Macnean, lower, Blacklion (H106378), 2 May 2007, EPA (DAM). L. Oughter, Killashandra (H349051), 6 June 2007, EPA (DAM). L. Sillan, Shercock (H705067), 8 June and 19 July 2007, EPA (DAM). **CLARE: HA 25 -** L. Graney, Doorus (R556930), 24 May 2003 (PHL), Doorus, west shore (R556930), 4 May, 8 June and 6 July 2006, EPA (DAM) and Drumandora, west shore (R553938), 15 June 2009, EPA (DAM). L. Derg, Mountshannon, (R718861), 18 September 2009, EPA (DAM)**: HA 27 -** L. Dromore, Ruan, Corrofin, west basin (R345858), 4 May 2006, EPA (DAM) and mid basin (R352864), 16 June 2009, EPA (DAM). L. Inchiquin, Corrofin (R270895), 6 June 2006, EPA (DAM). L. Atedaun, Corrofin (R294885), 16 June 2009, EPA (DAM)**: HA 28 -** L. Acrow, Lissycasey (R193687), 9 May 2005 and 8 June 2006, EPA (DAM). L. Doo, Milltown Malbay, north west shore (R113722), 11 June 2009, EPA (DAM) and mid lake (R123721), 8 July 2009, EPA (DAM). L. Keagh, Milltown Malbay, north shore (R100813), 11 June 2009, south west shore (R100811), 8 July 2009, EPA (DAM). L. Lickeen, Kilfenora, mid lake (R175909), 6 June, 4 July and 2 August 2006 also west shore (R168909), 21 July and 15 September 2009, EPA (DAM). **CORK: HA 19 -** Iniscarra Reservoir, Coachford (W477717), 28 and 31 July 2008, EPA (DAM)**: HA 20 -** L. Curraghalicky, Drinagh, Dunmanway (W234046), 17 June and 12 August 2008, EPA (DAM)**: HA 21 -** L. Bofinna, Bantry (W041488), 18 June and 13 August 2008, EPA (DAM). **DERRY: HA 1 -** Upper Reservoir, Creggan, Derry (C417173), 18 May 2001 (PHL)**: HA 2 -** Binevenagh pond, Coleraine (C691305), 18 May 2000; fire dam 2, Binevenagh Forest, Coleraine (C704314), 18 May 2000; burn at Largantea picnic area, Formoyle, Coleraine (C738287), 9 June 2000, all Langton (2002)**: HA 3 -** Downhill Forest lake, Coleraine (C757353), 21 August 2001 (PHL). Downhill Lake, Bishops Gate, Coleraine (C762361), 18 May and 21 August 2001 (Langton, 2002). Balinrees Reservoir, Coleraine (C794300), 9 June 2000 (Langton, 2002). Bog pool, Glenullin, Garvagh (C795132), 29 June 2008 (PHL). R. Macosquin, Black Bridge, Ballylintagh (C854256), 26 May 2000 (Langton, 2002). R. Bann, Newferry, d/s L. Beg (H990983), 13 October 2000 (Langton, 2002); R. Bann, Coleraine (C854304), 12 April to 1 November 1999, 17 May to 30 July and 8 October 2000 (all PHL). Coleraine (C855308), 13 July 2000 (PHL). Pond 1 (H950873), pond 2 (H954873) and pond 3 (H955874), Magherafelt Golf Course, Traad Point, 10 May 2000, all Langton (2002). L. Neagh (H9080), May to September 1971-1974 (Carter, 1975; McLarnon and Carter, 2000); L. Neagh, Ballyronan (H948862), 27 April and 4 May 1999 (PHL), 10 May and 4 July 2000 (Langton, 2002), also 7 May and 22 August 2001, 15 May 2002 and 22 May 2011 (PHL). L. Fea, Draperstown (H760868), 15 May 2002 (PHL). **DOWN: HA 5 -** L. Henney, Ballynahinch (J348586), 22 June 2000 (Langton, 2002). **FERMANAGH: HA 36 -** L. Atona, Cuilcagh

Mountain (H110294), 29 June 2000 (Langton, 2002). L. Erne Upper, Newtownbutler, slipway (H362242) and Crom Castle (H357244), 27 June 2000 (Langton, 2002). L. Macnean, lower, Belcoo (H085384), 29 June 2000 (Langton, 2002). L. Eyes, Lisbellaw (H324434), 16 August 2011 (PHL). **GALWAY: HA 29 -** L. Coole, Gort (M432043), 15 June 2009, EPA (DAM)**: HA 30 -** L. Beaghcauneen, Ballinaboy (L679470), 6 June, 18 July and 12 September 2007, EPA (DAM). L. Corrib Upper, Oughterard (M138486), 11 June 2007, EPA (DAM)**: HA 31 -** L. Aunwillan, Carraroe (L936255), 7 June and 25 July 2007, EPA (DAM). L. Derryclare, Recess (L825485), 6 June 2007, EPA (DAM)**: HA 32 -** L. Tully, Tully Cross (L695618), 19 July 2007, EPA (DAM). **KERRY: HA 22 -** R. Torc, u/s Torc waterfall, (V964835), 26 August 1987 (DAM). **LEITRIM: HA 26 -** L. Acres, Drumshanbo (G968099), 11 June 2008, EPA (DAM). L. Natire (G966340), 3 August 2005, JRB/MC (DAM)**: HA 35 -** L. Lackagh, Boleybrack (G920320), 3 August 2005, JRB (DAM). L. Sandy, Crocknagapple (G891448), 4 August 2005, JRB/MC (DAM). **MAYO: HA 26 -** L. Nanoge, Urlaur (M506903), 18 June and 27 August 2008, EPA (DAM)**: HA 30 -** L. Aille, Aille, Westport (M071807), 8 August 2008, EPA (DAM). L. Mask, Toormakeady (M113702), 24 June 2008, EPA (DAM)**: HA 32 -** L. Ballin, Westport, south shore (L994878), 22 April 2008, EPA (DAM)**: HA 33 -** L. Carrowmore, Derreens, Bangor Erris (F833299), 28 July 2008, EPA (DAM)**: HA 34 -** L. Conn, Brackwansha (G191098), 18 June 2008, EPA (DAM)**: Clare Island -** first order stream, west side of roadway to Maum (L711861), 5 June 2002 and humic pond, Bunnamohaun (L659846), 21 August 2002, DAM/WM (Murray and Murray, 2003). **MONAGHAN: HA 36 -** L. Annaghmakerrig, Newbliss (H585205), 22 May 2006, EPA (DAM). L. Avagnon, Latton, Cotehill (H688133), 6 June and 11 July 2007, EPA (DAM). L. Drumlona, Rockcorry (H636176), 5 June and 11 July 2007, EPA (DAM). L. Drumore, Drum (H614164), 2 May and 18 July 2007, EPA (DAM). L. Inner, Dartery, Drum (H625173), 6 June and 10 July 2007, EPA (DAM). **OFFALY: HA 25 -** bog lake 1, Turraun (N172185), 3 June 1999 (DAM). **ROSCOMMON: HA 26 -** L. Funshinagh, Brideswell (M933513), 11 September 2007, EPA (DAM). L. Glinn, Loughglinn, Castlerea (M629870), 12 June 2008, EPA (DAM). **TYRONE: HA 1 -** L. Oak, Gortin, Newtownstewart (H498843), 16 August 2011 (PHL)**: HA 3 -** L. Neagh, Washing Bay, Coalisland (H903662), 15 and 30 May 2002 (PHL).

***Glyptotendipes* (*Heynotendipes*) *signatus* (Kieffer, 1909)**

GALWAY: HA 31 - L. Illauntrasna, Glentrasna, Garomna (L888254), 25 July and 12 September 2007, EPA (Murray, 2015b).

***Graceus ambiguus* Goetghebuer, 1928**

CORK: HA 21 - L. Avaul, Glengarrif (V910553), 16 June 1969, NH (Bracken and Murray,

1973). **GALWAY: HA 30 -** L. Corrib (M150450), 12 August 1964, NH (Murray, 1972).

***Harnischia curtilamellata* (Malloch, 1915)**
CAVAN: HA 36 - L. Cuillaghan, Ballyconnell (H303183), 6 June, 25 July and, 13 September 2007, EPA (DAM). L. Gowna, north basin, Arnagahan (N285920), 24 July 2007, EPA (DAM). L. Macnean, lower, Blacklion (H106378), 7 June and 23 July 2007, EPA (DAM). **CLARE: HA 25 -** L. Graney: Drumandora (R553938), 15 June 2009 and Doorus (R557924), 11 August 2009, EPA (DAM). L. Alewnaghta, Whitegate, west shore (R758908), 16 July 2009, EPA (DAM)**: HA 27 -** Castle Lake, Kilmurry, Sixmilebridge, south west shore (R481688), 12 June 2009 and west shore (R482691), 17 September 2009, EPA (DAM). L. Cullaun, Corrofin, east shore (R317905), 16 June 2009, EPA (DAM). **CORK: HA 19 -** Iniscarra Reservoir, Coachford (W477717), 28 July and 16 September 2008, EPA (DAM). L. Allua, Ballingeary (W180652), 17 June and 20 August 2008, EPA (DAM). **DONEGAL: HA 39 -** L. Gartan, north shore, Church Hill (C065173), 18 July 2000 (Langton, 2002). L. Fern, Milford (C182247), 18 August 2011 (PHL)**: HA 40 -** L. Naminn, Coolmany (C400423), 18 August 2011 (PHL). **FERMANAGH: HA 36 -** L. Erne Upper, slipway (H362242), 27 June 2000 (Langton, 2002). L. Macnean, lower, Belcoo (H085384), 29 June 2000 (Langton, 2002). L. Eyes, Lisbellaw (H324434), 16 August 2011 (PHL). **GALWAY: HA 29 -** L. Caherglassaun, Gort (M412061), 13 June 2007, EPA (DAM)**: HA 30 -** L. Ballyquirke, Moycullen (M232317), 13 April and 14 September 2007, EPA (DAM). L. Corrib Upper, Dereenmeel, (M119465), 26 August 1980, BC (DAM). L. Corrib Upper, Oughterard (M138486), 14 September 2007, EPA (DAM). L. Ross, Moycullen (M200363), 25 May 2003 (PHL) and L. Ross, Moycullen (M188365), 14 June and 5 September 2007, EPA (DAM)**: HA 31 -** L. Ardderry, Maam Cross (L982458), 25 March 2003 (PHL). L. Ballynakill, Gorumna (L867236), 15 May 2006, EPA (DAM)**: HA 32 -** L. Kylemore, Letterfrack (L771582), 30 July 2007, EPA (DAM). **LEITRIM: HA 26 -** L. Acres, Drumshanbo (G968099), 11 June 2008, EPA (DAM). L. Boderg: Dromod (N020910), 25 June 2008 and Derrycarne, north west shore (N013915), 10 September 2008, EPA (DAM). L. Bofin, Dromod (N049894), 24 June 2008 and Rinnafarna, Dromod (N036891), 29 July 2008, EPA (DAM).). L. Rinn, Mohill (N095943), 25 June and 18 July 2008, EPA (DAM)**: HA 35 -** L. Belhavel, Killarga, Dromahair (G878288), 10 June and 26 August 2008, EPA (DAM). **LIMERICK: HA 25 -** R. Mulkear, Dromkeen Bridge (R741480), 8 September 1981 (Hayes, 1991). **LONGFORD: HA 26 -** L. Forbes, Cloonard, Newtownforbes (N084821), 25 June and 10 September 2008, EPA (DAM). L. Ree, Bleanavoher (N069445), 25 April 2007, EPA (DAM). **ROSCOMMON: HA 26 -** L. Ree, Yew Point, Barley Harbour (N018485), 13 June and 10 September 2007, EPA (DAM). **MAYO: HA 32 -** L. Knappabeg, Westport (M010803), 24 June and 23 July 2008, EPA (DAM)**: HA 34 -** L. Conn, Brackwansha (G191098), 18 June 2008,

EPA (DAM) and Illannaglashy (G207070), 20 August 2008, EPA (DAM). L. Cullin, Drummon Wood, Pontoon (G235046), 18 June 2008, EPA (DAM). L. Lannagh, Castlebar, west shore (M109883), 21 August 2008, EPA (DAM). R. Moy, Bellanacurra (G403047), 29 August 1982 (Hayes, 1991). **OFFALY: HA 25 -** R. Shannon, Shannon Bridge (M967254), 15 August 1981, BPH (Hayes, 1991; Murray, 2005). **ROSCOMMON: HA 26 -** R. Suck, Castlecoote (M809627), 16 July 1981 (Hayes, 1991). L. Meelagh, Keadew (G901117), 12 July 2008, EPA (DAM). L. Cavetown, Boyle (M832974), 17 July 2008, EPA (DAM). L. Key, Boyle (G838057), 6 August 2008, EPA (DAM), wharf at Forest Park, (G848040), 11 June 2008 and Hogs Island Pier, (G825054), 9 September 2008, EPA (DAM). L. O'Flynn, Ballinlough (M585786), 9 September 2008, EPA (DAM). **SLIGO: HA 26 -** L. Gara, Monastredan (M708996), 5 September 2008, EPA (DAM)**: HA 34 -** L. Talt, Gleneask (G402151), 18 June 2008, EPA (DAM)**: HA 35 -** L. Arrow, Ballinafad (G789123), 11 June 2008, EPA (DAM). L. Kilsallagh (Reservoir), Kilsallagh (G734393), 8 September 2008, EPA (DAM). L. Templehouse, Ballymote (G615171), 30 April 2008 and (G619182), 11 June EPA (DAM). L. Gill, Sligo (G782350), 11 June and 20 August 2008, EPA (DAM). **WESTMEATH: HA 26 -** L. Killinure: Ballaghkeernan Bay (N069445), 24 April 2007, Wineport (N067458) and Ballaghkeernan Bay (N069445), 26 June 2007, all EPA (DAM). **WICKLOW: HA 10 -** Vartry Reservoir, Roundwood, south east shore (O214002), 13 August 1983, HD (DAM).

***Harnischia fuscimanus* Kieffer, 1921**

MEATH: HA 7 - R. Boyne, Pedestrian Bridge, Bru ńa Boinne Centre, Newgrange, Donore (O023727), 28 June 2015 (Murray, 2015b).

***Kiefferulus tendipediformis* (Goetghebuer, 1921)**

ANTRIM: HA 3 - pond, Templepatrick (J232856), 26 August 2008 (PHL). **CLARE: HA 25 -** L. Alewnaghta, Whitegate, west shore (R758908), 16 July 2009, EPA (DAM)**: HA 27 -** L. Inchicronan, Crusheen, west basin (R391860), 9 July 2009, EPA (DAM). L. Rosroe, Newmarket on Fergus, south east shore (R442681), 12 August 2009, EPA (DAM). **CORK: HA 19 -** Carrigdroihid Reservoir, Ashton (W360703), 14 August 2008, EPA (DAM). L. Allua, Ballingeary (W180652), 20 August 2008, EPA (DAM)**: HA 20 -** L. Tooreen, Crookhaven (V790259), 17 September 2008, EPA (DAM). L. Oysterhaven, Clashroe, Kinsale (W699501), 20 August 2002, GO (Murray, 2005). **DERRY: HA 3 -** Downhill Forest lake, Coleraine (C757353), 21 August 2001 (PHL). Pond 3, Magherafelt Golf Course, Traad Point (H955874), 10 May 2000 (Langton, 2002). **FERMANAGH: HA 36 -** Kilturk to Derrymacrow channel, Newtownbutler (H375253), 27 June 2000 (Langton, 2002). **GALWAY: HA 25** - L. Derg, Woodford (M794964), 23 May 2003 (PHL). **MAYO: HA 32 -** L. Anillaun, Cleggan (L615583),

14 July 1998, BH (DAM). L. Furnace, Burrishoole, Newport (L975965), August 1974, DAM/WM (Murray and Ashe, 1983; Murray, 2005).

***Lauterborniella agrayloides* (Kieffer, 1911)**
CORK: HA 19 - L. Aderry, Castlemartyr (W935730), 4 June 1969, NH (Bracken and Murray, 1973). **DERRY: HA 3 -** L. Neagh (H900800), no date (McLarnon and Carter, 2000). **DONEGAL: HA 36 -** L. Unshin, Ballyshannon (G951637), 6 July 2009, EPA (DAM)**: HA 38 -** L. Dunglow, The Rosses, west shore (B782119), 5 August 2009, EPA (DAM). L. Anure, Loughanure, east shore (B818162), 12 August 2009, EPA (DAM). L. Nambraddan, Glenveagh (C022193), 31 July 1985 (Heneghan, 1986). L. Veagh, Glenveagh, north east shore (C038233), 24 July 1985 (Heneghan, 1986). L. Nadourcan, Glenveagh (C054228), 18 July 2000 (Langton, 2002). L. Greenan, Loughsalt, Kilmacrennan (C117262), 8 September 2009, EPA (DAM). L. Kiltoris, Dawros, Ardara (G675976), 30 July 2009, EPA (DAM). L. Voriskey, The Rosses (B762176), 19 July 2000 (Langton, 2002). **GALWAY: HA 30 -** L. Anillaun, Maam Cross (L980470), 1 August 2007, EPA (DAM). L. Beaghcauneen, Ballinaboy (L679470), 18 July 2007, EPA (DAM). L. Maumwee, Maam Cross (L977485), 8 June and 12 July 2007, EPA (DAM)**: HA 31 -** L. Anaserd, Ballyconneely (L605443), 17 July 2007, EPA (DAM). L. Ardderry, Maam Cross (L982458), 1 August 2007, EPA (DAM). L. Aunwillan, Carraroe (L936255), 25 July 2007, EPA (DAM). L. Ballynahinch, Ballynahinch (L777478), 6 June and 23 July 2007, EPA (DAM). L. Derryclare, Recess (L825485), 6 June 2007, EPA (DAM). L. Illauntrasna, Glentrasna, Garomna (L888254), 6 June and 25 July 2007, EPA (DAM). L. Nahasleam, Maam Cross - South (L972440), 8 August 2006 and 1 August 2007, EPA (DAM). L. Shindilla, Derreennacreeva, Maam Cross (L958460), 26 July 2007, EPA (DAM)**: HA 32 -** L. Ballynakill, Cleggan (L639581), 11 July 2007, EPA (DAM). L. Fadda, Beaghcauneen (L668455), 17 July 2007, EPA (DAM). L. Nambrackmore, Ballinaboy, Toombeola (L716454), 27 July 2007, EPA (DAM). L. Pollacappul, Kylemore (L754582), 9 July 2007, EPA (DAM). **KERRY: HA 21 -** L. Brin, Derreeny (V780775), 13 July 2008, EPA (DAM). L. Clonee, Kenmare (V800639), August 1968, NH (DAM). L. Namona, Waterville (V596711), 10 September 2008, EPA (DAM)**: HA 22 -** L. Acoose, Slievanore, Killorglan (V755854), 9 July 2008, EPA (DAM). L. Caragh, Killorglin (V719904), 20 June and 15 July 2008, EPA (DAM). L. Cummernamuck, Killorglin (V745897), 20 June and 18 July 2008, EPA (DAM). Muckross Lake, Killarney (V950853), 16 July 2008, EPA (DAM). Upper lake, Killarney (V909821), 24 June 2008, EPA (DAM). **LEITRIM: HA 35 -** L. Annary, Dromahair (G817338), 10 June 2008, EPA (DAM). **MAYO: Clare Island -** Creggan L., Lecarrow (L689857), 21 August 2002, DAM/WM (Murray and Murray, 2003).

***Microchironomus deribae* (Freeman, 1957)**
DUBLIN: HA 9 - Baldonnell (O005275), 1 September 1979, found in fuel tank of a helicopter (Murray and O'Connor, 1982).

***Microchironomus tener* (Kieffer, 1918)**
CAVAN: HA 36 - L. Macnean, lower, Blacklion (H106378), 23 July 2007, EPA (DAM). L. Oughter, Killashandra (H349051), 17 July 2007, EPA (DAM). **CLARE: HA 25 -** L. Graney, Doorus, west shore (R556930), 6 July and 3 August 2006, EPA (DAM). **CORK: HA 19 -** Iniscarra Reservoir, Coachford (W477717), 16 June, 28 and 31 July 2008, EPA (DAM). L. Allua, Ballingeary (W180652), 16 September 2008, EPA (DAM). **DONEGAL: HA 39 -** L. Gartan, Church Hill (C055159), 9 September 2009, EPA (DAM). **FERMANAGH: HA 36 -** L. Macnean, lower, Belcoo (H085384), 29 June 2000 (Langton, 2002). **GALWAY: HA 30 -** L. Ballyquirke, Moycullen (M232317), 8 August 2007, EPA (DAM). **LEITRIM: HA 26 -** L. Acres, Drumshanbo (G968099), 11 June 2008, EPA (DAM)**: HA 35 -** L. Belhavel, Killarga, Dromahair (G878288), 26 August 2008, EPA (DAM). **MONAGHAN: HA 36 -** L. Annaghmakerrig, Newbliss (H585205), 27 June 2006, EPA (DAM). L. Inner, Dartery, Drum (H625173), 6 June 2007, EPA (DAM). **OFFALY: HA 25 -** R. Shannon, Shannon Bridge (M967254), 15 August 1981 (Hayes, 1991 - as *Microchironomus* Pe1). **ROSCOMMON: HA 26 -** L. Meelagh, Keadew (G901117), 12 July 2008, EPA (DAM). **SLIGO: HA 35 -** L. Gill, Sligo (G782350), 20 August 2008, EPA (DAM). **WESTMEATH: HA 7 -** L. Lene (N510685), 19 September 2006, EPA (DAM).

The first published Irish record was from L. Macnean, Co. Fermanagh by Langton (2002). An earlier record is available from recently re-examined (DAM) specimens collected by BPH on the R. Shannon at Shannon Bridge, Co. Offaly in August 1981 and determined (Hayes 1991) from Langton (1984) as *Microchironomus* Pe1.

***Microtendipes britteni* (Edwards, 1929)**
CAVAN: HA 36 - L. Gowna, Dring, south basin (N300856), 18 April 2007, EPA (DAM). **CLARE: HA 25 -** L. Graney, Doorus, west shore (R556930), 4 May 2006, EPA (DAM)**: HA 25 -** L. Alewnaghta, Whitegate, west shore (R758908), 20 April 2009, EPA (DAM)**: HA 27 -** L. Bunny, Aughrim, south east shore (R377965), 7 June 2006 and 14 July 2009, EPA (DAM). **DERRY: HA 3 -** L. Neagh, Ballyronan (H948862), 27 April and 4 May 1999 (PHL), 10 May 2000 (Langton, 2002).

***Microtendipes chloris* (Meigen, 1818)**
ANTRIM: HA 3 - L. Neagh, Antrim Bay (J135866), 22 August 2001 (PHL) and Churchtown

Point (J056852), 22 August 2001, 22 and 31 May 2011 (PHL)**: HA 4 -** pond, Benvarden Garden (C946334), 15 May 2005 (PHL). **CAVAN: HA 7 -** L. Cuilcagh, Virginia (N636895), 30 April 1968 (Murray, 1972)**: HA 26 -** L. Sheelin, Kilnahard (N435860): 23 March 1974, JPOC (DAM) and 27 March 1983, PG (Murray, 2005)**: HA 36 -** L. Garty, Arvagh (N278978), 7 June 2007, EPA (DAM). **CLARE: HA 27 -** L. Bunny, Aughrim, south east shore (R377965), 5 September 2006, EPA (EPA). L. Cullaun, Corrofin, east shore (R317905), 3 May and 7 June 2006, EPA (LPR/PHL). L. Dromore, Ruan, Corrofin, west basin (R345858), 11 April 2006, EPA (DAM). L. Inchiquin, Corrofin (R270895), 5 April and 4 July 2006, EPA (DAM). L. Muckanagh, Tubber, Corrofin (R368926), 3 April and 2 May 2006, EPA (LPR/PHL). **CORK: HA 19 -** L. Allua, Ballingeary (W180652), 4 April and 20 August 2008, EPA (DAM). L. Gouganebarra, Inchegeelagh (W009060), 18 June 1966 (Murray, 1972). **DERRY: HA 3 -** Howell's Tarn, Ballywildrick, Coleraine (C766325), 22 April 2001, 7 April and 21 April, 7 July 2002; Downhill Forest lake, Coleraine (C757353), 24 March 2002; Downhill Forest lake, Bishops Gate, Coleraine (C762361), 21 August 2001; R. Bann, Coleraine (C854304), 26 April 2001, 25 April and 2 May 2010 (all PHL). Pond 1, Magherafelt Golf Course, Traad Point (H950873), 10 May 2000 (Langton, 2002). L. Neagh (H9080), April to August 1973-1974 (Carter, 1975; McLarnon and Carter, 2000). L. Neagh, Ballyronan (H948862), 1988 (Tokeshi, 1990) also 4 May 1999, 22 August 2001, 15 May 2002 and 22 May 2011 (PHL). **DONEGAL: HA 36 -** L. Avehy, Pettigo (H043664), 27 April 2002 (PHL)**: HA 37 -** Carn L., Blue Stack Mountains (G871886), 10 May 2005, JRB/MC (DAM). L. Shinvagh, Ballintra (H005675), 28 March 2004 (PHL)**: HA 38 -** L. Nabuckan, Grogan More (B850184), 10 May 2005, JRB (DAM)**: HA 39 -** L. Fern, Milford (C182247), 18 August 2011 (PHL)**: HA 40 -** L. Naminn, Coolmany (C400423), 18 August 2011 (PHL). **DOWN: HA 3 -** R. Muddock, Muddock Bridge, Rathfriland (J235342), 12 June 1997, LMcL (PHL). **DUBLIN: HA 9 -** Upper Reservoir, Bohernabreena (O095219), 9 May 1947, CFH/AF (Fitzgerald, 1947). Bog pool, Featherbed (O120190), 1974, CD (Dowling and Murray, 1981). **FERMANAGH: HA 36 -** L. Erne, Lower: Brockagh Point, Boa Island (H108627), 17 August 2011; Black Bay (H072639), 27 April 2002 and 28 March 2004 (PHL). L. Keenaghan, Beleek (G974600), 28 March 2004 (PHL). R. Bannagh, Drummoney Falls, Pettigo (H168676), 17 August 2011 (PHL). Toppedmountain L., Tempo, Enniskillen (H310453), 16 August 2011 (PHL). **GALWAY: HA 29 -** L. Caherglassaun, Gort (M412061), 13 June 2007, EPA (DAM)**: HA 30 -** L. Corrib Lower, Hurney (M258310), 9 April 1980, BC (DAM). L. Maumwee, Maam Cross (L977485), 19 April 2007, EPA (DAM)**: HA 31 -** L. Ahalia, Maam Cross, north east shore (L971402), 22 April 2009, EPA (DAM). L. Aunwillan, Carraroe (L936255), 16 April 2007, EPA (DAM). L. Ballynakill, Gorumna (L867236), 19 September 2006, EPA (DAM). L. Nahasleam, Maam Cross (L972440), 12 September 2006, EPA (DAM)**: HA 32 -** L. Aughrusbeg, Cleggan

(L557582), 11 September 2007, EPA (DAM). L. Tully, Tully Cross (L695618), 3 April 2007, EPA (DAM). L. Nambrackmore, Ballinaboy, Toombeola (L716454), 5 April 2007, EPA (DAM). **KILDARE: HA 9 -** pond, Lyons Estate (N972285), 2 April 1984, CAD (DAM). **KERRY: HA 21 -** Eagles L., Knocknagantee (V674728), 9 August 2005, JRB (DAM). Eirk L., Derrygarriff (V881777), 25 April and 9 August 2005, JRB (DAM)**: HA 22 -** L. Acoose, Slievanore, Killorglin (V755854), 9 July 2008, EPA (DAM). L. Guitane, Crohane, Killarney (W025846), 16 May 2005, EPA (DAM). L. Leane, Killarney: Inishfallen (V933893), 11 June 1973 and Brickeen (V937850), 3 July 1973 (Douglas and Murray, 1980); Muckross Boathouse (V965866), 28 September 1987, NOM (LJH). Upper Lake, Killarney, Gortroe (V918818), May 1973 (Douglas and Murray, 1980)**: HA 23 -** L. Gill, Castlegregory (Q603139), 29 April 2008, EPA (DAM). **LEITRIM: HA 26 -** canal at L. Allen, Drumshanbo (G968110), 30 March 2000 (DAM)**: HA 35 -** L. Nabrack, Crocknagapple (G860477), 29 April 2005, JRB (DAM). L. Sandy, Crocknagapple (G891448), 28 April 2005, JRB/MC (DAM). **MAYO: HA 32 -** L. Doo, Delphi: west shore (L835681), 3 April 2008, EPA (DAM); north east shore (L834689), 6 June and 22 August 2002, DAM/WM (DAM)**: HA 33 -** bog pools, Glenamoy (F896345), 1973, CD (Dowling and Murray, 1981)**: HA 34 -** L. Alone, Ox Mountains (G367157), 22 April 2005, JRB (DAM)**: Clare Island -** Knockaveen hillside (L698858), 28 April 2000; Creggan L., Lecarrow (L689857) and humic pond, Bunnamohaun (L659846), 21 August 2002, all Murray and Murray (2003). **MEATH: HA 7 -** Dalgan Park Stream, Navan (N898637), 23 May 2015 (Murray, 2015a)**: HA 8 -** Meadesbrook stream-pond area, Meadesbrook, Kilmoon (O038594), 24 May 2006, DAM (DAM). **ROSCOMMON: HA 26 -** R. Suck, Castlecoote (M809627), 2 April 1981 (Hayes, 1991). L. Annaghmore, Strokestown, Elphin (M902838), 15 July 2008, EPA (DAM). L. Urlar, north east shore (at Abbey) (M508900), 10 March 2005, DAM/WM (DAM). **TYRONE: HA 1 -** L. Moor, Altishane, Strabane (H446984), 17 August 2011 (PHL). **WESTMEATH: HA 25 -** L. Ennell, Tudenham (N415466), April 1981 (Forde, 1985)**: HA 26 -** L. Ree, Quigleys Marina, Killenure (N051601), 25 March 1999, DAM (DAM). **WEXFORD: HA 12 -** R. Sow tributary, Garylough Mill, Screen (T076302), 6 May 2006, DAM/WM (DAM).

***Microtendipes confinis* (Meigen, 1830)**

ANTRIM: HA 3 - L. Neagh, Antrim Bay (J135866), 22 August 2001 (PHL). **CARLOW: HA 12 -** R. Derreen, Acann Bridge (S900781), 29 July 1981, BPH (DAM). **DERRY: HA 3 -** L. Neagh, Ballyronan (H948862), 1988 (Tokeshi, 1990) and 4 May 1999 (PHL). **KILKENNY: HA 15 -** R. Nore, Norelands Bridge (S547436), 18 August 1982, BPH (DAM). **MAYO: HA 30 -** L. Carra, Keel Bridge, Ballinrobe (M165680), 4 April 1974 (DAM). **ROSCOMMON: HA 26 -** L. Annaghmore, Strokestown, Elphin (M902838), 15 July 2008, EPA (DAM).**WEXFORD: HA 12 -** R. Slaney, Edernline Bridge (S977345), 29 July 1984, BPH (Murray, 2005).

***Microtendipes diffinis* (Edwards, 1929)**
CARLOW: HA 12 - R. Slaney, Motabower Bridge (S832778), 1 July 1981, BPH (DAM). **CAVAN: HA 36 -** L. Garty, Arvagh (N278978), 12 April 2007, EPA (DAM). **DERRY: HA 3 -** R. Bann, Coleraine (C855304), 25 May 2002, PHL (Langton, 2004). At window, Kylebeg, Coleraine (C856304), 6 August 2000, PHL (Langton, 2004). **MAYO: HA 32 -** R. Burleemslough, Clapper Bridge Ford, u/s Roonagh L., Killeen, Cloonlaur (L754759), 5 August 2004, DAM/WM (DAM). R. Bunowen, u/s bridge, Louisburg (L807807), 7 May and 5 August 2004, DAM/WM (DAM)**: Clare Island -** Creggan L., Lecarrow (L689857), 11 June 1998, 7 July and 20 August 1999 (Fahy, 2002). **WICKLOW: HA 10 -** Vartry Reservoir, south east shore, Roundwood (O214002), 13 August 1983, HD (DAM).

***Microtendipes nitidus* (Meigen, 1818)**
FERMANAGH: HA 36 - L. Erne, Lower, Black Bay (H072639), 27 April 2002 (PHL). **GALWAY: HA 30 -** L. Corrib Lower, Hurney (M258310), 19 May 1980, BC (DAM). **MAYO: HA 33 -** bog pools, Glenamoy (F896345), September 1973, CD (Dowling and Murray, 1981).

***Microtendipes pedellus* (De Geer, 1776)**
ANTRIM: HA 3 - L. Neagh: Lennymore Bay (J115745), March 1969 (Marks and Henderson, 1970); Antrim Bay (J135866) and Churchtown Point (J056852), 22 August 2001 (PHL). **ARMAGH: HA 3 -** L. Neagh, Oxford Island, Lurgan (J044621), 18 July 2003 (PHL). **CAVAN: HA 7 -** L. Ramor, Virginia (N603871), May 1971, DJD/DAM (Douglas, 1971). R. Blackwater, L. Ramor outflow (N630833), 30 March 1968 (Murray, 1972): **HA 26 -** L. Sheelin, Gore Point (N439817), 18 May 1982, PG (DAM). **CLARE: HA 25 -** L. Atorick, Feakle (R637964), 24 May 2003, EPA (PHL). **CORK: HA 19 -** L. Aderry, Castlemartyr (W935730), 24 September 1969, NH (Bracken and Murray, 1973)**: HA 20 -** L. Ballin, Leap (W199389), 21 August 2008, EPA (DAM)**: HA 21 -** L. Reenydonegan, Bantry (W000515), 30 June 1969 and L. Avaul, Glengarrif (V910553), 10 August 1969, NH (Bracken and Murray, 1973). **DERRY: HA 3 -** pond, near R. Macquosin, Ballytinagh Road, Coleraine (C854255), 16 May 2004 and 20 August 2006 (PHL). R. Bann, Coleraine (C855304), 11, 18 and 25 April, 2 May 2010 (PHL). Coleraine (C855308), 11 May and 4 December 2000, 17 July 2003 and 4 May 2008 (all PHL). L. Neagh, no data (H9080), May to September 1971-1974 (Carter, 1975; McLarnon and Carter, 2000); L. Neagh, Ballyronan (H948862), 27 April 1999 and 15 May 2002 (PHL). **DONEGAL: HA 37 -** L. Shinvagh, Ballintra (H005675), 27 April 2002 (PHL)**: HA 38 -** L. Nadourcan, GNP, Glenveagh (C054228), 23 July 1985 (Heneghan, 1986)**: HA 39 -** L. Fern, Milford (C182247), 18 August 2011 (PHL). **DUBLIN: HA 9 -** Royal Canal, Ashtown (O108378), 22 May 1968 (Murray, 1972). Lakes in Zoological Gardens, Dublin (O129353), 17 June and 30 July 1987,

MB/DAM (Murray *et al*., 1987). **GALWAY: HA 29 -** Turlough NaNean, Gort, (R430989), 10 May 1986, CAD (DAM): **HA 30 -** L. Corrib, mid lake (M1545), 9 August 1964, NH (Murray, 1972) and at Knockferry (M230410), 8 May 1980, BC (DAM). L. Ross, Moycullen (M200363), 25 May 2003 (PHL). **KERRY: HA 22 -** L. Kilbrean, Killarney (W005935), 11 August 1969, NH (Bracken and Murray, 1973). L. Leane, Killarney: Castlelough Bay (V966866), May to August 1973 (Douglas and Murray, 1980); Inishfallen (V933893), 11 June 1973 (Douglas and Murray, 1980); Muckross Boathouse (V965866), 1 September 1987, NOM (LJH). Muckross Lake, Killarney, Dundag Bay (V964858), May to August 1973 (Douglas and Murray, 1980). R. Caragh, Blackstones Bridge, d/s R. Acoose confluence (V710864) and outflow from L. Caragh (V713924), 1975, CD (Dowling *et al.*, 1981). R. Flesk: White Bridge (V987904), May to August 1973 (Douglas and Murray, 1980). R. Flesk, d/s Whitebridge (V987900), d/s New Bridge (V963885) and u/s L. Leane (V964894), June to August 1978, all Ashe (1982). Upper Lake, Killarney, Gortroe (V918818), May, June and August 1973 (Douglas and Murray, 1980). **LEITRIM: HA 26 -** water barrel, Cloone (H140000), 26 July 1968 (Murray, 1972). **MAYO: HA 30 -** L. Mask, Cushlough Pier, Ballinrobe (M153650), 2 September 1964, NH (Murray, 1972)**: HA 32 -** Louisburg (L807807), 1910, JNH (Grimshaw, 1912). R. Bunowen, u/s bridge, Louisburg (L807807), 5 August 2004, DAM/WM (DAM). Belclare, Westport (L9682), July 1910, JNH and July 1911, PHG (Grimshaw, 1912). Knappagh, Westport (L9880), July 1911, PHG (Grimshaw, 1912). Westport (L990840), July 1910, JNH (Grimshaw, 1912)**: HA 34 -** Castlebar L., Castlebar (M100870), July 1911, PHG (Grimshaw, 1912)**: Clare Island -** Creggan L., Lecarrow (L689857), June to November 1998 and June to September 1999 (Fahy, 2002). L. Poirtin Fuinch (L706857), July to September 1998 and April to August 1999 (Fahy, 2002). **MEATH: HA 7 -** R. Boyne: Bellinter Bridge (N894625), July 1976 (DAM); Ardsallagh, at St Bridget's Well (N897635), April 1984 (DAM); Stackallen Bridge (N917713), Slane Bridge (N965737) and Knowth Weir (N995720), 19 July 1989, all DAM**: HA 8 -** R. Nanny, first road bridge u/s Duleek (O035655), 6 June 2006, DAM/WM (DAM). **OFFALY: HA 25 -** bog lake 1, Turraun (N172185), June 1998 (DAM). **ROSCOMMON: HA 26 -** Briarfield Turlough, Tulsk (M815760), 25 April 1986, CAD (DAM). L. Key, Boyle (G838057), 6 August 2008, EPA (DAM). **WATERFORD: HA 17 -** L. Carrigavantry, Tramore (S548022), 19 August and 1 September 2009, EPA (DAM). **WESTMEATH: HA 25 -** L. Ennell, Tudenham (N415466), 2 May 1966 (Murray, 1972)**: HA 26 -** L. Derravarragh, Crookedwood (N468634), 22 July 1967 (Murray, 1972). **WEXFORD: HA 12 -** R. Slaney, Edernline Bridge (S977345), 29 July 1984, BPH (Murray, 2005).

***Microtendipes rydalensis* (Edwards, 1929)**

CARLOW: HA 12 - R. Slaney, Motabower Bridge (S832778), 28 July 1981 (Hayes, 1991).

CAVAN: HA 36 - R. Erne, Dingin's Bridge (N331948), 27 August 1982 (Hayes, 1991)**: HA 36 -** R. Erne, Kilsarin (N362910), 27 May 1982 (Hayes, 1991). **CLARE: HA 27 -** Castle Lake, Kilmurry, Sixmilebridge (R482691), 17 September 2009, EPA (DAM). **CORK: HA 18 -** R. Blackwater: Ballymacquirk Bridge, Banteer (W382989), Roskeen Bridge, Banteer (W444988) and Lombardstown (W463968), 1 September 1981, all BPH (Hayes, 1991); Duncannon (W180931), Shamrock Bridge, Millstreet (W221935), Charles Bridge, Millstreet (W248943) and Keale Bridge, Millstreet (W294936), all 2 September 1981, all BPH (Hayes, 1991)**: HA 20 -** R. Bandon: Long Bridge, Dunmanway (W242631), 30 June, 25 August and 25 September 1980; Bealabouy Bridge, Dunmanway (W257514), 25 August and 25 September 1980; u/s Ballineen (W331537), 25 August and 25 September 1980; Ballineen Bridge (W434538), 30 June, 25 August, 25 September and 31 October 1980; Castle Bernard, u/s Bandon (W472546), 30 June and 25 August 1980; 2.5km d/s Bandon (W516569), 30 June and 25 September 1980, all GM (Morgan, 1982). R. Ilen, Drimoleague (W098454) and Madore (W103419) also R. Ovane, Pierson's Bridge (W023454), all 24 August 1983 (Hayes, 1991). **DERRY: HA 3 -** R. Bann, Coleraine (C855304), 3 May 1999 (PHL). **DONEGAL: HA 37 -** R. Eany, d/s Eanybeg confluence (G842815); R. Eanymore, Letterbara Bridge (G883825) and Drumagraa Bridge (G863822), all 10 August 1982 (Hayes, 1991). R. Oily, Claggen (G751803), 8 August 1982 (Hayes, 1991). R. Stragar, Duninkeely (G727792), 10 August 1982 (Hayes, 1991)**: HA 38 -** R. Gweedore, outflow from L. Anure, Crolly (B827184), 19 July 2000 (Langton, 2002)**: HA 39 -** R. Leannan, Claragh (C197210), 13 August 1982 (Hayes, 1991). **GALWAY: HA 30 -** R. Grange, Grange Bridge (M428498), 16 August 1981 (Hayes, 1991)**: HA 31 -** L. Ahalia, Maam Cross, north east shore (L971402), 22 April and 23 September 2009, EPA (DAM). R. Owentouey, Tullywee Bridge, Recess (L873474), 18 August 1981 (Hayes, 1991)**: HA 32 -** R. Dawros, Tullywee Bridge, Letterfrack (L730586), 18 August 1981 (Hayes, 1991). **KERRY: HA 21 -** R. Inny, Scarriff Bridge (V504696) and u/s Waterville (V525704), 24 August 1983 (Hayes, 1991)**: HA 22 -** R. Annascaul, Annascaul (Q593017), 2 July 1981 (Hayes, 1991). R. Flesk, White Bridge (V987904), 23 August 1973 (Douglas and Murray, 1980) and d/s Whitebridge (V987900), 27 July 1976 (Ashe, 1982) also 25 September 1976, PJA (Murray, 2005). **KILKENNY: HA 15 -** R. Nore, Norelands Bridge (S547436), 28 August 1981 (Hayes, 1991). **LIMERICK: HA 25 -** R. Mulkear, Cappamore (R775514) and d/s Cappamore (R779504), 8 September 1981 (Hayes, 1991). **MAYO: HA 32 -** R. Burleemslough, Clapper Bridge Ford, Killeen, Cloonlaur (L754759), 5 August 2004, DAM/WM (DAM)**: HA 33 -** R. Glenlassra, Belderg (G023407), 19 August 1983 (Hayes, 1991). **ROSCOMMON: HA 26 -** R. Suck, Castlecoote (M809627), 16 July 1981 (Hayes, 1991). **SLIGO: HA 34 -** R. Moy, Cloonacool (G493168) and Annagh (G466123), 30 August 1982 (Hayes, 1991). **TYRONE: HA 3 -** R. Ballinderry, Ballinderry Bridge (H928798), 10 May 2000 (Langton, 2002).

***Microtendipes tarsalis* (Walker, 1856)**
KERRY: HA 22 - L. Kilbrean, Killarney (W005935), 16 June 1969, NH (Bracken and Murray, 1973). L. Leane, Killarney, Castlelough Bay (V966866), 30 July 1973 (Douglas and Murray, 1980). **LEITRIM: HA 26 -** L. Acres, Drumshanbo (G968099), 11 June 2008, EPA (DAM). **MAYO: HA 32 -** R. Altahoney, Newport (F950050), 1968-1971, EF (Fahy and Murray, 1972). **MEATH: HA 7 -** R. Boyne, Bellinter Bridge (N894625), 21 May 1968 (Murray, 1972).

***Nilothauma brayi* (Goetghebuer, 1921)**
DERRY: HA 3 - R. Bann, Mountsandel, Coleraine (C852305), 24 June 1999 (PHL). R. Bann, Coleraine (C855304), 30 June 2001 (PHL). **DONEGAL: HA 39 -** L. Gartan, Church Hill (C065173), 18 July 2000 (Langton, 2002). **GALWAY: HA 31 -** L. Shindilla, Derreennacreeva, Maam Cross (L958460), 13 September 2007, EPA (DAM). **KERRY: HA 22 -** L. Leane, Killarney: Castlelough Bay (V966866), 14 July 1973, DJD/DAM (Murray, 2005); Ross Bay (V945850), 14 July 1973 (Douglas and Murray, 1980). **MAYO: HA 32 -** R. Altahoney, Newport (F950050), 1968-1971, EF (Fahy and Murray, 1972).

***Nubensia nubens* (Edwards, 1929)**
= *Polypedilum* (*Pentapedilum*) *nubens* (Edwards, 1929), Spies and Dettinger-Klemm (2015). **CAVAN: HA 36 -** L. Macnean, lower, Blacklion (H106378), 7 June 2007, EPA (DAM). **CLARE: HA 27 -** L. Bridget, Derrymore, Badyke, east shore (R558797), 29 July 2009, EPA (DAM). L. Cullaun, Corrofin, mid east shore (R317905), 7 June 2006 (EPA) and 16 June 2009, EPA (DAM). L. Dromore, Ruan, Corrofin, west basin (R345858), 21 July 2009, EPA (DAM). L. Inchicronan, west basin, Crusheen (R391860), 9 July 2009, EPA (DAM)**: HA 28 -** L. Lickeen, Kilfenora (R175909), 6 June 2006, EPA (DAM). **CORK: HA 19 -** L. Aderry, Castlemartyr (W935730), 21 May 1969, NH (Bracken and Murray, 1973)**: HA 20 -** L. Curraghalicky, Drinagh, Dunmanway (W234046), 12 August 2008, EPA (DAM)**: HA 21 -** L. Avaul, Glengarrif (V910553), 1 September 1969 and L. Reenydonegan, Bantry (W000515), 26 May 1969, NH (Bracken and Murray, 1973). **DONEGAL: HA 38 -** L. Keel, Kilmacrennan (C158243), 16 June 2009, EPA (DAM). **FERMANAGH: HA 36 -** L. Erne, Lower: Boa Island (H108626), 29 June 2000 (Langton, 2002); Black Bay (H072639), 27 April 2002 (PHL); Brockagh Point, Boa Island (H108627), 17 August 2011 (PHL). L. Lattone, Kiltyclogher (H003456), 29 June 2000 (Langton, 2002). L. Macnean, upper, Belcoo (H042403) and L. Macnean, lower, Belcoo (H085384), 29 June 2000 (Langton, 2002). **GALWAY: HA 29 -** L. Cutra, Gort (R485986), 24 May 2003, EPA (PHL)**: HA 30 -** L. Ballyquirke, Moycullen (M232317), 14 September 2007, EPA (DAM). L. Corrib Upper, Oughterard (M138486), 11 June and 14 August 2007, EPA (DAM)**: HA 31 -** L. Ballynahinch, Ballynahinch (L777478), 23

July 2007, EPA (DAM). L. Derryclare, Recess (L825485), 16 July 2007, EPA (DAM). **KERRY: HA 21 -** L. Cloonaghlin, Waterville (V611708), 24 July 2008, EPA (DAM). L. Inchiquin, Kenmare (V837629), 18 June 2008, EPA (DAM)**: HA 22 -** L. Acoose, Slievanore, Killorglan (V755854), 9 September 2008, EPA (DAM). L. Guitane, Crohane, Killarney (W025846), 9 September 2008, EPA (DAM). L. Kilbrean, Killarney (W005935), 9 June 1969, NH (Bracken and Murray, 1973). L. Leane: Killarney, Muckross Boathouse (V965866), 1 September 1987, NOM (LJH): Killarney (V931886), 10 July and 18 September 2008, EPA (DAM). Muckross Lake, Killarney: Dundag Bay (V964858), June and July 1973; Goleen Bay (V963853), 23 July 1973 (Douglas and Murray, 1980; Murray, 2005); mid lake (V950853), 16 July and 18 September 2008, EPA (DAM). Upper Lake, Killarney (V909821), 17 July 2008, EPA (DAM). **LEITRIM: HA 26 -** L. Boderg, Derrycarne, north west shore (N013915), 14 May and 10 September 2008 also L. Boderg, Dromod (N020910), 25 June 2008, EPA (DAM). L. Bofin, Dromod (N049894), 24 June and 10 September 2008, EPA (DAM). **LONGFORD: HA 26 -** L. Forbes, Cloonard, Newtownforbes (N084821), 25 June and 10 September 2008, EPA (DAM). **MAYO: HA 26 -** L. Nanoge, Urlaur (M506903), 18 June 2008, EPA (DAM)**: HA 30 -** L. Mask, Toormakeady (M113702), 24 June 2008, EPA (DAM)**: HA 32 -** L. Doo, Delphi, west shore (L835681), 12 July 2006, EPA (DAM). L. Fin, Delphi (L841657), 12 July 2006, EPA (DAM). L. Feeagh, Newport (L975983), 24 July and 17 September 2008, EPA (DAM). L. Moher, Liscarney, Westport (L977766), 24 June 2008, EPA (DAM)**: HA 34 -** L. Conn, Brackwansha (G191098), 18 June 2008, EPA (DAM). L. Lannagh, Castlebar, west shore (M109883), 21 August 2008, EPA (DAM). L. Levally, Massbrook (G146043), 25 June 2008, EPA (DAM). **ROSCOMMON: HA 26 -** L. Annaghmore, Strokestown, Elphin (M902838), 2 September 2008, EPA (DAM). **SLIGO: HA 35 -** L. Arrow, Ballinafad (G789123), 30 July 2008, EPA (DAM). L. Gill, Sligo (G782350), 20 August 2008, EPA (DAM). Benbulbin (G680460), June 1931, Bailey, - slide mounted specimens in NMI (DAM). **WESTMEATH: HA 26 -** L. Killinure, Wineport (N067458), 15 August and 11 September 2007, EPA (DAM).

***Omisus caledonicus* (Edwards, 1932)**

CORK: HA - L. Avaul, Glengarriff (V910553), 27 July 1968 (Murray, 1972 - sub *Microtendipes caledonicus*). **WICKLOW: HA 10 -** R. Glenealo, Glendalough (T090962), 16 July 1996, EME/DAM (McEntee, 1997).

***Pagastiella orophila* (Edwards, 1929)**

ANTRIM: HA 4 - Dungonnell Dam, Newtown Crommelin (D193170), 20 June 2000 and R. Glenariff (Inver/Glenariff), Cushendall (D215205), 2 July 2000 (Langton, 2002). **CLARE: HA 27 -** L. Bunny, Aughrim, south east shore (R377965), 7 June 2006, EPA (EPA) and 14 July

2009, EPA (DAM). L. Cullaun, Corrofin, east shore (R317905), 7 June, 4 July, 1 August and 5 September 2006, EPA (LPR/PHL) also 16 June 2009, EPA (DAM). L. Dromore, Ruan, Corrofin (R352864), 16 June 2009, EPA (DAM). L. Gortglass, Killadysert, north shore (R223599), 11 June 2009 and south shore (R223596), 7 July 2009, EPA (DAM). L. Muckanagh, Tubber, Corrofin (R368926), 7 June, 3 July, 2 August and 5 September 2006, EPA (LPR/PHL)**: HA 28 -** L. Acrow, Lisscasey (R193687), 7 July 2006, EPA (DAM). L. Lickeen, Kilfenora, west shore (R163909), 11 June 2009, EPA (DAM). L. Naminna, Boolteagh (R179708), 11 June 2009, EPA (DAM). **CORK: HA 20 -** L. Skeagh (Schull Reservoir), Schull (V937338), 27 August 2008, EPA (DAM)**: HA 21 -** L. Bofinna, Bantry (W041488), 18 June 2008, EPA (DAM). **DONEGAL: HA 1 -** L. Finn, Fintown, Glenties (B911018), 9 June 2009, EPA (DAM). L. Derg, Pettigo (H074743), 8 June 2009, EPA (DAM)**: HA 36 -** L. Golagh, Ballyshannon (G965655), 7 July 2009, EPA (DAM). L. Unshin, Ballyshannon (G951637), 8 June and 6 July 2009, EPA (DAM)**: HA 38 -** L. Mulladerg, The Rosses (B775199) and L. Dunglow, The Rosses, east shore (B787117), 19 July 2000 (Langton, 2002) also L. Dunglow, west shore, (B782119), 17 June 2009, EPA (DAM). L. Anure, Loughanure, east shore (B818162), 17 June 2009, EPA (DAM). R. Gweedore, outflow from L. Anure, Crolly (B827184), 19 July 2000 (Langton, 2002). L. Keel, Crolly (B848162), 17 June 2009, EPA (DAM). L. Nasnahida, Doocharry, Dunglow (B852076), 17 June 2009, EPA (DAM). L. Nacung Upper, Dunlewy (B904191) and L. Dunlewy, Dunlewy (B926193), 19 July 2000 (Langton, 2002). L. An tSeisigh, Portnablagh, Sheephaven (C043361), 16 June 2009, EPA (DAM). L. Glen, Glen (C105292), 16 June and 29 July 2009, EPA (DAM). L. Greenan, Loughsalt, Kilmacrennan (C117262), 16 June and 8 September 2009, EPA (DAM). L. Reelan, Reelan (C131272), 6 June 2009, EPA (DAM). L. Kindrum, Kindrum, Fanad (C186430), 16 June 2009, EPA (DAM). L. Kinny, Fanad (C204442), 6 June 2009, EPA (DAM). L. Shannagh, Magheradrumman, Fanad Penninsula (C216450), 16 June and 21 July 2009, EPA (DAM)**: HA 39 -** L. Gartan, Church Hill (C055159), 10 June 2009, EPA (DAM). L. Akibbon, Church Hill (C068184), 23 April 2009, EPA (DAM). L. Fern, Millford (C180233), 16 June 2009, EPA (DAM). **FERMANAGH: HA 36 -** L. Lattone, Kiltyclogher (H003456), 29 June 2000 (Langton, 2002). **GALWAY: HA 29 -** L. Rea, Loughrea (M615154), 14 June 2007, EPA (DAM)**: HA 30 -** L. Anillaun, Maam Cross (L980470), 8 June 2007, EPA (DAM). L. Beaghcauneen, Ballinaboy (L679470), 18 July 2007, EPA (DAM). L. Corrib Upper, Oughterard (M138486), 14 September 2007, EPA (DAM). L. Lettercraffroe, Oughterard (M056376), 14 June and 5 September 2007, EPA (DAM). L. Maumwee, Maam Cross (L977485), 12 July and 17 September 2007, EPA (DAM). L. Ross, Moycullen (M200363), 25 May 2003 (PHL)**: HA 31 -** L. Ardderry, Maam Cross (L982458), 1 August 2007, EPA (DAM). L. Ballynahinch, Ballynahinch (L777478), 6 June and 23 July 2007, EPA (DAM). L. Ballynakill, Gorumna

(L867236), 15 May and 20 June 2006, EPA (DAM). L. Derryclare, Recess (L825485), 6 June 2007, EPA (DAM). L. Illauntrasna, Glentrasna, Garomna (L888254), 25 July 2007, EPA (DAM). L. Loughanaure, Kilkieran (L828320), 7 June 2007, EPA (DAM). L. Nahasleam, Maam Cross (L972440), 7 June and 1 August 2007, EPA (DAM). L. Shindilla, Derreennacreeva, Maam Cross (L958460), 7 June and 26 July 2007, EPA (DAM)**: HA 32 -** L. Aughrusbeg, Cleggan (L557582), 5 June 2007, EPA (DAM). L. Enask, Beaghcauneen (L662468), 6 June and 17 July 2007, EPA (DAM). L. Nambrackmore, Ballinaboy, Toombeola (L716454), 6 June 2007, EPA (DAM). L. Pollacappul, Kylemore (L754582), 5 June 2007, EPA (DAM). **KERRY: HA 21 -** L. Brin, Derreeny (V780775), 18 June 2008, EPA (DAM). L. Cloonaghlin, Waterville (V611708), 19 June 2008, EPA (DAM). L. Currane, Waterville (V535664), 22 July 2008, EPA (DAM). L. Inchiquin, Kenmare (V837629), 18 June 2008, EPA (DAM). L. Namona, Waterville (V596711), 19 June and 23 July 2008, EPA (DAM)**: HA 22 -** L. Caragh, Killorglin (V719904), 20 June 2008, EPA (DAM). L. Guitane, Crohane, Killarney (W025846), 8 July 2008, EPA (DAM). L. Leane, Killarney (V931886), 10 July and 18 September 2008, EPA (DAM). Muckross Lake, Killarney, Dundag Bay (V964858) and Camilan Bay (V943859) 23 July 1973 (Douglas and Murray, 1980); Muckross Lake, Killarney (V950853), 16 July 2008, EPA (DAM). R. Loo, Aughnanus Bridge, Crohane (W045790), July 1978 (Ashe, 1982). Upper Lake, Killarney (V909821), 24 June 2008, EPA (DAM)**: HA 23 -** L. Cam, Castlegregory (Q597079), 25 June 2008, EPA (DAM). **LEITRIM: HA 26** - L. Bofin, Dromod (N049894), 24 June 2008, EPA (DAM)**: HA 35 -** L. Annary, Dromahair (G817338), 23 July 2008, EPA (DAM). L. Glenade, Manorhamilton, south east shore (G831457), 10 June 2008, EPA (DAM). L. Glencar, Glencar (G757435), 10 June 2008, EPA (DAM). **LIMERICK: HA 24 -** Bleach Lough, Pallaskenry (R441569), 13 June 2009, EPA (DAM). **MAYO: HA 30 -** L. Carra, Keel Bridge, Ballinrobe (M165680), 19 June 2008, EPA (DAM). L. Glencullin, Delphi, north west shore (L815699), 26 June 2008, EPA (DAM). L. Fin, Delphi (L841657), 28 June 2006, EPA (DAM)**: HA 33 -** L. Keel, Keel, Achill Island, south east shore (F650051), 17 June 2008, EPA (DAM). L. Carrowmore, Derreens, Bangor Erris (F833299), 28 July 2008, EPA (DAM)**: HA 34 -** L. More, Ballynagoraher (G115044), 29 June 2006, EPA (DAM)**: Clare Island -** L. Leinapollbauty, Lecarrow (L691856), 5 June 2002 (Murray and Murray, 2003). **ROSCOMMON: HA 26 -** L. Meelagh, Keadew (G901117), 11 June 2008, EPA (DAM). L. Annaghmore, Strokestown, Elphin (M902838), 12 June 2008, EPA/GF (DAM). L. Key, Boyle, wharf in Forest Park (G848040), 11 June 2008, EPA (DAM). **SLIGO: HA 34 -** L. Talt, Gleneask (G402151), 15 July 2008, EPA (DAM)**: HA 35 -** L. Arrow, Ballinafad (G789123), 11 June 2008, EPA (DAM). L. Easky, Ox Mountain (G446230), 18 June and 25 September 2008, EPA (DAM). **TIPPERARY: HA 18 -** Black L., Arra Mountains (R738771), 10 August 2005, JRB (DAM). **WESTMEATH: HA 25 -** L. Owel, Mullingar (N421566), May 1973, NH (Hayes,

1980) also 24 July 1973, BPH (Murray, 2005)**: HA 26 -** L. Killinure, Wineport (N067458) and L. Coosan, Athlone (N055449), 26 June 2007, EPA (DAM).

***Parachironomus cinctellus* (Goetghebuer, 1921)**

[Including some records of pupal exuviae determined as *Parachironomus vitiosus* from Langton and Viser (2003). Spies and Bolton (2013) drew attention to the mis-association between the adult male and pupal exuviae of *P. cinctellus* in Langton and Visser (2003) and have shown that pupal exuviae recognized as *P. vitiosus* in Langton (1984, 1991) and Langton and Visser (2003) are *P. cinctellus*. See also comments on records of *Parachironomus vitiosus*.]

ANTRIM: HA 4 - Dungonnell Dam, Newtown Crommelin (D193170), 20 June 2000 (Langton, 2002). **CAVAN: HA 36 -** L. Sillan, Shercock (H705067), 19 July 2007, EPA (DAM). **CLARE: HA 25 -** L. Derg, d/s Killaloe (M705715), 18 September 2009, EPA (DAM)**: HA 27 -** L. Dromore, Ruan, Corrofin, west basin (R345858), 5 June 2006, EPA (DAM). L. Muckanagh, Tubber, Corrofin, south east shore (R370922), 11 June 2009, EPA (DAM)**: HA 28 -** L. Naminna, Boolteagh (R179708), 11 June 2009, EPA (DAM)**: HA 29 -** L. Skeardeen, Kilcorkan (R388991), 7 April and 17 June 2009, EPA (DAM). **CORK: HA 19 -** Iniscarra Reservoir, Coachford (W477717), 28 and 31 July 2008, EPA (DAM). **DERRY: HA 3 -** R. Bann, Coleraine (C855304), 18 June and 22 September 1999 (PHL). L. Neagh, Ballyronan (H948862), 4 July 2000 (Langton, 2002). **DONEGAL: HA 38 -** L. Keel, Crolly (B848162), 13 August and 7 September 2009, EPA (DAM). L. Kindrum, Kindrum, Fanad (C186430), 16 June 2009, EPA (DAM). **GALWAY: HA 29 -** L. Caherglassaun, Gort (M412061), 7 August 2007, EPA (DAM)**: HA 30 -** L. Ballyquirke, Moycullen (M232317), 14 June 2007, EPA (DAM). L. Corrib, Lower, Moycullen (M271360), 11 June 2007, EPA (DAM)**: HA 31 -** L. Aunwillan, Carraroe (L936255), 25 July 2007, EPA (DAM). L. Ballynahinch, Ballynahinch (L777478), 6 June 2007, EPA (DAM)**: HA 32 -** L. Ballynakill, Cleggan (L639581), 5 June 2007, EPA (DAM). **LEITRIM: HA 35 -** L. Glencar, Glencar (G757435), 10 June 2008, EPA (DAM). **MAYO: HA 32 -** L. Moher, Liscarney, Westport (L977766), 18 September 2008, EPA (DAM)**: HA 34 -** L. Washpool, Ballycarra (M219842), 19 June 2008, EPA (DAM). **Clare Island -** Creggan L., Lecarrow (L689857), 21 August 2002, DAM/WM (DAM). **ROSCOMMON: HA 26 -** L. O'Flynn, Ballinlough (M585786), 12 June 2008, EPA (DAM). **SLIGO: HA 34 -** L. Talt, Gleneask (G402151), 24 September 2008, EPA (DAM)**: HA 35 -** L. Templehouse, Ballymote (G619182), 11 June and 9 September 2008, EPA (DAM). **TIPPERARY: HA 16 -** R. Drish, Castletown (S217635), 22 May 1992 (Murray and Lynch, 1992).

Langton (2002) provided the first published record from Co. Antrim in collections from June 2000. An unpublished record from 1992 is documented here from specimens collected in the R. Drish, Co. Tipperary.

***Parachironomus danicus* Lehmann, 1970** **New to Ireland**

DUBLIN: HA 9 - R. Dodder, Clonskeagh Bridge (O174306), June 1950, CFH (DAM).

Two slide-mounted, unidentified, pharate specimens (one male and one female) were recently discovered (DAM) in the C. F. Humphries collection labelled by CFH as "Chironomaria - hatched". On examination (DAM/PJA) the presence of long sinuous setae on the gonocoxite of the pharate adult male, clearly visible through the transparent pupal exuviae, confirmed identification as *Parachironomus danicus* from Lehmann (1970, p. 139, Fig. 6) and Langton and Pinder (2007).

***Parachironomus digitalis* (Edwards, 1929)**

DERRY: HA 3 - water butt, Kylebeg, Coleraine (C856304), 20 August 2002 (Langton, 2004) and Coleraine (C855308), 20 August 2002 (PHL).

***Parachironomus frequens* (Johannsen, 1905)**

CAVAN: HA 7 - L. Ramor, Virginia (N612860), 24 July 2007, EPA (DAM). **CORK: HA 20 -** L. Curraghalicky, Drinagh, Dunmanway (W234046), 17 June 2008, EPA (DAM). L. Skeagh (Schull Reservoir), Schull (V937338), 27 August 2008, EPA (DAM). **DERRY: HA 3 -** R. Bann, Mountsandel, Coleraine (C852305): 20 June, 20, 30-31 May, 10, 18 and 23 June, 3 July, 26 August, 22 September 1999, 17, 25 and 31 May, 7, 13 and 24 June 2000; R. Bann, Coleraine (C855304), 16 and 30 June 2001, 22 September 2002, all PHL. L. Neagh (H9080), no date (McLarnon and Carter, 2000). **DONEGAL: HA 39 -** L. Fern, Milford (C182247), 2 June 2000 (Langton, 2002). **FERMANAGH: HA 36 -** L. Erne Upper, Crom, (H362242), 27 June 2000 (Langton, 2002). **GALWAY: HA 29 -** L. Caherglassaun, Gort (M412061), 7 August 2007, EPA (DAM)**: HA 30 -** L. Ballyquirke, Moycullen (M232317), 14 June 2007, EPA (DAM). **KERRY: HA 22 -** L. Leane, Killarney, Castlelough Bay, east shore (V975873), July 1973 and north shore (V966866), 17 August 1973 (Douglas and Murray, 1980; Murray, 2005). **LEITRIM: HA 26 -** L. Rinn, Mohill (N095943), 25 June 2008, EPA (DAM). **MAYO: HA 32 -** L. Doo, Delphi, north east shore (L834686), 22 September 2008, EPA (DAM)**: HA 33 -** L. Keel, Achill Island, south east shore (F650051), 17 June 2008 and south west shore (F641055), 17 September 2008, EPA (DAM). R. Owenmore, Bangor Erris (F863228), 18 August 1983 (Hayes, 1991)**: HA 34 -** L. Conn, Brackwansha (G191098), 18 June 2008, EPA (DAM). R. Moy, Cloongullaun (G348016), 30 August 1982 (Hayes, 1991). **ROSCOMMON: HA 26 -** R. Suck, Castlecoote (M809627), 16 July 1981 (Hayes, 1991) and 18 August 1983 (Hayes and Murray, 1989).

***Parachironomus gracilor* (Kieffer, 1918)**
Synonym *Parachironomus arcuatus* (Goetghebuer, 1919)
ANTRIM: HA 3 - L. Neagh: Antrim Bay (J135866) and Churchtown Point (J056852), 22 August 2001, 22 May 2011 (PHL). Pond, Templepatrick (J232856), 26 August 2008 (PHL). **ARMAGH: HA 3 -** L. Neagh, Oxford Island, Lurgan (J044621), 18 July 2003 (PHL). **CAVAN: HA 7 -** L. Mullagh, Mullagh (N680856), 23 May 1968 (Murray, 1972)**: HA 36 -** L. Garty, Arvagh (N278978), 7 June and 18 July 2007, EPA (DAM). L. Gowna, north basin, Arnagahan (N285920), 7 June 2006, EPA (DAM). **CLARE: HA 25 -** L. Graney, Doorus, west shore (R556930), 4 May 2006 and 11 August 2009, EPA (DAM). L. Alewnaghta, Whitegate, west shore (R758908), 20 April, 17 June and 16 July 2009, EPA (DAM). L. Atorick, Feakle (R637964), 24 May 2003, EPA (PHL)**: HA 27 -** L. Gortglass, Killadysert, north shore (R223599), 11 June 2009, EPA (DAM) and south shore (R223596), 7 July 2009, EPA (DAM). L. Inchiquin, Corrofin, west shore (R266896), 15 July 2009, EPA (DAM). L. Rosroe, Newmarket on Fergus, south east shore (R442681), 12 August 2009 and north east shore (R449697), 16 September 2009, EPA (DAM). L. Atedaun, Corrofin (R294885), 16 June 2009, EPA (DAM)**: HA 28 -** L. Keagh, Milltown Malbay, north shore (R100813), 11 June 2009, EPA (DAM). L. Lickeen, Kilfenora, mid lake (R175909), 6 June 2006 and west shore (R164908), 15 September 2009, EPA (DAM). L. Naminna, north west shore, Boolteagh (R178710), 7 July 2009, EPA (DAM). **CORK: HA 18 -** R. Blackwater, Duncannon (W180931), 2 September 1981 (Hayes, 1991)**: HA 19 -** L. Allua, Ballingeary (W180652), 20 August 2008, EPA (DAM); Iniscarra Reservoir, Coachford (W477717), 28 and 31 July also 16 September 2008, EPA (DAM)**: HA 20 -** L. Abisdealy, Skibbereen (W136314), 17 June and 30 July 2008, EPA (DAM). L. Ballin, Leap (W199389), 17 June and 21 August 2008, EPA (DAM). L. Curraghalicky, Drinagh, Dunmanway (W234046), 17 June and 12 August 2008, EPA (DAM). L. Skeagh (Schull Reservoir), Schull (V937338), 17 September 2008, EPA (DAM)**: HA 21 -** L. Bofinna, Bantry (W041488), 18 June 2008, EPA (DAM). **DERRY: HA 1 -** Lower Reservoir, Creggan, Derry (C422174), 10 May 2001 (PHL)**: HA 3 -** Downhill Lake, Bishops Gate, Coleraine (C762361), 18 May 2000 (Langton, 2002). R. Bann, Mountsandel, Coleraine (C852305), 24 June, 20 May, 10, 18 and 23 June 1999, 3, 25 and 31 May, 7 and 13 June, 16 July 2000 (PHL). Coleraine (C855308), 6 and 20 August 2002 (PHL). L. Neagh (H9080), no data (McLarnon and Carter, 2000); L. Neagh: Ballyronan (H948862), 4 July 2000 (Langton, 2002) and 7 May 2001 (PHL). **DONEGAL: HA 1 -** L. Finn, Fintown, Glenties (B911018), 9 June 2009, EPA (DAM)**: HA 38 -** L. Anure, Loughanure, east shore (B818162), 17 June 2009, EPA (DAM). R. Owencarrow, Bridge House, Glenveagh (C041229), 3 June 1986 (Heneghan, 1986). L. Kindrum, Kindrum, Fanad (C186430), 22 July and 9 September 2009, EPA (DAM). L. Veagh, north east shore, sweep over vegetation, Glenveagh (C038236), 24 July 1985, POD

(DAM). L. Kinny, Fanad (C204442), 9 September 2009, EPA (DAM). L. Shannagh, Magheradrumman, Fanad Penninsula (C216450), 21 July 2009, EPA (DAM). L. Akibbon, Church Hill (C068184), 9 September 2009, EPA (DAM)**: HA 40 -** L. Naminn, Coolmany (C400423), 18 August 2011 (PHL). **DUBLIN: HA 9 -** lake 1 (O129353), Zoological Gardens, Dublin, 15 May 1987, MB/DAM (DAM) and lake 2 (O130350), 17 July 1987, DAM/RH (Murray *et al*., 1987; Murray, 2005). **FERMANAGH: HA 36 -** Dummys L., Magheraveely (H488276) and L. Inver, Rosslea (H518314), 28 June 2000 (Langton, 2002). L. Macnean, lower, Belcoo (H085384), 29 June 2000 (Langton, 2002). **GALWAY: HA 29 -** L. Caherglassaun, Gort (M412061), 7 August 2007, EPA (DAM). L. Rea, Loughrea (M615154), 25 May 2003, PHL (Langton/NMI Pe)**: HA 30 -** L. Anillaun, Maam Cross (L980470), 5 September 2007, EPA (DAM). L. Beaghcauneen, Ballinaboy (L679470), 18 July 2007, EPA (DAM). L. Corrib Upper, Oughterard (M138486), 14 August 2007, EPA (DAM); L. Corrib, Lower, Moycullen (M271360), 28 August 2007, EPA (DAM); L. Corrib, Knockferry (M230410), 28 April 1980, BC (DAM). L. Lettercraffroe, Oughterard (M056376), 14 June 2007, EPA (DAM). L. Maumwee, Maam Cross (L977485), 19 April 2007, EPA (DAM)**: HA 31 -** L. Ahalia, Maam Cross, north east shore (L971402), 23 September 2009, EPA (DAM). L. Anaserd, Ballyconneely (L605443), 20 June 2006, 6 June and 17 July 2007, EPA (DAM). L. Ballynahinch, Ballynahinch (L777478), 13 September 2007, EPA (DAM). L. Illauntrasna, Glentrasna, Garomna (L888254), 25 July 2007, EPA (DAM). L. Nahasleam, Maam Cross (L972440), 12 September 2006, EPA (DAM)**: HA 32 -** L. Aughrusbeg, Cleggan (coastal) (L557582), 11 September 2007, EPA (DAM). L. Ballynakill, Cleggan (L639581), 11 September 2007, EPA (DAM). **KERRY: HA 21 -** Erik L., Derrygarriff (V881777), 9 August 2005, JRB (DAM)**: HA 22 -** L. Leane, Killarney (V931886), 24 June 2008, EPA (DAM). Muckross Lake, Killarney, Dundag Bay (V964858), 23 July 1973 (Murray, 1974) and mid lake (V950853), 16 July 2008, EPA (DAM). **KILKENNY: HA 15 -** R. Nore, Norelands Bridge (S547436), 28 August 1981 (Hayes, 1991). **LEITRIM: HA 26 -** L. Acres, Drumshanbo (G968099), 11 June 2008, EPA (DAM). L. Rinn, Mohill (N095943), 18 July and 10 September 2008, EPA (DAM). **LONGFORD: HA 26 -** L. Forbes, Cloonard, Newtownforbes (N084821), 27 August and 10 September 2008, EPA (DAM). **ROSCOMMON: HA 26 -** L. Ree, Yew Point, Barley Harbour (N018485), 10 September 2007, EPA (DAM). **LOUTH: HA 6 -** L. Mentrim, Ardee (N913879), 27 June 2005, DAM/WM (DAM). **MAYO: HA 30 -** L. Carra, Keel Bridge, Ballinrobe (M165680), 28 April and 26 September 2008, EPA (DAM)**: HA 32 -** L. Moher, Liscarney, Westport (L977766), 18 September 2008, EPA (DAM). L. Ballin, Westport, north shore (L996882), 25 June 2008, EPA (DAM)**: HA 33 -** L. Keel, Achill Island, mid lake (F651059), 16 July 2008, EPA (DAM). L. Carrowmore, Bangor Erris: Gortmore (F833266), 29 September 2004, WAM (DAM); Derreens (F833299), 28 July 2008, EPA (DAM)**: HA 34 -** L. Conn, south

basin, Illannaglashy (G207070), 20 August 2008, EPA (DAM). L. Lannagh, Castlebar (M137899), 26 September 2008, EPA (DAM). L. More, Ballynagoraher (G115044), 29 June 2006, EPA (DAM). **MEATH: HA 7 -** R. Boyne, Oldbridge (O045761) and d/s Oldbridge (O062753), 19 July 1989 (DAM). **MONAGHAN: HA 36 -** L. Avagnon, Latton, Cotehill (H688133), 6 June 2007, EPA (DAM). L. Inner, Dartery, Drum (H625173), 6 June and 10 July 2007, EPA (DAM). Kilroosky L., Clones (H494274) and Summerhill L., Magheraveely (H490280), 28 June 2000 (Langton, 2002). **ROSCOMMON: HA 26 -** R. Suck, Castlecoote (M809627), 16 July 1981 (Hayes, 1991). L. Meelagh, Keadew (G901117), 12 July 2008, EPA (DAM). L. Annaghmore, Strokestown, Elphin (M902838), 15 July 2008, EPA (DAM). L. Glinn, Loughglinn, Castlerea (M629870), 12 June 2008, EPA (DAM). Grange L., Greywood, Strokestown (M938857), 25 June 2008, EPA (DAM). L. O'Flynn, Ballinlough (M585786), 12 June 2008, EPA (DAM). **SLIGO: HA 26 -** L. Gara, Cuppanagh, Cloonlough (G714013), 26 June 2008, EPA (DAM)**: HA 35 -** L. Easky, Ox Mountain (G446230), 17 July 2008, EPA (DAM). **WATERFORD: HA 16 -** L. Ballyscanlan (Ballyscanlan Reservoir), Tramore (S540030), 22 April 2009, EPA (DAM)**: HA 17 -** Belle Lake, Dunmore East (S665049), 2 July 2009, EPA (DAM). L. Carrigavantry, Tramore (S548022), 19 August 2009, EPA (DAM)**: HA 18 -** R. Blackwater, Lismore (X047988), 31 August 1981 (Hayes, 1991). **WESTMEATH: HA 25 -** L. Owel, Mullingar (N421566), May to September 1973, NH (Hayes, 1980)**: HA 26 -** L. Killinure, Ballaghkeernan Bay (N069445), 26 June 2007, EPA (DAM)**: HA 36 -** L. Bane, Collinstown (N550712), 26 June 2006 (EPA).

***Parachironomus mauricii* (Kruseman, 1933)**

MAYO - Clare Island - Creggan L., Lecarrow (L689857), June to October 1998, Fahy (2002), misidentified as *Parachironomus parilis.* Voucher adult male specimen in NMI examined (PJA/DAM) and identification confirmed as *P. mauricii.*

Parachironomus* sp. cf *mauricii (pupal exuviae sensu Langton and Visser (2003) and Langton (1991) as "? *Parachironomus* sp Pe").

According to Spies and Bolton (2013) pupal exuviae of *Parachironomus* with a medial gap in the hook row of tergite II which run to *P. mauricii* in Langton and Viser (2003) may also be linked with other adult *Parachironomus* species - including *P. biannulatus* Goetghebuer and *P. kuzini* Shilova. The first record of *P. mauricii* in Ireland (Langton, 2002) was based on pupal exuviae from L. Mulladerg, Co. Donegal but, following Spies and Bolton (2013), that record may now be uncertain - although possible. The following records, based on pupal exuviae identified from Langton and Visser (2003) may reflect occurrences of *P. mauricii, P. biannulatus* or another species of *Parachironomus.*

CAVAN: HA 7 - L. Ramor, Virginia (N612860), 24 July 2007, EPA (DAM). **CLARE: HA 27 -** L. Bunny, Aughrim, south east shore (R377965), 11 June and 14 September 2009, EPA (DAM). L. Cullaun, Corrofin, mid east shore (R317905), 16 June and 14 September 2009, EPA (DAM). L. Dromore, Ruan, Corrofin (R345858), 21 July 2009, EPA (DAM). L. Muckanagh, Tubber, Corrofin (R370922), 14 September 2009, EPA (DAM). L. Rosroe, Newmarket on Fergus, north east shore (R449697), 16 September 2009, EPA (DAM)**: HA 29 -** L. Skeardeen, Kilcorkan (R388991), 7 April 2009, EPA (DAM). **CORK: HA 19 -** Iniscarra Reservoir, Coachford (W477717), 28 July 2008, EPA (DAM)**: HA 20 -** L. Coolkllure, Dunmanway (W177539), 11 August 2008, EPA (DAM). **DONEGAL: HA 38 -** L. Mulladerg, The Rosses (B775199), 19 July 2000 (Langton, 2002). L. Anure, Loughanure, east shore (B818162), 7 September 2009, EPA (DAM). L. Glen, Glen (C105292), 29 July 2009, EPA (DAM). L. Fallaneas, Kindrum (C173424), 9 September 2009, EPA (DAM)**: HA 39 -** L. Akibbon, Church Hill (C068184), 9 September 2009, EPA (DAM). **GALWAY: HA 29 -** L. Rea, Loughrea (M615154), 18 September 2007, EPA (DAM). L. Cutra, Gort (R485986), 24 May 2003, EPA (PHL)**: HA 30 -** L. Anillaun, Maam Cross (L980470), 8 June and 5 September 2007, EPA (DAM)**: HA 31 -** L. Anaserd, Ballyconneely (L605443), 20 June 2006 and 11 September 2007, EPA (DAM). L. Aunwillan, Carraroe (L936255), 25 July 2007, EPA (DAM). L. Ballynahinch, Ballynahinch (L777478), 6 June and 13 September 2007, EPA (DAM). L. Illauntrasna, Glentrasna, Garomna (L888254), 12 September 2007, EPA (DAM). L. Nahasleam, Maam Cross (L972440), 12 September 2006, EPA (DAM)**: HA 32 -** L. Ballynakill, Cleggan (L639581), 11 September 2007, EPA (DAM). L. Enask, Beaghcauneen (L662468), 6 June 2007, EPA (DAM). L. Fadda, Beaghcauneen (L668455), 11 September 2007, EPA (DAM). L. Nambrackmore, Ballinaboy, Toombeola (L716454), 6 June and 12 September 2007, EPA (DAM). **KERRY: HA 22 -** Muckross Lake, Killarney (V950853), 18 September 2008, EPA (DAM). **LIMERICK: HA 24 -** Bleach L., Pallaskenry (R441569), 28 July 2009, EPA (DAM). L. Gur, Holycross (R646269), 28 July and 13 June 2009, EPA (DAM). **MAYO: HA 32 -** R. Bunowen, u/s of bridge, Louisburg (L807807), 5 August 2004, DAM/WM (Murray, 2005)**: HA 33 -** L. Keel, Achill Island, south west shore (F641055), 17 September 2008, EPA (DAM)**: Clare Island -** Creggan L., Lecarrow (L689857), 21 August 2002, Murray and Murray (2003) as *P. vitiosus*, misidentified. **MONAGHAN: HA 6** - L. Monalty, Carrickmacross (H866027), 14 September 2007, EPA (DAM). **ROSCOMMON: HA 26 -** L. Funshinagh, Brideswell (M933513), 23 April 2007, EPA (DAM).

***Parachironomus monochromus* (van der Wulp, 1875)**

CORK: HA 19 - L. Aderry, Castlemartyr (W935730), 13 August 1989, NH (Bracken and Murray, 1973). **DONEGAL: HA 38 -** L. Altercan, The Rosses (B755158), 19 July 2000

(Langton, 2002). **GALWAY: HA 31 -** L. Anaserd, Ballyconneely (L605443), 17 July 2007, EPA (DAM). **KILKENNY: HA 15 -** R. Nore, Norelands Bridge (S547436), 28 August 1981 (Hayes, 1991). **WATERFORD: HA 16 -** L. Ballyshunnock (Reservoir), Portlaw (S455095), 1 July 2009, EPA (DAM).

***Parachironomus parilis* (Walker, 1856)**
CLARE: HA 27 - L. Atedaun, Corrofin, east shore (R300886), 22 September 2009, EPA (DAM). L. Cullaun, Corrofin, mid east shore (R317905), 4 July 2006, EPA (PHL). L. Dromore, Ruan, Corrofin, mid lake (R352864), 16 June and west basin (R345858), 21 July 2009, EPA (DAM). L. Inchiquin, Corrofin (R270895), 4 July 2006, EPA (DAM). L. Muckanagh,Tubber, Corrofin, south east shore (R370922), 14 September 2009, EPA (DAM). **DERRY: HA 1 -** inflow to Upper Reservoir, Creggan, Derry (C413171), 29 May 2002, PHL (Langton/NMI Pe). Pool near Reservoir, Creggan, Derry (C414171), 17 May 2002 (PHL)**: HA 3 -** Downhill Forest lake, Coleraine (C757353), 28 July 1999 and 21 August 2001 (PHL). **GALWAY: HA 29 -** L. Rea, Loughrea (M615154), 18 September 2007, EPA (DAM)**: HA 32 -** L. Enask, Beaghcauneen (L662468), 17 July 2007, EPA (DAM). L. Fadda, Beaghcauneen (L668455), 6 June 2007, EPA (DAM). L. Pollacappul, Kylemore (L754582), 9 July 2007, EPA (DAM). **KERRY: HA 22 -** L. Leane, Killarney, Juniper Bay (V949863), 11 June 1973 (Douglas and Murray, 1980; Murray, 2005). **LIMERICK: HA 24 -** L. Gur, Holycross (R646269), 28 July 2009, EPA (DAM). **MAYO: Clare Island -** Creggan L., Lecarrow (L689857), June to November 1998 and June to November 1999 (Fahy, 2002). L. Poirtin Fuinch (L706857), 11 June 1998 (Fahy, 2002) [A single adult male voucher specimen in the NMI Fahy Clare Island collection labeled as *P. parilis* was misidentified, see *P. mauricii* above]. **MONAGHAN: HA 6 -** L. Naglack, Carrickmacross (H853026), 3 May 2007, EPA (DAM).

***Parachironomus subalpinus* (Goetghebuer, 1932)**
KERRY: HA 22 - L. Leane, Killarney, Castlelough Bay, north shore (V966866), 27 June 1973, JPOC and 14 July 1973, DJD/DAM (Douglas and Murray, 1980).

***Parachironomus tenuicaudatus* (Malloch, 1915)**
CAVAN: HA 36 - L. Annagh, Butler's Bridge (H394125), 3 July and 18 September 2007, EPA (DAM). **CLARE: HA 27 -** L. Rosroe, Newmarket on Fergus, north east shore (R448697), 16 June 2009, EPA (DAM). L. Atedaun, Corrofin (R297884), 21 April 2009, EPA (DAM)**: HA 28 -** L. Naminna, north west shore, Boolteagh (R178710), 7 July 2009, EPA (DAM). **CORK: HA 19 -** Carrigdroihid Reservoir, Ashton (W360703), 14 August 2008, EPA (DAM). L. Allua, Ballingeary (W180652), 20 August 2008, EPA (DAM). **DONEGAL: HA 38 -** L. Dunglow,

The Rosses, east shore (B787117), 19 July 2000 (Langton, 2002)**: HA 39 -** L. Fern, Millford (C180233), 23 July 2009, EPA (DAM). **GALWAY: HA 29 -** L. Rea, Loughrea (M615154), 25 May 2003, PHL (Langton/NMI Pe)**: HA 30 -** L. Corrib Upper, Oughterard (M138486), 11 June and 14 August 2007, EPA (DAM). L. Corrib (M1545), 1980, BC (DAM). Stream, at lay-by picnic site on road N59, Moycullen (M204326), 25 May 2003 (PHL). R. Owenriff, Oughterard (M112426), 25 May 2003 (PHL)**: HA 32 -** L. Aughrusbeg, Cleggan (L557582), 5 June 2007, EPA (DAM). **KERRY: HA 22 -** L. Acoose, Slievanore, Killorglan (V755854), 9 July 2008, EPA (DAM). L. Guitane, Crohane, Killarney (W025846), 8 July 2008, EPA (DAM). L. Kilbrean, Killarney (W005935), 16 June 1969, NH (Bracken and Murray, 1973). L. Leane, Killarney: Castlelough Bay, north shore (V966866), 27 June 1973; Ross Bay (V945850), 29 August 1997, DAM (Murray, 2005); Muckross Boathouse (V965866), 29 August 1987, NOM (DAM). **LEITRIM: HA 35 -** L. Belhavel, Killarga, Dromahair (G878288), 10 June 2008, EPA (DAM). **LIMERICK: HA 24 -** Bleach L., Pallaskenry (R441569), 13 June 2009, EPA (DAM). **MAYO: Clare Island -** L. Poirtin Fuinch (L706857), 1 September 1998 and 2 August 1999 (Fahy, 2002). **MONAGHAN: HA 36 -** L. Annaghmakerrig, Newbliss (H585205), 27 June 2006, EPA (DAM). Kilroosky L., Clones (H494274), 28 June 2000 (Langton, 2002). Summerhill L., Magheraveely (H490280), 28 June 2000 (Langton, 2002). **OFFALY: HA 25 -** bog lake 2, Turraun (N150230), 3 June 1999 (DAM). **WATERFORD: HA 16 -** L. Ballyshunnock (Reservoir), Portlaw (S455095), 2 September 2009, EPA (DAM). **WESTMEATH: HA 25 -** L. Owel, Mullingar (N421566), June 1973, NH (Hayes, 1980). L. Ennell, Tudenham (N415466), 1981 (Forde, 1985).

***Parachironomus vitiosus* (Goetghebuer, 1921)**

[Including pupal exuviae records determined as *Parachironomus biannulatus* (Staeger, 1839), sensu Langton and Viser (2003). Spies and Bolton (2013) drew attention to the mistaken association between the adult male and pupal exuviae of *P. biannulatus* in Langton and Visser (2003) and have shown that such exuviae identified from Langton (1984, 1991) and Langton and Visser (2003) actually belong to *P. vitiosus*. See also comments on *P. cinctellus* above].

ANTRIM: Rathlin Island - Ushet L. (D154485), 5 July 2004 (PHL). **CAVAN: HA 36 -** L. Cuillaghan, Ballyconnell (H303183), 6 June 2007, EPA (DAM). L. Garty, Arvagh (N278978), 7 June 2007, EPA (DAM). **CLARE: HA 25 -** L. Derg, d/s Killaloe (M705715), 18 September 2009, EPA (DAM). L. Atorick, Feakle (R637964), 24 May 2003, EPA (PHL)**: HA 27 -** Castle L., Kilmurry, Sixmilebridge, south west shore (R481688), 12 June and west shore (R484690), 17 July 2009, EPA (DAM). L. Dromore, Ruan, Corrofin, mid lake (R352864), 16 June 2009 and west basin (R345858), 21 July 2009, EPA (DAM). L. Gortglass, Killadysert, north shore (R223599), 11 June 2009 and south shore (R223596), 7 July 2009, EPA (DAM). L.

Cullaunyheeda, Kilkishen (R488746), 13 August 2009, EPA (DAM). **CORK: HA 19 -** Carrigdroihid Reservoir, Ashton (W360703), 16 September 2008, EPA (DAM)**: HA 21 -** L. Bofinna, Bantry (W041488), 18 June 2008, EPA (DAM). **DERRY: HA 3 -** pond 1, Magherafelt Golf Course, Traad Point (H950873), 10 May 2000 (Langton, 2002). **DONEGAL: HA 36 -** L. Unshin, Ballyshannon (G951637), 8 June 2009, EPA (DAM)**: HA 38 -** L. Mulladerg, The Rosses (B775199), 19 July 2000 (Langton, 2002). L. Fallaneas, Kindrum (C173424), 16 June 2009, EPA (DAM)**: HA 39 -** L. Fern, Millford (C180233), 16 June 2009, EPA (DAM). **FERMANAGH: HA 36 -** L. Lattone, Kiltyclogher (H003456), 29 June 2000 (Langton, 2002). **LEITRIM: HA 35 -** L. Belhavel, Killarga, Dromahair (G878288), 10 June and 26 August 2008, EPA (DAM). **LIMERICK: HA 24 -** Bleach L., Pallaskenry (R441569), 13 June 2009, EPA (DAM). **LONGFORD: HA 26 -** L. Forbes, Cloonard, Newtownforbes (N084821), 25 June and 10 September 2008, EPA (DAM). **MAYO: HA 30 -** L. Mask, Toormakeady (M113702), 24 June 2008, EPA (DAM)**: HA 32 -** L. Glencullin, Delphi, south west shore (L819696), 25 August 2008, EPA (DAM). L. Moher, Liscarney, Westport (L977766), 18 September 2008, EPA (DAM)**: HA 34 -** L. Conn, Illannaglashy (G207070), 20 August 2008, EPA (DAM). **Clare Island** – Creggan L., Lecarrow (L689857), 21 August 2002, DAM/WM (DAM). **MEATH: HA 6 -** R. Dee, Drumconrath (N910894), 7 July 1983, BPH (Hayes, 1991; Murray, 1996, 2005). **MONAGHAN: HA 36 -** L. Drumlona, Rockcorry (H636176), 5 June and 11 July 2007, EPA (DAM). **OFFALY: HA 25 -** bog lake 2, Turraun (N150230), 3 June 1999 (DAM). **SLIGO: HA 26 -** L. Gara: Cuppanagh, Cloonlough (G714013), 26 June 2008 and Monastredan (M708996), 5 September 2008, EPA (DAM). **WESTMEATH: HA 26 -** L. Killinure, Ballaghkeernan Bay (N069445), 26 June 2007, EPA (DAM).

***Parachironomus* sp. Pe2 sensu Langton (1984, 1991), Langton and Viser, 2003**

Langton and Visser (2003) recognised two morphotypes in *Parachironomus* Pe2 sensu Langton (1984, 1991). The following records from collections prior to the year 2003 derive from exuviae identified from Langton (1984, 1991) and thus may include one or other of the morphotypes recognised in Langton and Visser (2003).

CARLOW: HA 12 - R. Derreen, Acann Bridge (S900781), 29 July 1981 (Hayes, 1991). **DONEGAL: HA 38 -** L. Mulladerg, The Rosses (B775199), 19 July 2000 (Langton, 2002). **FERMANAGH: HA 36 -** L. Macnean, lower, Belcoo (H085384), 29 June 2000 (Langton, 2002). **GALWAY: HA 31 -** L. Nahasleam, Maam Cross South (L972440), 12 September 2007, EPA (DAM). **KERRY: HA 21 -** L. Currane, Waterville (V535664), 9 May 2008, EPA (DAM). **KILDARE: HA 9 -** R. Liffey, Straffan Bridge (N924293) 17 July 1983 (Hayes, 1991). **SLIGO: HA 35 -** L. Templehouse, Ballymote (G619182), 11 June and 4 September 2008, EPA

(DAM).

***Parachironomus* sp. Pe2a sensu Langton and Viser, 2003**

CLARE: HA 28 - L. Doo, Milltown Malbay (R123721), 8 July 2009 and north west shore (R114722), 15 September 2009, EPA (DAM). L. Keagh, Milltown Malbay, south west shore (R100811), 8 July 2009, EPA (DAM). **LEITRIM: HA 26 -** L. Boderg, Derrycarne, north west shore (N013915), 29 July 2008, EPA (DAM)**: HA 35 -** L. Glenade, south east shore, Glenade, Manorhamilton (G831457), 22 July 2008, EPA (DAM). **MAYO: HA 33 -** L. Keel, Achill Island, south east shore (F650051), 17 June and mid lake (F651059), 16 July 2008, EPA (DAM).

***Parachironomus* sp. Pe3 sensu Langton and Viser, 2003**

CLARE: HA 27 - L. Atedaun, Corrofin (R297884), 21 April 2009, EPA (DAM)**: HA 28 -** R. Doonbeg, Derryard (Q979644), 31 July 1982, BPH (DAM). **CORK: HA 20 -** R. Illen, Hollybrook (W117363), 24 August 1983, BPH (DAM). **DONEGAL: HA 39 -** L. Fern, Millford (C180233), 9 September 2009, EPA (DAM). **GALWAY: HA 30 -** L. Ballyquirk, Moycullen (M232317), 13 April 2007, EPA (DAM); L. Corrib Lower, Moycullen (M271360), 18 September 2007, EPA (DAM). **WICKLOW: HA 10 -** L. Tay, Luggala (O163008), 28 July 2009, EPA (DAM). **WEXFORD: HA 12 -** R. Slaney, Edernline Bridge (S977345), 29 July 1981 BPH as *P. arcuatus*, misidentified (DAM).

***Parachironomus* sp. Pe4 sensu Langton 1991 not *P. varus* (Goetghebuer, 1921) sensu Langton and Visser (2003)**

A record of *Parachironomus varus* as new to Ireland was given by Murray (2010) based on pupal exuviae from L. Carra, Co Mayo and identified from Langton and Visser (2003). However, Spies and Bolton (2013) have since shown that more than one species will key to '*P. varus*' in Langton and Visser (2003) and thus questioned the validity of the association of *Parachironomus* Pe4, sensu Langton (1991) with *P. varus* (Goetghebuer) in Langton and Visser (2003). Examination of associated adult male and pupa of *P. varus,* collected and determined by Goetghebuer in the Netherlands and housed at Zoologische Staatssammlung, Munich reported by Spies and Bolton (2013), revealed that the pupae are "around 5mm long and lack transverse bands on sternite II". In contrast exuviae cited as *P. varus* in Langton and Visser (2003) were "7 and 10mm long, with both anterior and posterior point bands indicated on sternite II". Consequently Spies and Bolton (2013) recommended that *P. varus* (Goetghebuer) and *P*. Pe4 sensu Langton (1991) be treated separately. Since the record of *P. varus* in Murray (2010) was incorrect, that morphotype is included here as *Parachironomus* sp. Pe4.

CLARE: HA 27 - L. Rosroe, Newmarket on Fergus, north east shore (R449697), 16 September 2009, EPA (DAM). **DONEGAL: HA 37 -** L. Eske, Donegal (G973844), 14 July 2009, EPA (DAM)**: HA 39 -** L. Fern, Millford (C180233), 16 June, 23 July and 9 September 2009, EPA (DAM). **MAYO: HA 30 -** L. Carra, Keel Bridge, Ballinrobe (M165680), 19 June 2008, EPA (Murray, 2010, as *P. varus*). **SLIGO: HA 35 -** L. Arrow, Ballinafad (G789123), 9 September 2008, EPA (DAM). **WATERFORD: HA 17 -** Belle Lake, Dunmore East (S665049), 1 September 2009, EPA (DAM).

***Paracladopelma camptolabis* (Kieffer, 1913)**

ANTRIM: HA 3 - Killylane Reservoir, Magherabane, Larne (J292985), 4 and 8 May 1999 (PHL)**: HA 4 -** R. Bush, Seneirl Bridge (C943362), 16 July 2000 (Langton, 2002). **CARLOW: HA 12 -** R. Derreen, Acann Bridge (S900781), 29 July 1981, BPH (Murray, 1996). **CAVAN: HA 36 -** L. Macnean, lower, Blacklion (H106378), 7 June 2007, EPA (DAM). L. Gowna, north basin, Arnagahan (N285920), 18 September 2007, EPA (DAM). R. Erne, Drumbarry (N462951), 17 August 1982, BPH (Murray, 1996). **CLARE: HA 27 -** L. Bunny, Aughrim, south east shore (R377965), 10 May 2005, EPA (DAM). **CORK: HA 18 -** R. Blackwater, Knocknagree (W159975), 2 September 1981, BPH (Murray, 1996)**: HA 19 -** L. Allua, Ballingeary (W180652), 4 April 2008, EPA (DAM)**: HA 20 -** R. Ovane, Pierson's Bridge (W023454), 24 August 1983, BPH (Murray, 1996)**: HA 21 -** L. Avaul, Glengarrif (V910553), 1969, NH (Bracken and Murray, 1973). L. Glenbeg, Ardgroom (V706530), 3 September 2008, EPA (DAM). **DERRY: HA 1 -** Upper Reservoir (C417173) and Lower Reservoir (C422174), Creggan, Derry, 26 April and 10 May 2001 (PHL)**: HA 3 -** R. Bann, Coleraine (C855304), 6 April 2000, 27 April 2002 and 18 April 2010 (PHL). **DONEGAL: HA 1 -** L. Mourne, Ballybofey (H069900), 9 June 2009, EPA (DAM)**: HA 37 -** R. Eany, d/s Eanybeg confluence (G842815), 10 August 1982, BPH (Murray, 1996)**: HA 38 -** Misty L., Glenveagh (C014228), 3 June 1986 (Heneghan, 1986)**: HA 39 -** L. Gartan, Church Hill (C055159), 10 June, 22 July and 9 September 2009, EPA (DAM). L. Akibbon, Church Hill (C068184), 23 April, 11 June and 9 September 2009, EPA (DAM). R. Leannan, Drumaboden (C165218), 12 August 1982, BPH (Murray, 1996). L. Fern, Milford (C182247), 18 August 2011 (PHL). **DUBLIN: HA 9 -** Upper Bohernabreena Reservoir (O095219), 9 May 1947, AF and CFH (Fitzgerald, 1947). **GALWAY: HA 29 -** L. Rea, Loughrea (M615154), 14 June and 14 September 2007, EPA (DAM)**: HA 30 -** L. Beaghcauneen, Ballinaboy (L679470), 5 April 2007, EPA (DAM). L. Maumwee, Maam Cross (L977485), 19 May 2005, EPA (DAM). R. Loughkip, Ballyquirk, Moycullen (M224313), 17 August 1981, BPH (Murray, 1996)**: HA 31 -** L. Ardderry, Maam Cross (L982458), 17 September 2007, EPA (DAM). L. Nahasleam, Maam Cross (L972440), 19 April 2007, EPA (DAM). L. Shindilla, Derreennacreeva, Maam Cross (L958460), 13

September 2007 and 26 July 2009, EPA (DAM). R. Owentouey, Tullywee Bridge, Recess (L873474), 18 August 1981, BPH (Murray, 1996)**: HA 32 -** L. Aughrusbeg, Cleggan (L557582), 3 April 2007, EPA (DAM). L. Kylemore, Letterfrack (L771582), 5 June and 30 July 2007, EPA (DAM). **KERRY: HA 22 -** L. Acoose, Slievanore, Killorglan (V755854), 9 September 2008, EPA (DAM). L. Leane, Killarney (V931886), 18 September 2008, EPA (DAM). R. Loo, Crohane (W045790), 24 July 1978, PJA (as *Paracladopelma* sp 1 in Ashe 1982). **KILDARE: HA 9 -** R. Liffey, Sallins (N881245), 17 July 1983, BPH (Murray, 1996). **LAOIS: HA 15 -** R. Nore, Castletown Bridge (S326930) and Shanahoe Bridge (S407858), 27 August 1981 also at Athanagh (S423763), 28 August 1981, all BPH (Murray, 1996). **LEITRIM: HA 35 -** L. Glencar, Glencar (G748434), 1 April and 21 July 2008, EPA (DAM). **ROSCOMMON: HA 26 -** L. Ree, Yew Point, Barley Harbour (N018485), 11 September 2007, EPA (DAM). **MAYO: HA 26 -** L. Nanoge, Urlaur (M506903), 24 April 2008, EPA (DAM)**: HA 32 -** L. Doo, Delphi: west shore (L835681), 9 May 2006, EPA (DAM); north east shore (L834689), 22 August 2002, DAM/WM (DAM). L. Fin, Delphi (L841657), 5 April 2006, EPA (DAM). R. Owenwee, u/s Aghamore Bridge, Westport (L972817), 8 May 2003, DAM/WM (Murray, 2005). Westport L., Westport Woods Hotel, Westport (L985843), 7 May 2004, DAM/WM (DAM). L. Knappabeg, Westport (M010803), 21 April and 23 July 2008, EPA (DAM)**: HA 33 -** L. Carrowmore, Bangor Erris, Derreens (F833299), 9 April 2008, EPA (DAM)**: HA 34 -** L. Lannagh, Castlebar, west shore (M109883), 21 August 2008, EPA (DAM). R. Moy, Bellanacurra (G403047) and Ballylahan (M277992), 29 August 1982, BPH (Murray, 1996). **MONAGHAN: HA 36 -** L. Avagnon, Latton, Cotehill (H688133), 6 June 2007, EPA (DAM). **OFFALY: HA 25 -** R. Little Brosna, Milltown Park (S068907) and Brosna Bridge (S077938), 2 September 1982, BPH (Murray, 1996). **ROSCOMMON: HA 26 -** R. Suck: Castlecoote (M809627) and Ballyforan (M817464), 16 July 1981; Newtown (M844346), 15 August 1981, all BPH (Murray, 1996). **SLIGO: HA 34 -** R. Moy, Cloonacool (G493168) and Metal Bridge, Tobercurry (G464138), 30 August 1982 (Hayes, 1991)**: HA 35 -** L. Kilsallagh (Reservoir), Kilsallagh (G734393), 23 July and 8 September 2008, EPA (DAM). L. Gill, Sligo (G753335), 3 April 2008, EPA (DAM). **TIPPERARY: HA 15 -** R. Nore, Quaker Bridge (S211868), 27 August 1981, BPH (Murray, 1996). **WATERFORD: HA 16 -** L. Ballyshunnock (Reservoir), Portlaw (S455095), 20 April 2009, EPA (DAM). **WICKLOW: HA 12 -** R. Derry, Balisland (S978645) and R. Slaney, Stratford Bridge (S895930), 28 July 1981, BPH (Murray, 1996).

***Paracladopelma laminatum* (Kieffer, 1921)**

ANTRIM: HA 3 - L. Neagh, Antrim Bay (J135866), 4 May 1999 and 22 August 2001 (PHL). **CAVAN: HA 36 -** L. Annagh, Butler's Bridge (H394125), 3 April 2007, EPA (DAM).

CLARE: HA 25 - L. Graney, Doorus, west shore (R556930), 10 April and 4 May 2006, EPA (DAM). L. Derg, Terryglass (M861008), 20 April 2009, EPA (DAM). L. Alewnaghta, Whitegate, west shore (R758908), 20 April 2009, EPA (DAM). L. Atorick, Feakle (R637964), 24 May 2003, EPA (PHL)**: HA 27 -** L. Bunny, Aughrim, south east shore (R377965), 2 May 2006 EPA (PHL). Castle L., Kilmurry, Sixmilebridge, west shore (R482691), 17 September 2009, EPA (DAM). L. Cullaunyheeda, Kilkishen (R484746), 12 June and 17 September 2009, EPA (DAM). **DERRY: HA 3 -** L. Neagh (H9080), no date (McLarnon and Carter, 2000); L. Neagh, Ballyronan (H948862), 27 May 1999 (PHL), 10 May 2000 (Langton, 2002), 15 May 2002 (PHL). L. Fea, Draperstown (H760868), 15 May 2002 (PHL). **DONEGAL: HA 38 -** L. Anure, Loughanure, east shore (B818162), 7 September 2009, EPA (DAM). L. Dunlewy, Dunlewy (B926193), 19 July 2000 (Langton, 2002). Stream near Administration Centre, GNP, Glenveagh (C041227), 21 August 1985, LJH (Heneghan, 1986; Murray, 2005). L. Salt, Milford (C121256), 16 June 2009, EPA (DAM)**: HA 40 -** L. Fad, Rowantree Hill, Moville (C539397), 18 August 2011 (PHL). **FERMANAGH: HA 36 -** L. Lattone, Kiltyclogher (H003456), 29 June 2000 (Langton, 2002). **GALWAY: HA 29 -** L. Cutra, Gort (R485986), 24 May 2003, EPA (PHL)**: HA 30 -** L. Anillaun, Maam Cross (L980470), 5 September 2007, EPA (DAM)**: HA 31 -** L. Nahasleam, Maam Cross (L972440), 12 September 2006, EPA (DAM). L. Shindilla, Derreennacreeva, Maam Cross (L958460), 16 May 2006, EPA (DAM). **KERRY: HA 22 -** Muckross Lake, Killarney (V950853), 18 September 2008, EPA (DAM)**: HA 23 -** L. Gill, Castlegregory (Q603139), 28 August and 18 September 2008, EPA (DAM). **ROSCOMMON: HA 26 -** L. Ree, Yew Point, Barley Harbour (N018485), 11 September 2007, EPA (DAM). **MAYO: HA 30 -** L. Mask, Toormakeady (M113702), 22 September 2008, EPA (DAM)**: HA 32 -** L. Doo, Delphi, north east shore (L834689), 22 August 2002, DAM/WM (DAM); west shore (L833680), 25 August 2008, EPA (DAM)**: HA 33 -** L. Keel, Achill Island, north shore (F650058), 7 April 2008 and south east shore (F650051), 17 June 2008, EPA (DAM). Cross L., Drumreagh, Belmullet: west shore (F645293), 9 April 2008 and north east shore (F651299), 17 September 2008, EPA (DAM). L. Bunacurry, Achill Island (F695048), 29 September 2004, DAM/WM (DAM). **SLIGO: HA 35 -** L. Easky, Ox Mountain (G446230), 18 June 2008, EPA (DAM). **WESTMEATH: HA 7 -** L. Lene (N510685), 26 April 2006, EPA (DAM). **WICKLOW: HA 9 -** Pollaphuca Reservoir, Ballymore Eustace (N995080), 30 April 2009, EPA (DAM).

***Paracladopelma nigritulum* (Goetghebuer, 1942)**

CLARE: HA 27 - L. Muckanagh, Tubber, Corrofin (R368926), 22 July 2009, EPA (DAM). **DONEGAL: HA 37 -** L. Eske, Donegal (G973844), 17 April 2009, EPA (DAM)**: HA 38 -** L. Veagh, boat house near Castle, Glenveagh (C022211), 21 July 1985 (Heneghan, 1986) and 22

May 1986, LJH (Heneghan, 1986; Murray, 2005), 7 May and 9 September 2009, EPA (DAM). Duck Pond, Glenveagh (C023214), 22 May 1986, LJH (Murray, 2005). **GALWAY: HA 31 -** L. Anaserd, Ballyconneely (L605443), 17 July 2007, EPA (DAM): **HA 32 -** L. Kylemore, Letterfrack (L771582), 2 April 2007, EPA (DAM). **KERRY: HA 21 -** L. Brin, Derreeny (V780775), 18 June 2008, EPA (DAM). **LAOIS: HA 15 -** R. Nore, Shanahoe Bridge (S407858), 27 August 1981 (Hayes, 1991). R. Nore, u/s Durrow (S416787), 27 August 1981 (Hayes, 1991). **LEITRIM: HA 26 -** L. Allen, Mountallen, Drumshanbo (G950145), 28 April 2008, EPA (DAM). **MAYO: HA 32 -** L. Doo, Delphi, west shore, (L835681), 9 May 2006, and 25 August 2008, EPA (DAM). **MONAGHAN: HA 36 -** Kilroosky L., Clones (H494274), 28 June 2000 (Langton, 2002). **SLIGO: HA 34 -** R. Moy, Metal Bridge, Tobercurry (G464138) and Annagh (G466123), 30 August 1982 (Hayes, 1991)**: HA 35 -** L. Gill, Sligo (G753335), 3 April 2008, EPA (DAM). **WICKLOW: HA 10 -** Vartry Reservoir, south east shore, Roundwood (O214002), 13 August 1983, HD (DAM).

***Paralauterborniella nigrohalteralis* (Malloch, 1915)**

CAVAN: HA 36 - L. Macnean, lower, Blacklion (H106378), 7 June 2007, EPA (DAM). **CLARE: HA 25 -** L. Graney, Doorus (R557924), 11 August 2009, EPA (DAM). L. Derg, Mountshannon (R718861), 18 September 2009, EPA (DAM)**: HA 27 -** L. Cullaunyheeda, Kilkishen (R484746), 12 June 2009, EPA (DAM). **CORK: HA 19 -** Carrigdroihid Reservoir, Ashton (W360703), 14 August 2008, EPA (DAM). Connolly's Stream, Macroom (W400750), 13 April 1966, NH (Murray, 1972). Iniscarra Reservoir, Coachford (W477717), 16 June, 31 July and 16 September 2008, EPA (DAM). **FERMANAGH: HA 36 -** L. Macnean, upper, Belcoo (H042403) and L. Macnean, lower, Belcoo (H085384), 29 June 2000 (Langton, 2002). R. Bannagh, Drummoney Falls, Pettigo (H168676), 17 August 2011 (PHL). **KERRY: HA 23 -** L. Cam, Castlegregory (Q597079), 18 September 2008, EPA (DAM). **LEITRIM: HA 26 -** R. Rinn, Annaveagh (N102897), 12 May 1965, NH (Murray, 1972). L. Boderg, Derrycarne, north west shore (N013915), 14 May 2008, EPA (DAM); L. Boderg, Dromod (N020910), 25 June 2008, EPA (DAM). L. Rinn, Mohill (N095943), 18 July and 10 September 2008, EPA (DAM)**: HA 35 -** L. Belhavel, Killarga, Dromahair (G878288), 10 June, 26 August and 8 September 2008, EPA (DAM). **LONGFORD: HA 26 -** L. Forbes, Cloonard, Newtownforbes (N084821), 10 September 2008, EPA (DAM). **MAYO: HA 34 -** L. Lannagh, Castlebar, west shore (M109883), 21 August 2008, EPA (DAM). **ROSCOMMON: HA 26 -** L. Meelagh, Keadew (G901117), 11 June and 12 July 2008, EPA (DAM). L. Key, Boyle (G838057), 6 August 2008, EPA (DAM); L. Key, Boyle, wharf in Forest Park (G848040), 11 June 2008 and pier, Hogs Island (G825054), 9 September 2008, EPA (DAM). **SLIGO: HA 26 -** L. Gara, Cuppanagh, Cloonlough (G714013), 26 June 2008 and Monastredan (M708996), 5 September 2008, EPA

(DAM)**: HA 35 -** L. Arrow, Ballinafad (G789123), 11 June 2008, EPA (DAM). Templehouse L., Ballymote (G619182), 11 June 2008, EPA (DAM). L. Gill, Sligo (G782350), 20 August 2008, EPA (DAM).

***Paratendipes albimanus* (Meigen, 1818)**

ANTRIM: HA 4 - R. Bush, Stranocum (D009307), 2 July 2000 and Seneirl Bridge (C943362), 16 July 2000 (Langton, 2002). Pond, Benvarden Garden (C946334), 15 May 2005 (PHL). **CAVAN: HA 36 -** R. Erne: Kilsarin (N362910), 27 May 1982; Drumbarry (N462951), 17 August 1982; Dingin's Bridge (N331948) and Carrigan (N391935), 27 August 1982, all Hayes (1991). **CLARE: HA 25 -** L. Graney, Doorus, west shore (R556930), 24 May 2003 (PHL) and mid lake (R557924), 11 August 2009, EPA (DAM)**: HA 27 -** L. Bunny, Aughrim, south east shore (R377965), 2 May, 7 June and 4 July 2006 also 14 July and 14 September 2009, EPA (DAM). L. Cullaun, Corrofin, mid east shore (R317905), 3 May and 7 June 2006, EPA (LPR/PHL) and 22 July 2009, EPA (DAM). L. Muckanagh, Tubber, Corrofin (R368926), 2 August 2006, EPA (PHL). L. Atedaun, Corrofin (R297884), 21 April 2009, EPA (DAM). **CORK: HA 18 -** R. Blackwater, Killavullen (W648998), 31 August 1981 and Roskeen Bridge, Banteer (W444988), 1 September 1981 (Hayes, 1991)**: HA 19 -** L. Allua, Ballingeary (W180652), 20 August 2008, EPA (DAM)**: HA 20 -** R. Ilen, Madore (W103419) and Hollybrook (W117363), 24 August 1983 (Hayes, 1991). **DERRY: HA 1 -** Upper Reservoir, Creggan, Derry (C417173), 17 and 18 May 2002 (PHL). Pool near Reservoir, Creggan, Derry (C414171), 18 May 2001 and 17 May 2002 (PHL)**: HA 2 -** burn at Largantea picnic area, Formoyle, Coleraine (C738287), 9 June 2000 (Langton, 2002)**: HA 3 -** R. Aghadowey, Ballybritain Bridge (C859212), 26 May 2000 (Langton, 2002). R. Bann, Coleraine (C855304): 20 and 31 May, 10, 18 and 23 June, 3 July and 26 August 1999, 17, 25 and 31 May, 7, 13 and 24 June 2000, 16 and 30 June 2001, 2 May 2010, all PHL. Coleraine (C855308), 20 August 2002, 28 June 2003 and 31 May 2007 (PHL). R. Moyola, New Bridge, Magherafelt (H955905), 4 July 2000 (Langton, 2002). **DONEGAL: HA 36 -** L. Tullynasiddagh, Ballyshannon (G983656), 7 July 2009, EPA (DAM)**: HA 39 -** L. Akibbon, Church Hill (C068184), 9 September 2009, EPA (DAM). R. Glashagh, Drumbologe, Letterkenny (C096153), 18 July 2000 (Langton, 2002). R. Leannan, Drumaboden (C165218), 12 August 1982 (Hayes, 1991). **DUBLIN: HA 9 -** Upper Reservoir, Bohernabreena (O095219), 11 May 1949, CFH (DAM). **FERMANAGH: HA 35 -** L. Melvin, Garrison (G938518), 29 June 2000 (Langton, 2002)**: HA 36 -** L. Erne, Lower, Boa Island (H108626) and L. Macnean, lower, Belcoo (H085384), 29 June 2000 (Langton, 2002). R. Colebrook tributary (1), Drumcleave, Brookeborough (H367427), 15 September 1997 (PHL). **GALWAY: HA 25 -** L. Derg, Woodford (M794964), 23 May 2003 (PHL). R. Woodford, Woodford (M732000), 24 May 2003 (PHL)**: HA 26 -** R. Shiven, d/s

Ballinaglass (M788494), 29 July 1981 (Hayes, 1991). R. Tirur, Newbridge (M492699), 16 August 1981 (Hayes, 1991)**: HA 29 -** L. Caherglassaun, Gort (M412061), 12 April and 7 August 2007, EPA (DAM)**: HA 30 -** L. Corrib Upper, Oughterard, west shore (M138486), 14 August 2007, EPA (DAM); L. Corrib, no data (M150450), 1980, BC (DAM). L. Ross, Moycullen (M200363), 25 May 2003 (PHL). R. Loughkip, Ballyquirk, Moycullen (M224313), 17 August 1981 (Hayes, 1991). R. Cregg, Addergsole Bridge (M324350), 16 August 1981 (Hayes, 1991). R. Grange, Grange Bridge (M428498), 16 August 1981 (Hayes, 1991)**: HA 31 -** R. Owentouey, Tullywee Bridge, Recess (L873474), 18 August 1981 (Hayes, 1991)**: HA 32 -** R. Dawros, Tullywee Bridge, Letterfrack (L730586), 18 August 1981 (Hayes, 1991). **KERRY: HA 22 -** Killarney (V9080), 1929, FWE (Edwards, 1929; Murray, 2005). L. Leane, Killarney, Muckross Boathouse (V965866), 29 August and 6 September 1987, NOM (Murray, 2005). R. Flesk, White Bridge (V987904), July 1973 (Douglas and Murray, 1980) and d/s Whitebridge (V987900), July 1978 (Ashe, 1982). **KILDARE: HA 9 -** R. Liffey, Straffan Bridge (N924293), 15 July 1983 (Hayes, 1991). **KILKENNY: HA 15 -** R. Nore, Norelands Bridge (S547436) and Brownsbarn Bridge (S618391), 28 August 1981 (Hayes, 1991). **LAOIS: HA 15 -** R. Nore, Castletown Bridge (S326930), Shanahoe Bridge (S407858), u/s Durrow (S416787), 27 August 1981 and Athanagh (S423763), 28 August 1981, all Hayes (1991). **LEITRIM: HA 35 -** L. Glencar, Glencar (G757435), 10 June 2008, EPA (DAM). **MAYO: HA 30 -** L. Carra, Keel Bridge, Ballinrobe (M165680), 28 April 2008, EPA (DAM)**: HA 34 -** L. Conn, Brackwansha (G191098), 1 April 1966, AJOS (Murray, 1972). L. Washpool, Ballycarra (M219842), 19 June 2008, EPA (DAM)**: HA 34 -** R. Moy, Bellanacurra (G403047), 29 August 1982 (Hayes, 1991). **MEATH: HA 7 -** R. Boyne: Newtown, Trim (N815571), 9 July 1981 (Hayes, 1991); Bellinter Bridge (N894626), 21 August 1988; Ardsallagh at St Bridget's Well (N897635), 7 July 1988; New Bridge, Navan (N873679), 18 August 1988; Stackallen Bridge (N917713), 19 July 1989, all Murray (1988). R. Blackwater: Bloomsbury Bridge, Oristown (N793741), Donaghpatrick (N819723) and Poolboy Bridge, Navan (N871681), 18 August 1988 (Murray, 1988)**: HA 8 -** Meadesbrook, Kilmoon (O038594), 10 August 1999 (DAM). R. Nanny, Duleek (O050683), 6 June 2006, DAM/WM (DAM). **OFFALY: HA 25 -** R. Shannon, Shannon Bridge (M967254), 15 August 1981 (Hayes, 1991). R. Little Brosna, Brosna Bridge (S077938), 2 September 1982 (Hayes, 1991); R. Little Brosna, Sharavogue (S056953), 2 September 1982 (Hayes, 1991). **ROSCOMMON: HA 26 -** R. Suck, Castlecoote (M809627) and Ballyforan (M817464), 16 July 1981 (Hayes, 1991) also Newtown (M844346), 15 August 1981 (Hayes, 1991). L. Key, Boyle (G848040), 11 June 2008, EPA (DAM)**: HA 30 -** R. Dalgan, Clonfad (M518712), 20 August 1981 (Hayes, 1991). **SLIGO: HA 34 -** R. Moy, Cloonacool (G493168) and Annagh (G466123), 30 August 1982 (Hayes, 1991)**: HA 35 -** L. Gill, Sligo (G782350), 11 June 2008, EPA (DAM). **TIPPERARY: HA 15 -** R. Nore, Nore Bridge (S133816) and Quaker Bridge

(S211868), 27 August 1981 (Hayes, 1991). **TYRONE: HA 1 -** L a'Tirrive, Mulderg, Mountfield (H534778), 16 August 2011 (PHL). **WATERFORD: HA 18 -** R. Blackwater, Ballyduff (W964992) and Lismore (X047988), 31 August 1981 (Hayes, 1991). **WESTMEATH: HA 25 -** L. Owel, Mullingar (N421566), June 1973, NH (Hayes, 1980). L. Ennell, Tudenham (N415466), 23 June 1966 (Murray, 1972)**: HA 36 -** L. Bane, Collinstown (N550712), 26 June and 24 July 2006, PHL (EPA). **WEXFORD: HA 13 -** Estuary, Fethard (S794047), 13 June 2012 (DAM).

***Paratendipes nudisquama* (Edwards, 1929)**
GALWAY: HA 30 - R. Loughkip, Ballyquirk, Moycullen (M224313), 17 August 1981 (Hayes, 1991). **OFFALY: HA 25 -** R. Shannon, Shannon Bridge (M967254), 15 August 1981 (Hayes, 1991). **ROSCOMMON: HA 26 -** R. Suck, Athleague (M825758), 14 August 1981 (Hayes, 1991).

***Paratendipes plebeius* (Meigen, 1818)**
DONEGAL: HA 37 - Carn L., Blue Stack Mountains (G871886), 27 July 2005, JRB (DAM)**: HA 38 -** L. Nabuckan, Grogan More (B850184), 27 July 2005, JRB (DAM). **DUBLIN: HA 9 -** R. Dodder, Landsdown Road Bridge (O180327), 29 June and 18 August 1966 (Murray, 1972). **WESTMEATH: HA 25 -** L. Ennell, Tudenham (N415466), 31 July 1966 (Murray, 2005). **WICKLOW: HA 10 -** L. Ouler, Tonelagee (O091023), 8 August 2005, JRB (DAM).

***Phaenopsectra flavipes* (Meigen, 1818)**
ANTRIM: HA 3 - L. Neagh, Lennymore Bay (J115745), March 1969 (Marks and Henderson, 1970). **CLARE: HA 27 -** Castle Lake, Kilmurry, Sixmilebridge, west shore (R484690), 17 July 2009, EPA (DAM). L. Cullaun, Corrofin, mid east shore (R317905), 22 July 2009, EPA (DAM). L. Dromore, Ruan, Corrofin, west basin (R345858), 4 May 2006, EPA (DAM). L. Inchicronan, Crusheen, east basin (R398866), 15 June 2009, EPA (DAM). L. Cullaunyheeda, Kilkishen (R484746), 16 April 2009, EPA (DAM). L. Atedaun, Corrofin, east shore (R300886), 22 September 2009, EPA (DAM)**: HA 28 -** L. Naminna, Boolteagh, west shore (R179708), 11 June 2009 and north west shore (R178710), 7 July 2009, EPA (DAM). **CORK: HA 18 -** R. Blackwater, Killavullen (W648998), 31 August 1981 (Hayes, 1991)**: HA 20 -** L. Tooreen, Crookhaven (V790259), 17 September 2008, EPA (DAM). R. Ovane, Pierson's Bridge (W023454), 24 August 1983 (Hayes, 1991)**: HA 21 -** L. Glenbeg, Ardgroom (V706530), 3 September 2008, EPA (DAM). **DONEGAL: HA 36 -** L. Tullynasiddagh, Ballyshannon (G983656), 7 September 2009, EPA (DAM)**: HA 37 -** R. Stragar, Killybegs (G730787), 23 August 1984 (DAM)**: HA 38 -** L. Anure, Loughanure, east shore (B818162), 12 August and 7

September 2009, EPA (DAM). Inflow stream to north east of L. Veagh, Glenveagh (C033222), 19 August 1985 (Heneghan, 1986). L. Greenan, Loughsalt, Kilmacrennan (C117262), 16 June 2009, EPA (DAM). L. Salt, Milford (C121256), 16 June 2009, EPA (DAM). L. Keel, Kilmacrennan (C158243), 16 June and 16 July 2009, EPA (DAM). L. Fallaneas, Kindrum (C173424), 9 September 2009, EPA (DAM). L. Kiltoris, Dawros, Ardara (G675976), 17 June 2009, EPA (DAM)**: HA 39 -** L. Akibbon, Church Hill (C068184), 11 June 2009, EPA (DAM). **DUBLIN: HA 9 -** Woodview Pond, University College Dublin (O186203), 24 June 1966 (Murray, 1972). R. Dodder, Fort Bridge, Bohernabreena (O009242), 28 March 1949, CFH/SR (Reilly, 1950). **GALWAY: HA 30 -** L. Anillaun, Maam Cross (L980470), 19 April, 1 August and 5 September 2007, EPA (DAM). L. Ballyquirke, Moycullen (M232317), 13 April, 14 June and 8 August 2007, EPA (DAM). R. Cregg, Addergsole Bridge (M324350), 16 August 1981 (Hayes, 1991)**: HA 31 -** L. Anaserd, Ballyconneely (L605443), 6 June and 17 July 2007, EPA (DAM). L. Ballynahinch, Ballynahinch (L777478), 6 June, 23 July and 13 September 2007, EPA (DAM). L. Derryclare, Recess (L825485), 13 September 2007, EPA (DAM). L. Nahasleam, Maam Cross (L972440), 12 September 2006, 19 April, 1 August and 13 September 2007, EPA (DAM)**: HA 32 -** L. Ballynakill, Cleggan (L639581), 5 June 2007, EPA (DAM). L. Enask, Beaghcauneen (L662468), 17 September 2007, EPA (DAM). L. Fadda, Beaghcauneen (L668455), 6 June and 11 September 2007, EPA (DAM). Stream near Administration Centre, CNP, Letterfrack (L716574), 16 September 1986 (Heneghan, 1987). **KERRY: HA 21 -** L. Inchiquin, Kenmare (V837629), 1 and 17 September 2008, EPA (DAM)**: HA 22 -** L. Guitane, Crohane, Killarney (W025846), 8 July and 9 September 2008, EPA (DAM). L. Leane, Killarney, Juniper Bay (V949863), 11 June 1973 (Douglas and Murray, 1980). Muckross Lake, Muckross, Killarney (V950853), 16 July 2008, EPA (DAM). R. Flesk: d/s R. Clydagh - R. Loo confluence (W084814), July to October 1978 (Ashe, 1982); Garries Bridge (W082835), September 1976, PJA (Murray, 2005); d/s New Bridge (V963885) and u/s L. Leane (V964894), July to October 1978 (Ashe, 1982). Upper Lake, Killarney (V909821), 9 September 2008, EPA (DAM)**: HA 23 -** L. Cam, Castlegregory (Q597079), 29 August and 18 September 2008, EPA (DAM). **LEITRIM: HA 26 -** L. Acres, Drumshanbo (G968099), 24 July and 9 September 2008, EPA (DAM). L. Boderg, Derrycarne, north west shore (N013915), 29 July and 10 September 2008, EPA (DAM). L. Bofin, Dromod (N049894), 10 September 2008, EPA (DAM). **LONGFORD: HA 26 -** L. Forbes, Cloonard, Newtownforbes (N084821), 10 September 2008, EPA (DAM). **MAYO: HA 30 -** L. Aille, Aille, Westport (M071807), 8 August 2008, EPA (DAM). L. Mask, Toormakeady (M113702), 22 September 2008, EPA (DAM)**: HA 32 -** L. Doo, Delphi, north east shore (L834689), 22 August 2002, DAM/WM (Murray, 2005); south east shore (L844677), 25 June 2008, EPA (DAM); west shore (L833680), 25 August 2008, EPA (DAM). L. Glencullin, south west shore, Delphi (L819696), 25 August

2008, EPA (DAM). L. Feeagh, Newport (L975983), 24 July 2008, EPA (DAM). Westport L., Westport Woods Hotel, Westport (L985843), 7 May 2004, DAM/WM (DAM). Demesne garden, Westport (L990845), July 1911, PHG (Grimshaw, 1912). L. Knappabeg, Westport (M010803), 24 June 2008, EPA (DAM)**: HA 32 -** L. Knappabeg, Westport (M010803), 23 July 2008, EPA (DAM)**: HA 33 -** L. Carrowmore, Bangor Erris, Knocknascollop (F830282), 17 September 2008, EPA (DAM). Bog pools, Glenamoy (F896345), 1973, CD (Dowling and Murray, 1981)**: HA 34 -** L. More, Ballynagoraher (G115044), 29 June 2006, EPA (DAM). L. Washpool, Ballycarra (M219842), 19 June 2008, EPA (DAM)**: Clare Island -** Creggan L., Lecarrow (L689857), 21 August 2002 (Murray and Murray, 2003). **MEATH: HA 7 -** R. Boyne: Bellinter Bridge (N894625), 18 August 1968 (Murray, 1972); d/s Bellinter Bridge (N895628), 3 May 1982 (DAM); Ardsallagh, eel weir (N897630), 11 May 1982 (DAM); Stackallen Bridge (N917713), 17 August 1988, DAM (Murray, 1988). **MONAGHAN: HA 36 -** L. Summerhill, Clones (H490279), 26 April 2007, EPA (DAM). **OFFALY: HA 25 -** R. Shannon, Shannon Bridge (M967254), 15 August 1981 (Hayes, 1991). **ROSCOMMON: HA 26 -** L. Cavetown, Boyle (M832974), 17 July 2008, EPA (DAM). Grange L., Greywood, Strokestown (M938857), 28 July 2008, EPA (DAM). **WICKLOW: HA 10 -** L. Tay, Luggala (O163008), 28 July 2009, EPA (DAM).

***Phaenopsectra punctipes* (Wiedemann, 1817)**

CAVAN: HA 7 - L. Ramor, Virginia (N603871), May 1971 (Douglas, 1971). **KERRY: HA 22 -** Muckross Lake, Dundag Bay (V964858), August 1973 (Douglas and Murray, 1980). **LEITRIM: HA 35 -** L. Nabrack, Crocknagapple (G860477), 4 August 2005, JRB/MC (Murray, 2005). **MAYO: HA 32 -** "Lough near Westport" (Ballin Lough?), Westport (L990840), July 1911, PHG (Grimshaw, 1912)**: Clare Island -** Creggan L., Lecarrow (L689857), June to November 1998 and June to November 1999 (Fahy, 2002). L. Poirtin Fuinch (L706857), July and August 1999 (Fahy, 2002).

***Phaenopsectra* sp. Pe "Bala" sensu Langton and Visser, 2003 (*? punctipes*)**

CLARE: HA 25 - L. Alewnaghta, Whitegate, west shore (R758908), 16 July 2009, EPA (DAM). **CORK: HA 20 -** R. Ilen, Hollybrook (W117363), 24 August 1983, BPH (Murray, 1996). R. Ovane, Pierson's Bridge (W023454), 24 August 1983, BPH (Murray, 1996). **DONEGAL: HA 38 -** L. Veagh, Boathouse near Castle, Glenveagh (C022211), 21 July 2009, EPA (DAM)**: HA 39 -** L. Akibbon, Church Hill (C068184), 9 September 2009, EPA (DAM). R. Leannan, Drumaboden (C165218), 12 August 1982 and Claragh (C197210), 13 August 1982, BPH (Murray, 1996). **GALWAY: HA 30 -** L. Anillaun, Maam Cross (L980470), 5 September 2007, EPA (DAM)**: HA 32 -** L. Pollacappul, Kylemore (L754582), 9 July 2007, EPA (DAM).

KERRY: HA 21 - L. Brin, Derreeny (V780775), 13 July and 10 September 2008, EPA (DAM)**: HA 22 -** Muckross Lake, Muckross, Killarney (V950853), 24 April 2008, EPA (DAM)**: HA 23 -** L. Cam, Castlegregory (Q597079), 25 June 2008, EPA (DAM). **MAYO: HA 34 -** L. Washpool, Ballycarra (M219842), 25 September 2008, EPA (DAM).

***Polypedilum* (*Pentapedilum*) *sordens* (van der Wulp, 1875)**

ANTRIM: HA 3 - L. Neagh, Churchtown Point (J056852), 22 May 2011, PHL (PHL) **ANTRIM: HA 4 -** fire dam, Black Hill (D121297), 2 July 2000 (Langton, 2002)**: Rathlin Island -** L. Nachiule (D160521), 24 July 2000 (Langton, 2002). **ARMAGH: HA 6 -** L. Camlough, Camlough, Newry (J024258), 16 August 2011 (PHL). **CAVAN: HA 7 -** L. Drumkeery, Baileborough (H663002), 16 July 2007, EPA (DAM)**: HA 36 -** Glasshouse L., Killashandra (H270060), 18 July 2007, EPA (DAM). L. Garty, Arvagh (N278978), 18 July 2007, EPA (DAM). **CLARE: HA 25 -** L. Graney, Doorus, west shore (R556930), 8 June 2006, EPA (DAM). L. Alewnaghta, Whitegate, west shore (R758908), 16 July 2009, EPA (DAM)**: HA 27 -** L. Cullaun, Corrofin, mid east shore (R317905), 7 June 2006, EPA (PHL). L. Dromore, Ruan, Corrofin, mid basin (R352864), 16 June 2009 and west basin (R345858), 21 July 2009, EPA (DAM). L. Gortglass, Killadysert, south shore (R223596), 7 July 2009, EPA (DAM). L. Inchicronan, West Basin, Crusheen (R391860), 9 July 2009, EPA (DAM). L. Rosroe, Newmarket on Fergus, south east shore (R442681), 12 August and 16 September 2009, EPA (DAM)**: HA 28 -** L. Acrow, Lisscasey (R193687), 8 June and 7 July 2006, EPA (DAM). L. Doo, Milltown Malbay, north west shore (R113722), 11 June and 15 September 2009, EPA (DAM). L. Keagh, Milltown Malbay, north shore (R100813), 11 June and 15 September 2009 also south west shore (R100811), 8 July 2009, EPA (DAM). L. Lickeen, west shore, Kilfenora (R164908), 15 September 2009, EPA (DAM). L. Naminna, Boolteagh (R179708), 11 June and 15 September 2009, EPA (DAM)**: HA 29 -** L. Skeardeen, Kilcorkan (R388991), 17 June 2009, EPA (DAM). **CORK: HA 19 -** Carrigdroihid Reservoir, Ashton (W360703), 16 September 2008, EPA (DAM). Iniscarra Reservoir, Coachford (W477717), 28 and 31 July and 16 September 2008, EPA (DAM). L. Aderry, Castlemartyr (W935730), 3 September 1969, NH (Bracken and Murray, 1973)**: HA 20 -** L. Abisdealy, Skibbereen (W136314), 30 July and 17 September 2008, EPA (DAM). L. Ballin, Leap (W199389), 21 August and 17 September 2008, EPA (DAM). L. Coolkllure, Dunmanway (W177539), 11 August and 16 September 2008, EPA (DAM). L. Skeagh (Schull Reservoir), Schull (V937338), 27 August and 17 September 2008, EPA (DAM). L. Tooreen, Crookhaven (V790259), 17 September 2008, EPA (DAM)**: HA 21 -** L. Avaul, Glengarrif (V910553), 16 September 1969 and L. Reenydonegan, Bantry (W000515), 17 July 1969, NH (Bracken and Murray, 1973). **DERRY: HA 1 -** inflow to Upper Reservoir, Creggan, Derry (C413171), 10 May 2001 (PHL)**: HA 2 -** Binevenagh pond, Coleraine

(C691305), 18 May 2000 (Langton, 2002)**: HA 3 -** R. Bann, Coleraine (C855304), 25 May 2000 (PHL). Coleraine (C855308), 4 May 2008 (PHL). Pond 1, Magherafelt Golf Course, Traad Point (H950873), 10 May 2000 (Langton, 2002). **DONEGAL: HA 36 -** L. Tullynasiddagh, Ballyshannon (G983656), 7 September 2009, EPA (DAM)**: HA 38 -** L. Mulladerg, The Rosses (B775199), 19 July 2000 (Langton, 2002). L. Nasnahida, Doocharry, Dunglow (B852076), 6 August 2009, EPA (DAM). L. Veagh, north east shore, Glenveagh (C039231), 24 July 1985 (Heneghan, 1986). L. Glen, Glen (C105292), 16 June 2009, EPA (DAM). L. Greenan, Loughsalt, Kilmacrennan (C117262), 8 September 2009, EPA (DAM). L. Keel, Kilmacrennan (C158243), 16 July 2009, EPA (DAM). L. Kinny, Fanad (C204442), 9 September 2009, EPA (DAM). L. Voriskey, The Rosses (B762176), 19 July 2000 (Langton, 2002)**: HA 39 -** R. Leannan, Drumaboden (C165218), 12 August 1982 (Hayes, 1991). L. Fern, Milford (C182247), 18 August 2011 (PHL). Inch Island impoundment, Inch (C346240), 18 August 2011 (PHL). **DUBLIN: HA 9 -** lake in Zoological Gardens, Dublin (O130350), 17 July 1987, DAM/RH (Murray *et al*., 1987). **FERMANAGH: HA 36 -** L. Erne Upper, Crom Castle, Newtownbutler (H357244) and slipway (H362242), 27 June 2000; L. Inver, Rosslea (H518314), 28 June 2000; L. Macnean, upper, Belcoo (H042403), 29 June 2000; L. Nolughage, Crom Castle, Newtownbutler (H364243), 27 June 2000, all PHL (Langton, 2002). Toppedmountain L., Tempo, Enniskillen (H310453), 16 August 2011 (PHL). **GALWAY: HA 30 -** L. Anillaun, Maam Cross (L980470), 8 June and 1 August 2007, EPA (DAM). L. Ballyquirke, Moycullen (M232317), 8 August 2007, EPA (DAM). L. Bofin, Maam Cross (M034441), 7 June and 31 July 2007, EPA (DAM). L. Ross, Moycullen (M200363), 25 May 2003 (PHL)**: HA 31 -** L. Anaserd, Ballyconneely (L605443), 20 June and 10 July 2006, EPA (DAM). L. Ballynakill, Gorumna (L867236), 8 August 2006, EPA (DAM). L. Illauntrasna, Glentrasna, Garomna (L888254), 6 June, 25 July and 12 September 2007, EPA (DAM). L. Nahasleam, Maam Cross South (L972440), 12 September 2006, EPA (DAM). **KERRY: HA 21 -** L. Cloonaghlin, Waterville (V611708), 24 July 2008, EPA (DAM). L. Inchiquin, Kenmare (V837629), 18 June and 1 September 2008, EPA (DAM)**: HA 22 -** L. Acoose, Slievanore, Killorglan (V755854), 9 September 2008, EPA (DAM). L. Guitane, Crohane, Killarney (W025846), 14 October 1973, (Douglas and Murray, 1980). L. Kilbrean, Killarney (W005935), 16 September 1969, NH (Bracken and Murray, 1973). L. Leane, Killarney: Juniper Bay (V949863), 11 June 1973; Brickeen (V937850), 3 July 1973, Castlelough Bay, north shore (V966866), 27 June and 30 July 1973, all Douglas and Murray (1980); Muckross Boathouse (V965866), 29 September 1987, NOM (Murray, 2005). Muckross Lake, Coleen Bawn (V950857) and Dundag Bay (V964858), May to July 1973 (Douglas and Murray, 1980). Upper Lake, Killarney (V909821), 17 July 2008, EPA (DAM). **KILKENNY: HA 15 -** R. Nore, Ballyragget (S445707), 28 August 1981 (Hayes, 1991). **LONGFORD: HA 26 -** L. Ree, Bleanavoher (N069445), 25 April and 13 June

2007, EPA (DAM). **ROSCOMMON: HA 26 -** L. Ree, Yew Point, Barley Harbour (N018485), 13 June and 10 September 2007, EPA (DAM). **LOUTH: HA 6 -** L. Mentrim, Ardee (N913879), 27 June 2005, DAM/WM (DAM). **MAYO: HA 26 -** L. Nanoge, Urlaur (M506903), 18 June 2008, EPA (DAM)**: HA 30 -** L. Aille, Aille, Westport (M071807), 24 June and 8 August 2008, EPA (DAM). L. Mask, Toormakeady (M113702), 24 June 2008, EPA (DAM)**: HA 32 -** L. Doo, Delphi, west shore (L833680), 25 August 2008, EPA (DAM). L. Glencullin, Delphi, north west shore (L815699), 26 June 2008 and south west shore (L819696), 25 August 2008, EPA (DAM). R. Owenwee, Belclare, Westport (L960820), July 1911, PHG (Grimshaw, 1912). "Lough near Westport" (Ballin L.?), Westport (L990840), July 1911, PHG (Grimshaw, 1912). L. Ballin, Westport, north shore (L996882), 25 June and 18 September 2008, EPA (DAM). L. Knappabeg, Westport (M010803), 23 July 2008, EPA (DAM)**: HA 34 -** L. Lannagh, Castlebar (M105880), 30 June 2008, EPA (DAM). L. Levally, Massbrook (G146043), 23 July 2008, EPA (DAM). L. Washpool, Ballycarra (M219842), 15 August 2008, EPA (DAM)**: Clare Island -** L. Leinapollbauty, Lecarrow (L691856), 5 June 2002 and Creggan L., Lecarrow (L689857), 21 August 2002 (Murray and Murray, 2003). **MONAGHAN: HA 36 -** L. Inner, Dartery, Drum (H625173), 6 June 2007, EPA (DAM). Summerhill L., Magheraveely (H490280), 28 June 2000 (Langton, 2002). **OFFALY: HA 25 -** R. Shannon, Shannon Bridge (M967254), 15 August 1981 (Hayes, 1991). **ROSCOMMON: HA 26 -** R. Suck, Ballyforan (M817464), 16 July 1981 (Hayes, 1991). L. Cavetown, Boyle (M832974), 11 June 2008, EPA (DAM). L. Glinn, Loughglinn, Castlerea (M629870), 12 June and 9 September 2008, EPA (DAM). L. O'Flynn, Ballinlough (M585786), 12 June 2008, EPA (DAM). **TIPPERARY: HA 18 -** Black L., Arra Mountains (R738771), 10 August 2005, JRB (DAM). **TYRONE: HA 1 -** L. Moor, Altishane, Strabane (H446984) and R. Glenelly, Crannagh Bridge, Crannagh (H594926), 17 August 2011 (PHL)**: HA 3 -** R. Ballinderry, Ballinderry Bridge (H928798), 10 May 2000 (Langton, 2002). **WATERFORD: HA 16 -** L. Ballyscanlan (Reservoir), Tramore (S540030), 1 September 2009, EPA (DAM). L. Ballyshunnock (Reservoir), Portlaw (S455095), 2 September 2009, EPA (DAM)**: HA 17 -** Belle Lake, Dunmore East (S665049), 2 July 2009, EPA (DAM). **WESTMEATH: HA 25 -** L. Owel, Mullingar (N421566), 14 August 1973, NH (DAM). L. Ennell, Tudenham (N415466), 1981 (Forde, 1985). **WEXFORD: HA 12 -** R. Slaney, Edernline Bridge (S977345), 29 July 1981 (Hayes, 1991). **WICKLOW: HA 10 -** R. Glencullen, Glencullen Bridge (O195193), Clabby and Bracken (1976) - as *Pentapedilum* sp. (DAM).

***Polypedilum* (*Pentapedilum*) sp. *tritum*/*uncinatum* (Pe)**

ANTRIM: Rathlin Island - pool 1 (D163521) and pool 2 (D164520), east of lighthouse; L. Craigmacagan (D154498); long pool (D148521) and Nature Reserve lough (D095505), 24 July 2000, Langton (2002). **MAYO: Clare Island -** first order stream, west of Maum road,

(L711861), 5 June 2002 (Murray and Murray, 2003).

***Polypedilum* (*Pentapedilum*) *tritum* (Walker, 1856)**
CLARE: HA 25 - L. Graney, Doorus (R557924), 11 August 2009, EPA (DAM). **CORK: HA 19 -** L. Gouganebarra, Inchegeelagh (W009060), 18 August 1966 and 27 July 1968 (Murray, 1972)**: HA 21 -** L. Avaul, Glengarriff (V910553), 27 July 1968 (Murray, 1972). **DUBLIN: HA 9 -** lake 1 (O129353), 15 May 1987 and lake 2 (O130350), 17 July 1983 in Zoological Gardens, Dublin (Murray *et al*., 1987; Murray, 2005). **GALWAY: HA 30 -** L. Anillaun, Maam Cross (L980470), 8 June 2007, EPA (DAM). **KERRY: HA 22 -** L. Leane, Killarney, Muckross Boathouse (V965866), 29 August 1987, NOM (DAM). Muckross Lake, Killarney, Coleen Bawn (V950857), July 1973 (Douglas and Murray, 1980). **LEITRIM: HA 26 -** L. Natire, north of L. Allen (G966340), 14 April 2005, JRB (DAM). **MAYO: HA 32 -** R. Altahoney, Newport (F950050), 1968-1971, EF (Fahy and Murray, 1972)**: HA 33 -** bog pool, Achill Island (F712008), 5 August 2004, DAM/WM (DAM)**: Clare Island -** wetland, Ballytouhy (L696882) and pond east of Maum road (L710863), 20 August 2002 also Creggan L., Lecarrow (L689857), pond east of Signal Tower (L658859) and humic pond, Bunnamohaun (L659846), 21 August 2002, all Murray and Murray (2003). **WESTMEATH: HA 25 -** L. Owel, Mullingar (N421566), July 1973, NH (Hayes, 1980). **WICKLOW: HA 10 -** Vartry Reservoir, south east shore, Roundwood (O214002), 13 August 1983, HD (DAM).

***Polypedilum* (*Pentapedilum*) *uncinatum* (Goetghebuer, 1921)**
DONEGAL: HA 1 - L. Finn, Fintown, Glenties (B911018), 9 June 2009, EPA (DAM). **GALWAY: HA 32 -** L. Fadda, Beaghcauneen (L668455), 17 July 2007, EPA (DAM). **KERRY: HA 21 -** L. Namona, Waterville (V596711), 19 June 2008, EPA (DAM).

***Polypedilum* (*Polypedilum*) *acutum* Kieffer, 1915**
DUBLIN: HA 9 - R. Dodder, Fort Bridge, Bohernabreena (O009242), 1 May 1967 (Murray, 1972). **KERRY: HA 22 -** Doo L., Muckross Penninsula (V949860), 3 July 1973 (Douglas and Murray, 1980). L. Leane, Killarney, Castlelough Bay, north shore (V966866), 14 July 1973 (Douglas and Murray, 1980). Muckross Lake, Killarney, Dundag Bay (V964858), July and August 1973 (Douglas and Murray, 1980). **MAYO: HA 32 -** R. Altahoney, Newport (F950050), 1968-1971, EF (Fahy and Murray, 1972)**: Clare Island -** Creggan L., Lecarrow (L689857), June to September 1998 and June to September 1999 (Fahy, 2002). L. Poirtin Fuinch (L706857), 6 July 1998, SF (Fahy, 2002). **WESTMEATH: HA 25 -** L. Owel, Mullingar (N421566), June 1973, NH (Hayes, 1980).

***Polypedilum* (*Polypedilum*) *albicorne* (Meigen, 1838)**

ANTRIM: HA 3 - R. Sixmilewater, Templepatrick (J227867), 4 May 1999 (PHL)**: HA 4 -** R. Bush, Conogher Bridge (C963305), 10 September 2000 (Langton, 2002). R. Glendun, Drumfresky, Cushendun (D193308), 2 July 2000 and R. Glenariff (Inver/Glenarif), Cushendall (D215205), 2 July 2000 (Langton, 2002). R. Glenaan, Cushendall (D218288), 17 September 2011 (PHL)**: HA 5 -** Raloo Water, Glenoe, Larne (J394967), 8 May 1999 (PHL). **CAVAN: HA 36 -** R. Erne, Dingin's Bridge (N331948), 27 August 1982 (Hayes, 1991); R. Erne, Kilsarin (N362910) and Carrigan (N391935), 27 August 1982 (Hayes, 1991). **CORK: HA 18 -** R. Blackwater: Ballymacquirk Bridge, Banteer (W382989) and Roskeen Bridge, Banteer (W444988), 1 September 1981; Knocknagree (W159975), Duncannon (W180931), Charles Bridge, Millstreet (W248943) and Keale Bridge, Millstreet (W294936), 2 September 1981 all BPH (Hayes, 1991)**: HA 20 -** R. Ilen, Drimoleague (W098454), Madore (W103419) and Hollybrook (W117363), 24 August 1983, all BPH (Hayes, 1991). R. Ovane, Pierson's Bridge (W023454), 24 August 1983 (Hayes, 1991). **DERRY: HA 1 -** Upper Reservoir, Creggan, Derry (C417173), 10 May 2001 (PHL). Pool near Reservoir, Creggan, Derry (C414171), 18 May 2001 and 17 May 2002 (PHL). Inflow to Upper Reservoir, Creggan, Derry (C413171), 10 and 18 May 2001 (PHL)**: HA 2 -** R. Ballykelly, Clagan (C628209) and Ballykelly (C623211), 9 June 2000; R. Owenbeg, Feeny picnic area, Feeny (C645058), 26 June 2000 and R. Roe, Largy Bridge, Limavaddy (C681202), 14 July 2000, all PHL (Langton, 2002)**: HA 3 -** R. Agivey, Garvagh (C838154), 30 May 2002 (PHL). Garvagh House Wood, Garvagh (C837154), 21 July 2002 (PHL). R. Bann, Coleraine (C855304): 20 May, 18 and 23 June, 3 July 1999 also 3 July 2000, all PHL. R. Agivey, Glascort Bridge (C907226), 16 July 2000 (Langton, 2002). R. Moyola, New Bridge, Magherafelt (H955905), 7 May 2001 (PHL). **DONEGAL: HA 1 -** R. Deele, Legland, Raphoe (C136028), 19 July 2000 (Langton, 2002)**: HA 37 -** R. Eanymore, Letterbara Bridge (G883825) and Drumagraa Bridge (G863822), 10 August 1982 (Hayes, 1991). R. Oily, Claggen (G751803), 8 August 1982 (Hayes, 1991). R. Stragar, Duninkeely (G727792), 10 August 1982 (Hayes, 1991)**: HA 38 -** R. Devlin, Dunlewy (B927190), 19 July 2000 (Langton, 2002). Owennacally stream, Glenveagh (C043226), 19 July 2000 (Langton, 2002)**: HA 39 -** R. Swilly, Newmills, Letterkenny (C125092), 18 July 2000 (Langton, 2002). R. Leannan, Claragh (C197210), 13 August 1982 (Hayes, 1991)**: HA 40 -** R. Keenagh: Hugh Roe's Bridge, Umgall (C454543), 16 August 1982 (Hayes, 1991); Keenagh Bridge, Malin Head (C435555), 18 August 2011 (PHL). **DUBLIN: HA 9 -** R. Dodder, Bohernabreena aqueduct 1 (O101208), 3 July 1968 (Murray, 1972). **FERMANAGH: HA 35 -** Glen R., Garrison (G943522), 29 June 2000 (Langton, 2002)**: HA 36 -** R. Colebrook, Mullaghfad (H510408), 4 June 1997 (PHL). **GALWAY: HA 30 -** L. Ross, Moycullen (M200363), 25 May 2003 (PHL). Stream at lay-by picnic site on road N59, Moycullen (M204326), 25 May 2003 (PHL). R.

Loughkip, Ballyquirk, Moycullen (M224313), 17 August 1981 (Hayes, 1991). R. Owenriff, Oughterard (M112426), 25 May 2003 (PHL). **KERRY: HA 21 -** R. Inny, u/s Waterville (V525704), 24 August 1983 (Hayes, 1991)**: HA 22 -** L. Leane, Killarney, Brickeen (V937850), 3 July 1973 (Douglas and Murray, 1980) and Muckross Boathouse (V965866), 6 September 1987, NOM (Murray, 2005). R. Annascaul, Annascaul (Q593017), 2 July 1981, BPH (Hayes, 1991; Murray, 2005). R. Flesk, d/s Whitebridge (V987900), July 1978 (Ashe, 1982). **KILKENNY: HA 15 -** R. Nore, Norelands Bridge (S547436), 28 August 1981 (Hayes, 1991). **LAOIS: HA 15 -** R. Nore: Castletown Bridge (S326930), Kilbricken (S362898) and Shanahoe Bridge (S407858), 27 August 1981, BPH (all Hayes, 1991). **LIMERICK: HA 25 -** R. Mulkear, Cappamore (R775514) and d/s Cappamore (R779504), 8 September 1981 (Hayes, 1991). **MAYO: HA 30 -** L. Mask, Toormakeady, west shore (M097647), 14 April 2008, EPA (DAM)**: HA 33 -** R. Glenlassra, Belderg (G023407), 19 August 1983 (Hayes, 1991)**: HA 34 -** R. Moy, Bellanacurra (G403047), 29 August 1982 (Hayes, 1991). **SLIGO: HA 34 -** R. Moy, Carrowneden (G530205), Cloonacool (G493168), Metal Bridge, Tobercurry (G464138) and Annagh (G466123), 30 August 1982, all BPH (Hayes, 1991). **TYRONE: HA 1 -** Dennet Stream, Essbeg Bridge, Lisnaskee (H384306), 27 June 2000 (Langton, 2002)**: HA 3 -** R. Ballinderry, Ballinderry Bridge (H928798), 10 May 2000 (Langton, 2002). **WICKLOW: HA 10 -** R. Glencullen, Knocksink (O218180), 18 May 1987, DEM/DAM (Morgan, 1989). R. Avonmore, Castlehoward (T190833) and R. Avoca, Whitebridge, Tigroney (T198821), 4 August 1983 (Hayes, 1991)**: HA 12 -** R. Slaney, Knockgarrigan, Glen of Imail (S936937), 28 July 1981 (Hayes, 1991).

***Polypedilum* (*Polypedilum*) *arundineti* (Goetghebuer, 1921)**

ANTRIM: Rathlin Island - pool 2, east of lighthouse (D164520), 24 July 2000 (Langton, 2002). Outflow stream from L. Craigmacagan (D153496), 5 July 2004 (PHL). **CORK: HA 20 -** L. Ballin, Leap (W199389), 21 August 2008, EPA (DAM). **DERRY: HA 3 -** bog pool, Glenullin, Garvagh (C795132), 29 June 2008 (PHL). **KERRY: HA 22 -** L. Leane, Killarney, Juniper Bay (V949863), 27 July 1973 (Douglas and Murray, 1980). **MAYO: HA 33** – bog pool, Achill Island (F712008), 5 August 2004, DAM/WM (DAM)**: Clare Island -** Creggan L., Lecarrow (L689857), June to September 1998 and June to September 1999 (Fahy, 2002).

***Polypedilum* (*Polypedilum*) *laetum* (Meigen, 1818)**

ANTRIM: HA 3 - L. Neagh, Antrim Bay (J135866), 22 August 2001 (PHL). Pond, Templepatrick (J232856), 26 August 2008 (PHL). Reservoir, Killylane, Magherabane, Larne (J292985), 8 May 1999 (PHL). **CARLOW: HA 12 -** R. Slaney, Motabower Bridge (S832778), 28 July 1981 (Hayes, 1991). **CORK: HA 20 -** R. Ilen, Drimoleague (W098454), 24 August

1983 (Hayes, 1991). **DERRY: HA 1 -** pool near Reservoir, Creggan, Derry (C414171), 17 May 2002 (PHL)**: HA 3 -** Downhill Lake, Bishops Gate, Coleraine (C762361), 21 August 2001 (PHL). R. Macosquin, Black Bridge, Ballylintagh (C854256), 26 May 2000 (Langton, 2002). R. Bann, Coleraine (C855304): 5 May and 7 September 1999 also 31 May 2000 (PHL). R. Moyola, New Bridge, Magherafelt (H955905), 4 July 2000 (Langton, 2002). **DONEGAL: HA 37 -** R. Eany, d/s Eanybeg confluence (G842815), 10 August 1982 (Hayes, 1991)**: HA 38 -** L. Nacung Upper, Dunlewy (B904191), 19 July 2000 (Langton, 2002). L. An tSeisigh, Portnablagh, Sheephaven (C043361), 16 June 2009, EPA (DAM). **DOWN: HA 3 -** R. Leitrim, Leitrim Bridge, Hilltown (J217285), 13 August 1998, LMcL (PHL). Upper R. Bann, Katesbridge (J210407), 27 August 1998, LMcL (PHL). **DUBLIN: HA 9 -** R. Dodder, Clonskeagh Bridge (O174306), 8 March 1967 (Murray, 1972). **GALWAY: HA 25 -** R. Woodford, Woodford (M732000), 24 May 2003 (PHL). **TYRONE: HA 3 -** R. Ballinderry, Ballinderry Bridge (H928798), 10 May 2000 (Langton, 2002). **WEXFORD: HA 12 -** R. Boro, Dunamore Bridge, Enniscorthy (S963366), 29 July 1981, BPH (Hayes, 1991; Murray, 2005). **WICKLOW: HA 10 -** R. Glencullen, Knocksink (O218180), 18 May 1987, DEM/DAM (Morgan, 1989).

***Polypedilum* (*Polypedilum*) *nubeculosum* (Meigen, 1804)**

ANTRIM: HA 3 - L. Neagh, Churchtown Point (J056852), 22 May 2011 (PHL). Reservoir, Killylane, Magherabane, Larne (J292985), 8 May 1999 (PHL)**: HA 4 -** pond, Benvarden Garden (C946334), 15 May 2005 (PHL)**: HA 5 -** L. Mourne, Copeland water, Carrickfergus (J415924), 8 May 1999 (PHL). **CORK: HA 19 -** Carrigdroihid Reservoir, Ashton (W360703), 3 April and 14 August 2008, EPA (DAM). Iniscarra Reservoir, Coachford (W477717), 16 September 2008, EPA (DAM). L. Aderry, Castlemartyr (W935730), 21 May 1969, NH (Bracken and Murray, 1973)**: HA 20 -** L. Abisdealy, Skibbereen (W136314), 9 April 2008, EPA (DAM). L. Curraghalicky, Drinagh, Dunmanway (W234046), 9 April, 17 June and 12 August 2008, EPA (DAM). L. Skeagh (Schull Reservoir), Schull (V937338), 27 August 2008, EPA (DAM). R. Ovane, Pierson's Bridge (W023454), 24 August 1983 (Hayes, 1991). **DERRY: HA 1 -** Upper Reservoir, Creggan, Derry (C417173), 10 June 2000 and 17 May 2002 (PHL). Pool near Reservoir, Creggan, Derry (C414171), 18 May 2001 (PHL)**: HA 2 -** pool at Roe Valley Park, Limavady (C679201), 14 July 2000 (Langton, 2002)**: HA 3 -** Howell's Tarn, Ballywildrick, Coleraine (C766325), 7 and 21 April 2002 (PHL). Downhill Lake, Bishops Gate, Coleraine (C762361), 18 May 2000 (PHL). R. Bann, Coleraine (C855304): 5 and 31 May, 23 June, 3 July 1999; 3 and 25 May, 24 June and 3 July 2000 also 25 April 2010, all PHL. L. Neagh (H9080): no date (McLarnon and Carter, 2000); Ballyronan (H948862), 17 May 2001 and 22 May 2011 (PHL). **DONEGAL: HA 38 -** L. Fallaneas, Kindrum (C173424), 16 June 2009, EPA (DAM). L. Voriskey, The Rosses (B762176), 19 July 2000 (Langton, 2002)**: HA 39 -** L. Akibbon,

Church Hill (C068184), 11 June 2009, EPA (DAM). L. Swilly, Newtown Cunningham, stagnant drain (C311197), 21 June 2000 (Langton, 2002). Inch Island impoundment, Inch (C346240), 18 August 2011 (PHL)**: HA 40 -** bog pool, Rowantree Hill, Moville (C551401), 18 August 2011 (PHL). **DUBLIN: HA 9 -** Royal Canal, Ashtown (O108378), 15 July 1968 (Murray, 1972). Bog pool, Featherbed (O120190), 1974, CD (Dowling and Murray, 1981). **FERMANAGH: HA 36 -** Dummys L., Magheraveely (H488276), 28 June 2000; L. Erne Upper, Crom Castle, Newtownbutler (H357244), 27 June 2000; L. Macnean, lower, Belcoo (H085384), 29 June 2000, all PHL (Langton, 2002). Toppedmountain L., Tempo, Enniskillen (H310453), 16 August 2011 (PHL). **GALWAY: HA 25 -** L. Derg, Woodford (M794964), 23 May 2003 (PHL)**: HA 26 -** R. Shiven, d/s Ballinaglass (M788494), 29 July 1981 (Hayes, 1991). R.Tirur, Newbridge (M492699), 16 August 1981, BPH (Hayes, 1991; Murray, 2005)**: HA 29 -** L. Caherglassaun, Gort (M412061), 12 April 2007, EPA (DAM). L. Coole, Gort (M425037), 27 July 2009, EPA (DAM)**: HA 30 -** L. Corrib (M1545), 1980, BC (DAM)**: HA 31 -** L. Ahalia, Maam Cross, north east shore (L971402), 22 April and 23 September 2009, EPA (DAM). L. Ballynakill, Gorumna (L867236), 15 May 2006, EPA (DAM)**: HA 32 -** R. Owenglin, Clifden (L677506), 18 August 1981 (Hayes, 1991). **KERRY: HA 22 -** L. Leane, Killarney, Juniper Bay (V949863), 27 July 1973 (Douglas and Murray, 1980). R. Flesk: Garries Bridge (W082835), July to October 1978; u/s L. Leane (V964894), July to October 1978; R. Flesk, d/s New Bridge (V963885), July to October 1978 all PJA (Ashe, 1982). R. Loo, Aughnanus Bridge, Crohane (W045790), July to October 1978 (Ashe, 1982). Upper Lake, Killarney, Gortroe (V918818), 31 July 1973 (Murray, 2005). **KILDARE: HA 9 -** R. Liffey, Sallins (N881245), 17 July 1983 and Straffan Bridge (N924293), 15 July 1983 (Hayes, 1991). **LEITRIM: HA 26 -** L. Rinn, Mohill (N095943), 10 September 2008, EPA (DAM). **MAYO: HA 32 -** L. Glencullin, Delphi, south west shore (L819696), 25 August 2008, EPA (DAM). R. Carrobeg, Westport Demesne riverside (L990845), July 1911, PHG (Grimshaw, 1912). L. Knappabeg, Westport (M010803), 21 April, 23 July and 18 September 2008, EPA (DAM)**: HA 33 -** bog pools, Glenamoy (F896345), 1973, CD (Dowling and Murray, 1981)**: HA 34 -** R. Moy, Bellanacurra (G403047), 29 August 1982 (Hayes, 1991). **MEATH: HA 7 -** R. Boyne: Scarrif Bridge (N733527) and Newtown, Trim (N815571), 9 July 1981 (Hayes, 1991); Ardsallagh, at St Bridget's Well (N897635), 7 July 1988 (Murray, 1988); Stackallen Bridge (N917713); Slane Bridge (N965737); Knowth Weir (N995720) and d/s Oldbridge (O062753), all 19 July 1989, all DAM. **MONAGHAN: HA 36 -** Kilroosky L., Clones (H494274) and Summerhill L., Magheraveely (H490280), 28 June 2000 (Langton, 2002). **OFFALY: HA 25 -** R. Little Brosna, Sharavogue (S056953), 2 September 1982 (Hayes, 1991). **ROSCOMMON: HA 26 -** R. Suck, Newtown (M844346), 15 August 1981 (Hayes, 1991). L. Cavetown, Boyle (M832974), 11 June 2008, EPA (DAM). L. Glinn, Loughglinn, Castlerea (M629870), 12 June 2008, EPA (DAM). **TIPPERARY: HA 16 -**

Brownstown R., Kilclonagh (S167655); R. Drish, Castletown (S207634) and R. Suir, Cabragh (S124562), all 6 July 1992, all Murray and Lynch (1992)**: HA 25 -** L. Derg, Dromineer (M809858), 17 June 2009, EPA (DAM). **WATERFORD: HA 16 -** Ballyscanlan Reservoir, Tramore (S540030), 22 April 2009, EPA (DAM)**: HA 17 -** Belle Lake, Dunmore East (S665049), 2 July 2009, EPA (DAM). L. Carrigavantry, Tramore (S548022), 21 April 2009, EPA (DAM). **WICKLOW: HA 12 -** R. Derry, Balisland (S978645) and R. Slaney, Kilmurray (S889856), 28 July 1981 (Hayes, 1991).

***Polypedilum* (*Polypedilum*) *pedestre* (Meigen, 1830)**

ANTRIM: HA 4 - R. Bush, Ballyhoe Bridge (D077294) and R. Glenariff (Inver/Glenarif), Cushendall (D215205), 2 July 2000 (Langton, 2002). **CORK: HA 19 -** L. Gouganebarra, Inchegeela (W009060)**,** 6 June 1966 (Murray, 1972 as *Microtendipes fuscipennis* Meigen)**: HA 20 -** R. Ilen, Drimoleague (W098454), 28 April 1983, BPH (Hayes, 1991; Murray, 2005). **DERRY: HA 3 -** Downhill beach stream, Coleraine (C754326), 9 June 2000 (Langton, 2002). Downhill Forest lake, Coleraine (C757353), 24 March 2002 (PHL). R. Macosquin, Black Bridge, Ballylintagh (C854256), 26 May 2000 (Langton, 2002). R. Bann, Coleraine (C855304), 7, 16 and 24 June 2000 (PHL). L. Neagh (H9080), no date (McLarnon and Carter, 2000). R. Moyola, New Bridge, Magherafelt (H955905), 7 May 2001 (PHL). **DONEGAL: HA 37 -** R. Eany, d/s Eanybeg confluence (G842815), 10 August 1982 (Hayes, 1991). **FERMANAGH: HA 35 -** Glen R., Garrison (G943522), 29 June 2000 (Langton, 2002)**: HA 36 -** L. Erne, Lower, Black Bay (H072639), 27 April 2002 (PHL). R. Hollybrook, Lisnaskea (H373310), 27 June 2000 (Langton, 2002). **GALWAY: HA 30 -** L. Corrib, Derrenmeel (M150450), 27 June 1980, BC (DAM)**: HA 32 -** R. Dawros, Tullywee Bridge, Letterfrack (L730586), 18 August 1981 (Hayes, 1991); CNP, Stream near Park Centre (L716573), LJH (DAM). **KERRY: HA 18 -** R. Blackwater, Lacknastooka (R153008), 2 September 1981 (Hayes, 1991)**: HA 22 -** R. Flesk, u/s Newbridge (V978900), 4 May 1973 (Douglas and Murray, 1980). R. Flesk, u/s New Bridge (Bridgeview), Killarney (V973895), August 1974 DJD/DAM (Ashe, 1982). **KILDARE: HA 9 -** R. Liffey, Sallins (N881245), 17 July 1983 (Hayes, 1991). **MAYO: HA 34 -** L. Conn, West shore, Errew (G167118), April 1966, AJOS (Murray, 1972 as *Microtendipes fuscipennis* Meigen)**: Clare Island -** Creggan L., Lecarrow (L689857), July to September 1998 and July to September 1999 (Fahy, 2002). L. Poirtin Fuinch (L706857), July and August 1999 (Fahy, 2002). **MEATH: HA 7 -** R. Boyne, Bellinter Bridge (N894625), 16 June 1974 (Murray, 2005) and Ardsallagh, at St Bridget's Well (N897635), 7 July 1988 (Murray, 1988). **ROSCOMMON: HA 26 -** R. Suck, Castlecoote (M809627), 16 July 1981 (Hayes, 1991). **SLIGO: HA 34 -** R. Moy, Cloonacool (G493168) and Metal Bridge, Tobercurry (G464138), 30 August 1982 (Hayes, 1991). **TIPPERARY: HA 16 -** Brownstown R., Kilclonagh (S167655) and R. Drish,

Castletown (S207634), 6 July 1992 (Murray and Lynch, 1992). **TYRONE: HA 3 -** R. Ballinderry, Ballinderry Bridge (H928798), 10 May 2000 (Langton, 2002). **WATERFORD: HA 18 -** R. Blackwater, Ballyduff (W964992) and Lismore (X047988), 31 August 1981 (Hayes, 1991). **WICKLOW: HA 10 -** R. Glencullen, Knocksink (O218180), 18 May 1987, DEM/DAM (Morgan, 1989). R. Avonbeg, Meetings Bridge (T188831), 11 July and 27 October 1997 (Curran, 2001). R. Avonmore, Lion Arch Bridge (T194833), 11 July 1997, FC (Curran, 2001). R. Avoca, Whitebridge, Tigroney (T198821) 11 July 1997; Avoca Village (T203802), 11 July 1997, FC (all Curran and Murray, 2001) and October 1997, FC (Curran, 2001).

***Polypedilum* (*Tripodura*) *aegyptium* Kieffer, 1925**

CLARE: HA 27 - L. Bridget, Derrymore, Badyke, north basin (R563803), 12 June 2009, EPA (DAM). **FERMANAGH: HA 35 -** L. Melvin, Garrison (G938518), 29 June 2000 (Langton, 2002). **KERRY: HA 22 -** Muckross Lake, Muckross, Killarney (V950853), 16 July 2008, EPA (DAM).

***Polypedilum* (*Tripodura*) *bicrenatum* Kieffer, 1921**

ANTRIM: Rathlin Island - L. Ally (D154497), 24 July 2000 (Langton, 2002). **CLARE: HA 27 -** L. Muckanagh, Tubber, Corrofin (R368926), 3 July and 2 August 2006, EPA (PHL). **CORK: HA 19 -** Carrigdroihid Reservoir, Ashton (W360703), 14 August and 16 September 2008, EPA (DAM). **DONEGAL: HA 39 -** L. Akibbon, Church Hill (C068184), 11 June 2009, EPA (DAM). **DOWN: HA 5 -** L. Henney, Ballynahinch (J348586), 22 June 2000 (Langton, 2002). **DUBLIN: HA 9 -** R. Dodder, Landsdown Road Bridge (O180327), 5 April 1966 (Murray, 1972, 2005). **FERMANAGH: HA 36 -** L. Lattone, Kiltyclogher (H003456), 29 June 2000 (Langton, 2002). L. Macnean, lower, Belcoo (H085384), 29 June 2000 (Langton, 2002). **KERRY: HA 22 -** L. Leane, Killarney, Castlelough Bay, north shore (V966866), 27 June 1973, JPOC (Douglas and Murray, 1980). **MEATH: HA 7 -** R. Boyne, New Bridge, Navan (N873679), 18 August 1988 (Murray, 1988) and Ardsallagh at St Bridget's Well (N897635), 30 May 1999 (DAM). **WESTMEATH: HA 25 -** L. Ennell, Tudenham (N415466), 5 April 1966 (Murray, 1972).

***Polypedilum* (*Tripodura*) *pullum* (Zetterstedt, 1838)**

ANTRIM: HA 3 - Glenravel Water, Gartnageeragh, Newtown Crommelin (D147154), 2 July 2000 (Langton, 2002). Killylane Reservoir, Magherabane, Larne (J292985), 8 May 1999 (PHL)**:** **HA 4 -** Dungonnell Dam, Newtown Crommelin (D193170), 20 June 2000 (Langton, 2002). **CAVAN: HA 36 -** R. Erne, Kilsarin (N362910), 27 May 1982 (Hayes, 1991). **CLARE: HA 25 -** L. Graney, Doorus, west shore (R556930), 8 June 2006, EPA (DAM). L. Atorick, Feakle

(R637964), 24 May 2003, EPA (PHL)**: HA 27 -** L. Cullaun, Corrofin, mid east shore (R317905), 3 May 2006, EPA (LPR). L. Inchiquin, Corrofin, south east shore (R272894), 16 June 2009, EPA (DAM). **DERRY: HA 2 -** Binevenagh pond, Coleraine (C691305), 18 May and 16 September 2000 also 25 August 2001 (Langton, 2002). Fire dam 1, Binevenagh Forest, Coleraine (C699304), 18 May 2000 (Langton, 2002)**: HA 3 -** L. Neagh (H9080), no date (McLarnon and Carter, 2000). **DONEGAL: HA 1 -** L. Finn, Fintown, Glenties (B911018), 9 June 2009, EPA (DAM). **DONEGAL: HA 38 -** L. Scalpachore, Cruit Island (B730216), L. Altercan, The Rosses (B755158) and L. Anure, Loughanure (B817166), all 19 July 2000, all PHL (Langton, 2002). L. Anure, Loughanure, east shore (B818162), 17 June 2009, EPA (DAM). R. Gweedore, outflow from L. Anure, Crolly (B827184) and L. Dunlewy, Dunlewy (B926193), 19 July 2000 (Langton, 2002). L. Kindrum, Kindrum, Fanad (C186430), 16 June 2009, EPA (DAM)**: HA 39 -** L. Inshagh, Glenveagh (C037200), 20 May 1986, LJH (Heneghan, 1986; Murray, 2005). L. Gartan, Church Hill, north shore (C065173), 18 July 2000 (Langton, 2002)**: HA 40 -** L. Fad, Coolmany (C398428), 15 June 2009, EPA (DAM). **DUBLIN: HA 9 -** R. Dodder, Bohernabreena aqueduct (O101208), 10 June 1968 (Murray, 1972). **FERMANAGH: HA 36 -** L. Atona, Cuilcagh Mountain (H110294), 29 June 2000 (Langton, 2002). L. Erne Upper, Crom slipway (H362242), 27 June 2000 (Langton, 2002). **GALWAY: HA 30 -** R. Cregg, Addergsole Bridge (M324350), 16 August 1981 (Hayes, 1991)**: HA 32 -** R. Dawros, Tullywee Bridge, Letterfrack (L730586), 18 August 1981 (Hayes, 1991). **KERRY: HA 21 -** L. Brin, Derreeny (V780775), 18 June 2008, EPA (DAM). L. Cloonaghlin, Waterville (V611708), 24 July 2008, EPA (DAM)**: HA 22 -** Muckross Lake, Killarney, Dundag Bay (V964858), June 1973 (Douglas and Murray, 1980)**: HA 23 -** L. Gill, Castlegregory (Q603139), 25 June 2008, EPA (DAM). **KILDARE: HA 9 -** R. Liffey, Sallins (N881245), 17 July 1983 and Straffan Bridge (N924293), 15 July 1983 (Hayes, 1991). **KILKENNY: HA 15 -** R. Nore, Norelands Bridge (S547436) and Brownsbarn Bridge (S618391), 28 August 1981 (Hayes, 1991). **LEITRIM: HA 26 -** L. Natire, north of L. Allen (G966340), 3 August 2005, JRB/MC (DAM)**: HA 35 -** L. Nabrack, Crocknagapple (G860477), 4 August 2005, JRB/MC (DAM). **MAYO: HA 32 -** L. Doo, Delphi, west shore (L835681), 12 July 2006, EPA (DAM). L. Feeagh, Newport (L975983), 24 July 2008, EPA (DAM)**: HA 34 -** L. Cullin, Drummon Wood, Pontoon (G235046), 18 June 2008, EPA (DAM)**: Clare Island -** Creggan L., Lecarrow (L689857), 13 July 1998 (Fahy, 2002). **MEATH: HA 7 -** R. Boyne, Bellinter Bridge (N894626), 21 August 1988 also Stackallen Bridge (N917713), 17 August 1988 (Murray, 1988) and 19 July 1989 (DAM). **ROSCOMMON: HA 26 -** R. Suck, Ballyforan (M817464), 16 July 1981 and Athleague (M825758), 14 August 1981 (Hayes, 1991). **WESTMEATH: HA 36 -** L. Bane, Collinstown (N550712), 26 June 2006, EPA (EPA). **WICKLOW: HA 10 -** Vartry Reservoir, Roundwood, south east shore (O214002), 14 August 1983, HD (DAM). L.

Glendalough Upper, Laragh, WMNP (T100960), 29 July 2009, EPA (DAM).

***Polypedilum* (*Tripodura*) *quadriguttatum* Kieffer, 1921**
MEATH: HA 7 - R. Boyne, Bellinter Bridge (N894625), 18 August 1968 (Murray, 1972, 2005).

***Polypedilum* (*Tripodura*) *scalaenum* (Schrank, 1803)**
DERRY: HA 2 - burn at Largantea picnic area, Formoyle, Coleraine (C738287), 9 June 2000 (Langton, 2002)**: HA 3 -** R. Bann, Coleraine (C855304), 20 and 31 May, 10 June 1999, also 25 May and 24 June 2000 (PHL). **DONEGAL: HA 38 -** L. Veagh, Glenveagh, north east shore (C039231), 24 July and north east shore (C038230), 27 August 1985 (Heneghan, 1986; Murray, 2005). Administration Centre, GNP (at light), Glenveagh (C041228), 27 August 1985 (Heneghan, 1986). **GALWAY: HA 30 -** L. Corrib Lower, Hurney, west shore (M258310), 9 April 1980, BC (DAM). **KERRY: HA 22 -** L. Leane, Killarney, Muckross Boathouse (V965866), 29 August 1987, NOM (LJH). **MEATH: HA 7 -** R. Boyne, Bellinter Bridge (N894625), 24 May 1968 (Murray, 1972) and New Bridge, Navan (N873679), 18 August 1988 (Murray, 1988). R. Blackwater, Donaghpatrick (N819723), 19 August 1988 (Murray, 1988). **ROSCOMMON: HA 26 -** L. Annaghmore, Strokestown, Elphin (M902838), 15 July 2008, EPA (DAM). **WESTMEATH: HA 25 -** L. Owel, Mullingar (N421566), July and 14 August 1973, NH (Hayes, 1980). L. Ennell, Tudenham (N415466), 5 April 1966 (Murray, 1972). **WICKLOW: HA 9 -** Pollaphuca Reservoir, Blessington Bridge (N990144), 17 June 2000, DAM/WM (DAM).

***Polypedilum* (*Tripodura*) sp. (Pe - *scalaenum/quadriguttatum*)**
CLARE: HA 28 - L. Acrow, Lisscasey (R193687), 8 June 2006, EPA (DAM). **MONAGHAN: HA 36 -** L. Inner, Dartery, Drum (H625173), 6 June 2007, EPA (DAM).

***Polypedilum* (*Uresipedilum*) *convictum* (Walker, 1856)**
ANTRIM: HA 3 - Clogh R., Clough Mills (D105109), 2 July 2000 (Langton, 2002). L. Neagh, Antrim Bay (J135866), 4 May 1999 (PHL)**: HA 4 -** R. Bush, Stranocum (D009307), 2 July 2000, Seneirl Bridge (C943362), 16 July 2000 and Conogher Bridge (C963305), 10 September 2000 (Langton, 2002). R. Glendun, Drumfresky, Cushendun (D193308) and R. Glenariff (Inver/Glenarif), Cushendall (D215205), 2 July 2000 (Langton, 2002). R. Glenaan, Cushendall (D218288), 17 September 2011 (PHL). **CARLOW: HA 12 -** R. Slaney, Motabower Bridge (S832778), Kilcarry Bridge (S893624) and Kildavin (S899597), 28 July 1981 (Hayes, 1991). R. Derreen, Acann Bridge (S900781), 29 July 1981 (Hayes, 1991). **CAVAN: HA 7 -** R. Barora

tributary, Relaghbeg (N679907), 5 April 1968 (Murray, 1972)**: HA 36 -** R. Erne, Kilsarin (N362910), 27 May 1982 and Drumbarry (N462951), 17 August 1982 (Hayes, 1991). **CLARE: HA 25 -** L. Graney, Doorus, west shore (R556930), 8 June 2006, EPA (DAM). **CORK: HA 18 -** R. Blackwater: Killavullen (W648998), 31 August 1981; Ballymacquirk Bridge, Banteer (W382989), Roskeen Bridge, Banteer (W444988) and Lombardstown (W463968), 1 September 1981; Duncannon (W180931), Shamrock Bridge, Millstreet (W221935), Charles Bridge, Millstreet (W248943) and Keale Bridge, Millstreet (W294936), 2 September 1981, all BPH (Hayes, 1991)**: HA 20 -** R. Ilen, Drimoleague (W098454), Madore (W103419) and Hollybrook (W117363), 24 August 1983 (Hayes, 1991). **DERRY: HA 2 -** R. Roe, Limavaddy, Deerpark Wood (C682203), 9 June 2000 and Largy Bridge (C681202), 14 July 2000 (Langton, 2002). Castle R., Limavady, Ardmore Bridge (C706207), 9 June 2000 (Langton, 2002)**: HA 3 -** inlet stream, Downhill Forest Lake, Coleraine (C759348), 21 August 2001 (PHL). Inflow to Balinrees Reservoir, Coleraine (C793307), 9 June 2000 (Langton, 2002). R. Aghadowey, Ballybritain Bridge (C859212), 26 May 2000 (Langton, 2002). R. Macosquin, Black Bridge, Ballylintagh (C854256), 5 May 1999 (Langton, 2002). R. Bann, Coleraine (C855304): 13 May 1999, 17 May and 24 June 2000 (PHL). R. Moyola, New Bridge, Magherafelt (H955905), 4 July and New Bridge, Magherafelt (H955905), 13 October 2000 (Langton, 2002). **DONEGAL: HA 1 -** R. Deele, Legland, Raphoe (C136028), 19 July 2000 (Langton, 2002)**: HA 37 -** R. Oily, Claggen (G751803), 8 August 1982; R. Eanymore, Drumagraa Bridge (G863822) and R. Stragar, Duninkeely (G727792), 10 August 1982, all BPH (Hayes, 1991)**: HA 38 -** R. Tullaghobeg, Millmount (B933304), 12 August 1982 (Hayes, 1991)**: HA 39 -** R. Crana, Buncrana (C347328) and Ballymagan (C379344), 15 August 1982 (Hayes, 1991)**: HA 40 -** R. Keenagh, Hugh Roe's Bridge, Umgall (C454543), 16 August 1982 (Hayes, 1991). **DOWN: HA 3 -** Upper R. Bann, Roughan Bridge, Rathfriland (J225363), 28 August 1997 and 13 August 1998 (PHL). **DUBLIN: HA 9 -** R. Dodder, Fort Bridge, Bohernabreena (O009242), 5 June 1968 (Murray, 1972). **FERMANAGH: HA 36 -** R. Colebrook Killabarn Bridge, Killarbran (H416441), 24 June 1997 (PHL). **GALWAY: HA 25 -** L. Derg, Woodford (M794964), 24 May 2003 (PHL)**: HA 26 -** R. Shiven, d/s Ballinaglass (M788494), 29 July 1981 (Hayes, 1991). R. Tirur, Newbridge (M492699), 16 August 1981 (Hayes, 1991)**: HA 30 -** stream at lay-by picnic site on road N59, Moycullen (M204326), 25 May 2003 (PHL). R. Loughkip, Ballyquirk, Moycullen (M224313), 17 August 1981 (Hayes, 1991)**: HA 32 -** R. Owenglin, Clifden (L677506), and R. Dawros, Tullywee Bridge, Letterfrack (L730586), 18 August 1981 (Hayes, 1991). **KERRY: HA 18 -** R. Blackwater, Lacknastooka (R153008), 2 September 1981 (Hayes, 1991)**: HA 21 -** L. Derriana, Waterville (V621740), 13 July 1979, JPOC (DAM)**: HA 22 -** L. Leane, Killarney, Muckross Boathouse (V965866), 29 August 1987, NOM (Murray, 2005). R. Annascaul, Annascaul (Q593017), 2 July 1981 (Hayes, 1991). R. Flesk: d/s Clydagh/Loo

confluence (W084814); d/s Whitebridge (V987900); d/s New Bridge (V963885) and u/s L. Leane (V964894), all June to August 1978, PJA (Ashe, 1982). R. Torc, above Torc waterfall, Killarney (V964835), 26 August 1987 (DAM). **KILDARE: HA 9 -** R. Liffey, Sallins (N881245), 17 July 1983 (Hayes, 1991). **KILKENNY: HA 15 -** R. Nore: Threecastles (S458626), 27 August 1981; Ballyragget (S445707), Norelands Bridge (S547436) and Brownsbarn Bridge (S618391), 28 August 1981, all BPH (Hayes, 1991). **LAOIS: HA 15 -** R. Nore, Athanagh (S423763), 28 August 1981 (Hayes, 1991). **LIMERICK: HA 25 -** R. Mulkear, d/s Cappamore (R779504), 8 September 1981 (Hayes, 1991). **MAYO: HA 32 -** L. Doo, Delphi, west shore (L835681), 9 May 2006, EPA (DAM). R. Burleemslough, Clapper Bridge Ford, Killeen, Cloonlaur (L754759), 5 August 2004, DAM/WM (DAM). R. Bunowen u/s of bridge, Louisburg (L807807), 5 August 2004, DAM/WM (DAM). R. Altahoney, Newport (F950050), 1968-1971, EF (Fahy and Murray, 1972). R. Erriff, Ashleigh Falls (L895645), 18 August 1981 (Hayes, 1991)**: HA 33 -** R. Owenmore, Bangor Erris (F863228), 18 August 1983 (Hayes, 1991). R. Glenlassra, Belderg (G023407), 19 August 1983 (Hayes, 1991)**: HA 34 -** R. Moy, Bellanacurra (G403047), 29 August 1982 (Hayes, 1991). **MEATH: HA 6 -** R. Dee, Drumconrath (N910894), 27 July 1983 (Hayes, 1991)**: HA 7 -** R. Skane, Dalgan Park, Navan (N901626), 23 May 2015 (Murray, 2015a). R. Boyne: Bellinter Bridge (N894626), 21 August 1988, DAM (Murray, 1988); Ardsallagh, at St Bridget's Well (N897635), 7 July 1988 (Murray, 1988) and 30 May 1999 (DAM); Kilcarn Bridge, Navan (N884657), 21 August 1988 (Murray, 1988); Stackallen Bridge (N917713), 19 July 1989 and Slane Bridge (N965737), 19 July 1989, all DAM. R. Blackwater, Poolboy Bridge, Navan (N871681), 18 August 1988 and Bloomsbury Bridge, Oristown (N793741), 19 August 1988 (all Murray, 1988). **OFFALY: HA 25 -** R. Little Brosna, Brosna Bridge (S077938), Sharavogue (S056953), New Bridge (N016088) and Cloghan (M046209), 2 September 1982, all BPH (Hayes, 1991). **ROSCOMMON: HA 26 -** R. Suck: Castlecoote (M809627), 16 July 1981 and Ballyforan (M817464), 16 July 1981; Athleague (M825758) and Mount Talbot (M813531), 14 August 1981 all BPH (Hayes, 1991). **SLIGO: HA 34 -** R. Moy, Annagh (G466123), 30 August 1982 (Hayes, 1991)**: HA 35 -** R. Drumcliff, Glencar (G734430) and R. Easky, Easky (G377378), 19 August 1983 (Hayes, 1991). **TYRONE: HA 3 -** R. Ballinderry, Ballinderry Bridge (H928798), 10 May 2000 (Langton, 2002). **WATERFORD: HA 18 -** R. Blackwater, Ballyduff (W964992) and Lismore (X047988), 31 August 1981 (Hayes, 1991). **WEXFORD: HA 12 -** Movilla stream, Screen (T082311), 6 May 2006, DAM/WM (DAM). R. Boro, Dunamore Bridge, Enniscorthy (S963366), 29 July 1981 (Hayes, 1991). R. Slaney, Clomahon (S933534) and Ballycarney (S967488), 29 July 1981 (Hayes, 1991). R. Sow tributary, Garylough Mill, Screen (T076302), 6 May 2006, DAM/WM (DAM). R. Derry, Balisland (S978645), 28 July 1981 and Bridgeland (T021744), 29 July 1981 (Hayes, 1991). R. Slaney, Stratford Bridge (S895930) and Kilmurray

(S889856), 28 July 1981 (Hayes, 1991).

***Polypedilum* (*Uresipedilum*) *cultellatum* Goetghebuer, 1931**
CAVAN: HA 36 - Glasshouse L., Killashandra (H270060), 7 June 2007, EPA (DAM). R. Erne: Kilsarin (N362910), 27 May 1982; Dingin's Bridge (N331948) and Carrigan (N391935), 27 August 1982, all BPH (Hayes, 1991). **CLARE: HA 25 -** L. Graney, Doorus, west shore (R556930), 3 August 2006, EPA (DAM). L. Graney, Drumandora, west shore (R553938), 15 June 2009, EPA (DAM). **CORK: HA 18 -** R. Blackwater, Killavullen (W648998), 31 August 1981, Duncannon (W180931) and Keale Bridge, Millstreet (W294936), 2 September 1981 (Hayes, 1991)**: HA 20 -** R. Ilen, Madore (W103419) and Hollybrook (W117363), 24 August 1983 (Hayes, 1991)**: HA 21 -** L. Glenbeg, Ardgroom (V706530), 3 September 2008, EPA (DAM). **DERRY: HA 3 -** R. Bann, Coleraine (C854304), 16 July 2000 (PHL). **DONEGAL: HA 39 -** R. Leannan, Drumaboden (C165218), 12 August 1982 (Hayes, 1991). **FERMANAGH: HA 36 -** R. Colebrook, Killarbran Bridge, Killarbran (H416441), 24 June 1997 (PHL). **GALWAY: HA 30 -** L. Ballyquirke, Moycullen (M232317), 14 June 2007, EPA (DAM). R. Cregg, Addergsole Bridge (M324350), 16 August 1981 (Hayes, 1991). R. Owenriff, Oughterard (M112426), 25 May 2003 (PHL). **KERRY: HA 22 -** Muckross Lake, Killarney (V950853), 16 July and 18 September 2008, EPA (DAM). R. Flesk, d/s New Bridge (V963885), 22 July 1976, PJA (DAM). **KILDARE: HA 9 -** R. Liffey, Straffan Bridge (N924293), 15 July 1983 (Hayes, 1991). **KILKENNY: HA 15 -** R. Nore: Norelands Bridge (S547436), 28 August 1981 and 19 August 1982 also Brownsbarn Bridge (S618391), 28 August 1981 (Hayes, 1991). **LAOIS:** R. Nore: Kilbricken (S362898) and u/s Durrow (S416787), 27 August 1981 and Athanagh (S423763), 28 August 1981, all BPH (Hayes, 1991). **LEITRIM: HA 26 -** L. Rinn, Mohill (N095943), 18 July 2008, EPA (DAM). **MAYO: HA 34 -** L. Lannagh, Castlebar (M105880), 30 June 2008, EPA (DAM). **MEATH: HA 7 -** R. Boyne, Bellinter Bridge (N894625), 28 August 1981 (Murray, 2005); Stackallen Bridge (N917713), Oldbridge (O045761) and d/s Oldbridge (O062753), 19 July 1989, all DAM. R. Blackwater, Bloomsbury Bridge, Oristown (N793741), 19 August 1988 (Murray, 1988). **MONAGHAN: HA 36 -** L. Drumlona, Rockcorry (H636176), 5 June 2007, EPA (DAM). **OFFALY: HA 25 -** R. Brosna, Cloghan (M046209), 2 September 1982 (Hayes, 1991). **ROSCOMMON: HA 26 -** R. Suck, Castlecoote (M809627) and Ballyforan (M817464), 16 July 1981 (Hayes, 1991). **SLIGO: HA 35 -** L. Kilsallagh (Reservoir), Kilsallagh (G734393), 23 July and 8 September 2008, EPA (DAM). L. Gill, Sligo (G782350), 20 August 2008, EPA (DAM). **WESTMEATH: HA 26 -** L. Killinure, Wineport (N067458), 26 June 2007, EPA (DAM). **WEXFORD: HA 12 -** R. Slaney, Clomahon (S933534), 29 July 1981 (Hayes, 1991). **WICKLOW: HA 10 -** R. Glencullen, Knocksink (O218180), 18 May 1987, DEM/DAM (Morgan, 1989; Murray, 2005). R. Avonbeg,

Drumgoft Bridge, Glenmalure (T105905) and R. Avoca, Whitebridge, Tigroney (T198821), 4 August 1983 (Hayes, 1991).

***Saetheria reissi* Jackson, 1977**
LAOIS: HA 15 - R. Nore, Shanahoe Bridge (S407858), 27 August 1981, BPH (Murray, 1996).

***Sergentia coracina* (Zetterstedt, 1850)**
CLARE: HA 27 - L. Bridget, Derrymore, Badyke, north basin (R563803), 12 June 2009, EPA (DAM). **CORK: HA 20 -** L. Ballin, Leap (W199389), 9 April and 21 August 2008, EPA (DAM). **DONEGAL: HA 38 -** L. Veagh, GNP, Glenveagh Castle shore (C038230), 30 March 1989 (DAM). **GALWAY: HA 30 -** L. Corrib (M1545), 1980, BC (DAM). **KERRY: HA 22 -** L. Leane, Killarney: Glena Bay (V930858), 27 July 1973; O'Sullivans Cascade (V916886), March 1973 and Peninsula Bay (V940860), March 1973, all Douglas and Murray (1980). Muckross Lake, Killarney, Goleen Bay (V963853) and Camilan Bay (V943859), March 1973, (Douglas and Murray, 1980). R. Flesk, d/s New Bridge (V963885), 21 March 1978, DAM (Ashe, 1982; Murray, 2005). Upper Lake, Killarney, west basin (V909821), March 1973 (Douglas and Murray, 1980). **MAYO: HA 30 -** L. Mask, Toormakeady (M097647), 14 April 2008, EPA (DAM)**: HA 32 -** L. Feeagh, Newport (L975983), 11 April 2008, EPA (DAM)**: HA 34 -** L. Alone, Ox Mountains (G367157), 22 April 2005, JRB (DAM). **ROSCOMMON: HA 26 -** Grange L., Greywood, Strokestown (M938857), 28 July 2008, EPA (DAM). **WICKLOW: HA 10 -** outflow from L. Bray Lower, Glencree (O141163), 14 October 1996, MKQ (DAM). L. Dan, Roundwood (O157035), 30 March 2009, EPA (DAM). Upper Glendalough Lake, Laragh, WMNP (T100960), 29 July 2009, EPA (DAM).

***Stenochironomus* (*Stenochironomus*) *gibbus* (Fabricius, 1794)**
CAVAN: HA 36 - Glasshouse L., Killashandra (H270060), 7 June 2007, EPA (DAM). **CORK: HA 20 -** R. Ilen, Hollybrook (W117363), 24 August 1983 (Hayes, 1991). **DERRY: HA 3 -** R. Bann, Coleraine (C854304), 31 May 1999 (PHL). **DONEGAL: HA 39 -** R. Leannan, Drumaboden (C165218), 12 August 1982 (Hayes, 1991). **KERRY: HA 22 -** Killarney (V9486), no data (Edwards, 1929). L. Leane, Killarney, Juniper Bay (V949863), 27 July 1973 (Douglas and Murray, 1980). Muckross Lake, Killarney, Camilan Bay (V943859), 20 June 1973 (Douglas and Murray, 1980). R. Flesk, d/s Whitebridge (V987900), 27 July 1976, DJD/DAM (Ashe, 1982). R. Flesk, d/s New Bridge (V963885), 28 July 1977 (Ashe, 1982). **MEATH: HA 7 -** R. Boyne, Ardsallagh, Magazine weir (N894640), 8 June 1980 (Murray, 2005). **SLIGO: HA 35 -** L. Arrow, Ballinafad (G789123), 11 June 2008, EPA (DAM).

***Stenochironomus* (*Stenochironomus*) *hibernicus* (Edwards, 1929)**
KERRY: HA 22 - Killarney (V950890), 25-27 May 1929 (Edwards, 1929 - sub *Chironomus* (*Microtendipes*) *hibernicus*).

***Stenochironomus* (*Stenochironomus*) pe2 sensu Langton and Visser, 2003**
Langton and Visser (2003) consider the possibility that this pupal morphotype is *Stenochironomus hibernicus.*
CLARE: HA 25 - L. Alewnaghta, Whitegate, west shore (R758908), 16 July 2009, EPA (DAM). **MAYO: HA 34 -** L. Washpool, Ballycarra (M219842), 15 August 2008, EPA (DAM).

***Stictochironomus maculipennis* (Meigen, 1818)**
ANTRIM: HA 3 - L. Neagh, Lennymore Bay, north shore (J115745), March 1969 (Marks and Henderson, 1970). **CLARE: HA 27 -** L. Bunny, Aughrim, south east shore (R377965), 11 June 2009, EPA (DAM). **DERRY: HA 3 -** Balinrees Reservoir, Coleraine (C794300), 9 June 2000 (Langton, 2002). R. Bann, Coleraine (C854304), 31 and 16 May 2001 (PHL). L. Neagh (H9080), no date (McLarnon and Carter, 2000); L. Neagh, Ballyronan (H948862), 10 May 2000 (Langton, 2002). **FERMANAGH: HA 36 -** L. Erne, Lower, Black Bay (H072639), 27 April 2002 (PHL). **MEATH: HA 7 -** R. Boyne, Ardsallagh, eel weir - opposite R. Skane inflow (N897630), 9 May 1982 (DAM).

***Stictochironomus pictulus* (Meigen, 1830)**
ANTRIM: HA 3 - L. Neagh, Lennymore Bay, north shore (J115745), March 1969 (Marks and Henderson, 1970); L. Neagh, Antrim Bay (J135866), 4 May 1999 (PHL). **CAVAN: HA 36 -** Glasshouse L., Killashandra (H270060), 12 April and 7 June 2007, EPA (DAM). L. Garty, Arvagh (N278978), 12 April 2007, EPA (DAM). **CLARE: HA 25 -** L. Graney, Drumandora, west shore (R553938), 6 April 2009, EPA (DAM). **CORK: HA 19 -** L. Gouganebarra, Inchegeelagh (W009060), 7 April 1966 (Murray, 1972, 2005), 8 May 1966 (Murray, 1972) and 25 May 1966 (DAM). **DERRY: HA 1 -** Upper Reservoir, Creggan, Derry (C417173), 26 April, 10 and 18 May 2001 (PHL)**: HA 2 -** R. Roe, Largy Bridge, Limavaddy (C681202), 14 July 2000 (Langton, 2002)**: HA 3 -** R. Macosquin, Black Bridge, Ballylintagh (C854256), 26 May 2000 (Langton, 2002). Pond, near R. Macquosin, Ballytinagh Road, Coleraine (C854255), 16 May 2004 (PHL). R. Bann, Coleraine (C854304): 12 April to 3 July 1999, 3 May to 24 June 2000, 26 April 2001, 25 April and 2 May 2010, all records by PHL. L. Neagh: (H9080), May and June, 1971-1974 (Carter, 1975); no date (McLarnon and Carter, 2000); Ballyronan (H948862), 4 May 1999 (PHL), 10 May 2000 (Langton, 2002), 15 May 2002 and 22 May 2011 (PHL). R. Moyola, New Bridge, Magherafelt (H955905), 7 May 2001 (PHL). **DONEGAL: HA 38 -** L. Anure,

Loughanure, east shore (B818162), 17 June 2009, EPA (DAM)**: HA 39 -** L. Akibbon, Church Hill (C068184), 23 April and 11 June 2009, EPA (DAM). **GALWAY: HA 30 -** L. Ross, Moycullen (M200363), 25 May 2003 (PHL). **KERRY: HA 22 -** L. Leane, Killarney, Glena Bay (V930858), 27 July 1973 (Douglas and Murray, 1980). Muckross Lake, Killarney, Camilan Bay (V943859), May 1973 (Douglas and Murray, 1980); Dundag Bay (V964858), June and July 1973 (Murray, 1974)**: HA 23 -** L. Gill, Castlegregory (Q603139), 29 April and 25 June 2008, EPA (DAM). **MAYO: HA 32 -** L. Doo Delphi, west shore (L835681), 9 May 2006, EPA (DAM). R. Bunowen, u/s of bridge at Louisburg (L807807), 5 August 2004, DAM/WM (DAM). L. Fin, Delphi (L841657), 9 May 2006, EPA (DAM). R. Owenwee, u/s Aghamore Bridge, Westport (L972817), 8 May 2003, DAM/WM (Murray, 2005); R. Owenwee, Belclare, Westport (L968826), July 1910, JNH (Grimshaw, 1912)**: HA 33 -** L. Keel, Achill Island, south east shore (F650051), 17 June 2008, EPA (DAM)**: HA 34 -** L. Conn, Brackwansha (G191098), 15 May 1966, AJOS (Murray, 1972). **ROSCOMMON: HA 26 -** L. Meelagh, Keadew (G901117), 15 April 2008, EPA (DAM). L. Cavetown, Boyle (M832974), 9 April 2008, EPA (DAM). **SLIGO: HA 26 -** L. Gara, Monastredan (M708996), 28 April 2008, EPA (DAM)**: HA 34 -** L. Talt, Gleneask (G402151), 10 April 2008, EPA (DAM). **TYRONE: HA 3 -** L. Neagh, Washing Bay, Coalisland (H903662), 30 May 2002 (PHL). R. Ballinderry, Ballinderry Bridge (H928798), 10 May 2000 (Langton, 2002). **WESTMEATH: HA 25 -** L. Ennell, Tudenham (N415466), 14 June 1966, DAM (Murray, 1972).

***Stictochironomus rosenscholdi* (Zetterstedt, 1838)**

CORK: HA 19 - L. Gouganebarra, Inchegeelagh (W009060), 21 August and 27 September 1966 (Murray, 1972). **KERRY: HA 22 -** Killarney (V9080), 1929, FWE (Edwards, 1929). L. Leane, Killarney, Juniper Bay (V949863), 27 July 1973 (Douglas and Murray, 1980). Muckross Lake, mid lake (V950850), May 1973 (Douglas and Murray, 1980).

***Stictochironomus sticticus* (Fabricius, 1781)**

ANTRIM: HA 3 - L. Neagh, Antrim Bay (J135866), 4 May 1999 (PHL). **CLARE: HA 25 -** L. Graney, Doorus, west shore (R556930), 10 April and 4 May 2006, EPA (DAM). L. Derg, Terryglass (M861008), 20 April 2009, EPA (DAM). **DERRY: HA 3 -** R. Agivey, Garvagh (C838154), 30 May 2002 (PHL). R. Bann, Coleraine (C854304), 26 April 1999 and 18 April 2010 (PHL). L. Neagh: no data (H900800), May and June 1971-1974 (Carter, 1975); Ballyronan (H948862), 4 May 1999 (PHL), 10 May 2000 (Langton, 2002), 15 May 2002 and 22 May 2011 (PHL). **DONEGAL: HA 38 -** Glenveagh, GNP: L. Veagh: south shore, (C003188), 25 May 1986, LJH (DAM); roadside near castle, Glenveagh (C025214), 22 May 1986, LJH (Heneghan, 1986; Murray, 2005). **FERMANAGH: HA 36 -** L. Erne, Lower, Black Bay

(H072639), 4 May 1999 (PHL). **GALWAY: HA 29 -** L. Coole, Gort (M432043), 15 June 2009, EPA (DAM)**: HA 30 -** L. Corrib lower, Hurney, west shore (M258310), 9 April 1980, BC (DAM). **KERRY: HA 21 -** L. Brin, Derreeny (V780775) and L. Inchiquin, Kenmare (V837629), 18 June 2008, EPA (DAM). **LEITRIM: HA 35 -** L. Sandy, Crocknagapple (G891448), 4 August 2005, JRB/MC (DAM). **MAYO: HA 26 -** L. Nanoge, Urlaur (M506903), 24 April 2008, EPA (DAM)**: HA 30 -** L. Mask, Toormakeady (M097647), 14 April 2008, EPA (DAM)**: HA 32 -** L. Doo, Delphi, west shore (L835681), 5 April and 9 May 2006, EPA (DAM). L. Ballin, Westport, south shore (L994878), 22 April 2008, EPA (DAM)**: HA 33 -** L. Acorrymore, Achill Island (F578057), 29 September 2004, DAM/WM (Murray, 2005) and 17 September 2008, EPA (DAM)**: HA 34 -** L. Cullin, Drummon Wood, Pontoon (G229028), 15 April 2008, EPA (DAM). **MEATH: HA 7 -** R. Boyne, Newtown, Trim (N815571), 9 July 1981 (Hayes, 1991). **WESTMEATH: HA 25 -** L. Ennell, Tudenham (N415466), 2 May and 21 May 1966 (Murray, 1972 as *Stictochironomus histrio*). **WICKLOW: HA 10 -** L. Tay, Luggala (O163008), 28 July 2009, EPA (DAM). Upper Glendalough Lake, Laragh, WMNP (T100960), 29 July 2009, EPA (DAM).

***Synendotendipes dispar* (Meigen, 1830)**

ANTRIM: HA 3 - L. Neagh, Lennymore Bay, north shore (J115745), 1966, RJM (Marks and Henderson, 1970). **DERRY: HA 1 -** pool near Reservoir, Creggan, Derry (C414171), 17 May 2002 (PHL)**: HA 3 -** L. Neagh (H9080), no date (McLarnon and Carter, 2000). **DONEGAL: HA 37 -** L. Shinvagh, Carricode (H005675), 27 April 2002 (PHL)**: HA 38 -** R. Owenveagh, u/s L. Veagh, Glenveagh (C000187), 15 May 1985, LJH (Heneghan, 1986; Murray, 2005). L. Veagh, south shore, Glenveagh (C002187) and south east shore, Glenveagh (C007190), 15 May 1985 (Heneghan, 1986). Inflow stream to north east shore of L. Veagh, 50m from lake, Glenveagh (C030218), 15 May 1985 (Heneghan, 1986). **KERRY: HA 22 -** L. Leane, Killarney, Muckross Boathouse (V965866), 29 August 1987, NOM (DAM). **MAYO: HA 32 -** Knappagh, Westport (L980805), July 1911, PHG and Demesne, Westport (L990845), July 1911, PHG (Grimshaw, 1912 - sub *Tendipes dispar*).

***Synendotendipes impar* (Walker, 1856)**

CAVAN: HA 7 - L. Mullagh, Mullagh (N680856), 23 May 1968 (Murray, 1972, 2005). **GALWAY: HA 30 -** L. Corrib Lower, Hurney (M258310), 8 May and 7 August 1980, BC (DAM); L. Corrib Upper, Clonbur, north shore (M068525), 23 August 1984 (DAM).

***Tribelos intextum* (Walker, 1856)**

ANTRIM: HA 4 - fire dam, Black Hill (D121297), 2 July 2000 (Langton, 2002). **CAVAN: HA**

7 - L. Drumkeery, Baileborough (H663002), 1 May 2007, EPA (DAM). **DERRY: HA 1 -** inflow to Upper Reservoir, Creggan, Derry (C413171), 26 June 2001 (PHL). Upper Reservoir, Creggan, Derry (C417173), 17 and 18 May 2002 (PHL) also pool near Reservoir (C414171), 17 May 2002 (PHL)**: HA 3 -** pond 1, Magherafelt Golf Course, Traad Point (H950873), 10 May 2000 (Langton, 2002). **DUBLIN: HA 9 -** Upper Bohernabreena Reservoir (O095219), 7 May 1946, CFH (DAM). **FERMANAGH: HA 36 -** L. Killyfole (Mill L.), Rosslea (H464314), 28 June 2000 (Langton, 2002). **GALWAY: HA 25 -** L. Derg, Woodford (M794964), 24 May 2003 (PHL)**: HA 30 -** L. Corrib Lower, Hurney (M258310), 28 May 1980, BC (DAM). Stream at lay-by picnic site on road N59, Moycullen (M204326), 25 May 2003 (PHL). **LEITRIM: HA 35 -** L. Sandy, Crocknagapple (G891448), 4 August 2005, JRB/MC (DAM).

The first published record from Ireland of *Tribelos intextum* was by Langton (2002) in collections from June 2000 from L. Kilfoyle, Co. Fermanagh. The senior author discovered an earlier record in the collections of C. F. Humphries from Bohernabreena Reservoir, Co. Dublin taken in May 1946.

***Xenochironomus xenolabis* (Kieffer, 1916)**

ANTRIM: HA 3 - R. Kells, Shank Bridge, Kells (J126982), 20 June 2000 (Langton, 2002). **CLARE: HA 28 -** L. Keagh, Milltown Malbay, north shore (R100813), 11 June 2009 and south west shore (R100811), 8 July 2009, EPA (DAM). L. Naminna, Boolteagh, north west shore (R178710), 7 July 2009, EPA (DAM). **CORK: HA 20 -** R. Bandon: u/s Ballineen (W331537), 25 August 1980; Ballineen Bridge (W434538), 27 May, 25 August and 25 September 1980; Castle Bernard (W472546), 27 May, 25 August and 25 September 1980; 2.5km d/s Bandon (W516569), 27 May 1980, all GM (Morgan, 1982). **DERRY: HA 2 -** R. Roe, Deerpark Wood, Limavaddy (C682203), 9 June 2000 (Langton, 2002)**: HA 3 -** R. Bann, Coleraine (C854304), 28 September 2012 (PHL). R. Moyola, New Bridge, Magherafelt (H955905), 4 July 2000 (Langton, 2002). **DONEGAL: HA 37 -** R. Oily, Claggen (G751803), 8 August 1982 (Hayes, 1991). R. Stragar, Killybegs (G730787), 23 August 1984, DAM (DAM)**: HA 38 -** L. Anure, Loughanure, east shore (B818162), 17 June 2009, EPA (DAM). R. Gweedore, outflow from L. Anure, Crolly (B827184), 19 July 2000 (Langton, 2002). L. Nasnahida, Doocharry, Dunglow (B852076), 6 August 2009, EPA (DAM). L. Veagh, north east shore (C038230), 22 August 1985, LJH (DAM). R. Owencarrow, GNP Administration Centre (C041229), 3 June 1986 (Heneghan, 1986). R. Ray, Muckish Gap (B993268), 12 August 1982 (Hayes, 1991). L. Kindrum, Kindrum, Fanad (C186430), 16 June 2009, EPA (DAM)**: HA 39 -** L. Gartan, Church Hill (C065173), 18 July 2000 (Langton, 2002). R. Leannan, Kilnacrenan (C145200), 12 August 1982 and Claragh (C197210), 13 August 1982 (Hayes, 1991). **GALWAY: HA 30 -** L. Beaghcauneen, Ballinaboy (L679470), 12 September 2007, EPA (DAM). L. Corrib (M1545),

1980, BC (DAM). L. Maumwee, Maam Cross (L977485), 8 June 2007, EPA (DAM). R. Cregg, Addergsole Bridge (M324350), 16 August 1981 (Hayes, 1991)**: HA 31 -** L. Ahalia, Maam Cross, north east shore (L971402), 18 June and 23 September 2009, EPA (DAM). L. Anaserd, Ballyconneely (L605443), 6 June 2007, EPA (DAM). L. Ballynahinch, Ballynahinch (L777478), 13 September 2007, EPA (DAM). L. Ballynakill, Gorumna (L867236), 20 June 2006, EPA (DAM). L. Illauntrasna, Glentrasna, Garomna (L888254), 12 September 2007, EPA (DAM). L. Loughanaure, Kilkieran (L828320), 7 June and 24 July 2007, EPA (DAM). L. Nahasleam, Maam Cross (L972440), 8 August 2006, 7 June, 1 August and 13 September 2007, EPA (DAM). L. Shindilla, Derreennacreeva, south shore (L958460), 13 September 2007, EPA (DAM). R. Owentouey, Tullywee Bridge, Recess (L873474), 18 August 1981 (Hayes, 1991)**: HA 32 -** L. Aughrusbeg, Cleggan (L557582), 3 April and 5 June 2007, EPA (DAM). R. Owenglin, Clifden (L677506), 18 August 1981 (Hayes, 1991). L. Tully, Tully Cross (L695618), 5 June 2007, EPA (DAM). R. Dawros, Tullywee Bridge, Letterfrack (L730586), 18 August 1981 (Hayes, 1991). L. Pollacappul, Kylemore (L754582), 9 July 2007, EPA (DAM). **KERRY: HA 21 -** L. Brin, Derreeny (V780775), 18 June and 13 July 2008, EPA (DAM). Eagles L., Knocknagantee (V674728), 9 August 2005, JRB (DAM)**: HA 22 -** L. Leane, Killarney: Castlelough Bay, north shore (V966866), 4 September 1973, DAM (Douglas and Murray, 1980); Muckross Boathouse (V965866), 29 August 1987, NOM (LJH); Killarney (V931886), 18 September 2008, EPA (DAM). Muckross Lake, Killarney (V950853), 16 July 2008, EPA (DAM). R. Flesk, d/s New Bridge (V963885), 28 July 1977 (Ashe, 1982). R. Loo, Aughnanus Bridge, Crohane (W045790), August 1981 (Ashe, 1982). **KILKENNY: HA 15 -** R. Nore, Norelands Bridge (S547436), 28 August 1981 (Hayes, 1991). **LEITRIM: HA 26 -** L. Acres, Drumshanbo (G968099), 11 June 2008, EPA (DAM). L. Boderg, Dromod (N020910), 25 June 2008, EPA (DAM). **LIMERICK: HA 24 -** Bleach L., Pallaskenry (R441569), 13 June 2009, EPA (DAM). **WESTMEATH: HA 26 -** L. Ree, Coosan (N050450), 15 August 2007, EPA (DAM). **MAYO: HA 32 -** L. Doo, Delphi, west shore (L833680), 25 August 2008, EPA (DAM). L. Furnace, Burrishoole, Newport (L975965), August 1974 (Murray, 2005). L. Feeagh, Newport (L975983), 24 July 2008, EPA (DAM)**: HA 33 -** L. Acorrymore, Achill Island (F578057), 5 August 2004, DAM/WM (DAM), 29 September 2004, DAM/WM (Murray, 2005), 17 June and 17 September 2008, EPA (DAM). **MEATH: HA 7 -** R. Boyne: Ardsallagh, at St Bridget's Well (N897635), 15 June 1980 (DAM); New Bridge, Navan (N873679), 18 August 1988 (Murray, 1988); Stackallen Bridge (N917713), 17 August 1988 (Murray, 1988); Slane Bridge (N965737) and Knowth Weir (N995720), 19 July 1989 (DAM). **MONAGHAN: HA 6 -** L. Naglack, Carrickmacross (H853026), 3 May 2007, EPA (DAM). **OFFALY: HA 25 -** R. Shannon, Shannon Bridge (M967254), 15 August 1981 (Hayes, 1991). R. Little Brosna, Myrtlegrove (S051852), 2 September 1982 (Hayes, 1991). **ROSCOMMON: HA 26 -** R. Suck,

Castlecoote (M809627) and Ballyforan (M817464), 16 July 1981 also Athleague (M825758), 14 August 1981 (Hayes, 1991). **SLIGO: HA 35 -** L. Gill, Sligo (G782350), 11 June 2008, EPA (DAM). **WATERFORD: HA 18 -** R. Blackwater, Ballyduff (W964992) and Lismore (X047988), 31 August 1981 (Hayes, 1991). **WICKLOW: HA 10 -** L. Dan, Roundwood (O157035), 2 September 2009, EPA (DAM).

***Pseudochironomus prasinatus* (Staeger, 1839)**

ANTRIM: Rathlin Island - L. Ally (D154497), 24 July 2000 (Langton, 2002). **CAVAN: HA 7 -** L. Ramor, Virginia (N603871), May 1971, DJD/DAM (Douglas, 1971)**: HA 36 -** Glasshouse L., Killashandra (H270060), 7 June 2007, EPA (DAM). L. Garty, Arvagh (N278978), 7 June 2007, EPA (DAM). **CLARE: HA 25 -** L. Graney, Doorus, west shore (R556930), 8 June 2006, EPA (DAM). L. Derg, d/s Killaloe (M705715), 17 June 2009, EPA (DAM). L. Graney, Drumandora, west shore (R553938), 15 June 2009, EPA (DAM). L. Alewnaghta, Whitegate, west shore (R758908), 17 June and 16 July 2009, EPA (DAM)**: HA 27 -** L. Cullaun, Corrofin, mid east shore (R317905), 16 June, 22 July and 14 September 2009, EPA (DAM). L. Dromore, Ruan, Corrofin (R352864), 16 June 2009, EPA (DAM). L. Gortglass, Killadysert, south shore (R223596), 7 July 2009, EPA (DAM). L. Muckanagh, Tubber, Corrofin (R368926), 3 July and 2 August 2006, EPA (PHL) also 22 July 2009 and south east shore (R370922) 11 June 2009, EPA (DAM)**: HA 28 -** L. Acrow, Lisscasey (R193687), 8 June, 7 July and 2 August 2006, EPA (DAM). L. Doo, Milltown Malbay (R123721), 8 July 2009, EPA (DAM). L. Keagh, Milltown Malbay, north shore (R100813), 11 June 2009, EPA (DAM)**: HA 29 -** L. Skeardeen, Kilcorkan (R388991), 17 June 2009, EPA (DAM). **CORK: HA 19 -** L. Aderry, Castlemartyr (W935730), 27 August 1969, NH (Bracken and Murray, 1973). L. Gouganebarra, Inchegeelagh (W009060), 27 July 1968, DAM (Murray, 1972)**: HA 20 -** L. Curraghalicky, Drinagh, Dunmanway (W234046), 17 June 2008, EPA (DAM). L. Avaul, Glengarrif (V910553), 15 July 1969, NH (Bracken and Murray, 1973). L. Bofinna, Bantry (W041488), 18 June and 13 August 2008, EPA (DAM). L. Glenbeg, Ardgroom (V706530), 18 June 2008, EPA (DAM). **DERRY: HA 3 -** L. Neagh, Ballyronan (H948862), 22 May 2011 (PHL). **DONEGAL: HA 36 -** L. Tullynasiddagh, Ballyshannon (G983656), 7 July 2009, EPA (DAM). L. Unshin, Ballyshannon (G951637), 15 April, 8 June and 6 July 2009, EPA (DAM)**: HA 37 -** L. Eske, Donegal (G973844), 8 June and 14 July 2009, EPA (DAM)**: HA 38 -** L. Mulladerg, The Rosses (B775199), 19 July 2000 (Langton, 2002). L. Dunglow, Dunglow, The Rosses: east shore (B787117), 19 July 2000 (Langton, 2002); west shore (B782119), 17 June and 5 August 2009, EPA (DAM). L. Anure, Loughanure, east shore (B818162), 17 June 2009, EPA (DAM). L. Nasnahida, Doocharry, Dunglow (B852076), 17 June 2009, EPA (DAM). L. Dunlewy, Dunlewy (B926193), 19 July 2000 (Langton, 2002). L. Veagh, near Castle, Glenveagh (C022211), 31 July 1984 (Reynolds,

1986); L. Veagh, north east shore, Glenveagh (C038252), 24 July 1985, LJH (Heneghan, 1986; Murray, 2005). L. Nadourcan, GNP, Glenveagh (C054228), 23 July 1985 (Heneghan, 1986). L. An tSeisigh, Portnablagh, Sheephaven (C043361), 16 June and 28 July 2009, EPA (DAM). L. Glen, Glen (C105292), 16 June 2009, EPA (DAM). L. Keel, Kilmacrennan (C158243), 16 July 2009, EPA (DAM). L. Shannagh, Magheradrumman, Fanad Penninsula (C216450), 21 July 2009, EPA (DAM). L. Kiltoris, Dawros, Ardara (G675976), 17 June and 30 July 2009, EPA (DAM). L. Voriskey, The Rosses (B762176), 19 July 2000 (Langton, 2002)**: HA 39 -** L. Gartan, Church Hill (C055159), 22 July 2009, EPA (DAM). L. Fern, Millford (C180233), 16 June 2009, EPA (DAM). **FERMANAGH: HA 36 -** L. Erne, Lower, Boa Island (H108626), L. Lattone, Kiltyclogher (H003456), L. Macnean, upper, Belcoo (H042403) and lower, Belcoo (H085384), all 29 June 2000 (Langton, 2002). **GALWAY: HA 29 -** L. Cutra, Gort (R485986), 8 June 2007, EPA (PHL)**: HA 30 -** L. Anillaun, Maam Cross (L980470), 8 June and 1 August 2007, EPA (DAM). L. Ballyquirke, Moycullen (M232317), 14 June 2007, EPA (DAM). L. Beaghcauneen, Ballinaboy (L679470), 6 June and 18 July 2007, EPA (DAM). L. Bofin, Maam Cross (M034441), 7 June 2007, EPA (DAM). L. Corrib (M1545), 1980, BC (DAM). L. Ross, Moycullen (M200363), 18 June 2009 (PHL)**: HA 31 -** L. Ahalia, Maam Cross, north east shore (L971402), 18 June 2009, EPA (DAM). L. Anaserd, Ballyconneely (L605443), 20 June, 10 July and 9 August 2006 also 17 July and 11 September 2007, EPA (DAM). L. Ardderry, Maam Cross (L982458), 25 May 2003 (PHL). L. Aunwillan, Carraroe (L936255), 7 June and 25 July 2007, EPA (DAM). L. Ballynahinch, Ballynahinch (L777478), 6 June 2007, EPA (DAM). L. Derryclare, Recess (L825485), 6 June 2007, EPA (DAM). L. Illauntrasna, Glentrasna, Garomna (L888254), 6 June and 25 July 2007, EPA (DAM). L. Nahasleam, Maam Cross (L972440), 20 June and 8 August 2006, 7 June and 1 August 2007, EPA (DAM). L. Shindilla, Derreennacreeva, south shore (L958460), 20 June and 9 August 2006, EPA (DAM)**: HA 32 -** L. Ballynakill, Cleggan (L639581), 5 June 2007, EPA (DAM). L. Enask, Beaghcauneen (L662468), 6 June and 17 July 2007, EPA (DAM). L. Fadda, Beaghcauneen (L668455), 6 June and 17 July 2007, EPA (DAM). L. Tully, Tully Cross (L695618) and L. Pollacappul, Kylemore (L754582), 5 June 2007, EPA (DAM). **KERRY: HA 21 -** L. Cloonaghlin, Waterville (V611708), 19 June and 24 July 2008, EPA (DAM). L. Currane, Waterville (V535664), 18 June and 10 September 2008, EPA (DAM). L. Inchiquin, Kenmare (V837629), 18 June and 10 September 2008, EPA (DAM)**: HA 22 -** L. Acoose, Slievanore, Killorglan (V755854), 19 June and 9 July 2008, EPA (DAM). L. Caragh, Killorglin (V719904), 15 July 2008, EPA (DAM). L. Cummernamuck, Killorglin (V745897), 20 June and 18 July 2008, EPA (DAM). L. Guitane, Crohane, Killarney (W025846), 8 July 2008, EPA (DAM). L. Leane, Killarney: Victoria Bay (V946900), July 1972 (DAM); Castlelough Bay, north shore (V966866) and east shore (V975873), 27 June 1973; Brickeen (V937850), 3 July 1973; Fossa (V907913), 27 July 1973,

all DJD/DAM (Douglas and Murray, 1980); L. Leane, Killarney (V931886), 24 June 2008, EPA (DAM). R. Laune, outflow from L. Leane (V900910), June and July 1973 (Douglas and Murray, 1980). Muckross Lake, Killarney: Dundag Bay (V964858), June and July 1973 (Murray, 1974); Goleen Bay (V963853), 20 June 1973 (Douglas and Murray, 1980); mid lake, 24 June and 16 July 2008, EPA (DAM). L. Slat, Doon, east shore (Q613080), 7 July 1973, JPOC (DAM). R. Flesk, u/s Newbridge (V978900), 4 May 1973 (Douglas and Murray, 1980) and u/s Newbridge (V973895), June and July 1973, DJD/DAM (Ashe, 1982). Upper Lake, Killarney, Gortroe (V918818), August 1972 (Douglas and Murray, 1980) and mid lake (V909821), 24 June and 17 July 2008, EPA (DAM)**: HA 23 -** L. Gill, Castlegregory (Q603139), 25 June 2008, EPA (DAM). **LEITRIM: HA 26 -** L. Acres, Drumshanbo (G968099), 11 June 2008, EPA (DAM). L. Boderg, Dromod (N020910), 25 June 2008, EPA (DAM). L. Bofin, Dromod (N049894), 24 June 2008, EPA (DAM). **LONGFORD: HA 26 -** L. Forbes, Cloonard, Newtownforbes (N084821), 25 June 2008, EPA (DAM). **MAYO: HA 26 -** L. Nanoge, Urlaur (M506903), 18 June 2008, EPA (DAM)**: HA 30 -** L. Aille, Aille, Westport (M071807), 24 June and 8 August 2008, EPA (DAM). L. Carra, Keel Bridge, Ballinrobe (M165680), 19 June 2008, EPA (DAM). L. Mask, Toormakeady (M113702), 24 June 2008, EPA (DAM)**: HA 32 -** L. Feeagh, Newport (L975983), 25 June and 24 July 2008, EPA (DAM). L. Moher, Liscarney, Westport (L977766), 24 June 2008, EPA (DAM). Lough near Westport - Ballin Lough? (L9984), July 1911, PHG (Grimshaw, 1912). Ballin L., Westport, north shore (L996882), 25 June 2008, EPA (DAM). L. Knappabeg, Westport (M010803), 24 June and 23 July 2008, EPA (DAM)**: HA 33 -** L. Keel, Achill Island, south east shore (F650051), 17 June 2008, EPA (DAM). Glendarary, Achill Island (L723997), July 1911, JNH (Grimshaw, 1912). L. Carrowmore, Bangor Erris, Cloontakilla Bay (F851253), 17 June 2008, EPA (DAM)**: HA 34 -** L. Conn, Poulwansha (G160096) and Errew (G167118), 3 September 1965, AJOS (Murray, 1972); L. Conn, Brackwansha (G191098), 18 June 2008, EPA (DAM). L. Cullin, Drummon Wood, Pontoon (G235046), 18 June 2008, EPA (DAM). L. Washpool, Ballycarra (M219842), 19 June 2008, EPA (DAM)**: Clare Island -** L. Leinapollbauty, Lecarrow (L691856), 5 June 2002, DAM/WM (Murray and Murray, 2003). **MONAGHAN: HA 36 -** L. Avagnon, Latton, Cotehill (H688133), 6 June and 11 July 2007, EPA (DAM). **ROSCOMMON: HA 26 -** L. Meelagh, Keadew (G901117), 11 June 2008, EPA (DAM). L. Key, Boyle, wharf in Forest Park (G848040), 11 June 2008, EPA (DAM). **SLIGO: HA 26 -** L. Gara, Cuppanagh, Cloonlough (G714013), 26 June 2008, EPA (DAM)**: HA 35 -** L. Arrow, Ballinafad (G789123), 11 June 2008, EPA (DAM). L. Templehouse, Ballymote (G619182), 11 June 2008, EPA (DAM). **TIPPERARY: HA 25 -** L. Derg, Dromineer, east shore (M809858), 17 June 2009, EPA (DAM). **TYRONE: HA 1 -** L. Moor, Altishane, Strabane (H446984), 17 August 2011 (PHL). **WATERFORD: HA 16 -** L. Knockaderry, Knockaderry (S496062), 19 August 2009, EPA

(DAM). **WESTMEATH: HA 26 -** L. Derravaragh, Crookedwood (N468634), 25 June 2007, EPA (DAM). L. Killinure, Wineport (N067458), 26 June 2007, EPA (DAM). **WICKLOW: HA 10 -** Vartry Reservoir, south east shore, Roundwood (O214002), July 1987, HD (Murray, 2005).

Tribe Tanytarsini Zavřel, 1917

***Cladotanytarsus* (*Cladotanytarsus*) *atridorsum* Kieffer, 1924**

ANTRIM: HA 5 - L. Mourne, Carrickfergus (J415924), 8 May 1999 (PHL). R. Ravernet, Baileysmill, Hillsborough (J324587), 22 June 2000 (Langton, 2002)**: Rathlin Island -** lough in Nature Reserve (D095505), 24 July 2000 (Langton, 2002) and L. Ally (D154497), 5 July 2004 (PHL). **ARMAGH: HA 3 -** L. Neagh, Oxford Island, Lurgan (J044621), 18 July 2003 (PHL). **CAVAN: HA 36 -** L. Annagh, Butler's Bridge (H394125), 3 July 2007, EPA (DAM). L. Garty, Arvagh (N278978), 12 April 2007, EPA (DAM). L. Lavey, Stradone (H503025), 11 April 1997 (Murray, 2005). R. Erne, Dingin's Bridge (N331948), 27 August 1982 (Hayes, 1991)**: HA 7 -** L. Ramor, Virginia (N603871), 27 June 2005, DAM/WM (DAM). **CLARE: HA 25 -** L. Graney, Doorus (R557924), 11 August 2009, EPA (DAM). L. Derg: d/s Killaloe (M705715), 21 April 2009 and Mountshannon, west shore (R718861), 18 September 2009, EPA (DAM). L. Alewnaghta, Whitegate, west shore (R758908), 20 April 2009, EPA (DAM)**: HA 27 -** L. Bunny, Aughrim, south east shore (R377965), 2 May, 4 July, 1 August and 5 September 2006 (EPA) also 14 July and 14 September 2009, EPA (DAM). L. Cullaun, Corrofin, mid east shore (R317905), 7 June, 4 July, 1 August and 5 September 2006, EPA (LPR/PHL) also 16 June and 14 September 2009, EPA (DAM). L. Inchiquin, Corrofin, south east shore (R272894), 16 June 2009 and west shore (R266896), 15 July 2009, EPA (DAM). L. Muckanagh, Tubber, Corrofin, mid lake (R368926), 2 May, 3 July, 2 August and 5 September 2006, EPA (LPR/PHL). L. Cullaunyheeda, Kilkishen (R488746), 13 August 2009, EPA (DAM). L. Atedaun, Corrofin (R297884), 21 April and 16 June 2009, EPA (DAM)**: HA 28 -** L. Lickeen, Kilfenora, mid lake (R175909), 6 June 2006, EPA (DAM), west shore (R168909), 11 June and 21 July 2009, EPA (DAM)**: HA 29 -** L. Skeardeen, Kilcorkan (R388991), 7 April 2009, EPA (DAM). **CORK: HA 19 -** Carrigdroihid Reservoir, Ashton (W360703), 3 April, 16 June and 14 August 2008, EPA (DAM). Iniscarra Reservoir, Coachford (W477717), 31 July 2008, EPA (DAM). L. Allua, Ballingeary (W180652), 17 June 2008, EPA (DAM)**: HA 20 -** L. Coolkllure, Dunmanway (W177539), 17 June 2008, EPA (DAM). L. Curraghalicky, Drinagh, Dunmanway (W234046), 17 June 2008, EPA (DAM)**: HA 21 -** L. Bofinna, Bantry (W041488), 18 June and 13 August 2008, EPA (DAM). **DERRY: HA 1 -** Upper Reservoir, Creggan (C417173), 18 May 2001 and 17 May 2002, PHL (PHL)**: HA 3 -** Downhill Lake, Bishops Gate, Coleraine (C762361), 18 May 2000 (Langton, 2002). L. Neagh: (H9080), no date (McLarnon and Carter, 2000); Ballyronan (H948862), 1988 (Tokeshi, 1990) also10 May and 4

August 2000 (Langton, 2002) and 22 May 2011 (PHL). **DONEGAL: HA 36 -** L. Golagh, Ballyshannon (G965655), 8 June and 7 July 2009, EPA (DAM). L. Tullynasiddagh, Ballyshannon (G983656), 7 July 2009, EPA (DAM)**: HA 37 -** L. Eske, Donegal (G973844), 8 June 2009, EPA (DAM). L. Shinvagh, Carricode (H005675) and stream inflow to L. Shinvagh, Carricode (H005673), 27 April 2002 (PHL)**: HA 38 -** L. Mulladerg, The Rosses (B775199), 19 July 2000 (Langton, 2002). L. Dunglow, The Rosses, south east shore (B783112), 12 August 1982 (BPH). L. Anure, Loughanure, east shore (B818162), 17 June and 12 August 2009, EPA (DAM). L. An tSeisigh, Portnablagh (Sheephaven) (C043361), 16 June and 28 July 2009, EPA (DAM). L. Glen, Glen (C105292), 16 June 2009, EPA (DAM). L. Greenan, Loughsalt, Kilmacrennan (C117262), 16 June 2009, EPA (DAM). L. Keel, Kilmacrennan (C158243), 16 July 2009, EPA (DAM). L. Fallaneas, Kindrum (C173424), 30 April, 16 June and 9 September 2009, EPA (DAM). L. Kindrum, Kindrum, Fanad (C186430), 16 June, 22 July and 9 September 2009, EPA (DAM). L. Kinny, Fanad (C204442), 16 June and 9 September 2009, EPA (DAM). L. Kiltoris, Dawros, Ardara (G675976), 17 June, 30 July and 7 September 2009, EPA (DAM)**: HA 40 -** R. Keenagh, Hugh Roe's Bridge, Umgall (C454543), 16 August 1982, BPH (Murray, 2005). **DOWN: HA 5 -** L. Henney, Ballynahinch (J348586), 22 June 2000 (Langton, 2002). **FERMANAGH: HA 36 -** L. Erne, Lower: Brocagh Point, Boa Island (H108626), 29 June 2000 (Langton, 2002) and 17 August 2011 (PHL); Black Bay (H072639), 27 April 2002 (PHL). L. Lattone, Kiltyclogher (H003456) and L. Macnean, lower, Belcoo (H085384), 29 June 2000 (Langton, 2002). **GALWAY: HA 25 -** L. Derg, Woodford (M794964), 24 May 2003 (PHL)**: HA 29 -** L. Caherglassaun, Gort (M412061), 13 June and 18 September 2007, EPA (DAM). L. Coole, Gort (M425037), 27 July 2009, EPA (DAM). L. Rea, Loughrea, east shore (M624153), 25 May 2003 (PHL)**: HA 30 -** L. Anillaun, Maam Cross (L980470), 5 September 2007, EPA (DAM). L. Ballyquirke, Moycullen (M232317), 8 August 2007, EPA (DAM). L. Bofin, Maam Cross (M034441), 7 June 2007, EPA (DAM). L. Corrib Upper, Oughterard (M138486), 14 August 2007, EPA (DAM); L. Corrib, Knockferry (M236415), 28 April 1980, BC (DAM). L. Maumwee, Maam Cross (L977485), 8 June 2007, EPA (DAM). Stream and pool at layby on road N59, Moycullen (M204326), 25 May 2003 (PHL)**: HA 31 -** L. Anaserd, Ballyconneely (L605443), 6 June 2007, EPA (DAM). L. Aunwillan, Carraroe (L936255), 25 July 2007, EPA (DAM). L. Ballynahinch, Ballynahinch (L777478), 6 June 2007, EPA (DAM). L. Ballynakill, Gorumna (L867236), 15 May 2006, EPA (DAM)**: HA 32 -** L. Ballynakill, Cleggan (L639581), 5 June and 1 July 2007, EPA (DAM). L. Fadda, Beaghcauneen (L668455), 17 July 2007, EPA (DAM). L. Tully, Tully Cross (L695618), 19 July 2007, EPA (DAM). **KERRY: HA 22 -** Caragh, Killorglin (V719904), 15 July 2008, EPA (DAM). L. Leane, Killarney, Muckross Boathouse (V965866), 29 August 1987, NOM (LJH). Muckross Lake, Muckross, Killarney (V950853), 24 April 2008, EPA (DAM)**: HA 23 -** L. Gill, Castlegregory (Q603139), 29 April and 25 June 2008, EPA (DAM). **LAOIS: HA 15 -** R. Nore, u/s Durrow (S416787), 27 August 1981

(Hayes, 1991). **LEITRIM: HA 26 -** L. Acres, Drumshanbo (G968099), 11 June 2008, EPA (DAM). L. Boderg, Dromod (N020910), 25 June 2008, EPA (DAM). L. Bofin, Rinnafarna, Dromod (N036891), 29 July 2008, EPA (DAM). L. Rinn, Mohill (N095943), 25 June and 10 September 2008, EPA (DAM)**: HA 35 -** L. Glenade, Glenade, Manorhamilton (G831457), 10 June 2008, EPA (DAM). **LIMERICK: HA 24 -** Bleach L., Pallaskenry (R441569), 28 July and 16 September 2009, EPA (DAM). **LONGFORD: HA 26 -** L. Forbes, Cloonard, Newtownforbes (N084821), 14 May, 27 August and 10 September 2008, EPA (DAM). **MAYO: HA 30 -** L. Aille, Aille, Westport (M071807), 22 April and 24 June 2008, EPA (DAM). L. Carra, Keel Bridge, Ballinrobe (M165680), 28 April and 19 June 2008, EPA (DAM). L. Mask, Toormakeady, west shore (M113702), 24 June 2008, EPA (DAM)**: HA 32 -** L. Glencullin, Delphi, north west shore (L815699), 26 June 2008, EPA (DAM). L. Feeagh, Newport (L975983), 25 June 2008, EPA (DAM). L. Ballin, Westport: south shore (L994878), 22 April; north shore (L996882), 25 June and 18 September 2008, EPA (DAM)**: HA 33 -** L. Keel, Keel, Achill Island (F651059), 16 July 2008, EPA (DAM). L. Carrowmore, Bangor Erris: Cloontakilla Bay (F851253), 17 June 2008; Derreens, north shore (F833299), 28 July 2008, EPA (DAM)**: HA 34 -** L. Conn, Brackwansha (G191098), 18 June 2008, EPA (DAM). L. Cullin, Drummin Wood, north shore (G235046), 20 August 2008, EPA (DAM). L. Lannagh, Castlebar, west shore (M109883), 21 August 2008, EPA (DAM). L. More, Ballynagoraher (G115044), 12 September 2006, EPA (DAM)**: Clare Island -** Creggan L., Lecarrow (L689857), 11 June and 1 September 1998 also 10 June and 6 October 1999 (Fahy, 2002). L. Poirtin Fuinch (L706857), 2 June, 7 and 13 July, 13 August and 7 September 1999 (Fahy, 2002). **OFFALY: HA 25 -** bog lake 1, Turraun (N172185), 3 June 1999 (DAM) and 16 July 1996, WT (DAM). **ROSCOMMON: HA 26 -** R. Suck, Ballyforan (M817464), 28 July 1982 (Hayes, 1991). L. Meelagh, Keadew (G901117), 11 June 2008; L. Annaghmore, Strokestown, Elphin (M902838), 12 June 2008; L. Cavetown, Boyle (M832974), 11 June and 17 July 2008; L. Glinn, Loughglinn, Castlerea (M634865), 14 May and 12 June 2008; L. Key, Boyle (G838057), 14 April and 6 August 2008; L. O'Flynn, Ballinlough, south east shore (M585786), 9 September 2008, all EPA (DAM). **SLIGO: HA 26 -** L. Gara, Cuppanagh, Cloonlough (G714013), 26 June 2008, EPA (DAM)**: HA 34 -** L. Talt, Gleneask (G402151), 18 June 2008, EPA (DAM). **TIPPERARY: HA 25 -** L. Derg, Dromineer, east shore (M809858), 17 June 2009, EPA (DAM). **WATERFORD: HA 16 -** Ballyscanlan Reservoir, Tramore (S540030), 22 April and 3 July 2009; L. Ballyshunnock (Reservoir), Portlaw (S455095), 20 April and 2 September 2009 and L. Knockaderry, Knockaderry (S496062), 2 April 2009, all EPA (DAM)**: HA 17 -** Belle Lake, Dunmore East (S665049), 22 April and 2 July 2009, EPA (DAM). **WESTMEATH: HA 25 -** L. Owel, Mullingar (N421566), May 1973, NH (Hayes, 1980). L. Ennell, Tudenham (N415466), 27 June 1966 (Murray, 1972)**: HA 36 -** L. Bane, Collinstown (N550712), 26 June, 24 July and 22 August 2006 (EPA).

***Cladotanytarsus* (*Cladotanytarsus*) *difficilis* Brundin, 1947**
CAVAN: HA 7 - L. Mullagh, Mullagh (N680856), 23 May 1968 (Murray, 1972). **CLARE: HA 25 -** L. Graney, Caher, south shore (R568907), 24 May 2003 (PHL).

***Cladotanytarsus* (*Cladotanytarsus*) *iucundus* Hirvenoja, 1962**
CLARE: HA 27 - L. Bridget, Derrymore, Badyke, east shore (R558797), 29 July 2009, EPA (DAM). L. Cullaun, Corrofin, mid east shore (R317905), 7 June 2006, EPA (PHL). L. Muckanagh, Tubber, Corrofin, mid lake (R368926), 3 April, 7 June, 3 July, 2 August and 5 September 2006, EPA (PHL/LPR)**: HA 28 -** L. Naminna, Boolteagh, mid lake (R179708), 11 June 2009, EPA (DAM). **CORK: HA 20 -** L. Ballin, Leap (W199389), 21 August 2008, EPA (Murray, 2010). **DONEGAL: HA 1 -** L. Mourne, Ballybofey (H069900), 9 June 2009, EPA (DAM)**: HA 36 -** L. Tullynasiddagh, Ballyshannon (G983656), 7 September 2009 and L. Unshin, Ballyshannon (G951637), 8 June and 6 July 2009, EPA (DAM)**: HA 38 -** L. Anure, Loughanure, east shore (B818162), 12 August 2009 and L. Kindrum, Kindrum, Fanad (C186430), 16 June 2009, EPA (DAM). **KERRY: HA 23 -** L. Gill, Castlegregory (Q603139), 18 September 2008, EPA (Murray, 2010). **MAYO: HA 32 -** L. Moher, Liscarney, Westport (L977766), 24 June 2008, EPA (Murray, 2010). **SLIGO: HA 35 -** L. Easky, Ox Mountain (G446230), 18 June 2008, EPA (Murray, 2010).

***Cladotanytarsus* (*Cladotanytarsus*) *lepidocalcar* Krüger, 1938**
CLARE: HA 27 - Castle Lake, Kilmurry, Sixmilebridge, west shore (R484690), 17 July 2009; Gortglass L., Killadysert, north shore (R223599), 15 September 2009; L. Cullaunyheeda, Kilkishen (R484746), 12 June and 17 September 2009, all EPA (DAM). **DONEGAL: HA 36 -** L. Tullynasiddagh, Ballyshannon (G983656), 8 June 2009, EPA (DAM)**: HA 38 -** L. Kindrum, Kindrum, Fanad (C186430), 16 June 2009 and L. Shannagh, Magheradrumman, Fanad Penninsula (C216450), 9 September 2009, EPA (DAM)**: HA 39 -** L. Gartan, Church Hill, mid lake (C055159), 22 July 2009 and L. Akibbon, Church Hill (C068184), 11 June 2009, EPA (DAM). **GALWAY: HA 30 -** L. Ballyquirke, Moycullen (M232317), 8 August 2007, EPA (Murray, 2010). L. Corrib Upper, Oughterard (M138486), 11 June 2007, EPA (Murray, 2010). **KERRY: HA 22 -** L. Leane, Killarney (V931886), 24 June 2008, EPA (DAM). **LEITRIM: HA 26 -** L. Rinn, Mohill (N095943), 25 June and 10 September 2008, EPA (DAM). **LOUTH: HA 6 -** L. Mentrim, south west Ardee (N913879), 27 June 2005, DAM/WM (DAM). **MAYO: HA 33 -** L. Keel, Keel, Achill Island (F651059), 16 July 2008; L. Cross, Drumreagh, Belmullet, north east shore (F651299), 17 June 2008 and west shore (F645293), 14 August 2008, EPA (DAM). **MONAGHAN: HA 36 -** L. Inner, Dartery, Drum (H625173), 6 June and 10 July 2007, EPA (DAM). **ROSCOMMON: HA 26 -** L. Cavetown, Boyle (M832974), 17 July 2008 and L.

Glinn, Loughglinn, Castlerea (M629870), 12 June 2008, EPA (DAM). **SLIGO: HA 26 -** L. Gara, Monastredan (M708996), 5 September 2008, EPA (DAM). **WATERFORD: HA 17 -** Belle Lake, Dunmore East (S665049), 2 July 2009, EPA (DAM). **WESTMEATH: HA 7 -** L. Lene (N510685), 22 August 2006, EPA (DAM). **WICKLOW: HA 10 -** Vartry Reservoir, north basin, Roundwood (O205050), 3 September 2009, EPA (DAM).

***Cladotanytarsus mancus* (Walker, 1856)**

ANTRIM: HA 3 - L. Neagh, Antrim Bay (J135866), 22 May 2011 (PHL)**: Rathlin Island** – L. Ally (D154497), 5 July 2004 (PHL). **CAVAN: HA 36 -** Glasshouse L., Killashandra (H270060), 7 June and 18 July 2007, EPA (DAM). L. Annagh, Butler's Bridge (H394125), 3 July 2007, EPA (DAM)**: HA 7 -** L. Ramor, Virginia (N595870), 4 July 1967 (Murray, 1972). L. Mullagh, Mullagh (N680856), 6 June 1968 (Murray, 1972). **CLARE: HA 25 -** L. Graney, Doorus, west shore (R556930), 4 May, 8 June, 3 August and 6 September 2006; L. Alewnaghta, Whitegate, west shore (R758908), 20 April 2009 and L. Derg, Terryglass (M861008), 20 April 2009, EPA (DAM)**: HA 27 -** L. Bridget, Derrymore, Badyke, east shore (R563803), 12 June 2009, EPA (DAM). L. Cullaun, Corrofin, mid east shore (R317905), 7 June 2006, EPA (PHL). L. Muckanagh, Tubber, Corrofin, mid lake (R368926), 7 June and 14 September 2009 and L. Cullaunyheeda, Kilkishen (R492748), 17 September 2009, EPA (DAM)**: HA 28 -** L. Keagh, Milltown Malbay, north shore (R100813), 15 September 2009, EPA (DAM). **CORK: HA 19 -** L. Aderry, Castlemartyr (W935730), 4 June 1969, NH (Bracken and Murray, 1973). L. Gouganebarra, Inchegeelagh (W009060), 5 June 1966, 27 July 1967 and L. Allua, Inchegeelagh (W201661), 27 July 1968 (Murray, 1972). **DERRY: HA 1 -** Upper Reservoir, Creggan (C417173) and pool near Reservoir, Creggan (C414171), 18 May 2001 (PHL)**: HA 3 -** R. Bann, Coleraine (C854304), 25 May 2000 and 30 June 2001 (PHL). Pond 1, Magherafelt Golf Course, Traad Point (H950873), 10 May 2000 (Langton, 2002). L. Neagh, Ballyronan (H948862), 10 May 2000 (Langton, 2002) and 22 May 2011 (PHL). **DONEGAL: HA 36 -** L. Golagh, Ballyshannon (G965655), 7 July 2009, EPA (DAM)**: HA 37 -** L. Eske, Donegal (G973844), 14 July 2009, EPA (DAM)**: HA 38 -** L. Nasnahida, Doocharry, Dunglow (B852076), 6 August 2009, EPA (DAM). L. Dunlewy, Dunlewy (B926193), 19 July 2000 (Langton, 2002). L. An tSeisigh, Portnablagh (Sheephaven) (C043361), 16 June 2009, EPA (DAM). L. Keel, Kilmacrennan (C158243), 16 June and 16 July 2009 and L. Kindrum, Kindrum, Fanad (C186430), 22 July 2009, EPA (DAM)**: HA 39 -** L. Fern, Millford (C180233), 16 June 2009, EPA (DAM). **FERMANAGH: HA 36 -** L. Erne, Lower, Brocagh Point, Boa Island (H108626), 29 June 2000; L. Lattone, Kiltyclogher (H003456), 29 June 2000 and L. Macnean, lower, Belcoo (H085384), 29 June 2000, all Langton (2002). **GALWAY: HA 25 -** L. Derg, Woodford (M794964), 24 May 2003 (PHL)**: HA 30 -** L. Ballyquirke, Moycullen (M232317), 8 August

2007, EPA (DAM). **KERRY: HA 22 -** L. Acoose, Slievanore, Killorglin (V755854), 9 July 2008, EPA (DAM). L. Caragh, Killorglin (V719904), 20 June 2008, EPA (DAM). L. Leane, Killarney, Castlelough Bay, north shore (V966866), 1973 and Muckross Lake, Killarney, Dundag Bay (V964858), July 1973 (Douglas and Murray, 1980). **LEITRIM: HA 26 -** L. Allen, Mountallen, Drumshanbo (G950145), 10 June 2008; L. Boderg, Derrycarne, north west shore (N013915), 10 September 2008; L. Bofin, Dromod (N049894), 24 June 2008 and Rinnafarna (N036891), 29 July 2008 and L. Rinn, Mohill (N095943), 10 September 2008, all EPA (DAM). **LIMERICK: HA 24 -** Bleach L., Pallaskenry (R441569), 16 September 2009, EPA (DAM). **MAYO: HA 26 -** L. Nanoge, Urlaur (M506903), 24 April 2008, EPA (DAM)**: HA 30 -** L. Mask, Toormakeady, west shore (M113702), 24 June 2008, EPA (DAM)**: HA 32 -** L. Doo, Delphi, north east shore (L834689), 22 August 2004, DAM/WM (Murray, 2005). L. Feeagh, Newport (L975983), 25 June 2008 and L. Knappabeg, Westport (M010803), 23 July 2008, EPA (DAM)**: HA 33 -** L. Carrowmore, Bangor Erris: Cloontakilla Bay (F851253), 17 June and Derreens, north shore (F833299), 28 July 2008, EPA (DAM)**: HA 34 -** L. Conn, Gillaroo Bay, Massbrook (G175051), 29 August 1964 and Brackwansha (G191098), 10 April 1965, AJOS (Murray, 1972) also Illannaglashy (G207070), 20 August 2008, EPA (DAM). L. Cullin, Drummin Wood, north east shore (G235048), 22 August 1995, DAM/WM (DAM); Drummin Wood, north shore (G235046), 20 August 2008, EPA (DAM).). L. Lannagh, Castlebar, west shore (M109883), 21 August 2008; north east basin (M137899), 26 September 2008, EPA (DAM) and L. Levally, Massbrook (G146043), 23 July 2008, EPA (DAM). **MONAGHAN: HA 36 -** Summerhill L., Magheraveely (H490280), 28 June 2000 (Langton, 2002). **ROSCOMMON: HA 26 -** L. Glinn, Loughglinn, Castlerea (M634865), 14 May 2008; L. Key, Boyle, wharf in Forest Park (G848040), 11 June 2008 and mid lake 6 August 2008 also L. O'Flynn, Ballinlough, south east shore (M585786), 12 June 2008, all EPA (DAM). L. Ree, Yew Point, Barley Harbour (N018485), 13 June 2007, EPA (DAM). **SLIGO: HA 26 -** L. Gara, Monastredan (M708996), 5 September 2008, EPA (DAM). **WATERFORD: HA 16 -** Ballyscanlan Reservoir, Tramore (S540030), 19 August and 1 September 2009 and L. Ballyshunnock (Reservoir), Portlaw (S455095), 19 August 2009, EPA (DAM). **WESTMEATH: HA 36 -** L. Bane, Collinstown (N550712), 26 June 2006 (EPA).

***Cladotanytarsus nigrovittatus* (Goetghebuer, 1922)**

ANTRIM: Rathlin Island - pool 3, east of lighthouse (D156516), 24 July 2000 (Langton, 2002). **CAVAN: HA 36 -** L. Sillan, Shercock, north east shore (H708071), 20 May 1974 (DAM). **CLARE: HA 27 -** L. Muckanagh, Tubber, Corrofin, south east shore (R370922), 14 September 2009, EPA (DAM)**: HA 28 -** L. Naminna, Boolteagh, mid lake (R179708), 11 June and north west shore (R178710), 7 July 2009, EPA (DAM). **CORK: HA 19 -** Carrigdroihid

Reservoir, Ashton (W360703), 14 August 2008, EPA (DAM)**: HA 20 -** L. Tooreen, Crookhaven (V790259), 17 September 2008, EPA (DAM). **DONEGAL: HA 38 -** L. Veagh, north east shore-1, Glenveagh (C034223), 19 July and north east shore-2 (C039231), 24 July 1985 (Heneghan, 1986)**: HA 39 -** L. Gartan, Church Hill, mid lake (C055159), 10 June 2009, EPA (DAM). **FERMANAGH: HA 36 -** L. Lattone, Kiltyclogher (H003456), 29 June 2000 (Langton, 2002). L. Macnean, upper, Belcoo (H042403), 29 June 2000 (Langton, 2002). **MAYO: HA 32 -** L. Glencullin, Delphi, north west shore (L815699), 26 June 2008, EPA (DAM)**: HA 34 -** R. Moy, Bellanacurra (G403047), 29 August 1982 (Hayes, 1991). **MEATH: HA 7 -** R. Boyne, Ardsallagh, eel weir (N896632), 25 September 1983 (DAM). **ROSCOMMON: HA 26 -** R. Suck, Castlecoote (M809627), 16 July 1981 (Hayes, 1991). L. Annaghmore, Strokestown, Elphin (M902838), 8 April 2008 and L. O'Flynn, Ballinlough, south east shore (M585786), 12 June 2008, EPA (DAM). **WICKLOW: HA 9 -** Pollaphuca Reservoir, Blessington Bridge (N990144), 17 June 2002, DAM/WM (Murray, 2005).

***Cladotanytarsus pallidus* Kieffer, 1922**

ANTRIM: HA 3 - L. Neagh, Antrim Bay (J135866), 22 August 2001 (PHL). **CLARE: HA 25** - L. Alewnaghta, Whitegate, west shore (R758908), 17 June 2009, EPA (DAM)**: HA 27 -** L. Bunny, Aughrim, south east shore (R377965), 14 July 2009, EPA (DAM). L. Muckanagh, Tubber, Corrofin, mid lake (R368926), 3 July and 2 August 2006, EPA (PHL). **DERRY: HA 1** - Upper Reservoir, Creggan, Derry (C417173), 18 May 2001 and 17 May 2002 (PHL)**: HA 2 -** Roe Valley Park, pool, Limavady (C679201), 9 June 2000 (Langton, 2002)**: HA 3 -** Downhill Lake, Bishops Gate, Coleraine (C762361), 18 May 2000 (Langton, 2002). R. Bann, Coleraine (C854304), 17 May 2002 (PHL). L. Neagh, Ballyronan (H948862), 4 July 2000 (Langton, 2002) and 22 May 2011 (PHL). **DONEGAL: HA 1 -** L. Finn, Fintown, Glenties (B911018), 9 June 2009, EPA (DAM)**: HA 36 -** L. Tullynasiddagh, Ballyshannon (G983656), 8 June 2009, EPA (DAM)**: HA 38 -** L. Dunglow, The Rosses, east shore (B787117), 19 July 2000 (Langton, 2002) and west shore (B782119), 5 August 2009, EPA (DAM). L. Anure, Loughanure, east shore (B818162), 17 June 2009, EPA (DAM). L. Nacung Upper, Dunlewy (B904191) and L. Dunlewy, Dunlewy (B926193), 19 July 2000 (Langton, 2002). L. Kiltoris, Dawros, Ardara (G675976), 30 July 2009, EPA (DAM)**: HA 39 -** L. Akibbon, Church Hill (C068184), 22 July and 9 September 2009, EPA (DAM). **GALWAY: HA 29 -** L. Rea, Loughrea, east shore (M624153), 25 May 2003 and L. Cutra, Gort (R485986), 24 May 2003 (PHL)**: HA 30 -** L. Ballyquirke, Moycullen (M232317), 14 September 2007, EPA (DAM). L. Beaghcauneen, Ballinaboy (L679470), 18 July 2007, EPA (DAM). L. Ross, Moycullen (M200363), 25 May 2003 (PHL)**: HA 31 -** L. Ballynakill, Gorumna (L867236), 20 June 2006 and L. Nahasleam, Maam Cross (L972440), 8 August 2006, EPA (DAM). **KERRY: HA 21 -** L. Brin, Derreeny

(V780775), 18 June 2008; L. Cloonaghlin, Waterville (V611708), 19 June 2008 and L. Currane, Waterville (V535664), 18 June and 22 July 2008, all EPA (DAM)**: HA 22 -** L. Cummernamuck, Killorglin (V745897), 18 July 2008; Muckross Lake, Muckross, Killarney (V950853), 18 September 2008 and Upper Lake, Killarney (V909821), 9 September 2008, all EPA (DAM). **LEITRIM: HA 26 -** L. Boderg, Derrycarne, north west shore (N013915), 29 July 2008, EPA (DAM). **LONGFORD: HA 26 -** L. Forbes, Cloonard, Newtownforbes (N084821), 25 June 2008, EPA (DAM). **MAYO: HA 30 -** L. Aille, Aille, Westport (M071807), 8 August 2008 and L. Moher, Liscarney, Westport (L977766), 18 September 2008, EPA (DAM). L. Doo, Delphi, north east shore (L834689), 22 August 2002, DAM/WM (DAM)**: HA 34 -** L. Levally, Massbrook (G146043), 25 June 2008, EPA (DAM). **MONAGHAN: HA 36 -** Summerhill L., 2, Magheraveely (H490280), 28 June 2000 (Langton, 2002). **ROSCOMMON: HA 26 -** L. Key, wharf in Forest Park, Boyle (G848040), 11 June 2008, EPA (DAM). **WATERFORD: HA 16 -** L. Knockaderry, Knockaderry (S496062), 2 April 2009 and Ballyscanlan Reservoir, Tramore (S540030), 3 July 2009, EPA (DAM)**: HA 17 -** L. Carrigavantry, Tramore (S548022), 3 July and 1 September 2009, EPA (DAM). **WESTMEATH: HA 36 -** L. Bane, Collinstown (N550712), 26 June 2006 (EPA)**: HA 7 -** L. Lene (N510685), 22 August 2006, EPA (DAM).

***Cladotanytarsus vanderwulpi* (Edwards, 1929)**

ANTRIM: HA 4 - R. Bush, Seneirl Bridge (C943362), 16 July 2000 (Langton, 2002). **CARLOW: HA 12 -** R. Slaney, Motabower Bridge (S832778) and Kildavin (S899597), 28 July 1981 also R. Derreen, Acann Bridge (S900781), 29 July 1981 (Hayes, 1991). **CLARE: HA 25 -** L. Derg, Terryglass (M861008), 20 April 2009, EPA (DAM). **CORK: HA 20 -** R. Ovane, Pierson's Bridge (W023454), 24 August 1983, BPH (Hayes, 1991). **DERRY: HA 2 -** R. Roe, Largy Bridge, Limavaddy (C681202), 14 July 2000 (Langton, 2002)**: HA 3 -** R. Bann, Coleraine (C854304), 25 May 2000 and L. Neagh, Ballyronan (H948862), 27 April 1999 (PHL). R. Moyola, New Bridge, Magherafelt (H955905), 4 July 2000 (Langton, 2002). **DONEGAL: HA 1 -** R. Deele, Legland, Raphoe (C136028), 19 July 2000 (Langton, 2002)**: HA 39 -** L. Akibbon, Church Hill (C068184), 23 April 2009, EPA (DAM). L. Gartan, Church Hill, north shore (C065173), R. Glashagh, Drumbologe, Letterkenny (C096153) and R. Swilly, Newmills, Letterkenny (C125092), 18 July 2000 (Langton, 2002)**: HA 40 -** R. Keenagh, Hugh Roe's Bridge, Umgall (C454543), 16 August 1982 (Hayes, 1991). **FERMANAGH: HA 35 -** Glen R., Garrison (G943522), 29 June 2000 (Langton, 2002). **GALWAY: HA 26 -** R. Tirur, Newbridge (M492699), 16 August 1981 (Hayes, 1991)**: HA 31 -** L. Nahasleam, Maam Cross (L972440), 12 September 2006, EPA (DAM). **KERRY: HA 18 -** R. Blackwater, Lacknastooka (R153008), 2 September 1981 (Hayes, 1991)**: HA 21 -** L. Currane, Waterville (V535664), 9 May 2008, EPA (DAM). R. Inny, Scarriff Bridge (V504696) and u/s Waterville (V525704), 24

August 1983 (Hayes, 1991)**: HA 22 -** L. Cummernamuck, Killorglin (V745897), 18 July 2008, EPA (DAM). R. Caragh, Blackstones Bridge, ds R. Acoose confluence (V710864), May 1976, JPOC (DAM). **KILKENNY: HA 15 -** R. Nore, Ballyragget (S445707), Norelands Bridge (S547436) and Brownsbarn Bridge (S618391), 28 August 1981, BPH (Hayes, 1991). **LAOIS: HA 15 -** R. Nore, Kilbricken (S362898), Shanahoe Bridge (S407858) and u/s Durrow (S416787), 27 August 1981; also Athanagh (S423763), 28 August 1981 (Hayes, 1991). **LIMERICK: HA 25 -** R. Mulkear, Cappamore (R775514), d/s Cappamore (R779504) and Dromkeen Bridge (R741480), 8 September 1981, BPH (Hayes, 1991). **MAYO: HA 32 -** R. Bunowen, Louisburg, u/s of bridge (L807807), 5 August 2004, DAM/WM (DAM)**: HA 34 -** R. Moy, Bellanacurra (G403047), and Ballylahan (M277992), 29 August 1982 also Cloongullaun (G348016), 30 August 1982, BPH (Hayes, 1991). **MEATH: HA 6 -** R. Dee, Drumconrath (N910894), 27 July 1983 (Hayes, 1991)**: HA 7 -** R. Boyne: Bellinter Bridge (N894625), 18 June 1968 (Murray, 1972), 21 August 1988 (Murray, 1988) and 11 August 1999, DAM/WM (DAM); R. Boyne, Oldbridge (O045761) and d/s Oldbridge (O062753), 19 July 1989 (DAM). R. Blackwater: Poolboy Bridge, Navan (N871681), 18 August 1988; Bloomsbury Bridge, Oristown (N793741) and Donaghpatrick (N819723), 19 August 1988 (Murray, 1988). Tailings, interceptor ditch, Randalstown, Navan (N845712), 10 May 1995 (Murray, 2005). **OFFALY: HA 25 -** R. Little Brosna, Milltown Park (S068907), Sharavogue (S056953) and New Bridge (N016088), 2 September 1982, all BPH (Hayes, 1991). **ROSCOMMON: HA 26 -** R. Suck, Castlecoote (M809627), 16 July and Newtown (M844346), 15 August 1981 (Hayes, 1991). **SLIGO: HA 34 -** R. Moy, Cloonacool (G493168), Metal Bridge, Tobercurry (G464138) and Annagh (G466123), 30 August 1982 (Hayes, 1991). **TIPPERARY: HA 15 -** R. Nore, Nore Bridge (S133816) and Quaker Bridge (S211868), 27 August 1981 (Hayes, 1991). **WEXFORD: HA 11 -** R. Ounvarra, Ballycanew (T153519), 6 May 2006, DAM/WM (DAM)**: HA 12 -** R. Slaney, Clomahon (S933534) and Edernline Bridge (S977345), 29 July 1981 (Hayes, 1991). **WICKLOW: HA 12 -** R. Slaney, Stratford Bridge (S895930) and Kilmurray (S889856), 28 July 1981 (Hayes, 1991).

***Corynocera ambigua* Zetterstedt, 1837**

DERRY: HA 3 - L. Neagh, unspecified (H900800), no date (McLarnon and Carter, 2000). **GALWAY: HA 30 -** L. Corrib Upper, Derreneel, west shore (M119453), 18 April 1980, BC (Murray and Ashe, 1983). L. Mask, Inishard Point (M130605), 1997, SF (Ashe *et al*., 2000).

***Micropsectra apposita* (Walker, 1856)**

Synonym *Micropsectra contracta* Reiss, 1965 (from Sæther and Spies, 2013).

The following data also includes records as pupal exuviae determined from Langton (1991)

or Langton and Visser (2003) as "*Micropsectra apposita* (Walker, 1856) / *contracta* Reiss, 1965".

ANTRIM: HA 3 - L. Neagh, Antrim Bay (J135866), 17 March 2000 (PHL). Pond, Templepatrick (J232856), 26 July 2008 (PHL)**: HA 4 -** R. Bush, Seneirl Bridge (C943362), 16 July 2000 and Conogher Bridge (C963305), 10 September 2000 (Langton, 2002). R. Glendun (Glendun R.), Drumfresky, Cushendun (D193308), 2 July 2000 (Langton, 2002). **CAVAN: HA 36 -** R. Erne, Drumbarry (N462951), 17 August 1982 (Hayes, 1991). **DERRY: HA 1 -** Upper Reservoir, Creggan, Derry (C417173), 23 March, 26 April and 10 May 2001 (PHL)**: HA 3 -** Howell's Tarn, Ballywildrick, Coleraine (C766325), 7 April 2002; Downhill Forest, Coleraine (C760353) 17 March 1999 and 24 March 2002; Downhill Forest stream, Coleraine (C759348), 17 March 1999; Downhill Lake, Bishops Gate, Coleraine (C762361), 18 March 2006; Balinrees Reservoir, Coleraine (C794300), 9 June 2000; R. Agivey, Garvagh (C838154), 30 May 2002; R. Bann, Coleraine (C854304), 25 July 1999, 17 March 2000, 24 March 2002, 11 and 18 April 2010; Water Butt, Kylebeg, Coleraine (C856304), 2 April 2000; L. Neagh, Ballyronan (H948862), 31 May 2011, all PHL. **DONEGAL: HA 37 -** R. Eany, d/s Eanybeg confluence (G842815), 10 August 1982 (Hayes, 1991)**: HA 38 -** Glenlack, near L. Veagh, Glenveagh (C008190), 19 July 1985 (Heneghan, 1986)**: HA 39 -** R. Leannan, Drumaboden (C165218), 12 August 1982 (Hayes, 1991). **DOWN: HA 3 -** R. Kinnahalla, Hilltown (J239292), 26 July 2008 (PHL). **DUBLIN: HA 9 -** bog pool, Featherbed Mountain (O120190), 1 June 1974 (Dowling, 1975). **FERMANAGH: HA 36 -** L. Erne Lower, Black Bay (H072639), 22 March 2003 (PHL). R. Finn, Lisnanesnagh Bridge (H544337), 26 June 2000 (Langton, 2002) and 28 June 2000 (PHL). **GALWAY: HA 25 -** L. Derg, Woodford (M794964), 24 May 2003 (PHL)**: HA 26 -** R. Shiven, d/s Ballinaglass (M788494), 29 July 1981 (Hayes, 1991). R. Tirur, Newbridge (M492699), 16 August 1981 (Hayes, 1991)**: HA 30 -** L. Corrib, Derrenmeel, west shore (M150450), 1980, BC (DAM). L. Ross, Moycullen (M200363), 25 May 2003 (PHL). Pool at lay by on road N59, Moycullen (M204336), 25 May 2003 (PHL). R. Cregg, Addergoole Bridge, Addergoole (M324350), 16 August 1981 (Hayes, 1991). **KERRY: HA 22 -** R. Flesk, d/s Whitebridge (V987900), July 1976 (Ashe, 1982). **KILDARE: HA 7 -** R. Boyne, Ballyboggan (N639402), 9 July 1981 (Hayes, 1991). **KILKENNY: HA 15 -** R. Clogh, Clogh (S565790), 10 March 1976, CD (DAM). R. Nore, Norelands Bridge (S547436), 28 August 1981 (Hayes, 1991). **LAOIS: HA 15 -** R. Nore, Castletown Bridge (S326930) and Kilbricken (S362898), 27 August 1981 (Hayes, 1991). **LEITRIM: HA 35 -** L. Glenade, south east shore, Glenade, Manorhamilton (G831457), 10 June 2008, EPA (DAM). **LIMERICK: HA 25 -** R. Mulkear, Cappamore (R775514) and d/s Cappamore (R779504), 8 September 1981 (Hayes, 1991). **MAYO: HA 32 -** L. Ballin, Westport, north shore (L996882), 18 September 2008, EPA (DAM)**: HA 33 -** bog pools, R. Glenamoy, Glenamoy (F896345), February to June 1973

(Dowling, 1975). **MEATH: HA 7 -** bog ditch, Ballivor (N659548), 6 April 1984 (DAM)**: HA 8 -** Meadesbrook Stream, Meadesbrook, Kilmoon (O038594), 2 April 1973 and 3 March 1996 (DAM). R. Nanny, road bridge u/s Duleek (O035655), 6 June 2006, DAM/WM (DAM). **ROSCOMMON: HA 26 -** R. Suck, Ballyforan (M817464), 2 April and 16 July 1981; Mount Talbot (M813531), 14 August 1981 (Hayes, 1991). L. Key, wharf in Forest Park, Boyle (G848040), 11 June 2008, EPA (DAM). **SLIGO: HA 34 -** L. Talt, Gleneask (G402151), 10 April 2008, EPA (DAM). R. Moy, Metal Bridge, Tobercurry (G464138), 30 August 1982 (Hayes, 1991). **TIPPERARY: HA 15 -** R. Nore, Clonakenny (S116805), Nore Bridge (S133816) and Quaker Bridge (S211868), 27 August 1981 (Hayes, 1991)**: HA 25 -** R. Kilmastulla, Kilmastulla Bridge (R728698), 3 September 1981 (Hayes, 1991)**: HA 16 -** R. Suir, Cabragh (S124562), 6 July 1992 (Murray and Lynch, 1992). **WEXFORD: HA 12 -** R. Sow tributary, Garylough Mill, Screen (T076302), 6 May 2006, DAM/WM (DAM).

***Micropsectra aristata* Pinder, 1976**

CARLOW: HA 12 - R. Slaney, Motabower Bridge (S832778), 28 July 1981 (Hayes, 1991). **CLARE: HA 28 -** R. Annageeragh, Moyglass Bridge, d/s L. Doo (R078725), 30 July 1982 (Hayes, 1991). **CORK: HA 20 -** R. Ilen, Drimoleague (W098454), Madore (W103419) and Hollybrook (W117363), 24 August 1983 (Hayes, 1991). **DONEGAL: HA 37 -** R. Eany, d/s Eanybeg confluence (G842815), 10 August 1982 (Hayes, 1991)**: HA 39 -** R. Crana, Buncrana (C347328), 15 August 1982 (Hayes, 1991). **MAYO: HA 33 -** R. Owenmore, Bangor Bridge, Bangor Erris (F863228), 18 August 1983 (Hayes, 1991). R. Glenlassra, Belderg (G023407), 19 August 1983 (Hayes, 1991). **OFFALY: HA 25 -** R. Little Brosna, Brosna Bridge (S077938) and Sharavogue (S056953), 2 September 1982 (Hayes, 1991). **SLIGO: HA 35 -** R. Easky, Easky (G377378), 19 August 1983 (Hayes, 1991). **WEXFORD: HA 12 -** R. Slaney, Ballycarney (S967488), 29 July 1981 (Hayes, 1991). **WICKLOW: HA 10 -** R. Glencullen, Knocksink (O218180), 18 May 1987, DEM/DAM (Morgan and Murray, 1988; Morgan, 1989)**: HA 12 -** R. Derry, Balisland (S978645) and R. Slaney, Stratford Bridge (S895930), 28 July 1981 (Hayes, 1991).

***Micropsectra atrofasciata* (Kieffer, 1911)**

ANTRIM: HA 3 - Glenravel Water, Gartnageeragh, Newtown Crommelin (D147154), 2 July 2000 (Langton, 2002). L. Neagh, Antrim Bay (J135866), 13 October 2000 (PHL) and Churchtown Point (J056852), 13 October 2000 (Langton, 2002). Kells R., Shank Bridge, Kells (J126982), 20 June 2000 (Langton, 2002). R. Sixmilewater, Templepatrick (J227867), 4 May 1999 (PHL)**: HA 4 -** R. Bush: Seneirl Bridge (C943362), 16 July 2000; Stranocum (D009307) and Ballyhoe Bridge (D077294), 2 July 2000, all PHL (Langton, 2002). R. Glendun (Glendun

R.), Drumfresky, Cushendun (D193308) and R. Glenariff (Inver/Glenarif), Cushendall (D215205), 2 July 2000 (Langton, 2002). R. Glenaan, Cushendall (D218288) and R. Glenarm, Glenarm (D310148), 17 September 2011 (PHL)**: HA 5 -** R. Ravernet, Baileysmill, Hillsborough (J324587), 22 June 2000 (Langton, 2002). Raloo Water, tributary of R. Glenoe, Glenoe, Larne (J394967), 8 May 1999 (PHL). **CARLOW: HA 12 -** R. Slaney, Motabower Bridge (S832778), 28 July 1981 and R. Derreen, Acann Bridge (S900781), 29 July 1981 (Hayes, 1991). **CAVAN: HA 36 -** R. Erne: Kilsarin (N362910), 27 May 1982; Drumbarry (N462951), 17 August 1982; Dingin's Bridge (N331948) and Carrigan (N391935), 27 August 1982, all BPH (Hayes, 1991)**: HA 7 -** R. Barora tributary, Relaghbeg (N679907), 5 April 1968 and L. Mullagh, Mullagh (N680856), 23 May 1968 (Murray, 1972). **CLARE: HA 25 -** L. Derg, d/s Killaloe (M705715), 18 September 2009, EPA (DAM)**: HA 28 -** R. Caher: Holywell, 2.5km from source (M173069) and Murroogh, 5km from source (M153089), 27 October 1999 and 29 April 2000, all CB (Kelly-Quinn *et al*., 2003). **CORK: HA 18 -** R. Blackwater, Roskeen Bridge, Banteer (W444988), 1 September 1981 and Keale Bridge, Millstreet (W294936), 2 September 1981 (Hayes, 1991). **DERRY: HA 1 -** Upper Reservoir, Creggan, Derry (C417173), 23 March, 26 April and 10 May 2001 and 17 May 2002 (PHL). Lower Reservoir, Creggan, Derry (C422174), 26 April 2001 (PHL). Inflow to Upper Reservoir, Creggan, Derry (C413171), 26 April 2001 and 17 May 2002 (PHL)**: HA 2 -** R. Ballykelly, Clagan (C628209), 9 June 2000 and R. Owenbeg, Feeny picnic area, Feeny (C645058), 26 June 2000 (Langton, 2002). R. Bessbrook, Limavady (C655212) 9 June 2000 and Roe Valley Park pool, Limavady (C679201), 9 June and 14 July 2000 (Langton, 2002). R. Roe, Deerpark Wood, Limavaddy (C682203); R. Curly, Artikelly Bridge, Limavady (C684247); Castle R., Ardmore Bridge, Limavady (C706207) and burn at Largantea picnic area, Formoyle, Coleraine (C738287), 9 June 2000, all PHL (Langton, 2002)**: HA 3 -** R. Bann, Mountsandel, Coleraine (C852305), 18 March 1999 and 27 January 2000, PHL (Stur and Ekrem, 2006). Downhill beach stream, Coleraine (C754326), 9 June 2000 (Langton, 2002). Howell's Tarn, Ballywildrick, Coleraine (C766325), 7 April and 7 July 2002 (PHL). Downhill Forest, Coleraine (C760353), 7 July 2002 (PHL). Downhill Forest stream, Coleraine (C759348), 17 March and 25 July 1999 also 21 August 2001 and 24 March 2002 (PHL). Downhill Lake, Bishop's Gate, Coleraine (C762361), 18 May 2000 (Langton, 2002). R. Agivey, Garvagh (C838154) and pond, McFadyen's Garden, Coleraine (C848316), 18 May 2000 (PHL). R. Aghadowey, Ballybritain Bridge and R. Macosquin, Black Bridge, Ballylintagh (C854256), 26 May 2000 (Langton, 2002). R. Bann, Coleraine (C854304): 18 and 29 March, 12 April, 20, 30 and 31 May, 10 June, 22 September, 13 October and 1 November 1999, 1, 17 and 27 January, 19 and 28 February, 10 March, 6 April, 3, 17 and 31 May, 7 June, 16 and 25 July, 8 October and 11 December 2000, 6 and 18 February, 26 April, 30 June 2001, 6 and 20 January, 3 February, 3 March, 7 April 2002, 23 January 2005, 11 and 18 April and 2 May 2010, all PHL

(PHL). R. Moyola, New Bridge, Magherafelt (H955905), 20 January 2002 (PHL). **DONEGAL: HA 1 -** R. Deele, Legland, Raphoe (C136028), 19 July 2000 (Langton, 2002)**: HA 38 -** R. Gweedore, L. Anure outflow, Crolly (B827184) and R. Devlin, Dunlewy (B927190), 19 July 2000 (Langton, 2002). L. Barra, Commeen (B935119), 22 April 2009, EPA (DAM). Tributary stream to R. Owenveagh, Glenveagh Cottage, GNP (B998175), 4 June and R. Owenveagh near Glenveagh Cottage (B990178), 30 July 1985; Glenlack Stream, near L. Veagh, GNP (C003183), 15 May 1986 and stream near GNP Administration Centre (C041227), 14 May 1986, all LJH (Heneghan, 1986). Owennacally stream, Glenveagh (C043226), 19 July 2000 (Langton, 2002). R. Ray, Crocnalaragh (B989272), 12 August 1982 (Hayes, 1991)**: HA 39 -** L. Akibbon, Church Hill (C068184), 9 September 2009, EPA (DAM). L. Fern, Millford (C180233), 23 July 2009, EPA (DAM). Stream, Ranny House (Kerrykeel, "burn"), Carrokeel (C208322), 2 June 2000 (Langton, 2002)**: HA 40 -** R. Keenagh, Hugh Roe's Bridge, Umgall (C454543), 16 August 1982 (Hayes, 1991). **DOWN: HA 3 -** Upper R. Bann tributary, Hilltown (J210294), 27 March 1998, Poland's Bridge, Banbridge (J193428), 26 March 1998 and Corbally (J214435), 27 August 1998, all PHL. Upper R. Bann, Banbridge (J168443), 27 August 1998 (PHL). R. Kinnahalla, Hilltown (J239292), 26 September 1997 (PHL). **DUBLIN: HA 9 -** bog pool, Featherbed Mountain (O120190), April 1974, CD (Dowling, 1975; Dowling and Murray, 1981). **FERMANAGH: HA 36 -** R. Belbarrinagh, Belcoo (H112309), 29 June 2000 and R. Hollybrook, Lisnaskea (H373310), 27 June 2000 (Langton, 2002). R. Colebrook tributary, Tullyweel, Fivemiletown (H416474), 17 September 1997 and R. Colebrook tributary Drumcleave, Brookeborough (H367427), 24 September 1998 (PHL). **GALWAY: HA 26 -** R. Shiven, d/s Ballinaglass (M788494), 29 July 1981 and R. Tirur, Newbridge (M492699), 16 August 1981 (Hayes, 1991)**: HA 30 -** L. Ballyquirke, Moycullen (M232317), 8 August 2007, EPA (DAM). R. Cregg, Addergoole Bridge, Addergoole (M324350), 16 August 1981 and R. Loughkip, Ballyquirk, Moycullen (M224313), 17 August 1981 (Hayes, 1991). **KERRY: HA 22 -** R. Annascaul, Annascaul (Q593017), 2 July 1981 (Hayes, 1991) and 21 July 1981, BPH (Murray, 2005). R. Clydagh, Caherbarnagh (W202842), 21 April 1978 and Knocknagowan (W187837), May 1978 (Ashe, 1982). **KILDARE: HA 7 -** R. Boyne, Ballyboggan (N639402), 9 July 1981 (Hayes, 1991)**: HA 9 -** R. Liffey, Sallins (N881245), 17 July 1983 and R. Rye, Kildare Bridge, Carton (N948387), 13 July 1983 (Hayes, 1991). **KILKENNY: HA 15 -** R. Nore, Ballyragget (S445707) and Norelands Bridge (S547436), 28 August 1981 (Hayes, 1991). **LAOIS: HA 15 -** R. Nore, Castletown Bridge (S326930) and Kilbricken (S362898), 27 August 1981 (Hayes, 1991). **LEITRIM: HA 35 -** L. Glencar, Glencar (G748434), 1 April, 21 July and 2 September 2008, EPA (DAM). **LIMERICK: HA 25 -** Mulkear, d/s Cappamore (R779504), 8 September 1981 (Hayes, 1991). **MAYO: HA 33 -** Keem Stream 1 (F560043) and Keem Stream 2 (F561045), Keem Bay, Achill Island, 5 August 2004, DAM/WM (DAM). L. Cross,

Drumreagh, Belmullet, north east shore (F651299), 17 September 2008, EPA (DAM). R. Owenmore, Bangor Bridge, Bangor Erris (F863228), 18 August 1983 (Hayes, 1991). Bog pools, R. Glenamoy basin, Glenamoy (F896345), April to September 1972, CD (Dowling, 1975; Dowling and Murray, 1981). R. Glenlassra, Belderg (G023407), 19 August 1983 (Hayes, 1991)**: HA 34 -** R. Moy, Ballylahan (M277992), 29 August 1982 (Hayes, 1991). **MAYO: Clare Island -** R. Dorree, Maum, 100m from sea (L708865), 28 April 2000; near Bayview Hotel (L716856), 20 and 22 August 2002; small tank on north slope of Knockaveen (L705856), 21 August 2002; Loughnapucar stream 1, south east of Signal Tower (L657850), 21 August 2002, all DAM/WM (Murray and Murray, 2003). **MEATH: HA 6 -** R. Dee, Drumconrath (N910894), 27 July 1983 (Hayes, 1991)**: HA 7 -** R. Boyne: Scarrif Bridge (N733527), 9 July 1981 (Hayes, 1991); opposite R. Skane, d/s Bellinter Bridge (N895628), 15 March 1981 and 2 May 1982 (DAM); Ardsallagh, at St Bridget's Well (N897635), 3 March 1996 (Murray, 2005); Stackallen Bridge (N918713), 12 July 1981 (Hayes, 1991) and 19 July 1989 (DAM); Slane Bridge (N965737), Knowth Weir (N995720), Oldbridge (O045761) and d/s Oldbridge (O062753), 19 July 1989, all DAM. Headford Pond, Kells (N752763), 5 March 1968 (Murray, 1972). Mine Tailings, interceptor ditch, Randalstown, Navan (N845712), 29 March 1996 (DAM)**: HA 8 -** Meadesbrook Stream, Meadesbrook, Kilmoon (O038594), 6 June 1968 (Murray, 1972) also 21 April 1982, 5 May and 7 May 2005 and 9 June 2006 (DAM); Meadesbrook, Kilmoon, lawn (O040594), 1 January 2001 (DAM). **MONAGHAN: HA 6 -** L. Naglack, Carrickmacross (H853026), 3 May 2007 (DAM). **OFFALY: HA 25 -** R. Little Brosna, Ryan's Cross (S053882), Milltown Park (S068907) and Brosna Bridge (S077938), 2 September 1982, all BPH (Hayes, 1991). **ROSCOMMON: HA 26 -** R. Suck, Castlecoote (M809627), 1 April and 16 July 1981 (Hayes, 1991)**: HA 30 -** R. Dalgan, Clonfad (M518712), 20 August 1981 (Hayes, 1991). **SLIGO: HA 34 -** R. Moy, Cloonacool (G493168) and Metal Bridge, Tobercurry (G464138), 30 August 1982 (Hayes, 1991)**: HA 35 -** L. Gill, Sligo (G753335), 3 April 2008 and (G782350), 11 June 2008, EPA (DAM). **TIPPERARY: HA 15 -** R. Nore, Clonakenny (S116805), Nore Bridge (S133816) and Quaker Bridge (S211868), 27 August 1981, all BPH (Hayes, 1991)**: HA 25 -** R. Kilmastulla, Kilmastulla Bridge (R728698), 3 September 1981 (Hayes, 1991). **WEXFORD: HA 12 -** Movilla stream, Movilla House, Screen (T082311) and Crossabeg stream, Crossabeg, Castletown (T023270), 6 May 2006, DAM/WM (DAM). R. Boro, Dunamore Bridge, Enniscorthy (S963366) and R. Slaney, Ballycarney (S967488) and Edernline Bridge (S977345), 29 July 1981 (Hayes, 1991)**: HA 13 -** R Tintern, Tintern (S792100), 13 June 2012 (DAM). **WICKLOW: HA 10 -** R. Glenealo, Glendalough (T090962), 16 July 1996 (McEntee, 1997). R. Avonbeg, Meetings Bridge (T188831) and R. Avonmore, Lion Arch Bridge (T194833), 11 July 1997 (Curran, 2001). R. Avoca: Whitebridge, Tigroney (T198821), July and October 1997; Avoca Village (T203802), July 1997 (all Curran, 2001)**: HA**

12 - R. Slaney, Stratford Bridge (S895930) and Kilmurray (S889856), 28 July 1981 (Hayes, 1991).

***Micropsectra attenuata* Reiss, 1969**
MAYO: HA 32 - first order stream, Knappagh, Westport (L958814), 8 May 2003 (Murray, 2005: Murray and Murray, 2006). **MEATH: HA 7 -** tailings pond, stage 2, Randalstown, Navan (N845714), 29 March 1996 (DAM).

***Micropsectra junci* (Meigen, 1818)**
Synonyms *Micropsectra subviridis* (Goetghebuer, 1921), *M. brunnipes* (Zetterstedt, 1850), *M. gmundensis* (Egger, 1863)
ANTRIM: HA 3 - R. Sixmilewater, Templepatrick (J227867), 4 May 1999 (PHL)**: HA 4 -** feeder stream to L. na Cranagh, Fair Head (D183427), 21 March 1999 (PHL). **CAVAN: HA 7 -** L. Cuilcagh, Virginia (N636895), 30 April 1968 (Murray, 1972 - sub *M. brunnipes*). **CORK: HA 21 -** L. Avaul, Glengarrif (V910553), 19 May 1969, NH (Bracken and Murray, 1973 - sub *M. subviridis*). **DERRY: HA 3 -** Inflow to Balinrees Reservoir, Coleraine (C793307), 20 March 1999 and Pond in McFadyen's Garden, Coleraine (C848316), 14 April 2002 (PHL)**: HA 3 -** R. Bann, Coleraine (C854304), 3 July 1999 (PHL). **DONEGAL: HA 38 -** stream to R. Owenveagh, Glenveagh Cottage, Glenveagh (B998175), 4 June 1986 (Heneghan, 1986); Bog pool, Slieve Snaght, Bingorm Mountain, Glenveagh (B937152), 4 July 1986, LJH (DAM). R. Ray, Muckish Gap (B993268), 12 August 1982, BPH (Hayes, 1991; Murray, 2005). L. Salt, Milford (C121256), 24 May 1986 (Heneghan, 1986)**: HA 39 -** R. Glashagh, Drumbologe, Letterkenny (C096153) and R. Swilly, Newmills, Letterkenny (C125092), 18 July 2000 (Langton, 2002). **DOWN: HA 3 -** Upper R. Bann tributary, Corbally (J214435), 19 September 1997 (PHL). **DUBLIN: HA 9 -** R. Dodder, Fort Bridge, Bohernabreena (O009242), 31 May 1967 (Murray, 1972 - as *M. subviridis*). **FERMANAGH: HA 36 -** L. Atona, Cuilcagh Mountain (H110294), 29 June 2000 (Langton, 2002). R. Colebrook tributary, Corlough (H416416), 27 July 1997 and R. Colebrook, Killarbran Bridge, Killarbran (H416441), 24 September 1998 (PHL). **GALWAY: HA 32 -** pond, CNP, Letterfrack (L714573), 17 September 1986 (Heneghan, 1987). **KERRY: HA 21 -** Erik L., Derrygarriff (V881777), 9 August 2005, JRB (DAM)**: HA 22 -** R. Flesk: d/s Whitebridge (V987900), d/s New Bridge (V963885) and u/s L. Leane (V964894) June to August 1978, all PJA (Ashe, 1982). Seepage, Derrycunnihy Wood, Killarney (V909806), 21 August 1988 (Murray, 2005). R. Annascaul, Annascaul (Q593017), 18 April 1981, BPH (DAM). **MAYO: Clare Island -** a tentative record by Grimshaw (1912) as "*Tanytarsus gmundensis*", no site collection data (L6885), 1911. Roadside at Bayview Hotel (L716856), 4 June and 20 August 2002 also by stream on Lighthouse road (L699874), 20

August 2002 (Murray and Murray, 2003). **MEATH: HA 7 -** R. Boyne, Bellinter Bridge (N894625), 17 April 1968 (Murray, 1972 - sub *M. brunnipes*)**: HA 8 -** Meadesbrook Stream, Meadesbrook, Kilmoon (O038594), 27 July 1968 (Murray, 1972 - sub *M. subviridis*) also 5 and 7 May 2005, 24 May, 3 June and 9 June 2006 and 10 November 2012 (DAM). Meadesbrook, Garden (O040594), 8 November 2014 (DAM).

***Micropsectra lindebergi* Säwedal, 1976**
DONEGAL: HA 36 - L. Vearty, Ballyshannon (G995658), 7 September 2009 (DAM). L. Keenaghan, Beleek (G974600), 28 March 2004 (PHL)**: HA 38 -** L. Salt, Milford (C121256), 7 April 2009, EPA (DAM). **KERRY: HA 22 -** L. Coomloughra, Caher Mountain, Carrauntoohil (V783849), 26 April 2005, JRB/MC (Murray and Baars, 2006). **MAYO: HA 32 -** L. Doo, Delphi, west shore (L835681), 5 April 2006 and 3 April 2008, EPA (DAM)**: HA 33 -** L. Carrowmore, Bangor Erris, Gortmore, south east shore (F833266), 29 September 2004, WAM (DAM). **ROSCOMMON: HA 26 -** L. Urlar, Abbey, north east shore (M508900), 10 March 2005, DAM/WM (DAM). **TIPPERARY: HA 18 -** L. Curra, Galtymore Mountain (R867242), 26 May 2005, JRB (Murray and Baars, 2006). **WICKLOW: HA 10 -** L. Ouler, Tonelagee (O091023), 19 May 2005, JRB (Murray, 2005; Murray and Baars, 2006).

***Micropsectra lindebergi* Säwedal, 1976 (Pe) or *M. insignobilis* Kieffer, 1924 (Pe)**
DONEGAL: HA 38 - L. Keel, Kilmacrennan (C158243), 16 June 2009 (DAM)**: HA 37 -** L. Eske, Donegal (G973844), 17 April 2009 (DAM). **KERRY: HA 22 -** L. Guitane, Crohane (W025846), 21 April 2008, EPA (DAM). **MAYO: HA 32 -** L. Feeagh, Newport (L975983), 11 April 2008, EPA (DAM).

***Micropsectra lindrothi* Goetghebuer, 1931**
ANTRIM: HA 3 - Killylane Reservoir, Magherabane, Larne (J292985), 18 May 1999 (PHL)**: HA 4 -** pool at Ballyhoe Bridge (D077294), 2 July 2000 and R. Bush, Seneirl Bridge (C943362), 16 July 2000 (Langton, 2002). **CARLOW: HA 12 -** R. Slaney, Kildavin (S899597), 28 July 1981 (Hayes, 1991). **CAVAN: HA 36 -** L. Atrain, Gartbrattan, Cavan (H364051), 12 April 2007, EPA (DAM). **CORK: HA 18 -** R. Blackwater: Roskeen Bridge, Banteer (W444988), 1 September 1981; Duncannon (W180931) and Shamrock Bridge, Millstreet (W221935), 2 September 1981 (Hayes, 1991). **DERRY: HA 1 -** Upper Reservoir, Creggan, Derry (C417173) and pool near Reservoir, Creggan (C414171), 17 May 2002 (PHL); Lower Reservoir, Creggan, Derry (C422174), 21 February, 23 March, 26 April and 10 May 2001 (PHL)**: HA 2 -** R. Ballykelly, Clagan (C628209), 9 June 2000; R. Owenbeg, Feeny picnic area, Feeny (C645058), 26 June 2000; Roe Valley Park pool, Limavady (C679201), 9 June and 14

July 2000; R. Roe, Largy Bridge, Limavaddy (C681202), 14 July 2000, all PHL (Langton, 2002)**: HA 3 -** R. Aghadowey, Ballybritain Bridge (C859212), 26 May 2000 (Langton, 2002). Howell's Tarn, Ballywildrick, Coleraine (C766325), 7 July 2002; Inflow to Balinrees Reservoir, Coleraine (C793307), 20 March 1999; R. Agivey, Garvagh (C838154), 30 May 2002; R. Bann, Coleraine (C854304), 7 June 2000, all PHL (PHL). **DONEGAL: HA 39 -** R. Glashagh, Drumbologe, Letterkenny (C096153) and R. Swilly, Newmills, Letterkenny (C125092), 18 July 2000 (Langton, 2002). **DUBLIN: HA 9 -** artificial pond, University College Dublin, Belfield (O185300), 12 May 1996 (Murray, 2005). **FERMANAGH: HA 35 -** Glen R., Garrison (G943522), 29 June 2000 (Langton, 2002)**: HA 36 -** R. Hollybrook, Lisnaskea (H373310), 27 June 2000 (Langton, 2002). **GALWAY: HA 26 -** R. Castlegar, Mountbellew Bridge (M674477), 31 March 1981, BPH (DAM)**: HA 30 -** pool at layby on road N59, Moycullen (M204336), 25 May 2003 (PHL). **KERRY: HA 21 -** L. Currane, Waterville (V535664), 9 May 2008, EPA (DAM)**: HA 22 -** R. Annascaul, Annascaul (Q593017), 19 April 1981 (Hayes, 1991). R. Flesk, d/s Whitebridge (V987900), June, July and August 1978 (Ashe, 1982; Murray and Ashe, 1983). **LAOIS: HA 15 -** R. Nore, Castletown Bridge (S326930) and Kilbricken (S362898), 27 August 1981 also Athanagh (S423763), 28 August 1981, all BPH (Hayes, 1991). **LEITRIM: HA 26 -** pond in walled garden, Lough Rynn Castle (N098936), 25 September 2014 (DAM). **LIMERICK: HA 25 -** R. Mulkear, Cappamore and d/s Cappamore (R779504), 8 September 1981 (Hayes, 1991). **MAYO: HA 26 -** turlough, Loughanboy, Ballyhaunis (M433816), 24 May 1986, DAM/WM (DAM)**: Clare Island -** pond east of Signal Tower (L658859) and humic pond, Bunnamohaun (L659846), 21 August 2002 (Murray and Murray, 2003). **MEATH: HA 7 -** ditch, Ardsallagh, Navan (N894636), 3 May 1982 (DAM) and artificial tank (N896635), 12 June 2000 (Murray, 2005). Tailings pond, Randalstown, Navan (N845714), 29 August 1995 (Finnegan, 1998). Rainwater accumulation in discarded motor tyre, Mullaghboy Industrial Estate, Navan (N853668), 20 October 2012 (DAM)**: HA 8 -** Meadesbrook Stream, Meadesbrook, Kilmoon (O038594), 10 October 1981, 21 April 1982 and 4 April 2006 (DAM). Puddenhill Activity Centre, Moorepark (O038612), 23 April 2014 (DAM). **OFFALY: HA 25 -** bog lake 1, Turraun (N172185), 3 June 1999 (DAM). **ROSCOMMON: HA 26 -** Coolgarry Lough, Brideswell (M900475), 9 May 1986, CAD (DAM). **TIPPERARY: HA 15 -** R. Nore: Clonakenny (S116805), Nore Bridge (S133816) and Quaker Bridge (S211868), 27 August 1981 (Hayes, 1991)**: HA 18 -** L. Curra, Galtymore Mountain (R867242), 10 August 2005, JRB (DAM). **TYRONE: HA 1 -** Dennet Stream, Essbeg Bridge, Lisnaskee (H384306), 27 June 2000 (Langton, 2002). Pool by R. Glenelly, Upper Barnes (H553904), 17 August 2011 (PHL). **WEXFORD: HA 13 -** animal drinking trough, Horetown House (S870188), 12 June 2012 (DAM).

***Micropsectra logani* (Johannsen, 1928)**
Synonym *Micropsectra groenlandica* Andersen, 1937
MEATH: HA 8 - Meadesbrook, Kilmoon, Ashbourne (O038594), 3 March 1996 (DAM).
DUBLIN: HA 9 - R. Dodder, Fort Bridge, Bohernabreena (O009242), 5 April 1949, CFH/SR (Reilly, 1950 - sub *Micropsectra groenlandica*).

***Micropsectra nana* (Meigen, 1818)**
DONEGAL: HA 38 - waterfall, west of L. Veagh, Glenveagh (B995189), 21 July 1985, LJH (Heneghan, 1986). Glenveagh National Park, Stream near Park Centre (C031217), 14 May 1986, LJH (DAM). **MAYO: HA 32 -** R. Altahoney, Newport (F950050), 1968-1971, EF (Fahy and Murray, 1972 - sub *Parapsectra nana*).

***Micropsectra notescens* (Walker, 1856)**
ANTRIM: HA 3 - L. Neagh, Antrim Bay (J135866), 28 March 2001 (PHL)**: HA 4 -** R. Bush, Seneirl Bridge (C943362), 16 July 2000 (Langton, 2002). Benvarden Pond, Derrykeegan (C946334), 15 May 2005 (PHL). **CLARE: HA 25 -** L. Graney, Doorus, west shore (R556930), 10 April 2006, EPA (DAM). **DERRY: HA 1 -** inflow to Upper Reservoir, Creggan, Derry (C413171), 10 May 2001 and pool near Reservoir, Creggan, Derry (C414171), 18 May 2001 (PHL)**: HA 2 -** fire dam, Binevenagh Forest, Coleraine (C699304), 18 May 2000 and Roe Valley Park-pool, Limavady (C679201), 14 July 2000 (Langton, 2002)**: HA 3 -** Downhill beach stream, Coleraine (C754326), 9 June 2000 (Langton, 2002). Howell's Tarn, Ballywildrick, Coleraine (C766325), 21 April and 7 July 2002; Downhill Forest, Coleraine (C760353), 17 March 2000 and 24 March 2002; Downhill Forest stream, Coleraine (C759348), 25 July 1999 and 24 March 2002; Pond, McFadyen's Garden, Coleraine (C848316), 14 April 2002; Pond, near R. Macquosin, Ballytinagh Road, Coleraine (C854255), 18 April 2004; R. Bann, Coleraine (C854304), 18 March, 10 and 18 June, 3 July and 26 August 1999, 28 February 2000, 6 February and 27 April 2001, 11 and 18 April 2010, all PHL (PHL). R. Agivey, Glascort Bridge (C907226), 16 July 2000 (Langton, 2002). **DONEGAL: HA 1 -** R. Deele, Legland, Raphoe (C136028), 19 July 2000 (Langton, 2002)**: HA 38 -** L. Shannagh, Magheradrumman, Fanad Penninsula (C216450), 2 April 2009, EPA (DAM)**: HA 39 -** R. Glashagh, Drumbologe, Letterkenny (C096153), 18 July 2000 (Langton, 2002). R. Leannan, Drumaboden (C165218), 12 August 1982 (Hayes, 1991). **DOWN: HA 3 -** Drumadonnell R., Ballyward (J273383), 28 August 1997; Upper R. Bann tributary, Tullyconnaught (J166451), Shanrod (J215453) and Killinamurry (J228441), 19 September 1997 also Eel Burn, Shanrod House, Shanrod (J223477) and R. Muddock, Muddock Bridge, Rathfriland (J235342), 19 September 1997, all PHL. **FERMANAGH: HA 35 -** Glen R., Garrison (G943522), 29 June 2000 (Langton, 2002)**: HA 36**

- R. Hollybrook, Lisnaskea (H373310), 27 June 2000 (Langton, 2002). R. Colebrook tributary, Beagh (H483480), 23 April 1998; R. Colebrook tributary, Ardmore, Breandrum (H377415), 22 September 1998 and R. Colebrook tributary, Raw (H424426), 3 October 1997, all PHL (PHL). **GALWAY: HA 30 -** stream at layby on road N59, Moycullen (M204326), 25 May 2003 (PHL). **KERRY: HA 22 -** R. Clydagh: Caherbarnagh (W202842), u/s Clydagh Bridge (W114826) and Knocknagowan (W187837), January to December 1978 (Ashe, 1982). R. Flesk: d/s Whitebridge (V987900) 27 July 1976 (Ashe, 1977; Murray and Ashe, 1983), d/s Clydagh/Loo confluence (W084814), Garries Bridge (W082835), Flesk Bridge (W034876), d/s Whitebridge (V987900), d/s New Bridge (V963885) and u/s L. Leane (V964894), January to December 1978, all PJA (Ashe, 1982). R. Loo, Aughnanus Bridge, Crohane (W045790), January to December 1978 (Ashe, 1982). **MAYO: HA 32 -** L. Knappabeg, Westport (M010803), 21 April 2008, EPA (DAM). **MEATH: HA 7 -** R. Boyne - Knowth Weir, (N995720), 14 June 1968 (DAM) and opposite R. Skane, d/s Bellinter Bridge (N895628), 8 May 1982 (DAM)**: HA 8 -** Meadesbrook Lawn, Meadesbrook, Kilmoon (O040594), 3 March and 25 December 1996, 18 March 2015 (DAM). **OFFALY: HA 25 -** R. Little Brosna, Milltown Park (S068907) and Brosna Bridge (S077938), 2 September 1982 (Hayes, 1991). **WICKLOW: HA 10 -** L. Bray Lower, Glencree (O140164), 4 June 1986 (DAM) and 16 June 2009 EPA (DAM). Upper Glendalough Lake, Laragh, WMNP (T109964), 23 March 1994 (DAM).

***Micropsectra pallidula* (Meigen, 1830)**

Included here are records of *Micropsectra bidentata* (adult male) based on Pinder (1978) and of pupal exuviae from Langton (1991) and Langton and Visser (2003) which are considered to be *M. pallidula* following Stur and Ekrem (2005). The concept of *M. bidentata* sensu Langton and Pinder (2007) is unchanged from Pinder (1972).

ANTRIM: HA 3 - Glenravel Water, Gartnageeragh, Newtown Crommelin (D147154), 2 July 2000 (Langton, 2002). Killylane Reservoir, Magherabane, Larne (J292985), 8 May 1999 (PHL)**: HA 4 -** R. Bush, Ballyhoe Bridge (D077294), R. Brymore, Brymore Bridge (D162275) and R. Glendun, Drumfresky, Cushendun (D193308), 2 July 2000 (all Langton, 2002). R. Glenaan, Cushendall (D218288), 17 September 2011 (PHL). Inflow stream to L. na Cranagh, Fair Head (D183427), 21 March 1999 (PHL)**: HA 5 -** Raloo Water - tributary to R. Glenoe, Glenoe, Larne (J394967), 8 May 1999 (PHL). **CARLOW: HA 12 -** R. Slaney, Motabower Bridge (S832778), 28 July 1981 (Hayes, 1991). R. Derreen, Acann Bridge (S900781), 29 July 1981 (Hayes, 1991). **CAVAN: HA 36 -** R. Erne, Drumbarry (N462951), 17 August 1982 (Hayes, 1991)**: HA 7 -** L. Cuilcagh, Mullagh (N636895), 21 November 1967 (Murray, 1972 - sub *M. bidentata*). **CLARE: HA 27 -** L. Dromore, Ruan, Corrofin, west basin (R345858), 8 April 2009, EPA (DAM). **CORK: HA 18 -** R. Blackwater: Duncannon (W180931), Shamrock Bridge, Millstreet

(W221935), Charles Bridge, Millstreet (W248943) and Keale Bridge, Millstreet (W294936), 2 September 1981, all BPH (Hayes, 1991)**: HA 20 -** R. Ilen, Drimoleague (W098454), 24 August 1983 (Hayes, 1991). **DERRY: HA 1 -** Lower Reservoir, Creggan, Derry (C422174), 21 February 2001 (PHL). Inflow to Upper Reservoir, Creggan, Derry (C413171), 26 April, 10 and 18 May 2001 (PHL)**: HA 2 -** R. Owenbeg, Feeny picnic area, Feeny (C645058), 26 June 2000; R. Bessbrook, Limavady (C655212), 9 June 2000; fire dam 1, Binevenagh Forest, Coleraine (C699304), 18 May 2000 and Castle R., Ardmore Bridge, Limavady (C706207), 9 June 2000, all PHL (Langton, 2002)**: HA 3 -** inflow to Balinrees Reservoir, Coleraine (C793307), 20 March 1999 (PHL). R. Agivey, ford at Ballynameen (C827148), 14 June 2008 (PHL). R. Bann, Coleraine (C854304): 20 May and 18 June 1999, 27 January, 5, 19 and 28 February 2000, all PHL. Water butt, Kylebeg, Coleraine (C856304), 24 March 2004 and 6 January 2006 (PHL). L. Neagh, Ballyronan (H948862), 22 May 2011 (PHL). **DONEGAL: HA 1 -** R. Deele, Legland, Raphoe (C136028), 19 July 2000 (Langton, 2002). R. Reelan tributary, Clogher North (G931962), 23 April 2004, JRB (DAM)**: HA 37 -** R. Stragar, Duninkeely (G727792), 10 August 1982 (Hayes, 1991)**: HA 38 -** R. Devlin, Dunlewy (B927190), 19 July 2000 (Langton, 2002). Stream near Administration Centre, GNP, Glenveagh (C041227), 14 May 1986 (Heneghan, 1986). R. Ray, Muckish Gap (B993268) and Crocnalaragh (B989272), 12 August 1982 (Hayes, 1991). L. Kinny, Fanad (C204442), 2 April 2009, EPA (DAM)**: HA 39 -** R. Glashagh, Drumbologe, Letterkenny (C096153) and R. Swilly, Newmills, Letterkenny (C125092), 18 July 2000 (Langton, 2002). R. Crana, Buncrana (C347328) and Ballymagan (C379344), 15 August 1982 (Hayes, 1991)**: HA 40 -** R. Keenagh, Hugh Roe's Bridge, Umgall (C454543), 16 August 1982 (Hayes, 1991). **DOWN: HA 3 -** Eel Burn, Shanrod House, Shanrod (J223477), 19 September 1997 (PHL). **DUBLIN: HA 9 -** R. Dodder, Fort Bridge, Bohernabreena (O009242), 14 July 1968 (Murray, 1972 - sub *M. bidentata*). **FERMANAGH: HA 35 -** L. Melvin, Garrison (G938518), 29 June 2000 (Langton, 2002)**: HA 35 -** Glen R., Garrison (G943522), 29 June 2000 (Langton, 2002)**: HA 36 -** R. Belbarrinagh, Belcoo (H112309), 29 June 2000 and R. Sruh Croppa, Cuilcagh Mountain (H111329), 29 June 2000 (Langton, 2002). R. Bannagh, Drummoney Falls, Pettigo (H168676), 17 August 2011 (PHL). **GALWAY: HA 26 -** R. Tirur, Newbridge (M492699), 16 August 1981 (Hayes, 1991)**: HA 30 -** stream at layby on road N59, Moycullen (M204326), 25 May 2003 (PHL). R. Loughkip, Ballyquirk, Moycullen (M224313), 17 August 1981 and Cregg, Addergoole Bridge, Addergoole (M324350), 16 August 1981 (Hayes, 1991)**: HA 32 -** R. Owenglin, Clifden (L677506) and R. Dawros, Tullywee Bridge, Letterfrack (L730586), 18 August 1981 (Hayes, 1991). Mountain stream, Diamond Hill, CNP, Letterfrack (L718564), 18 September 1986 (Heneghan, 1987). **KERRY: HA 18 -** R. Blackwater, Lacknastooka (R153008), 2 September 1981 (Hayes, 1991)**: HA 22 -** R. Annascaul, Annascaul (Q593017), 19 April 1981 (DAM) and 2 July 1981 (Hayes, 1991).

Stream to R. Loo, d/s Aughnaunas Br., Crohane (W048790), 15 January 1979, PJA (DAM). **KILDARE: HA 9 -** R. Liffey, Straffan Bridge (N924293), 15 July 1983 and Sallins (N881245), 17 July 1983 (Hayes, 1991). **KILKENNY: HA 15 -** R. Nore, Ballyragget (S445707) and Norelands Bridge (S547436), 28 August 1981 (Hayes, 1991). **LAOIS: HA 15 -** R. Nore, Castletown Bridge (S326930), Kilbricken (S362898), Shanahoe Bridge (S407858) and u/s Durrow (S416787), 27 August 1981, all BPH (Hayes, 1991). **LIMERICK: HA 25 -** R. Mulkear, Cappamore (R775514) and d/s Cappamore (R779504), 8 September 1981 (Hayes, 1991). **MAYO: HA 32 -** L. Fin, Delphi (L841657), 5 April 2006 (DAM). R. Altahoney, Newport (F950050), 1968-1971, EF (Fahy and Murray, 1972). R. Owenwee, u/s Aghamore Bridge, Westport (L972817), 5 August 2004, DAM/WM (DAM). R. Erriff, Ashleigh Falls (L895645), 18 August 1981 (Hayes, 1991)**: HA 33 -** stream 2, Keem Bay, Keem, Achill Island (F561045), 5 August 2004, DAM/WM (DAM). L. Bunacurry, Achill Island (F695048) and pool at Camport, Achill Island (L677982), 29 September 2004, DAM/WM (DAM). R. Glenlassra, Belderg (G023407), 19 August 1983 (Hayes, 1991)**: Clare Island -** Kinnawoneen stream, Fawnglass (L713852), 6 June 2002 (Murray and Murray, 2003 - sub *M. bidentata*). **MEATH: HA 7 -** R. Boyne: Scarrif Bridge (N733527), 9 July 1981 (Hayes, 1991); Ardsallagh, at St Bridget's Well (N897635), 3 March 1996 and 10 April 2005, Stackallen Bridge (N917713), 19 July 1989 and Knowth Weir (N995720), 16 June 1968, all DAM. Ditch, Ardsallagh, Navan (N894636), 23 March 1996 and 2 May 1982 (DAM). Ditch, Ardagh, Tullyallen (O020773), 23 July 1968 (Murray, 1972)**: HA 8 -** Meadesbrook, Kilmoon; stream (O038594), 27 July 1968 (Murray, 1972) and 22 October 1981 (DAM); Lawn (O040594), 3 March 1996, 22 October 1981 and 3 April 1999 (DAM). **OFFALY: HA 25 -** R. Little Brosna, Bridge, Ryan's Cross (S053882) and New Bridge (N016088), 2 September 1982 (Hayes, 1991). **ROSCOMMON: HA 26 -** R. Suck, Ballyforan (M817464) and Castlecoote (M809627), 16 July 1981 also at Athleague (M825758), 14 August 1981 (Hayes, 1991). **SLIGO: HA 34 -** R. Moy: Carrowneden (G530205), Cloonacool (G493168), Metal Bridge, Tobercurry (G464138) and Annagh (G466123), 30 August 1982, all BPH (Hayes, 1991). **TIPPERARY: HA 15 -** R. Nore: Clonakenny (S116805), Nore Bridge (S133816) and Quaker Bridge (S211868), 27 August 1981 (Hayes, 1991). **TYRONE: HA 1 -** Dennet Stream, Essbeg Bridge, Lisnaskee (H384306), 27 June 2000 (Langton, 2002). Pool, by R. Glenelly, Upper Barnes (H553904), 17 August 2011 (PHL). **WEXFORD: HA 12 -** R. Boro, Dunamore Bridge, Enniscorthy (S963366), 29 July 1981 (Hayes, 1991). R. Slaney, Clomahon (S933534) and Edernline Bridge (S977345), 29 July 1981 (Hayes, 1991). R. Sow tributary, Garylough Mill, Screen (T076302), 6 May 2006, DAM/WM (DAM). **WICKLOW: HA 10 -** R. Avonbeg, Drumgoft Bridge, Glenmalure (T105905), 4 August 1983 (Hayes, 1991)**: HA 12 -** R. Derry, Balisland (S978645), 28 July 1981 and Bridgeland (T021744), 29 July 1981 (Hayes, 1991). R. Slaney, Glen of Imail, Knickeen

(S987948), Knockgarrigan (S936937), Stratford Bridge (S895930) and Kilmurray (S889856), all 28 July 1981, all BPH (Hayes, 1991).

***Micropsectra roseiventris* (Kieffer, 1909)**
[= *Micropsectra fusca* (Meigen, 1804) following Stur and Ekrem, (2006)]
DERRY: HA 2 - pond, Binevenagh, Coleraine (C691305), 18 May and 16 September 2000 (PHL)**: HA 3 -** R. Agivey, ford at Ballynameen (C827148), 14 June 2008 (PHL). Bog pool, Glenullin, Garvagh (C795132), 18 August 2007 (PHL). **CLARE: HA 28 -** L. Acrow, Lisscasey (R193687), 4 April 2006, EPA (Murray, 2010). L. Naminna, Boolteagh, north west shore (R178710), 1 April 2009, EPA (DAM). **DONEGAL: HA 38 -** L. Nabuckan, Grogan More (B850184), 10 May 2005, JRB (DAM). R. Devlin, Dunlewy (B927190), 19 July 2000 (Langton, 2002). L. Veagh, GNP, boathouse near Castle (C022211), 23 May 1986; Inflow stream to L. Veagh, north east shore (C033222), 19 August 1985 and stream near Administration Centre (C041227), 16 July 1985, all LJH (Heneghan, 1986); L. Keel, Kilmacrennan (C158243), 16 June 2009, EPA (DAM)**: HA 39 -** L. Inshagh road, Glenveagh (C031188), 20 May 1986 (Heneghan, 1986). **DUBLIN: HA 9 -** bog pool, Featherbed Mountain (O120190), March, April, May and July 1974, CD (Dowling, 1975; Dowling and Murray, 1981); bog pool, Featherbed Mountain (O123184), 3 April 1981, PJA (Murray, 2005). **FERMANAGH: HA 35 -** Glen R., Garrison (G943522), 29 June 2000 (Langton, 2002)**: HA 36 -** L. Atona, Cuilcagh Mountain (H110294), 29 June 2000 (Langton, 2002). **GALWAY: HA 32 -** CNP, Letterfrack, stream near Administration Centre (L716573), 16 September 1986 and pond at Administration Centre (L715575), 17 September 1986 (Heneghan, 1987). R. Dawros, d/s Tullywee Bridge, Letterfrack (L725585) and on Kylemore Road, Letterfrack (L745582), 19 September 1986 (Heneghan, 1987). **KERRY: HA 22 -** L. Leane, Killarney, O'Sullivans Cascade (V916886), 17 April 1973, DAM (Douglas and Murray, 1980). R. Caragh, Blackstones Bridge, d/s R. Acoose confluence (V710864), 3 November 1974, CD (Dowling *et al*., 1981). Bog pool at R. Owenreagh, Gearrhameen (V875798), 27 August 1987 (Murray, 2005). R. Loo, Aughnanus Bridge, Crohane (W045790), September 1978 (Ashe, 1982) and 20 March 1979, PJA (Ashe, 1982; Murray, 2005, 2010). **LEITRIM: HA 26 -** L. Allen, Drumshanbo Lock (G968110), 30 March 2000 (DAM) and Mountallen, Drumshanbo (G950145), 28 April 2008, EPA (Murray, 2010). L. Natire, north of L. Allen (G966340), 3 August 2005, JRB/MC (DAM)**: HA 35 -** L. Lackagh, Boleybrack (G920320), 21 April 2005, JRB (DAM). **MAYO: HA 32 -** L. Knappabeg, Westport (M010803), 23 July 2008, EPA (DAM): **HA 33 -** pool, Camport, Achill Island (L677982), 29 September 2004, DAM/WM (DAM). L. Carrowmore, Gortmore, Bangor Erris, south east shore (F833266), 4 April 2002, WAM (DAM). Bog pools, Glenamoy (F896345), April and September 1972, CD (Dowling, 1975; Dowling and Murray, 1981)**: Clare Island -**

Kinnawoneen stream, Fawnglass (L713852), 28 April 2000 and Fawnglass Stream, Fawnglass (L713854), 28 April 2000 and 4 June 2002 also bog pool, Knockmore (L683857), 21 August 2002, all DAM/WM (Murray and Murray, 2003). L. Poirtin Fuinch (L706857), 10 August and 1 September 1998 also 2 June and 3 August 1999 (Fahy, 2002). **MEATH: HA 7 -** R. Boyne, Bellinter Bridge (N894625), 31 March 1968 (Murray, 1972). Bog ditch, Ballivor (N659548), 6 April 1984 (DAM)**: HA 8 -** Meadesbrook stream-pond area, Meadesbrook, Kilmoon (O038594), 15 November 2005 (DAM). **MONAGHAN: HA 36 -** L. Drumlona, Rockcorry (H636176), 4 April 2007, EPA (Murray, 2010). **ROSCOMMON: HA 26 -** Briarfield Turlough, Tulsk (M815760), 25 April 1986, CAD (DAM). **TIPPERARY: HA 18 -** L. Curra, Galtymore Mountain (R867242), 10 August 2005, JRB (DAM). **WICKLOW: HA 9 -** bog pool, Featherbed Mountain (O130113), 27 August 1981 (DAM)**: HA 10 -** Upper Glendalough Lake, Laragh, WMNP (T109964), 23 March 1994 (DAM).

***Micropsectra uliginosa* (Reiss, 1969)**
LEITRIM: HA 35 - L. Nabrack, Crocknagapple (G860477), 29 April 2005, JRB (Murray, 2005; Murray and Baars, 2007 - as *Parapsectra uliginosa*; Baars *et al*., 2014).

***Neozavrelia cuneipennis* (Edwards 1929)**
DONEGAL: HA 36 - L. Vearty, Ballyshannon (G995658), 7 September 2009, EPA (DAM)**: HA 38 -** L. Glen, Glen (C105292), 29 July 2009, EPA (DAM). **GALWAY: HA 30 -** L. Beaghcauneen, Ballinaboy (L679470), 18 July 2007, EPA (Murray, 2010)**: HA 31 -** L. Ahalia, Gortmore, north east shore (L971402), 23 September 2009, EPA (DAM). L. Ballynahinch, Ballynahinch (L777478), 6 June 2007, EPA (Murray, 2010). L. Nahasleam, Maam Cross (L972440) and L. Shindilla, Derreennacreeva, south shore (L958460), 16 May 2006, EPA (Murray, 2010) also L. Shindilla 20 June 2006, EPA (DAM)**: HA 32 -** L. Enask, Beaghcauneen (L662468), 17 July 2007, EPA (Murray, 2010). **KERRY: HA 22 -** R. Caragh, Blackstones Bridge, d/s R. Acoose confluence (V710864), May 1976, JPOC (DAM). **MAYO: HA 30 -** L. Aille, Aille, Westport (M071807), 18 September 2008, EPA (DAM)**: HA 32 -** L. Feeagh, Newport (L975983), 17 September 2008, EPA (Murray, 2010)**: HA 34 -** L. Levally, Massbrook (G146043), 23 September 2008, EPA (Murray, 2010). **WICKLOW: HA 10 -** L. Tay, Luggala (O163008), 28 July 2009, EPA (DAM).

***Neozavrelia luteola* Goetghebuer and Thienemann, 1941**
DONEGAL: HA 38 - R. Ray, Muckish Gap (B993268), 12 August 1982 (Hayes, 1991; Murray, 2005). **KERRY: HA 21 -** L. Brin, Derreeny (V780775), 10 September 2008, EPA (DAM)**: HA 22 -** R. Flesk, d/s Clydagh/Loo confluence (W084814), May 1978 (Ashe, 1982). R.

Caragh, Upper Brida Valley (V785810), 1975, CD (cited in Ashe, 1982). **MAYO: HA 32 -** L. Doo, Delphi, west shore (L835681), 12 July 2006, EPA (DAM). R. Bunowen, Louisburg, u/s of bridge (L807807), 7 May 2004, DAM/WM (DAM). L. Feeagh, Newport (L975983), 24 July and 17 September 2008, EPA (DAM). **TIPPERARY: HA 18 -** L. Curra, Galtymore Mountain (R867242), 10 August 2005, JRB (DAM).

***Paratanytarsus austriacus* (Kieffer, 1924)**
CAVAN: HA 36 - R. Erne, Drumbarry (N462951), 17 August 1982, BPH (Hayes, 1991; Murray, 2005). **DERRY: HA 2 -** Roe Valley Park - pool, Limavady (C679201), 9 June 2000 (Langton, 2002)**: HA 3 -** Howell's Tarn, Ballywildrick, Coleraine (C766325), 21 April 2002 (PHL). Water butt, Kylebeg, Coleraine (C856304), 19 February and 29 March 2002 (PHL). **DONEGAL: HA 39 -** R. Glashagh, Drumbologe, Letterkenny (C096153), 18 July 2000 (Langton, 2002). **LONGFORD: HA 26 -** L. Ree, Bleanavoher (N069445) 10 September 2007, EPA (DAM). **MEATH: HA 7 -** R. Boyne - opposite R. Skane, d/s Bellinter Bridge (N895628), 3 May 1982 (Murray and Ashe, 1983; Murray, 2005)**: HA 8 -** Meadesbrook, Kilmoon, lawn (O040594), 7 October 2012 and rainwater barrel (O040594), 23 October 2012 (DAM). **ROSCOMMON: HA 26 -** Briarfield Turlough, Tulsk (M815760), 25 April 1986, CAD (DAM). L. Ree, Yew Point, Barley Harbour (N018485), 10 September 2007, EPA (DAM) **TYRONE: HA 1 -** pool, by R. Glenelly, Upper Barnes (H553904), 17 August 2011 (PHL).

***Paratanytarsus bituberculatus* (Edwards, 1929)**
CLARE: HA 25 - L. Derg, d/s Killaloe (M705715), 18 September 2009, EPA (DAM)**: HA 27 -** L. Bridget, Derrymore, Badyke, east shore (R558797), 21 April 2009, EPA (DAM). L. Cullaun, Corrofin, mid east shore (R317905), 7 June and 5 September 2006 (EPA) and 16 June 2009, EPA (PHL). L. Muckanagh, Tubber, Corrofin, south east shore (R370922), 11 June and 14 September 2009, EPA (DAM). **DONEGAL: HA 38 -** L. Barra, Commeen (B935119), 22 April 2009, EPA (DAM). **GALWAY: HA 30 -** L. Corrib Lower, Moycullen (M271360), 11 June 2007, EPA (DAM). L. Ross, Moycullen (M188365), 5 September 2007, EPA (DAM)**: HA 31 -** L. Shindilla, Derreennacreeva, south shore (L958460), 19 April 2007, EPA (DAM)**: HA 32 -** L. Tully, Tully Cross (L695618), 10 September 2007, EPA (DAM). **KERRY: HA 22 -** Muckross Lake, Muckross, Killarney (V950853), 18 September 2008, EPA (DAM). **MAYO: HA 30 -** L. Carra, Keel Bridge, Ballinrobe (M165680), 28 July 2008, EPA (DAM). L. Corrib Upper, Kitteen's Bay (M110463), 25 June 2010, JRB (DAM). L. Mask, Toormakeady (M113702), 22 September 2008, EPA (DAM)**: HA 32 -** R. Burleemslough, Clapper Bridge Ford, Killeen, Cloonlaur (L754759), 5 August 2004, DAM/WM (DAM). **MEATH: HA 7 -** tailings pond, stage 2, Randalstown, Navan (N845714), 14 May 1996 (Murray, 2005). **ROSCOMMON: HA**

26 - L. Funshinagh, Brideswell (M933513), 11 September 2007, EPA (DAM). Grange L., 25 June and 28 July 2008, EPA (DAM). **SLIGO: HA 34 -** L. Talt, Gleneask (G402151), 24 September 2008, EPA (DAM). **WATERFORD: HA 16 -** Ballyscanlan Reservoir, Tramore (S540030), 3 July and 19 August 2009, EPA (DAM). **WESTMEATH: HA 25 -** L. Owel, Mullingar (N421566), 1981, GPF (Forde, 1985). L. Owel, Mullingar (N421566), 24 July 1973, NH (Murray and Ashe, 1983)**: HA 36 -** L. Bane, Collinstown (N550712), 23 May 2006 (EPA).

***Paratanytarsus brevicalcar* (Kieffer, 1909)**
Synonym *Paratanytarsus intricatus* (Goetghebuer, 1921)
CORK: HA 20 - L. Skeagh (Schull Reservoir), Schull (V937338), 27 August 2008, EPA (DAM). **MAYO: HA 32 -** R. Altahoney, Newport (F950050), 1968-1971, EF (Fahy and Murray, 1972)**: Clare Island -** pond east of Maum road (L710863), 20 August 2002 (Murray and Murray, 2003). **ROSCOMMON: HA 26 -** L. Cavetown, Boyle (M832974), 17 July 2008, EPA (DAM).

***Paratanytarsus dimorphis* Reiss, 1965**
GALWAY: HA 30 - L. Corrib Lower, Hurney, west shore (M258310), 9 and 18 April 1980, BC (Murray and Ashe, 1983). L. Corrib Upper, Oughterard, (M138486), 14 August 2007, EPA (DAM). **KILDARE: HA 9 -** pond, Lyons Estate, Celbridge (N972285), 29 March 1982 (Murray, 2005). **WESTMEATH: HA 26 -** L. Derravaragh, Crookedwood (N468634), 30 August 2007, EPA (DAM).

***Paratanytarsus dissimilis* (Johannsen, 1905)**
Synonym *Paratanytarsus confusus* Palmen, 1960
ANTRIM: HA 3 - R. Clogh, Clough Mills (D105109), 2 July 2000 and Kells R., Shank Bridge, Kells (J126982), 20 June 2000 (Langton, 2002)**: HA 4 -** R. Bush, Conogher Bridge (C963305), 10 September 2000 and R. Glenariff (Inver/Glenarif), Cushendall (D215205), 2 July 2000 (Langton, 2002). **CAVAN: HA 36 -** Glasshouse L., Killashandra (H270060), 7 June 2007; L. Oughter, Killashandra (H349051), 17 July 2007 and L. Sillan, Shercock, north east shore (H705067), 19 April 2007, EPA (DAM). **CLARE: HA 27 -** Castle Lake, Kilmurry, Sixmilebridge, south west shore (R481688), 12 June and 17 July 2009 also (R482691), 17 September 2009, EPA (DAM). L. Cullaun, Corrofin, mid east shore (R317905), 14 September 2009; L. Inchiquin, Corrofin, south east shore (R272894), 16 June and mid lake, 4 July 2006, also L. Atedaun, Corrofin (R297884), 21 April 2009, all EPA (DAM). **CORK: HA 19 -** Carrigdroihid Reservoir, Ashton (W360703), 16 June 2008 and L. Allua, Ballingeary (W180652), 4 April and 20 August 2008, EPA (DAM). **DERRY: HA 2 -** R. Roe, Largy Bridge,

Limavaddy (C681202), 14 July 2000 (Langton, 2002)**: HA 3 -** R. Bann, Coleraine (C854304): 12 and 26 April, 5 May, 26 August 1999, 25 May, 7 and 13 June, 3 July 2000, 26 April and 16 June 2001, 18 April and 2 May 2010, all PHL (PHL). Artificial paddling pool, Kylebeg, Coleraine (C856304), 6 August 2000 and R. Moyola, New Bridge, Magherafelt (H955905), 7 May 2001 (PHL). **DONEGAL: HA 1 -** L. Finn, Fintown, Glenties (B911018), 23 July 2009, EPA (DAM)**: HA 38 -** R. Gweedore, L. Anure outflow, Crolly (B827184), 19 July 2000 (Langton, 2002). L. Barra, Commeen (B935119), 10 June 2009, EPA (DAM)**: HA 38 -** L. Glen, Glen (C105292), 29 July 2009, EPA (DAM)**: HA 39 -** L. Akibbon, Church Hill (C068184), 9 September 2009, EPA (DAM). R. Glashagh, Drumbologe, Letterkenny (C096153), 18 July 2000 (Langton, 2002). **DOWN: HA 3 -** R. Rocky (d/s Shanky confluence), Hilltown (J233277), 26 September 1998 (PHL). **FERMANAGH: HA 36 -** Dummys L., Magheraveely (H488276), 28 June 2000 (Langton, 2002)**: HA 36 -** R. Bannagh, Drummoney Falls, Pettigo (H168676), 17 August 2011 (PHL). **GALWAY: HA 30 -** L. Ballyquirke, Moycullen (M232317), 13 April, 8 August and 14 September 2007, EPA (DAM)**: HA 31 -** L. Ahalia, Gortmore, north east shore (L971402), 23 September 2009; L. Ballynahinch, Ballynahinch (L777478), 17 April, 6 June and 13 September 2007and L. Nahasleam, Maam Cross (L972440), 13 September 2007, EPA (DAM)**: HA 32 -** L. Kylemore, Kylemore (L771582), 30 July 2007, EPA (DAM). **KERRY: HA 22 -** L. Leane, Killarney, Castlelough Bay, north shore (V975873), 27 August 1987 (Murray, 2005). R. Flesk: d/s R. Clydagh/R. Loo confluence (W084814), Garries Bridge (W082835) and Flesk Bridge (W034876) also R. Loo, Aughnanus Bridge, Crohane (W045790), all April to August 1978 (Ashe, 1982; Murray and Ashe, 1983 - sub *P. confusus* Palmen). **LEITRIM: HA 26 -** L. Boderg, Derrycarne, north west shore (N013915), 10 September 2008, EPA (DAM). **LONGFORD: HA 26 -** L. Forbes, Cloonard, Newtownforbes (N084821), 27 August and 10 September 2008, EPA (DAM). **MAYO: HA 32 -** Westport L., Westport Woods Hotel, Westport (L985843), 30 September 2004, DAM/WM (DAM). L. Knappabeg, Westport (M010803), 21 April and 23 July 2008, EPA (DAM)**: HA 34 -** L. Conn, Illannaglashy (G207070), 20 August 2008, EPA (DAM). L. Levally, Massbrook (G146043), 23 September 2008, EPA (DAM). **MEATH: HA 7 -** R. Skane, Dalgan Park, Navan (N901626), 23 May 2015 (Murray, 2015a). R. Blackwater, Bloomsbury Bridge, Oristown (N793741), 19 August 1988, DAM (Murray, 1988). **MONAGHAN: HA 6 -** L. Monalty, Carrickmacross (H866027), 11 June 2007, EPA (DAM). **ROSCOMMON: HA 26 -** L. Cavetown, Boyle (M832974), 17 July 2008, EPA (DAM). L. Funshinagh, Brideswell (M933513), 23 April 2007, EPA (DAM). L. Key, Boyle, wharf in Forest Park (G848040), 11 June 2008, EPA (DAM). **TIPPERARY: HA 16 -** R. Drish, Athlummon Bridge (S177593), 6 September 1991 and 22 May 1992 (Murray and Lynch, 1992). **WESTMEATH: HA 26 -** L. Ree, Quigleys Marina, Killenure (N051601), 18 September 1996 (DAM). **WEXFORD: HA 11 -** R. Ounvarra, Ballycanew (T153519), 6 May 2006,

DAM/WM (DAM).

***Paratanytarsus grimmii* (Schneider, 1885)**
DERRY: HA 3 - paddling pool, Kylebeg, Coleraine (C856304), 21 April 2001 and 19 April 2002 (PHL). **DONEGAL: HA 39 -** piped tap water, Letterkenny (C170115), 15 and 20 August 1990, PJA (Ashe and O'Connor, 1994). **ROSCOMMON: HA 26 -** L. Funshinagh, Brideswell (M933513), 23 April 2007, EPA (Murray, 2005). **WESTMEATH: HA 26 -** L. Killinure, Ballaghkeernan Bay (N069445), 11 September 2007, EPA (DAM).

***Paratanytarsus inopertus* (Walker, 1856)**
ANTRIM: HA 3 - R. Sixmilewater, Templepatrick (J227867), 4 May 1999 (PHL)**: HA 4 -** R. Bush, Seneirl Bridge (C943362), 16 July 2000 (Langton, 2002). **CAVAN: HA 36 -** Glasshouse L., Killashandra (H270060), 7 June 2007; L. Annagh, Butler's Bridge (H394125), 3 and 18 September 2007; L. Ardan, Milltown, Belturbet (H354124), 26 July 2007; L. Gowna, north basin, Arnagahan (N285920), 7 June 2006 and 18 September 2007; L. Macnean, lower, Blacklion (H106378), 18 September 2007; Mill L., Killashandra (H315060), 3 September 2007; L. Oughter, Killashandra (H349051), 6 June, 17 July and 18 September 2007 and L. Sillan, Shercock, north east shore (H705067), 19 April and 19 September 2007, all EPA (DAM). R. Erne, Kilsarin (N362910) and Carrigan (N391935), 27 August 1982 (Hayes, 1991)**: HA 7 -** L. Drumkeery, Baileborough (H663002) and Nadreegeal, Ballyjamesduff (N537933), 12 June 2007, EPA (DAM). **CLARE: HA 25 -** L. Derg, Mountshannon (R718861) and d/s Killaloe (M705715), 18 September 2009; L. Alewnaghta, Whitegate, west shore (R758908), 20 April and 16 July 2009 also north east shore (R764914), 23 September 2009 and L. Derg, Terryglass (M861008), 20 April 2009, all EPA (DAM)**: HA 27 -** L. Bridget, Derrymore, Badyke, east shore (R558797), 21 April, 29 July and 17 September 2009; Castle Lake, Kilmurry, Sixmilebridge, south west shore (R481688), 12 June, 17 July and 17 September 2009; L. Inchicronan, Crusheen, west basin (R391860), 9 July 2009 and L. Cullaunyheeda, Kilkishen (R488746), 13 August and 17 September 2009, EPA (DAM)**: HA 28 -** L. Lickeen, Kilfenora, west shore (R168909), 21 July 2009, EPA (DAM). **CORK: HA 18 -** R. Blackwater: Killavullen (W648998), 31 August 1981; Ballymacquirk Bridge, Banteer (W382989), Roskeen Bridge, Banteer (W444988) and Lombardstown (W463968), 1 September 1981; Duncannon (W180931), Shamrock Bridge, Millstreet (W221935), Charles Bridge, Millstreet (W248943), Keale Bridge, Millstreet (W294936), 2 September 1981, all BPH (Hayes, 1991)**: HA 19 -** Iniscarra Reservoir, Coachford (W477717), 28 and 31 July, 16 September 2008 and L. Allua, Ballingeary (W180652), 17 June 2008, EPA (DAM)**: HA 20 -** L. Abisdealy, Skibbereen (W136314), 17 September 2008, EPA (DAM). R. Ilen, Madore (W103419) and Hollybrook

(W117363) also R. Ovane, Pierson's Bridge (W023454), all 24 August 1983 (Hayes, 1991). **DERRY: HA 1 -** Upper Reservoir, Creggan, Derry (C417173), 10 May 2001 and Lower Reservoir, Creggan, Derry (C422174), 26 April and 10 May 2001 (PHL)**: HA 3 -** R. Agivey, ford at Ballynameen (C827148), 14 April 2008; R. Bann, Coleraine (C854304), 3 May 2000, 30 June 2001 and 2 May 2010 all PHL (PHL); Pond 1, Magherafelt Golf Course, Traad Point (H950873), 10 May 2000 and R. Moyola, New Bridge, Magherafelt (H955905), 4 July 2000 (Langton, 2002). L. Neagh (H9080), no date (McLarnon and Carter, 2000); L. Neagh, Ballyronan (H948862), 1988 (Tokeshi, 1990) and 31 May 2011 (PHL). **DONEGAL: HA 37 -** R. Eany, d/s Eanybeg confluence (G842815), 10 August 1982 (Hayes, 1991)**: HA 38 -** foot path to L. Inshagh, GNP, Glenveagh (C035210), 13 May 1986 (Heneghan, 1986)**: HA 39 -** R. Leannan, Drumaboden (C165218), 12 August 1982 and R. Crana, Buncrana (C347328), 15 August 1982 (Hayes, 1991). **FERMANAGH: HA 36 -** L. Erne, Lower: Black Bay (H072639), 27 April 2002 (PHL); Brocagh Point, Boa Island (H108626), 5 June 2007 (Langton, 2002) and 17 August 2011 (PHL). **GALWAY: HA 25 -** L. Derg, Woodford (M794964), 24 May 2003 (Langton, 2004)**: HA 26 -** R. Shiven, d/s Ballinaglass (M788494), 29 July 1981 and R. Tirur, Newbridge (M492699), 16 August 1981 (Hayes, 1991)**: HA 30 -** L. Ballyquirke, Moycullen (M232317), 13 April and 14 September 2007; L. Beaghcauneen, Ballinaboy (L679470), 18 July 2007; L. Corrib Upper, Oughterard (M138486), 11 April and 14 August 2007; L. Corrib Lower, Moycullen (M271360), 28 August 2007 all EPA (DAM). L. Corrib, Derrenmeel, west shore (M150450), 9 April 1980, BC (DAM). R. Cregg, Addergoole Bridge, Addergoole (M324350), 16 August 1981 (Hayes, 1991)**: HA 31 -** L. Anaserd, Ballyconneely (L605443), 20 April 2006, EPA (DAM). R. Owentouey, Tullywee Bridge, Recess (L873474), 18 August 1981 (Hayes, 1991)**: HA 32 -** L. Aughrusbeg, Cleggan (L557582), 3 April 2007, EPA (DAM). **KERRY: HA 18 -** R. Blackwater, Lacknastooka (R153008), 2 September 1981 (Hayes, 1991)**: HA 22 -** Muckross Lake, Killarney, Dundag Bay (V964858), June and July 1973 (Murray, 1974 - as *Monotanytarsus inopertus*). **KILDARE: HA 9 -** pond, Lyons Estate, Celbridge (N972285), 29 March 1982, PJA (DAM). **KILKENNY: HA 15 -** R. Nore, Ballyragget (S445707) and Norelands Bridge (S547436), 28 August 1981 (Hayes, 1991). **LAOIS: HA 15 -** R. Nore, Castletown Bridge (S326930), Kilbricken (S362898), Shanahoe Bridge (S407858) and u/s Durrow (S416787), 27 August 1981 also R. Nore, Athanagh (S423763), 28 August 1981, all BPH (Hayes, 1991). **LEITRIM: HA 26 -** L. Acres, Drumshanbo (G968099), 11 June 2008, EPA (DAM). L. Boderg, Derrycarne, north west shore (N013915) and L. Bofin, Dromod (N049894), 10 September 2008, EPA (DAM). L. Rinn, Mohill (N095943), 25 June, 18 July and 10 September 2008, EPA (DAM) also at Lough Rynn Castle (N100935), 25 September 2014 (DAM)**: HA 35 -** L. Belhavel, Killarga, Dromahair (G878288), 10 June and 26 August 2008, EPA (DAM). **LIMERICK: HA 25 -** R. Mulkear, d/s Cappamore (R779504) and Dromkeen

Bridge (R741480), 8 September 1981 (Hayes, 1991). **LONGFORD: HA 26 -** L. Forbes, Cloonard, Newtownforbes (N084821), 25 June, 27 August and 10 September 2008, EPA (DAM). **MAYO: HA 26 -** L. Nanoge, Urlaur (M506903), 24 April and 23 September 2008, EPA (DAM)**: HA 30 -** L. Aille, Aille, Westport (M071807), 8 August 2008, EPA (DAM)**: HA 32 -** L. Roonagh, Roonagh (L749759), 30 September 2004, DAM/WM (Murray, 2005). L. Moher, Liscarney, Westport (L977766) and L. Knappabeg, Westport (M010803), 21 April 2008, L. Ballin, Westport, south shore (L994878), 22 April 2008, all EPA (DAM)**: HA 34 -** L. Conn, Illannaglashy (G207070), 20 August 2008, EPA (DAM). L. Cullin, Drummin Wood, north shore (G229028), 15 April, 18 June and August 2008, EPA (DAM). L. Lannagh, Castlebar, west shore (M109883), 21 August and north east basin (M137899), 26 September 2008, EPA (DAM). L. Levally, Massbrook (G146043), 22 April, 25 June and 23 September 2008, EPA (DAM). L. Washpool, Ballycarra (M219842), 25 September 2008, EPA (DAM). **MEATH: HA 7 -** R. Boyne, Bellinter Bridge (N894625), 19 May 1968 (Murray, 1972, 2005); R. Boyne, Ardsallagh, eel weir (N897630), 11 May 1982 (DAM). **MONAGHAN: HA 36 -** L. Avagnon, Latton, Cotehill (H688133), 6 June 2007, EPA (DAM). L. Drumlona, Rockcorry (H636176), 4 April and 5 June 2007, EPA (DAM). L. Inner, Dartery, Drum (H625173), 9 September 2007, EPA (DAM)**: HA 6 -** L. Monalty, Carrickmacross (H866027), 14 September 2007, EPA (DAM). **OFFALY: HA 25 -** R. Little Brosna: Ryan's Cross (S053882); Milltown Park (S068907) and Sharavogue (S056953), 2 September 1982 (Hayes, 1991). **ROSCOMMON: HA 26 -** R. Suck: Castlecoote (M809627) and Ballyforan (M817464), 16 July 1981 (Hayes, 1991). L. Meelagh, Keadew (G901117), 15 April, 11 June and 12 July 2008, EPA (DAM). L. Cavetown, Boyle (M832974), 17 July 2008, EPA (DAM). L. Glinn, Loughglinn, Castlerea (M629870), 12 June 2008, EPA (DAM). L. Key, Boyle (G838057), 14 April and 6 August 2008 also wharf in Forest Park, Boyle (G848040), 11 June 2008 and Hogs Island Pier (G825054), 9 September 2008, EPA (DAM). L. O'Flynn, Ballinlough, south east shore (M585786), 9 April, 12 June and 9 September 2008, EPA (DAM). L. Ree, Yew Point, Barley Harbour (N018485), 25 April and 11 September 2007, EPA (DAM). **SLIGO: HA 34 -** R. Moy, Annagh (G466123), 30 August 1982 (Hayes, 1991)**: HA 35 -** L. Arrow, Ballinafad (G789123), 29 April and 9 September 2008, EPA (DAM). L. Kilsallagh (Reservoir), Kilsallagh (G734393), 8 September 2008, EPA (DAM). L. Templehouse, Ballymote (G619182), 11 June 2008, EPA (DAM). **TIPPERARY: HA 15 -** R. Nore, Clonakenny (S116805), Nore Bridge (S133816) and Quaker Bridge (S211868), 27 August 1981 (Hayes, 1991). **WATERFORD: HA 17 -** Belle Lake, Dunmore East (S665049), 2 July 2009, EPA (DAM)**: HA 18 -** R. Blackwater, Ballyduff (W964992) and Lismore (X047988), 31 August 1981 (Hayes, 1991). **WESTMEATH: HA 25 -** L. Owel, Mullingar (N421566), 21 August 1973, NH (BPH), 4 April 1980 (BPH) also 1981 (Forde, 1985)**: HA 26 -** L. Killinure, Wineport (N067458) 24 April 2007

and Ballaghkeernan Bay (N069445), 24 April and 11 September 2007; L. Ree, Coosan (N050450), 15 August 2007 and L. Coosan, Athlone (N055449), 11 September 2007, all EPA (DAM)**: HA 7 -** L. Lene, (N510685), 26 April 2006, EPA (DAM). **WEXFORD: HA 12 -** R. Slaney, Edernline Bridge (S977345), 29 July 1981 (Hayes, 1991). **WICKLOW: HA 9 -** Pollaphuca Reservoir, Ballymore Eustace (N995080), 3 September 2009, EPA (DAM).

***Paratanytarsus laccophilus* (Edwards, 1929)**

CLARE: HA 25 - L. Alewnaghta, Whitegate, west shore (R758908), 17 June 2009, EPA (DAM)**: HA 27 -** L. Bridget, Derrymore, Badyke, east shore (R558797), 21 April 2009; L. Cullaun, Corrofin, mid east shore (R317905), 16 June 2009; L. Dromore, Ruan, Corrofin, west basin (R345858), 4 May 2006 and mid lake (R352864), 16 June 2009; L. Rosroe, Newmarket on Fergus, south east shore (R442681), 12 August 2009; L. Cullaunyheeda, Kilkishen (R488746), 13 August 2009, all EPA (DAM). **CORK: HA 19 -** L. Allua, Ballingeary (W180652), 17 June 2008, EPA (DAM)**: HA 19 -** L. Gouganebarra, Inchegeelagh (W009060), 7 April 1966 and 27 July 1968 (Murray, 1972)**: HA 20 -** L. Coolkllure, Dunmanway (W177539), 17 June 2008 and L. Curraghalicky, Drinagh, Dunmanway (W234046), 9 April 2008, EPA (DAM). **DERRY: HA 1 -** pool near Reservoir, Creggan, Derry (C414171), 18 May 2001 and 17 May 2002 (PHL). **DONEGAL: HA 1 -** L. Finn, Fintown, Glenties (B911018), 9 June 2009, EPA (DAM)**: HA 1 -** L. Derg, Pettigo (H074743), 8 June 2009 and L. Mourne, Ballybofey (H069900), 9 June 2009, EPA (DAM)**: HA 37 -** L. Eske, Donegal (G973844), 14 July 2009, EPA (DAM)**: HA 38 -** L. Nadourcan, Glenveagh (C054228), 18 July 2000 and L. Altercan, The Rosses (B755158), 19 July 2000 (Langton, 2002). **GALWAY: HA 29 -** L. Rea, Loughrea, east shore (M624153), 25 May 2003 (Langton, 2004)**: HA 30 -** L. Ballyquirke, Moycullen (M232317), 13 April 2007 and L. Corrib Lower, Moycullen (M271360), 28 August 2007, EPA (DAM)**: HA 32 -** L. Enask, Beaghcauneen (L662468), 6 June and 17 July 2007 also L. Tully, Tully Cross (L695618), 19 July 2007, EPA (DAM). **KERRY: HA 22 -** L. Leane, Killarney, Castlelough Bay, north shore (V966866), 14 July 1973 (Douglas and Murray, 1980). **LIMERICK: HA 24 -** L. Gur, Holycross (R646413), 13 June, 28 July and 16 September 2009, EPA (DAM). **MAYO: HA 30 -** L. Aille, Aille, Westport (M071807), 8 August 2008, EPA (DAM). L. Carra, Keel Bridge, Ballinrobe (M165680), 19 June 2008, EPA (DAM)**: HA 33 -** bog pool, Achill Island (F712008), 5 August 2004, DAM/WM (Murray, 2005)**: HA 34 -** L. Lannagh, Castlebar: west shore (M109883), 23 April and 21 August 2008; mid lake (M105880), 30 June 2008, EPA (DAM). **ROSCOMMON: HA 26 -** L. Annaghmore, Strokestown, Elphin (M902838), 2 September 2008; L. Cavetown, Boyle (M832974), 11 June, 17 July and 9 September 2008; L. O'Flynn, Ballinlough, south east shore (M585786), 12 June and 16 July 2008, all EPA (DAM). **SLIGO: HA 35 -** L. Arrow, Ballinafad (G789123), 11 June 2008 and L.

Templehouse, Ballymote (G619182), 9 September 2008, EPA (DAM). **WATERFORD: HA 16 -** Ballyscanlan Reservoir, Tramore (S540030), 22 April and 3 July 2009, EPA (DAM)**: HA 17 -** L. Carrigavantry, Tramore (S548022), 21 April 2009, EPA (DAM). **WESTMEATH: HA 26 -** L. Coosan, Athlone (N055449), 24 April and 11 September 2007, EPA (DAM). **WICKLOW: HA 9 -** Pollaphuca Reservoir, Ballymore Eustace (N995080), 22 June 2009, EPA (DAM).

***Paratanytarsus laetipes* (Zetterstedt, 1850)**

CAVAN: HA 36 - Mill Lake, Killashandra (H315060), 3 September 2007, EPA (DAM). **CLARE: HA 27 -** L. Bridget, Derrymore, Badyke, east shore (R558797), 17 September 2009, EPA (DAM)**: HA 27 -** Castle Lake, Kilmurry, Sixmilebridge, west shore (R482691), 17 September 2009, EPA (DAM). **DONEGAL: HA 38 -** L. Veagh, north east shore, sweep over vegetation, Glenveagh (C038236), 24 July 1985 (Heneghan, 1986). **FERMANAGH: HA 36 -** Dummys L., Magheraveely (H488276), 28 June 2000 (Langton, 2002). **GALWAY: HA 30 -** L. Anillaun, Maam Cross (L980470), 19 April 2007, EPA (DAM)**: HA 31 -** L. Ballynakill, Gorumna (L867236), 20 June 2006 and L. Nahasleam, Maam Cross (L972440), 20 June 2006 and 7 June 2007, EPA (DAM). **KERRY: HA 21 -** L. Inchiquin, Kenmare (V837629), 1 and 17 September 2008, EPA (DAM)**: HA 22 -** L. Leane, Killarney (V931886), 22 April and 24 June 2008 and Muckross Lake, Muckross, Killarney (V950853), 24 April 2008, EPA (DAM). **MAYO: HA 26 -** L. Nanoge, Urlaur (M506903), 18 June and 27 August 2008, EPA (DAM)**: HA 32 -** L. Glencullin, Delphi, south west shore (L819696), 25 August 2008, EPA (DAM). **MONAGHAN: HA 36 -** L. Summerhill, Magheraveely (H490280), 28 June 2000 (Langton, 2002) and L. Summerhill, Clones (H490279), 19 September 2007, EPA (DAM)**: HA 6 -** L. Monalty, Carrickmacross (H866027), 14 September 2007, EPA (DAM). **ROSCOMMON: HA 26 -** L. Cavetown, Boyle (M832974), 17 July 2008 and L. Grange (Grange L.), Greywood, Strokestown (M938857), 28 July 2008, EPA (DAM).

***Paratanytarsus lauterborni* (Kieffer, 1909)**

ANTRIM: HA 3 - pond, Templepatrick (J232856), 27 July 2008 (PHL)**: Rathlin Island -** lough in Nature Reserve (D095505), 24 July 2000 (Langton, 2002). **CLARE: HA 27 -** L. Bunny, Aughrim, south east shore (R377965) and L. Muckanagh, Tubber, Corrofin, mid lake (R368926), 7 June 2006, EPA (PHL). **DERRY: HA 1 -** Upper Reservoir, Creggan, Derry (C417173), 10 May 2001 (PHL). **GALWAY: HA 30 -** L. Anillaun, Maam Cross (L980470), 5 September 2007, EPA (DAM)**: HA 31 -** L. Nahasleam, Maam Cross (L972440), 16 May 2006, EPA (DAM). **KERRY: HA 21 -** L. Brin, Derreeny (V780775), 13 July and 10 September 2008, EPA (DAM)**: HA 22 -** L. Guitane, Crohane, Killarney (W025846), 16 May 2005, EPA (DAM). **KILKENNY: HA 15 -** R. Clogh, Clogh (S565790), 10 March 1976, CD (DAM).

[First published Irish record by Langton (2002) from collections on Rathlin Island (Antrim) in 2000. Recent examination (DAM) of collections made by C. Dowling yielded a record from HA 15 in Kilkenny from March 1976.]

***Paratanytarsus penicillatus* (Goetghebuer, 1928)**
CLARE: HA 25 - L. Alewnaghta, Whitegate, west shore (R758908), 17 June 2009, EPA (DAM)**: HA 29 -** L. Skeardeen, Kilcorkan (R388991), 7 April 2009, EPA (DAM). **CORK: HA 19 -** L. Gouganebarra, Inchegeelagh (W009060), 7 April 1966 (Murray, 1996, 2005)**: HA 21 -** L. Glenbeg, Ardgroom (V706530), 15 April, 18 June and 3 September 2008, EPA (DAM). **DERRY: HA 3 -** L. Neagh, Ballyronan (H948862), 27 April 1999 (PHL). **DONEGAL: HA 1 -** L. Mourne, Ballybofey (H069900), 20 April 2009, EPA (DAM)**: HA 36 -** L. Avehy, Belalt (H043664), 27 April 2002 (PHL). L. Tullynasiddagh, Ballyshannon (G983656), 7 September 2009, EPA (DAM)**: HA 37 -** Carn L., Blue Stack Mountains (G871886), 10 May 2005, JRB/MC (DAM)**: HA 38 -** L. Anure, Loughanure, east shore (B818162), 1 April 2010 and L. Barra, Commeen (B935119), 22 April and 9 September 2009, EPA (DAM)**: HA 38 -** L. Veagh, north east shore, sweep over vegetation, Glenveagh (C039231), 22 May 1985 (DAM). **GALWAY: HA 30 -** L. Anillaun, Maam Cross (L980470), 19 April and 1 August 2007; L. Bofin, Maam Cross (M034441), 18 April 2007 and L. Maumwee, Maam Cross (L977485), 19 April 2007, all EPA (DAM)**: HA 31 -** L. Shindilla, Derreennacreeva, south shore (L958460), 12 September 2006 and 13 September 2007, EPA (DAM). **KERRY: HA 21 -** L. Cloonaghlin, Waterville (V611708), 8 May and 10 September 2008, EPA (DAM). Eagles L., Knocknagantee (V674728), 9 August 2005 and Erik L., Derrygarriff (V881777), 25 April 2005, JRB (DAM). L. Inchiquin, Kenmare (V837629), 15 April 2008, EPA (DAM)**: HA 22 -** L. Acoose, Slievanore, Killorglin (V755854), 24 April 2008; L. Guitane, Crohane, Killarney (W025846), 16 May 2005, 21 April and 8 July 2008 and Muckross Lake, Muckross, Killarney (V950853), 24 April 2008, all EPA (DAM). **MAYO: HA 32 -** L. Doo, Delphi: north east shore (L834689), 6 June and 22 August 2002, DAM/WM (DAM); west shore (L833680), 25 August 2008, EPA (DAM). L. Glencullin, Delphi, south west shore (L819696), 25 August 2008 and L. Moher, Liscarney, Westport (L977766), 21 April and 18 September 2008, EPA (DAM)**: HA 33 -** bog pool, Achill Island (F712008), 5 August 2004, DAM/WM (Murray, 2005)**: HA 34 -** L. Alone, Ox Mountains (G367157), 22 April 2005, JRB (DAM). L. Washpool, Ballycarra (M219842), 25 September 2008, EPA (DAM). **SLIGO: HA 35 -** L. Easky, Ox Mountain (G446230), 18 June 2008, EPA (DAM). **WICKLOW: HA 10 -** L. Dan, Roundwood (O157035), 30 March and 2 September 2009 and Upper Glendalough Lake, Laragh, WMNP (T100960), 29 July 2009, EPA (DAM).

***Paratanytarsus tenellulus* (Goetghebuer, 1921)**
CLARE: HA 25 - L. Alewnaghta, Whitegate, west shore (R758908), 16 July 2009, EPA (DAM)**: HA 27 -** L. Bridget, Derrymore, Badyke, east shore (R558797), 29 July and 17 September 2009, EPA (DAM). L. Cullaun, Corrofin, mid east shore (R317905), 5 September 2006, L. Rosroe, Newmarket on Fergus, north east shore (R449697), 16 September 2009 and L. Atedaun, Corrofin (R297884), 21 April 2009, all EPA (DAM). **DERRY: HA 3 -** L. Neagh, Ballyronan (H948862), 27 April 1999 (PHL). **DONEGAL: HA 38 -** L. Veagh, north east shore (sweep), Glenveagh (C034223), 19 July 1985 (Heneghan, 1986). **DOWN: HA 5 -** L. Henney, Ballynahinch (J348586), 22 June 2000 (Langton, 2002). **MAYO: HA 26 -** L. Nanoge, Urlaur (M506903), 27 August 2008, EPA (DAM).

***Paratanytarsus tenuis* (Meigen, 1830)**
CLARE: HA 25 - L. Derg, Mountshannon, west shore (R718861) and d/s Killaloe (M705715), 18 September 2009, EPA (DAM). L. Alewnaghta, Whitegate, west shore (R758908), 20 April 2009, EPA (DAM)**: HA 27 -** L. Bridget, Derrymore, Badyke, east shore (R558797), 21 April and 17 September 2009, EPA (DAM). **CORK: HA 20 -** L. Curraghalicky, Drinagh, Dunmanway (W234046), 9 April, 17 June and 12 August 2008, EPA (DAM). **DONEGAL: HA 36 -** L. Unshin, Ballyshannon (G951637), 6 July and 8 September 2009, EPA (DAM)**: HA 37 -** L. Eske, Donegal (G973844), 17 April and 14 July 2009, EPA (DAM)**: HA 38 -** L. Barra, Commeen (B935119), 22 April 2009, EPA (DAM). L. Veagh, north east shore near Visitor Centre, Glenveagh (C033223), 19 July 2000 (Langton, 2002) and 9 May 2006 (PHL). **DUBLIN: HA 9 -** Royal Canal, Ashtown (O108378), 22 May 1968 (Murray, 1972). **FERMANAGH: HA 36 -** L. Erne, Lower, Black Bay (H072639), 27 April 2002 (PHL). **GALWAY: HA 30 -** L. Maumwee, Maam Cross (L977485), 19 April and 19 May 2005 and L. Ballyquirke, Moycullen (M232317), 13 April 2007, EPA (DAM)**: HA 31 -** L. Anaserd, Ballyconneely (L605443), 20 April 2006 and 4 April 2007, L. Ballynahinch, Ballynahinch (L777478), 17 April, 23 July and 13 September 2007, L. Derryclare, Recess (L825485), 13 September 2007, L. Nahasleam, Maam Cross (L972440), 8 August 2006 and 19 April 2007 and L. Shindilla, Derreennacreeva, south shore (L958460), 16 May 2006 also 19 April and 13 September 2007, all EPA (DAM)**: HA 32 -** L. Enask, Beaghcauneen (L662468), 17 September 2007 and L. Pollacappul, Kylemore (L754582), 9 July and 10 September 2007, EPA (DAM). **KERRY: HA 21 -** L. Currane, Waterville (V535664), 9 May, 18 June and 10 September 2008, EPA (DAM)**: HA 22 -** L. Acoose, Slievanore, Killorglin (V755854), 9 September 2008, L. Caragh, Killorglin (V719904), 20 June and 15 July 2008 and L. Cummernamuck, Killorglin (V745897), 16 April, 20 June, 18 July and 9 September 2008, all EPA (DAM). L. Guitane, Crohane, Killarney (W025846), 14 October 1973 (Douglas and Murray, 1980) and 8 July 2008,

EPA (DAM). L. Leane, Killarney (V931886), 18 September 2008, EPA (DAM); L. Leane, Killarney, Muckross Boathouse (V965866), 29 August and 6 September 1987, NOM (LJH). Muckross Lake, Dundag Bay (V964858), 27 July 1973 (Douglas and Murray, 1980; Murray, 2005). Muckross Lake (V950853), 24 April and 16 July 2008 and Upper Lake, Killarney (V909821), 9 September 2008, EPA (DAM). R. Caragh, Blackstones Bridge, d/s R. Acoose confluence (V710864), 1975, CD (Dowling *et al*., 1981)**: HA 23 -** L. Cam, Castlegregory (Q597079), 18 September 2008, EPA (DAM). **LEITRIM: HA 26 -** L. Bofin, Dromod (N049894), 24 June 2008, EPA (DAM). **MAYO: HA 26 -** L. Nanoge, Urlaur (M506903), 27 August 2008, EPA (DAM)**: HA 32 -** L. Doo, Delphi north east shore (L834689), 6 June and 22 August 2002, DAM/WM (DAM) also 22 September 2008, EPA (DAM): west shore (L835681), 9 May, 16 August 2006 and 25 August 2008, EPA (DAM). L. Fin, Delphi (L841657), 9 May 2006, EPA (DAM). **ROSCOMMON: HA 26 -** L. Cavetown, Boyle (M832974), 11 June and 17 July 2008, Grange L., Greywood, Strokestown (M938857), 25 June 2008 and L. Key, Hogs Island Pier, Boyle (G825054), 9 September 2008, EPA (DAM). **WESTMEATH: HA 25 -** L. Ennell, Tudenham (N415466), 1981 (Forde, 1985)**: HA 26 -** L. Killinure, Wineport (N067458), 11 September 2007, EPA (DAM).

***Rheotanytarsus curtistylus* (Goetghebuer, 1921)**

CLARE: HA 28 - R. Caher, Holywell, 2.5km from source (M173069), 27 October 1999, CB (DAM in Kelly-Quinn *et al*., 2003). **DERRY: HA 1 -** Upper Reservoir, Creggan, Derry (C417173), 10 May 2001 (PHL). **DONEGAL: HA 38 -** R. Devlin, Dunlewy (B927190), 19 July 2000 (Langton, 2002). **GALWAY: HA 30 -** R. Cregg, Addergoole Bridge, Addergoole (M324350), 18 August 1981 (Hayes, 1991; Murray, 1996). **KILDARE: HA 7 -** R. Boyne, Ballyboggan (N639402), 9 July 1981 (Hayes, 1991; Murray, 1996). **LEITRIM: HA 26 -** L. Boderg, Derrycarne, north west shore (N013915), 10 September 2008, EPA (DAM). **MAYO: Clare Island -** roadside, Bayview Hotel (L716856) and Knockaveen hillside (L698858), 28 April 2002 also Loughnapucar stream, south east of Signal Tower (L657850), 21 August 2002, all DAM/WM (Murray and Murray, 2003). **MEATH: HA 7 -** R. Boyne, Scarrif Bridge (N733527) and Newtown, Trim (N815571), 9 July 1981 (Hayes, 1991; Murray, 1996); Bru ńa Boinne Centre, Newgrange (O023727), 21 June 2015 (Murray, 2015a). R. Skane, Dalgan Park, Navan (N901626), 15 May 2015 (DAM). **ROSCOMMON: HA 30 -** R. Dalgan, Clonfad (M518712), 20 August 1981 (Hayes, 1991; Murray, 2005). **WEXFORD: HA 12 -** R. Sow tributary, Garylough Mill, Screen (T076302), 6 May 2006, DAM/WM (Murray, 2015a).

***Rheotanytarsus muscicola* Thienemann, 1929**

DERRY: HA 1 - pool near Reservoir, Creggan, Derry (C414171), 17 May 2002 and inflow to

Upper Reservoir, Creggan, Derry (C413171), 10 and 18 May 2002 (Langton, 2004)**: HA 3 -** R. Bann, Coleraine (C855304), 17 and 25 May 2000 (Langton, 2004). **DOWN: HA 3 -** Upper R. Bann tributary, Tullyconnaught (J166451), 19 September 1997 (PHL) and 27 August 1998, LMcL (Langton, 2004). **FERMANAGH: HA 36 -** R. Bannagh, Drummoney Falls, Pettigo (H168676), 17 August 2011 (PHL).

***Rheotanytarsus nigricauda* Fittkau, 1960**

CARLOW: HA 12 - R. Slaney, Kildavin (S899597), 28 July 1981 (Hayes, 1991; Murray, 1996). **KILKENNY: HA 15 -** R. Nore, Threecastles (S458626), 27 August 1981 (Hayes, 1991; Murray, 1996). **WEXFORD: HA 12 -** R. Slaney, Edernline Bridge (S977345), 29 July 1981 (Hayes, 1991; Murray, 1996). **WICKLOW: HA 12 -** R. Slaney, Glen of Imail: Knickeen (S987948) and Knockgarrigan (S936937), 28 July 1981 (Hayes, 1991; Murray, 2005).

***Rheotanytarsus pellucidus* (Walker, 1848)**

Synonym *Rheotanytarsus distinctissimus* (Brundin, 1947)

CLARE: HA 28 - R. Annageeragh, Moyglass Bridge, d/s L. Doo (R078725) and R. Doonbeg, Derryard (Q979644), 30 July 1982 (Hayes, 1991). **CORK: HA 18 -** R. Blackwater: Ballymacquirk Bridge, Banteer (W382989) and Roskeen Bridge, Banteer (W444988), 1 September 1981 also Knocknagree (W159975), Duncannon (W180931), Shamrock Bridge, Millstreet (W221935), and Charles Bridge, Millstreet (W248943), 2 September 1981, all BPH (Hayes, 1991)**: HA 20 -** R. Bandon: Long Bridge, Dunmanway (W242631), 18 April, 27 May, 30 June, 25 August and 25 September 1980; Bealabouy Bridge, Dunmanway (W257514), 25 August and 25 September 1980; u/s Ballineen (W331537), 18 April and 25 August 1980, all GM (Morgan, 1982); Ballineen Bridge (W434538), 25 September 1980; Castle Bernard, u/s Bandon (W472546), 27 May and 25 September 1980; 2.5km d/s Bandon (W516569), 25 September 1980, all GM (Morgan, 1982). R. Ilen, Drimoleague (W098454), Madore (W103419) and Hollybrook (W117363), all 24 August 1983, all BPH (Hayes, 1991). **DONEGAL: HA 1 -** R. Deele, Legland, Raphoe (C136028), 19 July 2000 (Langton, 2002)**: HA 37 -** R. Eany, d/s Eanybeg confluence (G842815), R. Eanymore, Letterbara Bridge (G883825), R. Eanymore, Drumagraa Bridge (G863822) and R. Stragar, Duninkeely (G727792), all 10 August 1982, all BPH (Hayes, 1991). R. Oily, Claggen (G751803), 8 August 1982 (Hayes, 1991)**: HA 38 -** R. Owenveagh, Glenbeagh Cottage, Glenveagh (B990178), 30 July 1985 (Heneghan, 1986). Owennacally stream, Glenveagh (C043226), 19 July 2000 (Langton, 2002)**: HA 39 -** R. Glashagh, Drumbologe, Letterkenny (C096153) and R. Swilly, Newmills, Letterkenny (C125092), 18 July 2000 (Langton, 2002). R. Leannan: Kilnacrenan (C145200) and Drumaboden (C165218), 12 August 1982 also Claragh (C197210), 13 August 1982, all BPH

(Hayes, 1991). R. Crana, Buncrana (C347328) and Ballymagan (C379344), 15 August 1982 (Hayes, 1991)**: HA 40 -** R. Keenagh, Hugh Roe's Bridge, Umgall (C454543), 16 August 1982 (Hayes, 1991). **FERMANAGH: HA 35 -** Glen R., Garrison (G943522), 29 June 2000 (Langton, 2002). **GALWAY: HA 29 -** L. Coole, Gort (M432043), 15 June 2009, EPA (DAM)**: HA 30 -** R. Loughkip, Ballyquirk, Moycullen (M224313), 17 August 1981 (Hayes, 1991)**: HA 31 -** L. Ahalia, Gortmore, north east shore (L971402), 22 April and 23 September 2009, EPA (DAM)**: HA 32 -** R. Owenglin, Clifden (L677506) and R. Dawros, Tullywee Bridge, Letterfrack (L730586), 18 August 1981 (Hayes, 1991). **KERRY: HA 18 -** R. Blackwater, Lacknastooka (R153008), 2 September 1981 (Hayes, 1991)**: HA 21 -** L. Brin, Derreeny (V780775), 10 September 2008, EPA (DAM). R. Inny, Scarriff Bridge (V504696) and u/s Waterville (V525704), 24 August 1983 (Hayes, 1991)**: HA 22 -** L. Guitane, Crohane, Killarney (W025846), 16 May 2005, EPA (DAM). R. Annascaul, Annascaul (Q593017), 2 July 1981 (Hayes, 1991). R. Caragh, Lower Brida Valley (V740805) and Blackstones Bridge, d/s R. Acoose confluence (V710864), 1975, CD (Dowling *et al.*, 1981). R. Clydagh, u/s Clydagh Bridge (W114826), 6 June 1976, DAM (Douglas and Murray, 1980; Murray, 2005) and April to October 1978 (Ashe, 1982). R. Flesk: d/s Clydagh/Loo confluence (W084814), Garries Bridge (W082835), Flesk Bridge (W034876), d/s Whitebridge (V987900), d/s New Bridge (V963885) and u/s L. Leane (V964894), all April to October 1978, all PJA (Ashe, 1982). R. Loo, Aughnanus Bridge, Crohane (W045790), 19 August 1981 (Ashe, 1982). **LAOIS: HA 15 -** R. Nore, Castletown Bridge (S326930) and Kilbricken (S362898), 27 August 1981 (Hayes, 1991). **LIMERICK: HA 25 -** R. Mulkear, Cappamore (R775514) and d/s Cappamore (R779504), 8 September 1981 (Hayes, 1991). **MAYO: HA 32 -** road bridge d/s L. Nahaltora, Derrygarve, Cregganbaun (L784744), 6 June 2004, DAM/WM (DAM)**: HA 32 -** R. Carrowinsky, u/s bridge, Killeen, Carrowinskey (L770773) and R. Burleemslough, Clapper Bridge Ford, u/s Roonagh L., Killeen (L754759), 5 August 2004, DAM/WM (DAM). R. Bunowen, Louisburg, upstream of bridge, Louisburg (L807807), 7 May and 5 August 2004 also upland tributary to R. Bunowen, Laghta Eighter (L867739), 7 May 2004 and R. Owengarve, Rosgalliv Bridge, Mulranny (L886962), 4 August 2004, all DAM/WM (DAM). R. Erriff, Ashleigh Falls (L895645), 18 August 1981 (Hayes, 1991)**: HA 33 -** R. Glenlassra, Belderg (G023407), 19 August 1983 (Hayes, 1991)**: HA 34 -** R. Moy, Bellanacurra (G403047), 29 August 1982 and Cloongullaun (G348016), 30 August 1982 (Hayes, 1991). **SLIGO: HA 34 -** R. Moy, Carrowneden (G530205), Cloonacool (G493168) and Annagh (G466123), 30 August 1982, all BPH (Hayes, 1991).

***Rheotanytarsus pentapoda* (Kieffer, 1909)**

ANTRIM: HA 3 - R. Clogh, Clough Mills (D105109), 2 July 2000 (Langton, 2002)**: HA 4 -** R.

Bush, Stranocum (D009307), 2 July 2000 (Langton, 2002). R. Glendun (Glendun R.), Drumfresky, Cushendun (D193308), 2 July 2000 (Langton, 2002). **CARLOW: HA 12 -** R. Slaney, Kildavin (S899597), 28 July 1981 (Hayes, 1991). R. Derreen, Acann Bridge (S900781), 29 July 1981 (Hayes, 1991). **CAVAN: HA 36 -** R. Erne, Dingin's Bridge (N331948), 27 August 1982 (Hayes, 1991). **CLARE: HA 28 -** R. Doonbeg, Derryard (Q979644), 30 July 1982 (Hayes, 1991). **CORK: HA 18 -** R. Blackwater: Killavullen (W648998), 31 August 1981, Ballymacquirk Bridge, Banteer (W382989), Roskeen Bridge, Banteer (W444988) and Lombardstown (W463968), 1 September 1981; Knocknagree (W159975), Duncannon (W180931), Shamrock Bridge, Millstreet (W221935), Charles Bridge, Millstreet (W248943) and Keale Bridge, Millstreet (W294936), 2 September 1981, all BPH (Hayes, 1991)**: HA 20 -** R. Bandon: Long Bridge, Dunmanway (W242631), 27 May, 30 June, 25 August and 25 September 1980; Bealabouy Bridge, Dunmanway (W257514), 27 May, 30 June, 25 August and 25 September 1980; u/s Ballineen (W331537), 18 April, 27 May, 30 June, 25 August and 25 September 1980; Ballineen Bridge (W434538), 27 May, 30 June, 25 August and 25 September 1980; Castle Bernard (u/s Bandon) (W472546), 18 April, 27 May, 30 June, 25 August and 25 September 1980; 2.5km d/s Bandon (W516569), 18 April, 30 June, 25 August and 25 September 1980, all GM (Morgan, 1982). R. Ilen, Drimoleague (W098454), Madore (W103419) and Hollybrook (W117363) also R. Ovane, Pierson's Bridge (W023454), all 24 August 1983, all BPH (Hayes, 1991). **DERRY: HA 1 -** inflow to Upper Reservoir, Creggan, Derry (C413171), 14 July 2000 (PHL)**: HA 2 -** R. Roe, Largy Bridge, Limavaddy (C681202), 14 July 2000 (Langton, 2002)**: HA 3 -** R. Moyola, New Bridge, Magherafelt (H955905), 4 July 2000 and 7 May 2001 (Langton, 2002). **DONEGAL: HA 37 -** R. Oily, Claggen (G751803), 8 August 1982 and R. Stragar, Duninkeely (G727792), R. Eany, d/s Eanybeg confluence (G842815), R. Eanymore, Letterbara Bridge (G883825) and Drumagraa Bridge (G863822), all 10 August 1982, all BPH (Hayes, 1991)**: HA 38 -** R. Gweedore, L. Anure outflow, Crolly (B827184), R. Devlin, Dunlewy (B927190) and Owenacally stream, Glenveagh (C043226), 19 July 2000 (Langton, 2002) R. Tullaghobeg, Millmount (B933304), 12 August 1982 (Hayes, 1991). R. Owenveagh, Glenbeagh Cottage, Glenveagh (B990178), 30 July 1985 (Heneghan, 1986). R. Ray, Carrowcanon (B995325) and Crocnalaragh (B989272), 12 August 1982 (Hayes, 1991)**: HA 39 -** R. Glashagh, Drumbologe, Letterkenny (C096153) and R. Swilly, Newmills, Letterkenny (C125092), 18 July 2000 (Langton, 2002). R. Leannan, Drumaboden (C165218), 12 August 1982 and Claragh (C197210), 13 August 1982 (Hayes, 1991). R. Crana, Ballymagan (C379344), 15 August 1982 (Hayes, 1991)**: HA 40 -** R. Keenagh, Hugh Roe's Bridge, Umgall (C454543), 16 August 1982 (Hayes, 1991). **GALWAY: HA 26 -** R. Tirur, Newbridge (M492699), 16 August 1981 (Hayes, 1991) and 29 August 1982 (Hayes and Murray, 1989)**: HA 30 -** R. Loughkip, Ballyquirk, Moycullen (M224313), 17 August 1981 and R. Grange, Grange

Bridge (M482498), 16 August 1981 (Hayes, 1991). R. Owenriff, Oughterard (M112426), 25 May 2003 (PHL)**: HA 31 -** L. Ahalia, Gortmore, north east shore (L971402), 22 April 2009 and L. Derryclare, Recess (L825485), 17 April and 16 July 2007, EPA (DAM). R. Owentouey, Tullywee Bridge, Recess (L873474), 18 August 1981 (Hayes, 1991)**: HA 32 -** R. Owenglin, Clifden (L677506) and R. Dawros, Tullywee Bridge, Letterfrack (L730586), 18 August 1981 (Hayes, 1991). **KERRY: HA 18 -** R. Blackwater, Lacknastooka (R153008), 2 September 1981 (Hayes, 1991)**: HA 21 -** L. Derriana, Waterville (V621740), 13 July 1979, JPOC (Murray, 2005). R. Inny, Scarriff Bridge (V504696) and u/s Waterville (V525704), 24 August 1983 (Hayes, 1991)**: HA 22 -** Muckross Lake, Muckross, Killarney (V950853), 24 June 2008, EPA (DAM). R. Annascaul, Annascaul (Q593017), 2 July 1981 (Hayes, 1991). R. Caragh, Blackstones Bridge, d/s R. Acoose confluence (V710864), 1975, CD (Dowling *et al.*, 1981). R. Clydagh, Caherbarnagh (W202842), u/s Clydagh Bridge (W114826) and Knocknagowan (W187837), April to September, 1978 (Ashe, 1982). R. Flesk: d/s R. Clydagh - R. Loo confluence (W084814) and Garries Bridge (W082835), April to September 1978 (Ashe, 1982); Flesk Bridge (W034876), July 1973 (Douglas and Murray, 1980) and April to September, 1978 (Ashe, 1982); White Bridge (V987904), July 1973 (Douglas and Murray, 1980); d/s Whitebridge (V987900), 27 July 1976 (Ashe, 1976) and April to September 1978 (Ashe, 1982); Newbridge, Muckross Road (V968896), 28 August 1973 (Douglas and Murray, 1980); d/s New Bridge (V963885) and u/s L. Leane (V964894), April to September 1978 (Ashe, 1982). R. Loo, Aughnanus Bridge, Crohane (W045790), April to September, 1978 (Ashe, 1982). R. Torc upper, Torc Mountain, Killarney (V959830), 1973 (Douglas and Murray, 1980) and u/s Torc waterfall, (V964835), 26 August 1987 (DAM)**: HA 23 -** L. Cam, Castlegregory (Q597079), 29 August 2008, EPA (DAM). **KILDARE: HA 7 -** R. Boyne, Edenderry (N636346), 9 July 1981 (Hayes, 1991). **KILKENNY: HA 15 -** R. Nore, Ballyragget (S445707), Norelands Bridge (S547436) and Brownsbarn Bridge (S618391), 28 August 1981 (Hayes, 1991). **LAOIS: HA 15 -** R. Nore, Castletown Bridge (S326930), Kilbricken (S362898) and Shanahoe Bridge (S407858), all 27 August 1981 and R. Nore, Athanagh (S423763), 28 August 1981, all BPH (Hayes, 1991). **LIMERICK: HA 25 -** R. Mulkear, Cappamore (R775514) and d/s Cappamore (R779504), 8 September 1981 (Hayes, 1991). **MAYO: HA 32 -** R. Carrowinsky, u/s bridge, Killeen (L770773) and Burleemslough at Clapper Bridge Ford, u/s Roonagh L., Killeen (L754759), 5 August 2004 also Bunowen, Louisburg, u/s bridge, Louisburg (L807807), 7 May and 5 August 2004, DAM/WM (DAM). L. Fin, Delphi (L841657), 19 May 2005, EPA (DAM). R. Erriff, Ashleigh Falls (L895645), 18 August 1981, BPH (Hayes, 1991). L. Knappabeg, Westport (M010803), 23 July 2008, EPA (DAM)**: HA 33 -** R. Owenmore, Bangor Bridge, Bangor Erris (F863228), 18 August 1983 and R. Glenlassra, Belderg (G023407), 19 August 1983 (Hayes, 1991)**: HA 34 -** R. Moy: Bellanacurra (G403047) and Ballylahan (M277992), 29

August 1982 also Cloongullaun (G348016), 30 August 1982, all BPH (Hayes, 1991). **MEATH: HA 7 -** R. Boyne: Stackallen Bridge (N918713), 12 July 1981 (Hayes, 1991); Slane Bridge (N965737), Knowth Weir (N995720), Oldbridge (O045761), d/s Oldbridge (O062753), 19 July 1989 and Bru ńa Boinne Centre, Newgrange (O023727), 28 June 2015 (DAM). **OFFALY: HA 25 -** R. Shannon, Shannon Bridge (M967254), 15 August 1981, R. Little Brosna, Sharavogue (S056953) and New Bridge (N016088), 2 September 1982 (Hayes, 1991). **ROSCOMMON: HA 26 -** R. Suck, Ballyforan (M817464), 16 July 1981 (Hayes and Murray, 1989; Hayes, 1991); Castlecoote (M809627) and Athleague (M825758), 14 August 1981, BPH (Hayes, 1991; Murray, 2005)**: HA 30 -** R. Dalgan, Clonfad (M518712), 20 August 1981 (Hayes, 1991). **SLIGO: HA 34 -** R. Moy, Cloonacool (G493168) and Metal Bridge, Tobercurry (G464138), 30 August 1982 (Hayes, 1991)**: HA 35 -** R. Drumcliff, Glencar (G734430) and R. Easky, Easky (G377378), 19 August 1983 (Hayes, 1991). **TIPPERARY: HA 15 -** R. Nore, Quaker Bridge (S211868), 27 August 1981 (Hayes, 1991). **TYRONE: HA 1 -** Dennet Stream, Essbeg Bridge, Lisnaskee (H384306), 27 June 2000 (Langton, 2002)**: HA 3 -** R. Ballinderry, Ballinderry Bridge (H928798), 10 May 2000 (Langton, 2002). **WATERFORD: HA 18 -** R. Blackwater, Ballyduff (W964992) and Lismore (X047988), 31 August 1981 (Hayes, 1991). **WEXFORD: HA 11 -** R. Ounvarra, Ballycanew (T153519), 6 May 2006, DAM/WM (DAM)**: HA 12 -** R. Boro, Dunamore Bridge, Enniscorthy (S963366) and R. Slaney, Edernline Bridge (S977345), 29 July 1981 (Hayes, 1991). **WICKLOW: HA 10 -** R. Glencullen, Knocksink (O218180), 18 May 1987, DEM/DAM (Morgan, 1989). R. Avonbeg, Meetings Bridge (T188831), 11 July and 27 October 1997 (Curran, 2001). R. Avonmore, Castlehoward (T190833), 4 August 1983 (Hayes, 1991); R. Avonmore, Lion Arch Bridge (T194833), 11 July 1997 (Curran, 2001). R. Avoca, Whitebridge, Tigroney (T198821), 4 August 1983 (Hayes, 1991) and 11 July 97 (Curran, 2001); R. Avoca, Avoca Village (T203802), 11 July 1997, FC (Curran, 2001; Curran and Murray, 2001)**: HA 12 -** R. Derry, Balisland (S978645), 28 July 1981 and Bridgeland (T021744), 29 July 1981 (Hayes, 1991). R. Slaney, Knockgarrigan, Glen of Imail (S936937), Stratford Bridge (S895930) and Kilmurray (S889856), 28 July 1981 (Hayes, 1991).

***Rheotanytarsus photophilus* (Goetghebuer, 1921)**

CLARE: HA 27 - Castle Lake, Kilmurry, Sixmilebridge, west shore (R482691), 17 September 2009, EPA (DAM). **KERRY: HA 22 -** R. Annascaul, Annascaul (Q593017), 19 April 1981, BPH (Hayes, 1991; Murray, 2005). R. Caragh, L. Caragh outflow (V713924), 17 July 1975 (DAM). **OFFALY: HA 25 -** R. Shannon, Banagher (N005157), 3 September 1982 (Hayes, 1991). **ROSCOMMON: HA 26 -** R. Suck, Castlecoote (M809627), 16 July 1981 (Hayes, 1991; Murray, 2005); Ballyforan (M817464), 16 July 1981 (Hayes, 1991) and 20 August 1983 (Hayes and Murray, 1989). **TYRONE: HA 3 -** R. Ballinderry, Ballinderry Bridge (H928798), 10 May

2000 (Langton, 2002).

***Rheotanytarsus reissi* Lehmann, 1970**
MEATH: HA 7 - R. Skane, Dalgan Park, Navan (N9901626), 23 May 2015 (Murray, 2015a).

***Rheotanytarsus rhenanus* Klink, 1983**
FERMANAGH: HA 35 - Glen R., Garrison (G943522), 29 June 2000 (Langton, 2002). **GALWAY: HA 26 -** R. Tirur, Newbridge (M492699), 16 August 1981 (Hayes, 1991) and 29 August 1982, BPH (Murray, 1996). **KILKENNY: HA 15 -** R. Nore, Ballyragget (S445707), 28 August 1981, BPH (Murray, 1996). **OFFALY: HA 25 -** R. Little Brosna, Myrtlegrove (S051852), 2 September 1982, BPH (Murray, 1996).

***Rheotanytarsus rioensis* Langton and Armitage, 1995**
KERRY: HA 22 - R. Caragh, Blackstones Bridge, d/s R. Acoose confluence (V710864), 4 August 1975 and R. Flesk, Killarney, u/s New Bridge (V973895), 25 August 1973, JPOC (Murray and O'Connor, 2012).

***Stempellina almi* Brundin, 1947**
CAVAN: HA 36 - L. Macnean, lower, Blacklion (H106378), 7 June and 18 September 2007, EPA (DAM). **CLARE: HA 25 -** L. Graney, Doorus (R557924), 11 August 2009, EPA (DAM)**: HA 27 -** Castle Lake, Kilmurry, Sixmilebridge, west shore (R482691), 17 September 2009, EPA (DAM). **GALWAY: HA 30 -** L. Ballyquirke, Moycullen (M232317), 8 August 2007, EPA (DAM)**: HA 30 -** L. Ross, Moycullen (M188365), 8 August and 5 September 2007, EPA (DAM). **LEITRIM: HA 26 -** L. Bofin, Rinnafarna Dromod (N036891), 29 July 2008; L. Rinn, Mohill (N095943), 25 June and 18 July, 2008 and L. Belhavel, Killarga, Dromahair (G878288), 10 June and 26 August 2008, all EPA (DAM). **ROSCOMMON: HA 26 -** L. Annaghmore, Strokestown, Elphin (M902838), 2 September 2008, EPA (DAM). **SLIGO: HA 35 -** L. Gill, Sligo (G782350), 20 August 2008, EPA (DAM). **WATERFORD: HA 17 -** Belle Lake, Dunmore East (S665049), 22 April and 2 July 2009, EPA (DAM).

***Stempellina bausei* (Kieffer, 1911)**
ANTRIM: HA 4 - R. Brymore, Brymore Bridge (D162275), 2 July 2000 (Langton, 2002). **CAVAN: HA 36 -** L. Annagh, Butler's Bridge (H394125), 3 July, 3 and 18 September 2007, L. Cuillaghan, Ballyconnell (H303183), 25 July 2007, L. Garty, Arvagh (N278978), 18 July and 18 September 2007, L. Macnean, lower, Blacklion (H106378), 7 June and 18 September 2007, and L. Sillan, Shercock, north east shore (H705067), 8 June 2007, all EPA (DAM)**: HA 7 -** L.

Drumkeery, Baileborough (H663002), 1 May and 12 June 2007, EPA (DAM). **CLARE: HA 25 -** L. Graney, Doorus, west shore (R556930), 8 June and 6 July 2006 also L. Graney (R557924), 11 August 2009, all EPA (DAM). L. Derg, Mountshannon (R718861), 18 September 2009, EPA (DAM). L. Graney, Caher, south shore (R568907), 24 May 2003 (PHL). L. Graney, Drumandora, west shore (R553938), 15 June 2009 and Flagmount, east shore (R563932), 16 September 2009 also L. Alewnaghta, Whitegate, west shore (R758908), 16 July 2009, all EPA (DAM)**: HA 27 -** L. Inchiquin: Corrofin (R270895), 6 September 2006; west shore (R266896), 15 July 2009 and south east shore (R272894), 17 September 2009, all EPA (DAM). L. Cullaunyheeda, Kilkishen (R488746), 13 August and 17 September 2009, EPA (DAM)**: HA 28 -** L. Lickeen, Kilfenora, mid lake (R175909), 3 May and 6 September 2006, EPA (DAM). **CORK: HA 20 -** L. Coolkllure, Dunmanway (W177539), 16 September 2008, EPA (DAM)**: HA 21 -** L. Glenbeg, Ardgroom (V706530), 3 September 2008, EPA (DAM). **DONEGAL: HA 36 -** L. Tullynasiddagh, Ballyshannon (G983656), 7 September 2009, EPA (DAM)**: HA 38 -** L. Dunlewy, Dunlewy (B926193), 19 July 2000 (Langton, 2002)**: HA 39 -** L. Gartan, Church Hill, mid lake (C055159), 10 June and 22 July 2009, EPA (DAM). **FERMANAGH: HA 36 -** L. Erne, Lower, Black Bay (H072639), 27 April 2002 (PHL). L. Macnean, upper, Belcoo (H042403) and L. Macnean, lower, Belcoo (H085384), 29 June 2000 (Langton, 2002). **GALWAY: HA 25 -** L. Derg, Woodford (M794964), 24 May 2003 (PHL)**: HA 29 -** L. Caherglassaun, Gort (M412061), 12 April, 13 June and 7 August 2007, EPA (DAM). L. Coole, Gort (M425037), 27 July 2009, EPA (DAM)**: HA 30 -** L. Anillaun, Maam Cross (L980470), 19 April, 1 August and 5 September 2007, EPA (DAM). L. Corrib, Derrenmeel, west shore (M150450), 1980, BC (DAM) and L. Corrib Upper, Oughterard (M138486), 14 September 2007, EPA (DAM). L. Maumwee, Maam Cross (L977485), 19 April 2007 and L. Ross, Moycullen (M188365), 14 April and 5 September 2007, EPA (DAM)**: HA 31 -** L. Ahalia, Gortmore, north east shore (L971402), 22 April 2009, L. Anaserd, Ballyconneely (L605443), 20 April 2006 and L. Aunwillan, Carraroe (L936255), 25 July and 13 September 2007, L. Ballynahinch, Ballynahinch (L777478), 17 April, 23 July and 13 September 2007 and L. Ballynakill, Gorumna (L867236), 19 April, 8 August and 19 September 2006, all EPA (DAM). L. Derryclare, Recess (L825485), 6 June 2007, L. Illauntrasna, Glentrasna, Garomna (L888254), 16 April, 25 July, and 12 September 2007 and L. Nahasleam, Maam Cross (L972440), 8 August 2006 and 19 April 2007 and L. Shindilla, Derreennacreeva, south shore (L958460), 16 May and 26 July 2007, all EPA (DAM). R. Owentouey, Tullywee Bridge, Recess (L873474), 18 August 1981 (Hayes, 1991)**: HA 32 -** L. Ballynakill, Cleggan (L639581), 5 June and 11 July 2007 and L. Tully, Tully Cross (L695618), 19 July 2007, EPA (DAM). R. Dawros, Tullywee Bridge, Letterfrack (L730586), 18 August 1981 (Hayes, 1991). L. Pollacappul, Kylemore (L754582), 10 September 2007 and L. Kylemore, Kylemore (L771582), 5 June 2007,

EPA (DAM). **KERRY: HA 21 -** L. Brin, Derreeny (V780775), 13 July and 10 September 2008, L. Cloonaghlin, Waterville (V611708), 8 May and 10 September 2008 and L. Inchiquin, Kenmare (V837629), 1 and 17 September 2008, EPA (DAM)**: HA 22 -** L. Acoose, Slievanore, Killorglin (V755854), 9 September 2008 and L. Guitane, Crohane, Killarney (W025846), 26 June and 9 September 2008, EPA (DAM). L. Leane, Killarney, Castlelough Bay, north shore (V975873), 23 August 1973 (Douglas and Murray, 1980); L. Leane, Killarney (V931886), 10 July and 18 September 2008, EPA (DAM). Muckross Lake, Muckross, Killarney (V950853), 18 September 2008, EPA (DAM). R. Flesk, d/s R. Clydagh - R. Loo confluence (W084814), 11 August 1978, PJA (Ashe, 1982; Murray, 2005); R. Loo, Aughnanus Bridge, Crohane (W045790), March to October 1978 (Ashe, 1982). Upper Lake, Killarney (V909821), 17 July and 9 September 2008, EPA (DAM)**: HA 23 -** L. Cam, Castlegregory (Q597079), 29 August 2008, EPA (DAM). **LEITRIM: HA 26 -** L. Allen, Mountallen, Drumshanbo (G950145), 7 August and 9 September 2008, EPA (DAM). L. Boderg, Dromod (N020910), 25 June 2008 and Derrycarne (N013915), 10 September 2008, EPA (DAM). L. Bofin, Dromod (N049894), 24 June and 10 September 2008 also Rinnafarna, Dromod (N036891), 29 July 2008, EPA (DAM). L. Rinn, Mohill (N095943), 25 June 2008, EPA (DAM)**: HA 35 -** L. Belhavel, Killarga, Dromahair (G878288), 10 June 2008, EPA (DAM). L. Glenade, Glenade, Manorhamilton (G831457), 10 June and 22 July 2008, EPA (DAM). L. Glencar, Glencar (G757435), 10 June, 21 July and 2 September 2008, EPA (DAM). **LIMERICK: HA 25 -** R. Mulkear, Dromkeen Bridge (R741480), 8 September 1981 (Hayes, 1991). **LONGFORD: HA 26 -** L. Forbes, Cloonard, Newtownforbes (N084821), 25 June and 10 September 2008, EPA (DAM). L. Ree, Bleanavoher (N069445), 25 April 2007, EPA (DAM). **MAYO: HA 26 -** L. Nanoge, Urlaur (M506903), 27 August 2008, EPA (DAM)**: HA 32 -** L. Doo, Delphi: north east shore (L834689), 22 August 2002, DAM/WM (DAM); west shore (L835681), 12 July and 16 August 2006 also west shore (L833680), 25 August 2008, all EPA (DAM). L. Fin, Delphi (L841657), 9 May, 28 June and 11 September 2006, EPA (DAM). L. Feeagh, Newport (L975983), 24 July and 17 September 2008, EPA (DAM). L. Knappabeg, Westport (M010803), 23 July and 18 September 2008, EPA (DAM)**: HA 33 -** L. Carrowmore, Bangor Erris, Derreens, north shore (F833299), 28 July 2008, EPA (DAM)**: HA 34 -** L. Conn, Illannaglashy (G207070) and L. Cullin, Drummin Wood, north shore (G235046), 20 August 2008, EPA (DAM). L. Lannagh, Castlebar, west shore (M109883), 21 August 2008, EPA (DAM). L. Levally, Massbrook (G146043), 22 April, 23 July, 25 June and 23 September 2008, EPA (DAM). R. Moy, Bellanacurra (G403047), 29 August 1982 (Hayes, 1991). **MONAGHAN: HA 36 -** L. Annaghmakerrig, Newbliss (H585205), 27 June 2006, EPA (DAM). L. Summerhill, 1, Clones (H490279), 26 April 2007, EPA (DAM)**: HA 6 -** L. Naglack, Carrickmacross (H853026), 11 June 2007, EPA (DAM). **OFFALY: HA 25 -** R. Little Brosna, Milltown Park (S068907) and

Brosna Bridge (S077938), 2 September 1982 (Hayes, 1991). **ROSCOMMON: HA 26 -** L. Meelagh, Keadew (G901117), 11 June and 12 July 2008, EPA (DAM). L. Cavetown, Boyle (M832974), 9 April and 17 July 2008, EPA (DAM). L. Key, Boyle (G838057), 6 August 2008 and L. Key, Hogs Island Pier (G825054), 9 September 2008, EPA (DAM). L. O'Flynn, Ballinlough, south east shore (M585786), 9 September 2008, EPA (DAM). L. Ree, Yew Point, Barley Harbour (N018485), 25 April 2007, EPA (DAM). **SLIGO: HA 26 -** L. Gara: Monastredan (M708996), 28 April 2008; L. Gara, Cuppanagh, Cloonlough (G714013), 5 and 30 September 2008, EPA (DAM)**: HA 34 -** L. Talt, Gleneask (G402151), 18 June and 24 September 2008, EPA (DAM)**: HA 35 -** L. Arrow, Ballinafad (G789123), 9 September 2008, EPA (DAM). L. Kilsallagh (Reservoir), Kilsallagh (G734393), 23 July and 8 September 2008, EPA (DAM). L. Templehouse, Ballymote (G615171), 30 April and (G619182), 9 September 2008, EPA (DAM). L. Gill, Sligo (G782350), 20 August 2008, EPA (DAM). **TIPPERARY: HA 15 -** R. Nore, Nore Bridge (S133816), 27 August 1981 (Hayes, 1991). **WESTMEATH: HA 26 -** L. Killinure, Wineport (N067458) also Ballaghkeernan Bay (N069445), 24 April and 26 June 2007, EPA (DAM). L. Ree, Coosan (N050450), 15 August 2007, EPA (DAM). **WICKLOW: HA 10 -** L. Tay, Luggala (O163008), 2 September 2009, EPA (DAM). Vartry Reservoir, north basin, Roundwood (O205050), 2 July and 3 September 2009, EPA (DAM)**: HA 9 -** Pollaphuca Reservoir, Ballymore Eustace (N995080), 30 April, 22 June and 3 September 2009, EPA (DAM).

***Stempellinella brevis* (Edwards, 1929)**

CAVAN: HA 36 - L. Garty, Arvagh (N278978), 12 April 2007, EPA (DAM). **CLARE: HA 25 -** L. Graney, Doorus, west shore (R556930), 10 April and 6 July 2006, EPA (DAM)**: HA 27 -** L. Dromore, Ruan, Corrofin, west basin (R345858), 11 April and 8 June 2006, EPA (DAM). Gortglass L., Killadysert, south shore (R223596), 2 April and 11 June 2009, EPA (DAM)**: HA 28 -** L. Keagh, Milltown Malbay, north shore (R100813), 15 September 2009, EPA (DAM) and 19 September 2012, DAM/WM (DAM). L. Lickeen, Kilfenora, mid lake (R175909), 3 May 2006 and west shore (R164908), 15 September 2009, EPA (DAM). R. Annageeragh, Moyglass Bridge, d/s L. Doo (R078725), 30 July 1982 (Hayes, 1991). **CORK: HA 19 -** Iniscarra Reservoir, Coachford (W477717), 2 April 2008, EPA (DAM). L. Allua, Ballingeary (W180652), 4 April 2008, EPA (DAM)**: HA 20 -** R. Ilen, Drimoleague (W098454), Madore (W103419) and Hollybrook (W117363), 24 August 1983 (Hayes, 1991)**: HA 21 -** L. Glenbeg, Ardgroom (V706530), 15 April and 3 September 2008, EPA (DAM). **DONEGAL: HA 1 -** L. Mourne, Ballybofey (H069900), 20 April and 8 September 2009, EPA (DAM)**: HA 36 -** L. Golagh, Ballyshannon (G965655), 7 July 2009, EPA (DAM). L. Unshin, Ballyshannon (G946634), 28 March 2004 (PHL). L. Unshin, Ballyshannon (G951637), 15 April, 8 June, 6

July and, 8 September 2009, EPA (DAM)**: HA 37 -** L. Eske, Donegal (G973844), 17 April 2009, EPA (DAM). R. Oily, Claggen (G751803), 8 August and R. Stragar, Duninkeely (G727792), 10 August 1982 (Hayes, 1991)**: HA 38 -** L. Mulladerg, The Rosses (B775199), 19 July 2000 (Langton, 2002). L. Dunglow, The Rosses, west shore (B782119), 31 March, 17 June and 5 August 2009, EPA (DAM). R. Gweedore, outflow from L. Anure, Crolly (B827184), 19 July 2000 (Langton, 2002). L. Nasnahida, Doocharry, Dunglow (B852076), 6 August 2009, EPA (DAM). L. Nacung Upper, Dunlewy (B904191) and R. Devlin, Dunlewy (B927190), 19 July 2000 (Langton, 2002). R. Owenveagh, Glenveagh Cottage, GNP (B990178), 30 July 1985, L. Veagh, north east shore (C038233), 24 July 1985 and stream near Administration Centre, GNP (C041227), 14 May 1986, all LJH (Heneghan, 1986); L. Veagh, north east shore near Visitor Centre (C033223), 19 July 2000 (Langton, 2002) and boathouse near Castle, Glenveagh (C022211), 21 July 2009, EPA (DAM). R. Owencarrow, d/s road bridge, Glenveagh (C043235), 18 July 2000 (Langton, 2002). Small stream near L. Nadurcan, Glenveagh (C055225), 24 July 1985 (Heneghan, 1986). L. Glen, Glen (C105292), 16 June 2009, EPA (DAM). L. Greenan, Loughsalt, Kilmacrennan (C117262), 29 April 2009, EPA (DAM). L. Salt, Milford (C121256), 16 June and 15 July 2009, EPA (DAM). L. Reelan, Reelan (C131272), 6 June and 15 July 2009, EPA (DAM). L. Keel, Kilmacrennan (C158243), 16 July 2009, EPA (DAM). L. Fallaneas, Kindrum (C173424), 30 April 2009, EPA (DAM). L. Kiltoris, Dawros, Ardara (G675976), 30 March 2009, EPA (DAM)**: HA 39 -** L. Gartan, Church Hill, mid lake (C055159), 9 September 2009, EPA (DAM). L. Akibbon, Church Hill (C068184), 23 April 2009, EPA (DAM). R. Leannan, Drumaboden (C165218), 12 August 1982 and R. Crana, Buncrana (C347328), 15 August 1982 (Hayes, 1991). **GALWAY: HA 25 -** R. Woodford, Woodford (M732000), 24 May 2003 (PHL)**: HA 30 -** L. Anillaun, Maam Cross (L980470), 19 April and 5 September 2007, EPA (DAM). L. Ballyquirke, Moycullen (M232317), 14 September 2007, EPA (DAM). L. Beaghcauneen, Ballinaboy (L679470), 18 July 2007, EPA (DAM). L. Bofin, Maam Cross (M034441), 18 April and 31 July 2007, EPA (DAM). L. Maumwee, Maam Cross (L977485), 12 July 2007 and 19 April 2009, EPA (DAM). L. Ross, Moycullen (M188365), 5 September 2007, EPA (DAM). Stream at layby on road N59, Moycullen (M204326), 25 May 2003 (PHL)**: HA 31 -** L. Ahalia, Gortmore, north east shore (L971402), 22 April and 23 September 2009, EPA (DAM). L. Aunwillan, Carraroe (L936255), 16 April, 25 July and 13 September 2007, EPA (DAM). L. Ballynahinch, Ballynahinch (L777478), 17 April, 23 July and 13 September 2007, EPA (DAM). L. Ballynakill, Gorumna (L867236), 19 April and 15 May 2006, EPA (DAM). L. Derryclare, Recess (L825485), 17 April 2007, EPA (DAM). L. Illauntrasna, Glentrasna, Garomna (L888254), 25 July and 12 September 2007, EPA (DAM). L. Loughanaure, Kilkieran (L828320), 12 September 2007, EPA (DAM). L. Nahasleam, Maam Cross (L972440), 16 May and 12 September 2006 also 19 April, 1 August and 13 September 2007, EPA (DAM). L.

Shindilla, Derreennacreeva, south shore (L958460), 16 May and 12 September 2006 also 19 April 2007, EPA (DAM)**: HA 32 -** L. Enask, Beaghcauneen (L662468), 4 April and 17 September 2007, EPA (DAM). L. Fadda, Beaghcauneen (L668455), 4 April, 17 July and 11 September 2007, EPA (DAM). L. Tully, Tully Cross (L695618), 3 April 2007, EPA (DAM). R. Dawros, Tullywee Bridge, Letterfrack (L730586), 18 August 1981, BPH (Hayes, 1991; Murray, 2005). L. Pollacappul, Kylemore (L754582), 2 April, 9 July and 10 September 2007, EPA (DAM). L. Kylemore, Kylemore (L771582), 2 April 2007, EPA (DAM). **KERRY: HA 21 -** L. Brin, Derreeny (V780775), 16 April, 13 July and 10 September 2008, EPA (DAM). L. Cloonaghlin, Waterville (V611708), 8 May and 10 September 2008, EPA (DAM). Eagles L., Knocknagantee (V674728) and Erik L., Derrygarriff (V881777), 25 April 2005, JRB/MC (DAM). L. Inchiquin, Kenmare (V837629), 15 April, 1 and 17 September 2008, EPA (DAM). L. Namona, Waterville (V596711), 10 September 2008, EPA (DAM). R. Inny, Scarriff Bridge (V504696), 24 August 1983 (Hayes, 1991)**: HA 22 -** L. Acoose, Slievanore, Killorglin (V755854), 9 July 2008, EPA (DAM). L. Caragh, Killorglin (V719904), 20 June and 15 July 2008, EPA (DAM). L. Cummernamuck, Killorglin (V745897), 18 July and 9 September 2008, EPA (DAM). L. Guitane, Crohane, Killarney (W025846), 16 May 2005, also 21 April and 9 September 2008, EPA (DAM). Killarney (V9589), 1928 (Edwards, 1929). L. Leane, Killarney (V931886), 22 April and 18 September 2008, EPA (DAM). Muckross Lake, Muckross, Killarney (V950853), 24 April and 18 September 2008, EPA (DAM). R. Annascaul, Annascaul (Q593017), 2 July 1981 (Hayes, 1991). R. Clydagh, u/s Clydagh Bridge (W114826), March to October 1978 (Ashe, 1982). R. Flesk: d/s Clydagh/Loo confluence (W084814), Flesk Bridge (W034876) and d/s Whitebridge (V987900), March to October 1978, all PJA (Ashe, 1982). R. Loo, Aughnanus Bridge, Crohane (W048790), 25 March 1979 (Ashe, 1982). Upper Lake, Killarney (V909821), 24 April and 9 September 2008, EPA (DAM)**: HA 23 -** L. Cam, Castlegregory (Q597079), 29 August 2008, EPA (DAM). L. Gill, Castlegregory (Q603139), 29 April 2008, EPA (DAM). **LEITRIM: HA 35 -** L. Glencar, Glencar (G748434), 1 April 2008, EPA (DAM). **MAYO: HA 30 -** L. Aille, Aille, Westport (M071807), 22 April and 18 September 2008, EPA (DAM)**: HA 32 -** L. Doo, Delphi: west shore (L835681), 9 May and 16 August 2006 also 3 April 2008, EPA (DAM) also west shore (L833680), 25 August and north east shore (L834686), 22 September 2008, EPA (DAM). L. Glencullin, Delphi: west shore (L818697), 3 April 2008; north west shore (L815699), 26 June 2008; south west shore (L819696), 25 August 2008 and north shore (L818711), 22 September 2008, EPA (DAM). R. Bunowen, u/s of bridge, Louisburg (L807807) and d/s of Laghta Bridge, Laghta Eighter (L852751), 30 September 2004, DAM/WM (DAM). L. Fin, Delphi (L841657), 12 July and 11 September 2006, EPA (DAM). L. Feeagh, Newport (L975983), 24 July and 17 September 2008, EPA (DAM). R. Owenwee, u/s Aghamore Bridge, Westport (L972817), 8 May 2003 (Murray,

2005) and 5 August 2004, DAM/WM (DAM). L. Moher, Liscarney, Westport (L977766), 21 April 2008, EPA (DAM). L. Knappabeg, Westport (M010803), 21 April and 24 June 2008, EPA (DAM)**: HA 33 -** L. Acorrymore, Achill Island (F578057), 29 September 2004, DAM/WM (DAM) also 16 July, 17 June and 17 September 2008, EPA (DAM). R. Glenlassra, Belderg (G023407), 19 August 1983 (Hayes, 1991)**: HA 34 -** L. Alone, Ox Mountains (G367157), 5 August 2005, JRB/MC (DAM). L. Levally, Massbrook (G146043), 23 July 2008, EPA (DAM)**: Clare Island -** R. Doree, Lecarrow (L692860), 5 June 2002 and Pollabrandy stream, Knocknaveen (L704858), 4 June 2002 (Murray and Murray, 2003). **ROSCOMMON: HA 26 -** L. Cavetown, Boyle (M832974), 11 June 2008, EPA (DAM). L. Key, Hogs Island Pier, Boyle (G825054), 9 September 2008, EPA (DAM). **SLIGO: HA 35 -** L. Easky, Ox Mountain (G446230), 18 June and 25 September 2008, EPA (DAM). **WEXFORD: HA 11 -** R. Ounvarra, Ballycanew (T153519), 6 May 2006, DAM/WM (DAM)**: HA 13 -** R Tintern, Tintern (S794099), 13 June 2012 (DAM). **WICKLOW: HA 10 -** R. Glencullen, Knocksink (O218180), 18 May 1987 (Morgan, 1989). Upper Glendalough Lake, Laragh, WMNP (T100960), 29 July 2009, EPA (DAM). R. Glendasan, Laragh, WMNP (T100982), 24 June 1996 (DAM). R. Avonbeg, Drumgoft Bridge, Glenmalure (T105905), 4 August 1983 and Meetings Bridge (T188831), 11 July 1997 (Curran, 2001). R. Avonmore, Castlehoward (T190833), 4 August 1983 (Hayes, 1991) and Lion Arch Bridge (T194833), 11 July and 14 August 1997 (Curran, 2001). R. Avoca, Whitebridge, Tigroney (T198821), July 1997 (Curran, 2001) and Avoca Village (T203802), July 1997, FC (Curran and Murray, 2001).

***Stempellinella edwardsi* Spies and Sæther, 2004**

CAVAN: HA 36 - Glasshouse, Killashandra (H270060), 7 June, 3 July and 18 September 2008, EPA (DAM). L. Annagh, Butler's Bridge (H394125), 5 June, 3 July and 18 September 2007, EPA (DAM). L. Ardan, Milltown, Belturbet (H354124), 6 June 2007, EPA (DAM). L. Atrain, Gartbrattan (H364051), 4 July 2007, EPA (DAM). L. Cuillaghan, Ballyconnell (H303183), 13 April, 6 June, 25 July and 13 September 2007, EPA (DAM). L. Derrybrick, Milltown, Belturbet (H346117), 5 June 2007, EPA (DAM). L. Garty, Arvagh (N278978), 18 July 2007, EPA (DAM). L. Gowna, north basin, Arnagahan (N285920), 24 July and 18 September 2007, EPA (DAM). L. Oughter, Killashandra (H349051), 17 July 2007, EPA (DAM)**: HA 7 -** L. Drumkeery, Baileborough (H663002), 1 May, 12 June and 16 July 2007, EPA (DAM). L. Nadreegeal, Ballyjamesduff (N537933), 18 July 2007, EPA (DAM). L. Acurry, Baileborough (N584990), 17 September 2007, EPA (DAM). L. Ramor, Virginia (N612860), 16 April 2007, EPA (DAM). **CLARE: HA 25 -** L. Graney, Doorus, west shore (R556930), 6 July, 3 August and 6 September 2006 also Doorus (R557924), 11 August 2009, EPA (DAM). L. Derg, Mountshannon (R718861), 18 September 2009, EPA (DAM). L. Graney, Flagmount, east shore

(R563932), 16 September 2009, EPA (DAM). L. Alewnaghta, Whitegate, west shore (R758908), 20 April, 17 June and 16 July 2009 also north east shore (R764914), 23 September 2009, EPA (DAM). L. Bridget, Derrymore, Badyke, east shore (R558797), 21 April, 12 June and 29 July 2009, EPA (DAM)**: HA 27 -** L. Bunny, Aughrim, south east shore (R377965), 14 September 2009, EPA (DAM). Castle Lake, Kilmurry, Sixmilebridge, south west shore (R481688), 12 June and west shore (R482691), 17 September 2009, EPA (DAM). L. Cullaun, Corrofin, mid east shore (R317905), 3 May, 4 July and 14 September 2009, EPA (DAM). L. Dromore, Ruan, Corrofin, west basin (R345858), 8 April 2009, EPA (DAM). L. Inchicronan, Crusheen, west basin (R391860), 8 April and west shore (R266896), 15 July 2009, EPA (DAM). L. Muckanagh, Tubber, Corrofin, south east shore (R370922), 14 September 2009, EPA (DAM). L. Cullaunyheeda, Kilkishen (R492748), 17 September 2009, EPA (DAM)**: HA 28 -** L. Lickeen, Kilfenora, west shore (R168909), 21 July 2009, EPA (DAM), mid lake (R175909), 6 June and 4 July 2006 also west shore (R163909), 11 June 2009, EPA (DAM). L. Naminna, Boolteagh, mid lake (R180710), 15 September 2009, EPA (DAM). **CORK: HA 19 -** Carrigdroihid Reservoir, Ashton (W360703), 3 April 2008, EPA (DAM). Iniscarra Reservoir, Coachford (W477717), 16 June, 28 and 31 July, 16 September 2008, EPA (DAM). L. Allua, Ballingeary (W180652), 17 June, 20 August and 16 September 2008, EPA (DAM)**: HA 20 -** L. Ballin, Leap (W199389), 17 June 2008, EPA (DAM). L. Curraghalicky, Drinagh, Dunmanway (W234046), 9 April, 17 June, 12 August and 11 September 2008, EPA (DAM)**: HA 21 -** L. Bofinna, Bantry (W041488), 11 September 2008, EPA (DAM). **DONEGAL: HA 1 -** L. Finn, Fintown, Glenties (B911018), 9 June 2009, EPA (DAM)**: HA 36 -** L. Tullynasiddagh, Ballyshannon (G983656), 7 July and 7 September 2009, EPA (DAM). L. Unshin, Ballyshannon (G951637), 8 June 2009, EPA (DAM)**: HA 37 -** L. Eske, Donegal (G973844), 8 June and 14 July 2009, EPA (DAM)**: HA 38 -** L. Mulladerg, The Rosses (B775199), 19 July 2000 (Langton, 2002). L. Dunglow, The Rosses, west shore (B782119), 5 August 2009; L. Anure, Loughanure, east shore (B818162), 17 June, 12 August and 7 September 2009; L. Keel, Crolly (B848162), 13 August 2009; L. Veagh, boathouse near Castle, GNP (C022211), 9 September 2009; L. Glen, Glen (C105292), 16 June 2009; L. Kindrum, Kindrum, Fanad (C186430), 16 June, 22 July and 9 September 2009;. L. Kinny, Fanad (C204442), 6 June and 9 September 2009; L. Shannagh, Magheradrumman, Fanad Penninsula (C216450), 16 June, 21 July and 9 September 2009 and L. Kiltoris, Dawros, Ardara (G675976), 17 June 2009, all EPA (DAM)**: HA 39 -** L. Akibbon, Church Hill (C068184), 11 June, 22 July and 9 September 2009 and L. Fern, Millford (C180233), 16 June and 23 July 2009, EPA (DAM)**: HA 40 -** L. Fad, Coolmany (C398428), 15 June 2009, EPA (DAM). **DUBLIN: HA 9 -** Upper Reservoir, Bohernabreena (O095219), 20 May 1947, CFH (DAM). **FERMANAGH: HA 36 -** L. Macnean, upper, Belcoo (H042403) and L. Macnean, lower, Belcoo (H085384), 29 June 2000 (Langton, 2002). **GALWAY: HA 30 -** L.

Anillaun, Maam Cross (L980470), 1 August 2007; L. Ballyquirke, Moycullen (M232317), 13 April, 14 June, 8 August and 14 September 2007; L. Bofin, Maam Cross (M034441), 7 June, 31 July and 17 September 2007; L. Corrib Upper, Oughterard (M138486), 14 September 2007 and L. Ross, Moycullen (M188365), 8 August and 5 September 2007, all EPA (DAM)**: HA 31 -** L. Anaserd, Ballyconneely (L605443), 16 May 2006, 17 July and 11 September 2007; L. Aunwillan, Carraroe (L936255), 7 June, 25 July and 13 September 2007; L. Ballynahinch, Ballynahinch (L777478), 6 June, 23 July and 13 September 2007; L. Ballynakill, Gorumna (L867236), 15 May, 8 August and 19 September 2006; L. Derryclare, Recess (L825485), 6 June 2007 and L. Nahasleam, Maam Cross (L972440), 19 April and 1 August 2007, all EPA (DAM)**: HA 32 -** L. Ballynakill, Cleggan (L639581), 5 June and 11 September 2007, L. Tully, Tully Cross (L695618), 19 July 2007 and L. Pollacappul, Kylemore (L754582), 5 June and 10 September 2007, EPA (DAM). **KERRY: HA 21 -** L. Brin, Derreeny (V780775), 18 June, 13 July and 10 September 2008, L. Currane, Waterville (V535664), 22 July and 10 September 2008 and L. Namona, Waterville (V596711), 23 July and 10 September 2008, all EPA (DAM)**: HA 22 -** L. Acoose, Slievanore, Killorglin (V755854), 19 June 2008, EPA (DAM). L. Guitane, Crohane, Killarney (W025846), 26 June and 8 July 2008, EPA (DAM). L. Leane, Killarney, Killarney (V931886), 10 July and 18 September 2008, EPA (DAM). Muckross Lake, Muckross, Killarney (V950853), 16 July 2008, EPA (DAM). R. Clydagh, u/s Clydagh Bridge (W114826), 16 May 1978, PJA (Murray, 2005). Upper Lake, Killarney (V909821), 24 June and 17 July 2008, EPA (DAM). **LEITRIM: HA 26 -** L. Acres, Drumshanbo (G968099), 11 June 2008, EPA (DAM). L. Boderg, Derrycarne (N013915), 29 July and 10 September 2008 also L. Boderg, Dromod (N020910), 25 June 2008, EPA (DAM). L. Bofin, Rinnafarna, Dromod (N036891), 29 July 2008, EPA (DAM); L. Bofin, Dromod (N049894), 24 June 2008, EPA (DAM). L. Rinn, Mohill (N095943), 25 June, 18 July and 10 September 2008, EPA (DAM)**: HA 35 -** L. Annary, Dromahair (G817338), 23 July 2008, EPA (DAM). L. Belhavel, Killarga, Dromahair (G878288), 10 June and 26 August 2008, EPA (DAM). L. Glenade, Glenade, Manorhamilton (G831457), 10 June and 22 July 2008, EPA (DAM). L. Glencar, Glencar (G757435), 10 June and 2 September 2008, EPA (DAM)**: HA 36 -** L. Drumlaheen, Feenagh, Ballinamore (H091071), 18 September 2007, EPA (DAM). **LIMERICK: HA 24 -** L. Gur, Holycross (R646413), 13 June 2009, EPA (DAM). **LONGFORD: HA 26 -** L. Forbes, Cloonard, Newtownforbes (N084821), 25 June, 27 August and 10 September 2008, EPA (DAM). L. Ree, Bleanavoher (N069445), 25 April and 10 September 2007, EPA (DAM). **MAYO: HA 26 -** L. Nanoge, Urlaur (M506903), 18 June 2008, EPA (DAM)**: HA 30 -** L. Aille, Aille, Westport (M071807), 22 April, 24 June, 8 August and 18 September 2008 and L. Mask, Toormakeady (M113702), 22 September 2008, EPA (DAM)**: HA 32 -** L. Doo, Delphi, west shore (L835681), 12 July 2006 and west shore (L833680), 25 August 2008, L. Glencullin,

Delphi, south west shore (L819696), 25 August 2008, L. Fin, Delphi (L841657), 28 June 2006, L. Moher, Liscarney, Westport (L977766), 24 June and 21 July 2008 and L. Knappabeg, Westport (M010803), 21 April, 24 June, 23 July and 18 September 2008, all EPA (DAM)**: HA 33 -** L. Carrowmore, Bangor Erris, Cloontakilla Bay (F851253), 17 June 2008; Derreens, north shore (F833299), 28 July 2008 and Knocknascollop, west shore (F830282), 17 September 2008, all EPA (DAM)**: HA 34 -** L. Alone, Ox Mountains (G367157), 5 August 2005, JRB/MC (DAM). L. Conn, Illannaglashy (G207070), 20 August 2008, L. Lannagh, Castlebar (M137899), 26 September 2008, L. Levally, Massbrook (G146043), 25 June and 23 July 2008 and L. More, Ballynagoraher (G115044), 8 May, 29 June and 12 September 2006, all EPA (DAM). **MONAGHAN: HA 36 -** L. Annaghmakerrig, Newbliss (H585205), 22 May and 27 June 2006 and L. Drumlona, Rockcorry (H636176), 5 June and 11 July 2007, EPA (DAM). **ROSCOMMON: HA 26 -** L. Meelagh, Keadew (G901117), 11 June, 12 July and 9 September 2008, L. Cavetown, Boyle (M832974), 17 July 2008, L. Key, Boyle, wharf in Forest Park, Boyle (G848040), 11 June and Boyle (G838057), 6 August 2008, L. O'Flynn, Ballinlough, south east shore (M585786), 9 April, 12 June and 9 September 2008 and L. Ree, Yew Point, Barley Harbour (N018485), 10 and 11 September 2007, EPA (DAM). **SLIGO: HA 26 -** L. Gara, Monastredan (M708996), 28 April 2008 also L. Gara, Cuppanagh, Cloonlough (G714013), 5 and 30 September 2008, EPA (DAM)**: HA 34 -** L. Talt, Gleneask (G402151), 24 September 2008, EPA (DAM)**: HA 35 -** L. Arrow, Ballinafad (G789123), 29 April and 9 September 2008, L. Kilsallagh (Reservoir), Kilsallagh (G734393), 23 July and 8 September 2008, L. Templehouse, Ballymote (G615171), 30 April 2008 also (G619182), 11 June and 9 September 2008 and L. Gill, Sligo (G782350), 11 June and 20 August 2008, all EPA (DAM). **WESTMEATH: HA 26 -** L. Killinure, Wineport (N067458), 26 June and 11 September 2007 and Ballaghkeernan Bay (N069445), 24 April, 26 June and 11 September 2007 also L. Coosan, Athlone (N055449), 24 April and 11 September 2007, all EPA (DAM)**: HA 7 -** L. Lene (N510685), 19 September 2006, EPA (DAM). **WICKLOW: HA 10 -** Vartry Reservoir, north basin, Roundwood (O205050), 2 July and 3 September 2009, and Upper Glendalough Lake, Laragh, WMNP (T100960), 2 July 2009 and 3 September 2010, EPA (DAM)**: HA 9 -** Pollaphuca Reservoir, Ballymore Eustace (N995080), 30 April and 3 September 2009, EPA (DAM).

***Stempellinella reissi* Casas and Vilchez-Quero, 1991**

ANTRIM: HA 4 - Altnahinch Reservoir Dam, Ballymoney (D119234), 22 August 2001 (PHL). **DONEGAL: HA 36 -** L. Golagh, Ballyshannon (G965655), 29 June 2000 (Langton, 2002). L. Avehy, Belalt (H043664), 27 April 2002 (PHL)**: HA 37 -** L. Shinvagh, Carricode (H005675), 27 April 2002 (PHL)**: HA 38 -** L. Mulladerg, The Rosses (B775199), 19 July 2000 (PHL)**: HA**

39 - L. Fern, Milford (C182247), 18 August 2011 (PHL). **FERMANAGH: HA 36 -** L. Erne, Lower: Brocagh Point, Boa Island (H108626), 17 August 2011 and Black Bay (H072639), 27 April 2002 (PHL). L. Macnean, upper, Belcoo (H042403), 29 June 2000 (Langton, 2002).

***Tanytarsus aberrans* Lindeberg, 1970**
CORK: HA 19 - Iniscarra Reservoir, Coachford (W477717), 2 April 2008, EPA (DAM). **TIPPERARY: HA 18 -** L. Curra, Galtymore Mountain (R867242), 10 August 2005, JRB (Murray, 2005; Murray and Baars, 2006).

***Tanytarsus anderseni* Reiss and Fittkau, 1971**
ANTRIM: HA 5 - L. Mourne, Carrickfergus (J415924), 4 May 1999 (Langton, 2005).

***Tanytarsus bathophilus* Kieffer, 1911**
ANTRIM: HA 3 - L. Neagh, Antrim Bay (J135866) and Churchtown Point (J056852), 22 August 2001 (PHL). **DERRY: HA 1 -** Upper Reservoir, Creggan, Derry (C417173), 26 April, 10 and 18 May 2001 also Lower Reservoir, Creggan, Derry (C422174), 26 April and 10 May 2001 (PHL)**: HA 3 -** L. Neagh (H9080), no date (McLarnon and Carter, 2000); L. Neagh, Ballyronan (H948862), 1988 (Tokeshi, 1990) also 4 July 2000 (Langton, 2002) and 22 August 2001 and 31 May 2011 (PHL). **GALWAY: HA 25 -** L. Derg, Woodford (M794964), 24 May 2003 (PHL). **KERRY: HA 21 -** L. Derriana, north shore (V605735), 6 August 1973, JPOC (DAM)**: HA 22 -** L. Leane, Killarney, Brickeen (V937850), 3 July 1973, DAM (Douglas and Murray, 1980). **LEITRIM: HA 35 -** L. Lackagh, Boleybrack (G920320), 3 August 2005, JRB (DAM). **MEATH: HA 7 -** R. Boyne, Ardsallagh, at St Bridget's Well (N897635), 7 July 1988 (Murray, 1988). **ROSCOMMON: HA 26 -** R. Suck, Athleague (M825758), 14 August 1981 (Hayes, 1991).

***Tanytarsus brundini* Lindeberg, 1963**
ANTRIM: HA 3 - R. Clogh, Clough Mills (D105109) and Glenravel Water, Gartnageeragh, Newtown Crommelin (D147154), 2 July 2000 (Langton, 2002). L. Neagh: Antrim Bay (J135866), 4 May 1999 and 22 August 2001 (PHL); L. Neagh, Churchtown Point (J056852), 13 October 2000 (Langton, 2002) and 22 August 2001 (PHL). Kells R., Shank Bridge, Kells (J126982), 20 June 2000 (Langton, 2002)**: HA 4 -** R. Bush: Seneirl Bridge (C943362), 16 July 2000; Conogher Bridge (C963305), 10 September 2000; Stranocum (D009307), 2 July 2000; Ballyhoe Bridge (D077294) and pool at Ballyhoe Bridge (D077294), 2 July 2000, all PHL (Langton, 2002). R. Glendun, Drumfresky, Cushendun (D193308) and R. Glenariff Inver-Glenarif, Cushendall (D215205), 2 July 2000 (Langton, 2002). Altnahinch Reservoir,

Ballymoney (D119234), 22 August 2001 (PHL). **CAVAN: HA 36 -** L. Garty, Arvagh (N278978), 7 June 2007, EPA (DAM). R. Erne: Kilsarin (N362910), 27 May 1982; Drumbarry (N462951), 17 August 1982; Dingin's Bridge (N331948) and Carrigan (N391935), 27 August 1982, all BPH (Hayes, 1991). **CLARE: HA 27 -** L. Bunny, Aughrim, south east shore (R377965), 6 April, 2 May, 7 June and 1 August 2006 (EPA). L. Cullaun, Corrofin, mid east shore (R317905), 7 June 2006, EPA (PHL). **CORK: HA 18 -** R. Blackwater: Killavullen (W648998), 31 August 1981; Ballymacquirk Bridge, Banteer (W382989), Roskeen Bridge, Banteer (W444988) and Lombardstown (W463968), 1 September 1981; Knocknagree (W159975), Duncannon (W180931), Shamrock Bridge, Millstreet (W221935), Charles Bridge, Millstreet (W248943) and Keale Bridge, Millstreet (W294936), 2 September 1981, all BPH (Hayes, 1991)**: HA 20 -** R. Ilen, Drimoleague (W098454), Madore (W103419) and Hollybrook (W117363) also R. Ovane, Pierson's Bridge (W023454), all 24 August 1983, all BPH (Hayes, 1991). **DERRY: HA 1 -** Upper Reservoir, Creggan, Derry (C417173), 18 May 2001 and 17 May 2002 (PHL); Lower Reservoir, Creggan, Derry (C422174), 26 April 2001 (PHL)**: HA 2 -** R. Roe, Largy Bridge, Limavaddy (C681202), 14 July 2000 (PHL)**: HA 3 -** R. Bann, Coleraine (C854304): 12 to 13 October 1999 (PHL); 25 May to 8 October 2000; 26 April, 16 and 30 June 2001; 18 and 25 April, 2 May 2010, all PHL (PHL). Paddling pool, Kylebeg, Coleraine (C856304), 4 May 2008 (PHL). L. Neagh (H9080), no date (McLarnon and Carter, 2000); L. Neagh, Ballyronan (H948862), 1988 (Tokeshi, 1990) also 27 April and 4 May 1999 (PHL) and 3 and 10 May 2000 (Langton, 2002), 7 May 2001, 15 May 2002, 22 and 31 May 2011 (PHL). R. Moyola, New Bridge, Magherafelt (H955905), 4 July 2000 (Langton, 2002). L. Fea, Draperstown (H760868), 15 May 2002 (PHL). **DONEGAL: HA 1 -** R. Deele, Legland, Raphoe (C136028), 19 July 2000 (Langton, 2002)**: HA 36 -** L. Golagh, Ballyshannon (G965655), 21 April 2009, EPA (DAM)**: HA 36 -** L. Avehy, Belalt (H043664), 27 April 2002 (PHL)**: HA 37 -** R. Oily, Claggen (G751803), 8 August 1982 (Hayes, 1991). R. Eany, d/s Eanybeg confluence (G842815), R. Eanymore, Letterbara Bridge (G883825) and Drumagraa Bridge (G863822) and R. Stragar, Duninkeely (G727792), all 10 August 1982 all BPH (Hayes, 1991)**: HA 38 -** L. Dunlewy, Dunlewy (B926193), 19 July 2000 (Langton, 2002). R. Devlin, Dunlewy (B927190), 19 July 2000 (Langton, 2002). L. Veagh, north east shore near Visitor Centre, Glenveagh (C033223), 19 July 2000 (Langton, 2002) and foam along north east shore, Glenveagh (C039231), 22 May 1986 (Heneghan, 1986). R. Ray, Carrowcanon (B995325), 12 August 1982 (Hayes, 1991)**: HA 39 -** L. Akibbon, Church Hill (C068184), 23 April 2009, EPA (DAM). R. Glashagh, Drumbologe, Letterkenny (C096153) and R. Swilly, Newmills, Letterkenny (C125092), 18 July 2000 (Langton, 2002). R. Leannan, Drumaboden (C165218), 12 August 1982, R. Leannan, Claragh (C197210), 13 August 1982, R. Crana, Buncrana (C347328) and Ballymagan (C379344), 15 August 1982, all BPH (Hayes, 1991)**: HA 40 -** L. Naminn,

Cloonmany (C400423), 18 August 2011 (PHL). R. Keenagh, Hugh Roe's Bridge, Umgall (C454543), 16 August 1982 (Hayes, 1991). **FERMANAGH: HA 35 -** Glen R., Garrison (G943522), 29 June 2000 (Langton, 2002)**: HA 36 -** L. Erne Upper (H362242), 27 June 2000, L. Erne, Lower, Brocagh Point, Boa Island (H108626), 29 June 2000, all PHL (Langton, 2002). L. Erne Upper, Crom Castle slipway (H357244), 27 June 2000 and L. Erne Lower, Black Bay (H072639), 27 April 2002 (PHL). L. Macnean, upper, Belcoo (H042403), 29 June 2000 (Langton, 2002). **GALWAY: HA 25 -** L. Derg, Woodford (M794964), 24 May 2003 (PHL)**: HA 26 -** R. Shiven, d/s Ballinaglass (M788494), 29 July 1981 (Hayes, 1991). R. Tirur, Newbridge (M492699), 16 August 1981 (Murray and Hayes, 1989)**: HA 30 -** L. Ross, Moycullen (M200363), 25 May 2003 (PHL). R. Cregg, Addergoole Bridge, Addergoole (M324350) and R. Grange, Grange Bridge (M482498), 16 August 1981 (Hayes, 1991). L. Adrehid, Oughterard (M055428), 25 May 2003 (PHL). L. Corrib lower, Moycullen (M271360), 28 August 2007, EPA (DAM)**: HA 31 -** R. Owentouey, Tullywee Bridge, Recess (L873474), 18 August 1981 (Hayes, 1991)**: HA 32 -** R. Owenglin, Clifden (L677506) and R. Dawros, Tullywee Bridge, Letterfrack (L730586), 18 August 1981 (Hayes, 1991). **KERRY: HA 18 -** R. Blackwater, Lacknastooka (R153008), 2 September 1981 (Hayes, 1991)**: HA 21 -** Erik L., Derrygarriff (V881777), 25 April 2005, JRB (DAM). R. Inny, Scarriff Bridge (V504696) and u/s Waterville (V525704), 24 August 1983 (Hayes, 1991)**: HA 22 -** R. Annascaul, Annascaul (Q593017), 2 July 1981 (Hayes, 1991). R. Caragh, Lower Brida Valley (V740805), Bealalaw Bridge (V715832) and Blackstones Bridge d/s R. Acoose confluence (V710864), 1975, all CD (Dowling *et al.*, 1981). R. Clydagh, u/s Clydagh Bridge (W114826) and Knocknagowan (W187837), May to August 1978 (Ashe, 1982). R. Flesk, d/s Whitebridge (V987900) and d/s New Bridge (V963885), May to August 1978 (Ashe, 1982). **KILDARE: HA 7 -** R. Boyne, Edenderry (N636346) and Ballyboggan (N639402), 9 July 1981 (Hayes, 1991). **KILKENNY: HA 15 -** R. Nore: Ballyragget (S445707), Norelands Bridge (S547436) and Brownsbarn Bridge (S618391), 28 August 1981 (Hayes, 1991). **LAOIS: HA 15 -** R. Nore: Kilbricken (S362898), Shanahoe Bridge (S407858) and u/s Durrow (S416787), 27 August 1981 (Hayes, 1991). **LIMERICK: HA 25 -** R. Mulkear, Cappamore (R775514), d/s Cappamore (R779504) and Dromkeen Bridge (R741480), 8 September 1981 (Hayes, 1991). **MAYO: HA 32 -** L. Doo, Delphi, north east shore (L834689), 6 June and 22 August 2002, DAM/WM (DAM). R. Altahoney, Newport (F950050), 21 July 1975, DAM (DAM). R. Owenwee, u/s Aghamore Bridge, Westport (L972817), 8 May 2003, DAM/WM (Hayes, 1991; Murray, 2005). R. Erriff, Ashleigh Falls (L895645), 18 August 1981 (Hayes, 1991)**: HA 33 -** L. Cross, Drumreagh, Belmullet, west shore (F645293), 9 April 2008, EPA (DAM). R. Owenmore, Bangor Bridge, Bangor Erris (F863228), 18 August 1983 and R. Glenlassra, Belderg (G023407), 19 August 1983 (Hayes, 1991)**: HA 34 -** R. Moy, Bellanacurra (G403047) and Ballylahan (M277992), 29

August 1982 also Cloongullaun (G348016), 30 August 1982 (Hayes, 1991). **MEATH: HA 7 -** R. Boyne, Scarrif Bridge (N733527) and Newtown, Trim (N815571), 9 July 1981 (Hayes, 1991); R. Boyne: Bellinter Bridge (N894626), 21 August 1988 (Murray, 1988); Ardsallagh, at St Bridget's Well (N897635), 27 September 1981 and 9 May 1982 (DAM) also 7 July 1988 (Murray, 1988); Kilcarn Bridge, Navan (N884657), 21 August 1988, New Bridge, Navan (N873679), 18 August 1988, Stackallen Bridge (N917713), 17 August 1988, all DAM (Murray, 1988); Stackallen Bridge (N917713) and Slane Bridge (N965737), 19 July 1989 (DAM). R. Blackwater, Poolboy Bridge, Navan (N871681), 18 August 1988 also Bloomsbury Bridge, Oristown (N793741) and Donaghpatrick (N819723), 19 August 1988, all DAM (Murray, 1988). **OFFALY: HA 25 -** R. Shannon, Shannon Bridge (M967254), 15 August 1981 (Hayes, 1991). R. Little Brosna, Ryan's Cross (S053882), Milltown Park (S068907), Brosna Bridge (S077938), Sharavogue (S056953), New Bridge (N016088) and Cloghan (M046209), all 2 September 1982, all BPH (Hayes, 1991). **ROSCOMMON: HA 26 -** R. Suck: Castlecoote (M809627), 16 July 1981 (Hayes, 1991) and 29 July 1982 (Hayes and Murray, 1989); Ballyforan (M817464) and Castlecoote (M809627), 16 July 1981; Ballynoe (M693757), Athleague (M825758) and Mount Talbot (M813531), 14 August 1981; Newtown (M844346), 15 August 1981, all BPH (Hayes, 1991). L. Key, Boyle (G838057), 14 April and 6 August 2008, EPA (DAM). **SLIGO: HA 34 -** R. Moy, Carrowneden (G530205), 30 August 1982 (Hayes, 1991); R. Moy, Cloonacool (G493168), Metal Bridge, Tobercurry (G464138) and Annagh (G466123), 30 August 1982, all BPH (Hayes, 1991)**: HA 35 -** R. Easky, Easky (G377378), 19 August 1983 (Hayes, 1991). **TIPPERARY: HA 15 -** R. Nore, Clonakenny (S116805), Nore Bridge (S133816) and Quaker Bridge (S211868), 27 August 1981 (Hayes, 1991). **WATERFORD: HA 18 -** R. Blackwater, Ballyduff (W964992) and Lismore (X047988), 31 August 1981 (Hayes, 1991). **WESTMEATH: HA 36 -** L. Bane, Collinstown (N550712), 26 April, 26 June and 22 August 2006 (EPA). **WEXFORD: HA 12 -** R. Slaney, Edernline Bridge (S977345), 29 July 1981, BPH (Hayes, 1991; Murray, 2005). **WICKLOW: HA 12 -** R. Slaney, Stratford Bridge (S895930), 28 July 1981 (Hayes, 1991)**: HA 9 -** Pollaphuca Reservoir, Blessington Bridge (N990144), 17 June 2000, DAM/WM (DAM).

***Tanytarsus buchonius* Reiss and Fittkau, 1971**

CLARE: HA 28 - quarry pond near L. Keagh, Milltown Malbay (R097809), 19 September 2012, DAM/WM (DAM). **CORK: HA 20 -** L. Coolkllure, Dunmanway (W177539), 11 August 2008, EPA (DAM). **DERRY: HA 3 -** Glenullin bog pool, Glenullin, Garvagh (C795132), 29 June 2008 (PHL). **DONEGAL: HA 37 -** Carn L., Blue Stack Mountains (G871886), 27 July 2005, JRB (DAM)**: HA 38 -** L. Nabuckan, Grogan More (B850184), 27 July 2005, JRB (DAM). Bog pool, Slieve Snaght, Bingorm Mountain, Glenveagh (B937152) and roadside near

castle, Glenveagh (C025213), 4 June 1986, LJH (DAM). **DUBLIN: HA 9 -** bog pool, Featherbed Mountain (O120190), July and August 1974, CD (Dowling, 1975; Dowling and Murray, 1981). **KERRY: HA 22 -** R. Caragh, Blackstones Bridge, d/s R. Acoose confluence (V710864) and at outflow from L. Caragh (V713924), 1975, CD (Dowling *et al*., 1981). **LEITRIM: HA 26 -** L. Natire (G966340), 3 August 2005, JRB/MC (DAM)**: HA 35 -** L. Lackagh, Boleybrack (G920320), 21 April 2005, JRB (DAM). **MAYO: HA 33 -** pool, Camport, Achill Island (L677982), 29 September 2004, DAM/WM (Murray, 2005). Bog pools, R. Glenamoy basin, Glenamoy (F896345), August 1973, CD (Dowling, 1975; Dowling and Murray, 1981)**: Clare Island -** stream at Fawnglass (L713854), 28 April 2000; roadside at Bayview Hotel (L716856), 20 August 2002 and pond east of Signal Tower (L658859), 21 August 2002 (all Murray and Murray, 2003). **WICKLOW: HA 10 -** Vartry Reservoir, south east shore, Roundwood (O214002), June 1983, HD (Murray, 2005).

***Tanytarsus chinyensis* Goetghebuer, 1934**

CLARE: HA 28 - L. Lickeen, Kilfenora, west shore (R168909), 6 April 2009, EPA (DAM). **DERRY: HA 1 -** Upper Reservoir, Creggan, Derry (C417173), 10 May 2001 (PHL). **DONEGAL: HA 38 -** L. Veagh, north east shore, Glenveagh (C034223), June 1986 (Heneghan, 1986; Morgan and Murray, 1988). **KERRY: HA 21 -** L. Namona, Waterville (V596711), 23 July 2008, EPA (DAM). **SLIGO: HA 34 -** L. Talt, Gleneask (G402151), 15 July 2008, EPA (DAM). **WICKLOW: HA 10 -** Vartry Reservoir, south east shore, Roundwood (O214002), 24 May and 1 July 1983, HD (Morgan and Murray, 1988, DAM).

***Tanytarsus curticornis* Kieffer, 1911**

CAVAN: HA 36 - L. Garty, Arvagh (N278978), 7 June 2007, EPA (DAM). **CLARE: HA 25 -** L. Graney, Caher, south shore (R568907), 24 May 2003 (PHL) and at Doorus, west shore (R556930), 10 April 2006, EPA (DAM). **CORK: HA 20 -** L. Coolkllure, Dunmanway (W177539), 16 September 2008, EPA (DAM). **DONEGAL: HA 38 -** L. Nacung Upper, Dunlewy (B904191), 19 July 2000 (Langton, 2002)**: HA 39 -** L. Gartan, Church Hill, north shore (C065173), 18 July 2000 (Langton, 2002). L. Akibbon, Church Hill (C068184), 23 April 2009, EPA (DAM). **FERMANAGH: HA 36 -** L. Keenaghan, Beleek (G974600), 28 March 2004 (PHL). **GALWAY: HA 31 -** L. Nahasleam, Maam Cross (L972440), 17 May 2005, EPA (DAM). **KERRY: HA 22 -** R. Loo, Aughnanus Bridge, Crohane (W045790), September 1978 (Ashe, 1982). R. Caragh, Blackstones Bridge, ds R. Acoose confluence (V710864), May 1976, JPOC (DAM). **LEITRIM: HA 26 -** L. Allen, Mountallen, Drumshanbo (G950145), 28 April 2008, EPA (DAM). L. Bofin, Dromod (N049894), 24 June 2008, EPA (DAM). **LONGFORD: HA 26 -** L. Forbes, Cloonard, Newtownforbes (N084821), 14 May 2008, EPA (DAM).

MEATH: HA 7 - R. Skane, Dalgan Park, Navan (N901626), 23 May 2015 (Murray, 2015a). **ROSCOMMON: HA 26 -** L. Key, Boyle wharf in Forest Park (G848040), 11 June 2008, EPA (DAM). **WESTMEATH: HA 25 -** L. Ennell, Lilliput (N378444), 29 June 1966 (DAM)**: HA 26 -** L. Ree, Quigleys Marina, Killinure (N051601), 25 March 1999 (Murray, 2005).

***Tanytarsus debilis* (Meigen, 1830)**
CAVAN: HA 36 - L. Garty, Arvagh (N278978), 18 July 2007, EPA (DAM)**: HA 36 -** L. Moyduff, Shercock (H690094), 20 May 1974 (Murray, 2005)**: HA 7 -** L. Ramor, Virginia (N603871), 27 June 2005, DAM/WM (Murray, 2005)**: HA 7 -** L. Cuilcagh, Virginia (N636895), 20 May 1974 (DAM). **CLARE: HA 25 -** L. Alewnaghta, Whitegate, west shore (R758908), 16 July 2009, EPA (DAM). **DOWN: HA 5 -** L. Henney, Ballynahinch (J348586), 22 June 2000 (Langton, 2002). **GALWAY: HA 30 -** L. Bofin, Maam Cross (M034441), 7 June 2007, EPA (DAM)**: HA 31 -** L. Anaserd, Ballyconneely (L605443), 6 June 2007 and L. Aunwillan, Carraroe (L936255), 25 July 2007, EPA (DAM). **MAYO: HA 34 -** L. Levally, Massbrook (G146043), 22 April 2008, EPA (DAM). **MONAGHAN: HA 6 -** L. Muckno, Castleblaney (H837202), 22 April 1974, DJD (DAM). **SLIGO: HA 35 -** L. Kilsallagh (Reservoir), Kilsallagh (G734393), 23 July 2008, EPA (DAM). **WATERFORD: HA 16 -** L. Ballyshunnock (Reservoir), Portlaw (S455095), 19 August 2009, EPA (DAM). **WESTMEATH: HA 36 -** L. Bane, Collinstown (N550712), 23 May 2006 (EPA). **WEXFORD: HA 13 -** Lady's Island Lake, Carnsore (T105077), 12 July 1974, DJD (DAM).

***Tanytarsus dibranchius* Kieffer, 1926** **New to Ireland**
Synonym *Tanytarsus separabilis* Brundin, 1947 in Spies (1998).
KERRY: HA 22 - R. Flesk, d/s New Bridge (V963885), 27 June 1976, PJA (DAM/PJA). [A specimen in the Ashe Collection, NMI – had been provisionally determined, from Lindeberg (1976) but queried (PJA) as *T. separabilis* Brundin. On re-examination the specimen has been identified from Ekrem (2004) as *T. dibranchius*]. **ROSCOMMON: HA 26 -** R. Suck, Newtown (M844346), 15 August 1981, BPH (Hayes, 1991 - as *T. eminulus*, misidentified). **TIPPERARY: HA 15 -** R. Nore, Quaker Bridge (S211868), 27 August 1981 (Hayes, 1991 - unidentified, queried by BPH as "*T. eminulus*?").

***Tanytarsus ejuncidus* (Walker, 1856)**
ANTRIM: HA 4 - R. Bush, Seneirl Bridge (C943362), 16 July 2000 and R. Bush, Conogher Bridge (C963305), 10 September 2000 (Langton, 2002); R. Bush, Derrykeegan (C946334), 15 May 2005 (PHL). **DERRY: HA 3 -** R. Bann, Coleraine (C854304), 2 May 2010 (PHL). **DONEGAL: HA 38 -** L. Nacung Upper, Dunlewy (B904191), 19 July 2000 (Langton, 2002).

R. Ray, Carrowcanon (B995325), 12 August 1982 (Hayes, 1991)**: HA 39 -** R. Crana, Buncrana (C347328) and Ballymagan (C379344), 15 August 1982 (Hayes, 1991). Impoundment at L. Swilly, Newtown Cunningham (C306195), 21 June 2002 (Langton, 2002). **FERMANAGH: HA 36 -** R. Bannagh, Drummoney Falls, Pettigo (H168676), 17 August 2011 (PHL). **GALWAY: HA 30 -** L. Corrib, Derrenmeel, west shore (M150450), 18 May 1980, BC (DAM). L. Ross, Moycullen (M200363), 25 May 2003 (PHL). **KILKENNY: HA 15 -** R. Nore, Norelands Bridge (S547436), 28 August 1981 (Hayes, 1991). **LAOIS: HA 15 -** R. Nore, Castletown Bridge (S326930), Shanahoe Bridge (S407858) and Kilbricken (S362898), 27 August 1981 (Hayes, 1991; Murray, 2005). **LEITRIM: HA 26 -** L. Bofin, Dromod (N049894), 10 September 2008, EPA (DAM). **MAYO: HA 32 -** Westport L., Westport Woods Hotel, Westport (L985843), 7 May 2004, DAM/WM (DAM). **MEATH: HA 7 -** R. Boyne, Bellinter Bridge (N894625), 2 May 1982 (Murray, 2005), Ardsallagh, at St Bridget's Well (N897635), 7 July 1988 and New Bridge, Navan (N873679), 18 August 1988 (Murray, 1988). **MONAGHAN: HA 36 -** Summerhill L., Magheraveely (H490280), 28 June 2000 (Langton, 2002). **SLIGO: HA 35 -** L. Gill, Sligo (G782350), 11 June and 20 August 2008, EPA (DAM). **TIPPERARY: HA 15 -** R. Nore, Nore Bridge (S133816) and Quaker Bridge (S211868), 27 August 1981 (Hayes, 1991). **TYRONE: HA 3 -** R. Ballinderry, Ballinderry Bridge (H928798), 10 May 2000 (Langton, 2002).

***Tanytarsus eminulus* (Walker, 1856)**

ANTRIM: HA 3 - Kells R., Shank Bridge, Kells (J126982), 20 June 2000 (Langton, 2002). Glenravel Water, Gartnageeragh, Newtown Crommelin (D147154), 2 July 2000 (PHL)**: HA 4 -** R. Bush, Seneirl Bridge (C943362), 16 July 2000 and Conogher Bridge (C963305), 10 September 2000 (Langton, 2002). **CARLOW: HA 12 -** R. Slaney, Motabower Bridge (S832778), 28 July 1981 (Hayes, 1991). **CAVAN: HA 36 -** Glasshouse L., Killashandra (H270060), 18 July 2007, EPA (DAM). R. Erne, Kilsarin (N362910), 27 May 1982; Drumbarry (N462951), 17 August 1982; Dingin's Bridge (N331948) and Carrigan (N391935), 27 August 1982, all BPH (Hayes, 1991). **CLARE: HA 28 -** R. Doonbeg, Derryard (Q979644), 30 July 1982 (Hayes, 1991). **CORK: HA 18 -** R. Blackwater: Killavullen (W648998), 31 August 1981; Ballymacquirk Bridge, Banteer (W382989), Roskeen Bridge, Banteer (W444988) and Lombardstown (W463968), 1 September 1981; Knocknagree (W159975), Duncannon (W180931), Shamrock Bridge, Millstreet (W221935), Charles Bridge, Millstreet (W248943) and Keale Bridge, Millstreet (W294936), 2 September 1981, all BPH (Hayes, 1991)**: HA 20 -** R. Ilen, Drimoleague (W098454), Madore (W103419) and Hollybrook (W117363) also R. Ovane, Pierson's Bridge (W023454), all 24 August 1983, all BPH (Hayes, 1991). **DERRY: HA 2 -** R. Roe, Largy Bridge, Limavaddy (C681202), 14 July 2000 (Langton, 2002). Fire dam,

Binevenagh Forest, Coleraine (C699304), 18 May 2000 (Langton, 2002)**: HA 3 -** R. Agivey, ford at Ballynameen (C827148), 14 June 2008 (PHL). R. Aghadowey, Ballybritain Bridge (C859212), 26 May 2000 (Langton, 2002). R. Bann, Coleraine (C854304), 18 April to 26 August 1999; 3 May to 16 July 2000; 26 April, 16 and 30 June 2001, 2 May 2010, all PHL (PHL). L. Neagh, Ballyronan (H948862), 4 May 1999 (PHL). R. Moyola, New Bridge, Magherafelt (H955905), 4 July 2000 (Langton, 2002) and 7 May 2001 (PHL). **DONEGAL: HA 1 -** R. Deele, Legland, Raphoe (C136028), 19 July 2000 (Langton, 2002)**: HA 37 -** R. Oily, Claggen (G751803), 8 August 1982 (Hayes, 1991). R. Eany, d/s Eanybeg confluence (G842815), R. Eanymore, Letterbara Bridge (G883825) and Drumagraa Bridge (G863822) also R. Stragar, Duninkeely (G727792), all 10 August 1982, all BPH (Hayes, 1991)**: HA 38 -** R. Owencarrow, d/s road bridge, Glenveagh (C043235), 18 July 2000 (Langton, 2002). R. Ray, Crocnalaragh (B989272), 12 August 1982 (Hayes, 1991)**: HA 39 -** R. Glashagh, Drumbologe, Letterkenny (C096153), 18 July 2000 (Langton, 2002). R. Leannan; Kilnacrenan (C145200) and Drumaboden (C165218), 12 August 1982 also Claragh (C197210), 13 August 1982 (Hayes, 1991)**: HA 40 -** R. Keenagh, Keenagh Bridge (C435555), 18 August 2003 (PHL). **DOWN: HA 3 -** R. Rocky, d/s Shanky confluence, Hilltown (J233277), 26 September 1997 (PHL). **FERMANAGH: HA 35 -** R. Glen, Garrison (G943522), 29 June 2000 (Langton, 2002)**: HA 36 -** L. Macnean, upper, Belcoo (H042403), 29 June 2000, R. Finn, Lisnanesnagh Bridge (H544337), 26 June 2000 and R. Hollybrook, Lisnaskea (H373310), 27 June 2000 (Langton, 2002). R. Bannagh, Drummoney Falls, Pettigo (H168676), 17 August 2011 (PHL). **GALWAY: HA 26 -** R. Shiven, d/s Ballinaglass (M788494), 29 July 1981 (Hayes, 1991). R. Tirur, Newbridge (M492699), 16 August 1981 (Hayes, 1991) and 29 July 1982 (Hayes and Murray, 1989): **HA 29 -** L. Cutra, Gort (R485986), 24 May 2003 (PHL)**: HA 30 -** R. Loughkip, Ballyquirk, Moycullen (M224313), 17 August 1981 (Hayes, 1991). **KERRY: HA 18 -** R. Blackwater, Lacknastooka (R153008), 2 September 1981 (Hayes, 1991)**: HA 21 -** R. Inny, Scarriff Bridge (V504696) and u/s Waterville (V525704), 24 August 1983 (Hayes, 1991)**: HA 22 -** L. Cummernamuck, Killorglin (V745897), 20 June 2008 (DAM). R. Clydagh, u/s Clydagh Bridge (W114826), May to October 1978 (Ashe, 1982). R. Flesk: d/s Clydagh/Loo confluence (W084814), May to October 1978 (Ashe, 1982); d/s Whitebridge (V987900), 27 June 1976 (Ashe collection, NMI also Ekrem, 2004) and May to October 1978 (Ashe, 1982). R. Loo, Aughnanus Bridge, Crohane (W045790), May to October 1978 (Ashe, 1982). **KILDARE: HA 7 -** R. Boyne, Edenderry (N636346), 9 July 1981 (Hayes, 1991). **KILKENNY: HA 15 -** R. Nore: Threecastles (S458626), 27 August 1981; Ballyragget (S445707), Norelands Bridge (S547436) and Brownsbarn Bridge (S618391), 28 August 1981 (Hayes, 1991). **LAOIS: HA 15 -** R. Nore: Castletown Bridge (S326930), Kilbricken (S362898), Shanahoe Bridge (S407858) and u/s Durrow (S416787), 27 August 1981 also Athanagh (S423763), 28 August 1981, all

BPH (Hayes, 1991). **LIMERICK: HA 25 -** R. Mulkear, d/s Cappamore (R779504) and Dromkeen Bridge (R741480), 8 September 1981 (Hayes, 1991). **MAYO: HA 32 -** L. Doo, Delphi, north east shore (L834689), 22 August 2002, DAM/WM (DAM)**: HA 32 -** R. Bunowen, Louisburg, upstream of bridge (L807807), 5 August 2004, DAM/WM (DAM). R. Altahoney, Newport (F950050), 1969, EF (Fahy and Murray, 1972)**: HA 33 -** R. Owenmore, Bangor Bridge, Bangor Erris (F863228), 18 August 1983 and R. Glenlassra, Belderg (G023407), 19 August 1983 (Hayes, 1991)**: HA 34 -** R. Moy: Bellanacurra (G403047) and Ballylahan (M277992), 29 August 1982 also Cloongullaun (G348016), 30 August 1982 (Hayes, 1991). **MEATH: HA 6 -** R. Dee, Drumconrath (N910894), 27 July 1983 (Hayes, 1991)**: HA 7 -** R. Boyne: Bellinter Bridge (N894625), 21 May 1968 (Murray, 1972) and 21 August 1988 (Murray, 1988); opposite R. Skane, d/s Bellinter Bridge (N895628), 3 May 1982 (DAM) and 22 April 2005 (Murray, 2005); Ardsallagh, eel weir (N897630), 11 May 1982 (DAM); Stackallen Bridge (N917713), 17 August 1988 (Murray, 1988). R. Blackwater, Bloomsbury Bridge, Oristown (N793741) and Donaghpatrick (N819723), 19 August 1988 (Murray, 1988). **OFFALY: HA 25 -** R. Shannon, Shannon Bridge (M967254), 15 August 1981 (Hayes, 1991; Murray, 2005). R. Little Brosna: Milltown Park (S068907), Brosna Bridge (S077938), Sharavogue (S056953) and New Bridge (N016088) also R. Brosna, Cloghan (M046209), all 2 September 1982, all BPH (Hayes, 1991). **ROSCOMMON: HA 26 -** R. Suck: Mount Talbot (M813531), 14 August 1981; Castlecoote (M809627), Ballyforan (M817464) and Newtown (M844346), 15 August 1981, all BPH (Hayes, 1991). **SLIGO: HA 34 -** R. Moy, Carrowneden (G530205), Cloonacool (G493168), Metal Bridge, Tobercurry (G464138) and Annagh (G466123), 30 August 1982, all BPH (Hayes, 1991)**: HA 35 -** R. Drumcliff, Glencar (G734430), 19 August 1983 (Hayes, 1991). **TIPPERARY: HA 15 -** R. Nore, Clonakenny (S116805) and Quaker Bridge (S211868), 27 August 1981 (Hayes, 1991). **TYRONE: HA 3 -** R. Ballinderry, Ballinderry Bridge (H928798), 10 May 2000 (Langton, 2002). **WATERFORD: HA 18 -** R. Blackwater, Ballyduff (W964992) and Lismore (X047988), 31 August 1981 (Hayes, 1991). **WICKLOW: HA 10 -** R. Avonbeg, Drumgoft Bridge, Glenmalure (T105905), 4 August 1983 (Hayes, 1991); R. Avonbeg, Meetings Bridge (T188831), 11 July and 27 October 1997 and R. Avonmore, Lion Arch Bridge (T194833), 11 July 1997, all FC (Curran, 2001). R. Avoca, Whitebridge, Tigroney (T198821), 4 August 1983 (Hayes, 1991); R. Avoca, Whitebridge, Tigroney (T198821) and and Avoca Village (T203802), 11 July 1997, FC (Curran and Murray, 2001)**: HA 12 -** R. Derry, Balisland (S978645), 28 July 1981 and Bridgeland (T021744), 29 July 1981 (Hayes, 1991).

***Tanytarsus excavatus* Edwards, 1929**

CLARE: HA 27 - L. Cullaun, Corrofin, mid east shore (R317905), 7 June, 4 July, 1 August and 5 September 2006, EPA (PHL/LPR). L. Muckanagh, Tubber, Corrofin, mid lake (R368926), 3

July 2006, EPA (PHL). **GALWAY: HA 30 -** L. Corrib, Hurney, west shore (M258310), 3 May 1980 and Derrenmeel, west shore (M150450), 5 August 1980, BC (Murray, 1996). **WESTMEATH: HA 36 -** L. Bane, Collinstown (N550712), 26 June 2006 (EPA).

***Tanytarsus gibbosiceps* Kieffer, 1922**
KERRY: HA 22 - R. Flesk, u/s L. Leane (V964894), 24 July 1978, PJA [Ashe collection, NMI - det. T. Ekrem, Murray (2010)].

***Tanytarsus glabrescens* Edwards, 1929**
CAVAN: HA 7 - L. Cuilcagh, Virginia (N636895), 23 May 1968 (Murray, 1972). **CLARE: HA 27 -** L. Bunny, Aughrim, south east shore (R377965), 1 August and 5 September 2006 (EPA). L. Cullaun, Corrofin, mid east shore (R317905), 1 August 2006, EPA, (PHL). L. Muckanagh, Tubber, Corrofin, mid lake (R368926), 7 June and 2 August 2006, EPA (PHL). **CORK: HA 19 -** L. Aderry, Castlemartyr (W935730), 21 May 1969, NH (Bracken and Murray, 1973). **DERRY: HA 3 -** L. Neagh (H9080), no date (McLarnon and Carter, 2000). **DONEGAL: HA 40 -** L. Fad, Coolmany (C398428), 15 June 2009, EPA (DAM). **GALWAY: HA 30 -** L. Corrib, Derrenmeel, west shore (M150450) 5 August 1980, BC (DAM). **KERRY: HA 21 -** L. Clonee, Kenmare (V800639), 26 July 1968, NH (Murray, 1972). **OFFALY: HA 25 -** bog lake, Turraun (N150230), 3 June 1999, DAM/WM (Murray, 2005). **WESTMEATH: HA 7 -** L. Lene, south west shore, Collinstown (N532681), 20 August 1981 (DAM)**: HA 25 -** L. Owel, Mullingar (N421566), 12 June 1973, NH (BPH). L. Ennell, Tudenham (N415466), 7 July 1966 (Murray, 1972)**: HA 36 -** L. Bane, Collinstown (N550712), 26 June and 22 August 2006 (EPA).

***Tanytarsus gracilentus* (Holmgren, 1883)**
KILDARE: HA 9 - pond, Lyons Estate, Celbridge (N972285), 29 March 1982 (Murray and Ashe, 1983). **MAYO: Clare Island -** Bunnamohaun (L652849), 21 August 2002 (Murray and Murray, 2003).

***Tanytarsus gregarius* Kieffer, 1909**
ANTRIM: HA 3 - L. Neagh, Lennymore Bay, north shore (J115745), 1965 (Marks and Henderson, 1970)**: HA 5 -** L. Mourne, Carrickfergus (J415924), 4 May 1999 (PHL)**: Rathlin Island -** pool 1 (D163521) and pool 2 (D164520) east of lighthouse, 24 July 2000 (Langton, 2002). **CAVAN: HA 36 -** L. Garty, Arvagh (N278978), 18 July 2007, EPA (DAM). **CLARE: HA 27 -** L. Cullaun, Corrofin, mid east shore (R317905), 22 July 2009, EPA (DAM). Gortglass L., Killadysert, south shore (R223596), 2 April 2009, EPA (DAM). L. Rosroe, Newmarket on

Fergus, north east shore (R449697), 16 September 2009, EPA (DAM). **CORK: HA 20 -** L. Skeagh (Reservoir), Schull (V937338), 8 April 2008, EPA (DAM)**: HA 21 -** L. Avaul, Glengarrif (V910553), 24 August 1969, NH (Bracken and Murray, 1973). L. Bofinna, Bantry (W041488), 8 April 2008, EPA (DAM). L. Glenbeg, Ardgroom (V706530), 3 September 2008, EPA (DAM). **DERRY: HA 1 -** Upper Reservoir, Creggan, Derry (C417173), 26 April and 18 May 2001 (PHL) and 17 May 2002 (Langton, 2002)**: HA 3 -** Howell's Tarn, Ballywildrick, Coleraine (C766325), 7 April 2002. R. Bann, Coleraine (C854304), 26 April 2001 also L. Neagh, Ballyronan (H948862), 27 April and 4 May 1999 and 15 May 2002 (all PHL). **DONEGAL: HA 36 -** L. Golagh, Ballyshannon (G965655), 21 April 2009, EPA (DAM). L. Avehy, Belalt (H043664), 27 April 2002 (PHL)**: HA 37 -** Carn L., Blue Stack Mountains (G871886), 27 July 2005, JRB (DAM). L. Shinvagh, Carricode (H005675) and inflow stream to L. Shinvagh, Carricode (H005673), 27 May 2002 (PHL)**: HA 38 -** L. Altercan, The Rosses (B755158), L. Dunglow, The Rosses (B787117), L. Voriskey, The Rosses (B762176) and R. Gweedore, outflow from L. Anure, Crolly (B827184), 19 July 2000, PHL (Langton, 2002). L. Nasnahida, Doocharry, Dunglow (B852076), 10 September 2009, EPA (DAM). L. Dunlewy, Dunlewy (B926193), 19 July 2000 (Langton, 2002). L. Veagh, GNP, north east shore (C039231), 24 July and 22 August 1985 (Heneghan, 1986). **FERMANAGH: HA 36 -** L. Macnean, lower, Belcoo (H085384), 29 June 2000 (Langton, 2002). L. Keenaghan, Beleek (G974600), 28 March 2004 (PHL). **GALWAY: HA 25 -** L. Derg, Woodford (M794964), 24 May 2003 (PHL)**: HA 30 -** L. Ballyquirke, Moycullen (M232317), 14 September 2007, EPA (DAM). L. Corrib Lower, Moycullen (M271360), 28 August 2007, EPA (DAM). L. Ross, Moycullen (M200363), 25 May 2003 (PHL)**: HA 31 -** L. Ardderry, Maam Cross (L982458), 25 May 2003 (PHL). L. Shindilla, Derreennacreeva, south shore (L958460), 16 May 2006, EPA (DAM)**: HA 32 -** L. Kylemore, Kylemore (L771582), 30 July 2007, EPA (DAM). **KERRY: HA 21 -** Eagles L., Knocknagantee (V674728), 25 April and 9 August 2005, JRB (DAM). Eirk L., Derrygarriff (V881777), 25 April 2005, JRB (DAM). L. Namona, Waterville (V596711), 10 September 2008, EPA (DAM)**: HA 22 -** L. Caragh, Killorglin (V719904), 15 July 2008, EPA (DAM). Doo L., Muckross Penninsula, Killarney (V949860), 1973, DJD/DAM (Douglas and Murray, 1980; Murray, 2005). L. Guitane, Crohane, Killarney (W025846), 16 May 2005, EPA (DAM). L. Kilbrean, Killarney (W005935), 9 October 1969, NH (Bracken and Murray, 1973). L. Leane, Killarney: O'Sullivans Cascade, JPOC (V916886), 17 April 1973; Castlelough Bay, north shore (V975873) and mid lake (V930883), 14 July 1973; Glena Bay (V930858), 27 July 1973; Peninsula Bay (V940860), July 1973 (all Douglas and Murray, 1980) also L. Leane (V931886), 22 April 2008, EPA (DAM). Muckross Lake, mid-lake (V950850) and Camilan Bay (V943859), July 1973 (Douglas and Murray, 1980). **LIMERICK: HA 24 -** Bleach L., Pallaskenry (R441569), 16 September 2009, EPA (DAM). **MAYO: HA 26 -** L. Nanoge, Urlaur

(M506903), 23 September 2008, EPA (DAM)**: HA 30 -** L. Carra, Keel Bridge, Ballinrobe (M165680), 28 July 2008, EPA (DAM). L. Corrib Upper, Kitteen's Bay, Oughterard (M110463), 25 June 2010, JRB (DAM). L. Mask (M1170), 1928 (Edwards, 1929)**: HA 32 -** L. Doo, Delphi, north east shore (L834689), 6 June 2002, DAM/WM (DAM). L. Fin, Delphi (L841657), 19 May 2005 and 12 July 2006 and L. Feeagh, Newport (L975983), 17 September 2008, EPA (DAM)**: HA 34 -** L. Alone, Ox Mountains (G367157), 22 April and 5 August 2005, JRB/MC (DAM)**: Clare Island -** L. Leinapollbauty, Lecarrow (L691856), 5 June 2002 (Murray and Murray, 2003). Creggan L., Lecarrow (L689857), June to October 1998 and June to September 1999 (Fahy, 2001) also 21 August 2002 (Murray and Murray, 2003). **MONAGHAN: HA 6 -** L. Muckno, Castleblaney (H837202), 22 April 1974, DJD (DAM). **ROSCOMMON: HA 26 -** L. Urlar, Abbey, north east shore (M508900), 10 March 2005, DAM/WM (DAM). **SLIGO: HA 35 -** L. Easky, Ox Mountain (G446230), 18 June 2008, EPA (DAM). **TIPPERARY: HA 18 -** L. Curra, Galtymore Mountain (R867242), 26 May 2005, JRB (DAM). **WATERFORD: HA 17 -** L. Carrigavantry, Tramore (S548022), 19 August 2009, EPA (DAM). **WESTMEATH: HA 36 -** L. Bane, Collinstown (N550712), 23 May and 22 August 2006, EPA (DAM). **WEXFORD: HA 13 -** Lady's Island Lake, Carnsore (T105077), 12 July 1974, DJD (DAM). **WICKLOW: HA 10 -** Vartry Reservoir, south east shore, Roundwood (O214002), 24 May, 12 July and 14 August 1983, HD (DAM).

***Tanytarsus heusdensis* Goetghebuer, 1923**

CARLOW: HA 12 - R. Slaney, Motabower Bridge (S832778) and Kildavin (S899597), 28 July 1981 (Hayes, 1991). **CAVAN: HA 36 -** R. Erne: Kilsarin (N362910), 27 May 1982, Drumbarry (N462951), 17 August 1982 and Carrigan (N391935), 27 August 1982, all BPH (Hayes, 1991). **CORK: HA 18 -** R. Blackwater, Keale Bridge, Millstreet (W294936), 2 September 1981 (Hayes, 1991)**: HA 20 -** R. Ilen, Drimoleague (W098454), Madore (W103419) and Hollybrook (W117363) also R. Ovane, Pierson's Bridge (W023454), all 24 August 1983 (Hayes, 1991). **DONEGAL: HA 37 -** R. Eany, d/s Eanybeg confluence (G842815), R. Eanymore, Letterbara Bridge (G883825) and Drumagraa Bridge (G863822), 10 August 1982 also R. Oily, Claggen (G751803), 8 August 1982, all BPH (Hayes, 1991)**: HA 38 -** R. Tullaghobeg, Falcarragh (B925319) and Millmount (B933304), 12 August 1982 (Hayes, 1991)**: HA 39 -** R. Crana, Buncrana (C347328), 15 August 1982 (Hayes, 1991)**: HA 40 -** R. Keenagh, Hugh Roe's Bridge, Umgall (C454543), 16 August 1982 (Hayes, 1991). **FERMANAGH: HA 35 -** Glen R., Garrison (G943522), 29 June 2000 (Langton, 2002)**: HA 36 -** R. Colebrook tributary, Maguiresbridge (H348387), 22 May 1998 (PHL). **GALWAY: HA 26 -** R. Shiven, d/s Ballinaglass (M788494), 29 July 1981 (Hayes, 1991). R. Tirur, Newbridge (M492699), 29 August 1983 (Hayes and Murray, 1989). **GALWAY: HA 30 -** R. Cregg, Addergoole Bridge,

Addergoole (M324350), 16 August 1981 (Hayes, 1991). **KILKENNY: HA 15 -** R. Nore, Ballyragget (S445707) and Norelands Bridge (S547436), 28 August 1981 (Hayes, 1991; Murray, 2005). **LAOIS: HA 15 -** R. Nore, Castletown Bridge (S326930), Kilbricken (S362898), Shanahoe Bridge (S407858) and u/s Durrow (S416787), 27 August 1981 (Hayes, 1991). **MAYO: HA 32 -** R. Erriff, Ashleigh Falls (L895645), 18 August 1981 (Hayes, 1991)**: HA 33 -** R. Glenlassra, Belderg (G023407), 19 August 1983 (Hayes, 1991)**: HA 34 -** L. Cullin, Drummin Wood, north east shore (G235048), 22 August 1995, DAM/WM (DAM). R. Moy, Bellanacurra (G403047), 29 August 1982 and Cloongullaun (G348016), 30 August 1982 (Hayes, 1991). **MEATH: HA 6 -** R. Dee, Drumconrath (N910894), 27 July 1983 (Hayes, 1991)**: HA 7 -** R. Boyne: Bellinter Bridge (N894626) and Kilcarn Bridge, Navan (N884657), 21 August 1988 (Murray, 1988); Stackallen Bridge (N917713), 19 July 1989 (DAM). R. Blackwater, Bloomsbury Bridge, Oristown (N793741), 19 August 1988 (Murray, 1988). R. Skane, Dalgan Park, Navan (N901626), 23 May 2015 (Murray, 2015a)**: HA 8 -** Meadesbrook Stream-pond area, Meadesbrook, Kilmoon (O038594), 3 April 2005 (Murray, 2005). **OFFALY: HA 25 -** bog lake 2, Turraun (N150230), September 1995, WT (DAM). Bog lake 1, Turraun (N172185), 6 June 1998 (DAM). R. Little Brosna, Ryan's Cross (S053882) and Milltown Park (S068907), 2 September 1982 (Hayes, 1991). **ROSCOMMON: HA 26 -** R. Suck, Castlecoote (M809627), 16 July 1981 and Newtown (M844346), 15 August 1981, BPH (Hayes, 1991). **SLIGO: HA 34 -** R. Moy, Metal Bridge, Tobercurry (G464138) and Annagh (G466123), 30 August 1982 (Hayes, 1991). **TIPPERARY: HA 15 -** R. Nore, Nore Bridge (S133816) and Quaker Bridge (S211868), 27 August 1981 (Hayes, 1991). **WEXFORD: HA 12 -** R. Slaney, Edernline Bridge (S977345), 29 July 1981 (Hayes, 1991). **WICKLOW: HA 12 -** R. Slaney, Kilmurray (S889856), 28 July 1981 (Hayes, 1991).

***Tanytarsus inaequalis* Goetghebuer, 1921**

CLARE: HA 28 - L. Keagh, Milltown Malbay, north shore (R100813), 19 September 2012 (DAM). **DONEGAL: HA 38 -** L. Kindrum, Kindrum, Fanad (C186430), 16 June 2009, EPA (DAM). **GALWAY: HA 29 -** L. Rea, Loughrea, east shore (M624153), 25 May 2003 (Langton, 2004)**: HA 30 -** L. Corrib, Derrenmeel, west shore (M150450), 5 August 1980, BC (DAM)**: HA 31 -** L. Anaserd, Ballyconneely (L605443), 17 July and 11 September 2007, EPA (DAM). **KERRY: HA 21 -** L. Brin, Derreeny (V780775), 18 June 2008, EPA (DAM). Eirk L., Derrygarriff (V881777), 9 August 2005, JRB (DAM)**: HA 23 -** L. Gill, Castlegregory (Q603139), 18 September 2008, EPA (DAM). **MAYO: HA 34 -** L. Cullin, Drummin Wood, north shore (G235046), 18 June 2008, EPA (DAM). **TIPPERARY: HA 18 -** Black L., Arra Mountains (R738771), 10 August 2005, JRB (Murray, 2005).

***Tanytarsus lactescens* Edwards, 1929**

CLARE: HA 27 - L. Bunny, Aughrim, south east shore (R377965), 7 June and 4 July 2006 (EPA). L. Muckanagh, Tubber, Corrofin, mid lake (R368926), 7 June, 3 July and 2 August 2006, EPA (PHL). **MAYO: HA 32 -** L. Doo, Delphi, west shore (L835681), 9 May 2006, EPA (Murray, 2010). **ROSCOMMON: HA 26 -** L. Key, wharf in Forest Park, Boyle (G848040), 11 June 2008, EPA (Murray, 2010). **WESTMEATH: HA 25 -** L. Owel, Mullingar (N421566), June 1973, NH (Hayes, 1980).

***Tanytarsus lestagei* Goetghebuer, 1922**

Synonyms *Tanytarsus palmeni* Lindeberg, 1967; *T. socialis* Lindeberg, 1967

ANTRIM: HA 3 - L. Neagh, Antrim Bay (J135866), 22 August 2001 (PHL)**: HA 4 -** Dungonnell Dam, Newtown Crommelin (D193170) and Pool, Ballyhoe Bridge (D077294), 2 July 2000 (Langton, 2002); Altnahinch Reservoir, Ballymoney (D119234), 22 August 2001 (PHL)**: HA 5 -** L. Mourne, Carrickfergus (J415924), 4 May 1999 (PHL). **CLARE: HA 25 -** L. Graney, Caher, south shore (R568907), 24 May 2003 (Langton, 2004). **CORK: HA 19 -** L. Allua, Inchegeelagh (W201661), 27 July 1968 (Murray, 1972). **DERRY: HA 1 -** Upper Reservoir, Creggan, Derry (C417173), 23 March, 10 and 18 May 2001 also 17 May 2002 (PHL); Lower Reservoir, Creggan, Derry (C422174), 10 May 2001 (PHL)**: HA 3 -** Balinrees Reservoir, Coleraine (C794300), 9 June 2000 (Langton, 2002 as *T. palmeni*). Downhill Lake, Bishops Gate, Coleraine (C762361), 18 May 2000 (Langton, 2002). R. Bann, Coleraine (C854304), 4 May and 23 June 1999 (PHL). L. Neagh (H9080), no data (McLarnon and Carter, 2000); L. Neagh, Ballyronan (H948862), 1988 (Tokeshi, 1990 as *T. palmeni*) also 4 May 1999 (PHL) and 4 July 2000 (Langton, 2002). **DONEGAL: HA 38 -** L. Dunglow, The Rosses (B787117), 19 July 2000 (Langton, 2002). L. Keel, Crolly (B848162), 13 August 2009, EPA (DAM). L. Nambraddan,GNP, Glenveagh (C022193), 31 July 1985. L. Veagh, GNP; north east shore, Glenveagh (C039231), 24 July 1985 and lake shore near Glenveagh Castle (C025213), 22 May 1986, (Heneghan, 1986 as *T. palmeni*)**: HA 39 -** L. Fern, Milford (C182247), 18 August 2011 (PHL)**: HA 40 -** L. Fad, Rowantree Hill, Moville (C539397), 18 August 2011 (PHL). **DUBLIN: HA 9 -** bog pool, Featherbed Mountain (O120190), November 1974, CD (Dowling, 1975; Dowling and Murray, 1981). **FERMANAGH: HA 36 -** L. Erne Lower, Brocagh Point, Boa Island (H108626), 17 August 2011 and Black Bay (H072639), 27 April 2002 (PHL). L. Lattone, Kiltyclogher (H003456), 29 June 2000 (Langton, 2002). L. Macnean Upper, Belcoo (H042403) and L. Macnean Lower, Belcoo (H085384), 29 June 2000 (Langton, 2002). **GALWAY: HA 30 -** L. Corrib, Derrenmeel, west shore (M150450), 19 May 1980, BC (DAM). L. Ross, Moycullen (M200363), 25 May 2003 (PHL). **KERRY: HA 22 -** L. Guitane, Crohane, Killarney (W025846), 14 October 1973 (Douglas and Murray, 1980). L. Leane, Killarney: Bog

Bay (V963866) and Peninsula Bay (V940860), 1973 (Douglas and Murray, 1980); Muckross Boathouse (V965866), 23 August 1973 (DAM) and 29 August 1987, NOM (LJH). Muckross Lake, Dundag Bay (V964858), 23 July 1973 (Murray, 2005). **MAYO: HA 32 -** L. Doo, Delphi, north east shore (L834689), 22 August 2002, DAM/WM (DAM)**: HA 33 -** bog pools, R. Glenamoy basin, Glenamoy (F896345), May 1973, CD (Dowling, 1975; Dowling and Murray, 1981)**: HA 34 -** R. Moy, Cloongullaun (G348016), 30 August 1982, BPH (DAM)**: Clare Island -** pond east of Maum road (L710863), 28 April 2000 (Murray and Murray 2003). **OFFALY: HA 25 -** bog lake 2, Turraun (N150230), 3 June 1999 (DAM). **ROSCOMMON: HA 26 -** L. Key, wharf in Forest Park, Boyle (G848040), 11 June 2008, EPA (DAM). **SLIGO: HA 35 -** L. Templehouse, Ballymote (G619182), 11 June 2008, EPA (DAM). **TIPPERARY: HA 15 -** R. Nore, Nore Bridge (S133816), 27 August 1981, BPH (Murray, 2005)**: HA 18 -** Black L., Arra Mountains (R738771), 4 May 2005, JRB (Murray, 2005). **TYRONE: HA 1 -** L. Fingrean, Craggan, Omagh (H576775), 16 August 2011 (PHL). **WESTMEATH: HA 25 -** L. Owel, Mullingar (N421566), 21 August 1973, NH (BPH/DAM)**: HA 26 -** L. Ree, Quigleys Marina, Killenure (N051601), 18 September 1996 (DAM). **WICKLOW: HA 10 -** Vartry Reservoir, south east shore, Roundwood (O214002), 13 August 1983, HD (DAM).

***Tanytarsus longitarsis* Kieffer, 1911**

ARMAGH: HA 3 - L. Neagh, Oxford Island, Lurgan (J044621), 18 July 2003 (PHL). **DERRY: HA 1 -** Upper Reservoir, Creggan, Derry (C417173), 26 April 2001 (Langton, 2004). **DONEGAL: HA 37 -** inflowing stream to L. Shinvagh, Carricode (H005673), 27 April 2002 (Langton, 2004). **KERRY: HA 21 -** Eagles L., Knocknagantee (V674728), 25 April 2005, JRB/MC (Murray, 2005).

***Tanytarsus lugens* (Kieffer, 1916)**

ANTRIM: HA 3 - L. Neagh, Lennymore Bay (J115745), 1965 (Marks and Henderson, 1970). **WICKLOW: HA 10 -** Vartry Reservoir, south east shore, Roundwood (O214002), 14 August 1983, HD (DAM).

***Tanytarsus medius* Reiss and Fittkau, 1971**

CORK: HA 19 - L. Allua, Ballingeary (W180652), 4 April 2008, EPA (DAM). **KERRY: HA 22 -** Muckross Lake, Killarney, Dundag Bay (V964858), May 1972, DJD/DAM (Murray, 2005; Douglas and Murray, 1980). Upper Lake, Killarney, Gortroe (V918818), 1973 (Douglas and Murray, 1980). **KILKENNY: HA 15 -** R. Nore, Norelands Bridge (S547436), 8 August 1982, BPH (Hayes, 1991; Murray, 2005). **MAYO: HA 32 -** R. Bunowen, Louisburg, u/s bridge (L807807) and Westport L., Westport Woods Hotel, Westport (L985843), 30 September 2004,

DAM/WM (DAM). L. Knappabeg, Westport (M010803), 18 September 2008, EPA (DAM). **MEATH: HA 7 -** R. Skane, Dalgan Park, Navan (N901626), 23 May 2015 (Murray, 2015a). R. Boyne, Ardsallagh, at St Bridget's Well (N897635), 7 July 1988 (Murray, 1988) and Bru ńa Boinne Centre, Newgrange (O023727), 21 June 2015 (DAM). R. Blackwater, Poolboy Bridge, Navan (N871681), 18 August 1988 and Donaghpatrick (N819723), 19 August 1988 (Murray, 1988). **SLIGO: HA 35 -** L. Gill, Sligo (G782350), 11 June 2008 (DAM). **WESTMEATH: HA 26 -** L. Killinure, Ballaghkeernan Bay (N069445), 26 June 2007 (DAM).

***Tanytarsus mendax* Kieffer, 1925**

Synonym *Tanytarsus holochlorus* Edwards, 1929

ANTRIM: HA 3 - pool, Leslie Hill, Ballymoney (C935263), 26 September 1999 and Templepatrick Pond, Templepatrick (J232856), 26 August 2008 (PHL)**: Rathlin Island -** no name lough, Nature Reserve (D095505), 24 July 2000 (Langton, 2002) also L. Ally (D154497) and Ushet L. (D154485), 5 July 2004 (PHL). **CAVAN: HA 36 -** L. Sillan, Shercock, north east shore (H705067), 1 October 1972, JPOC (Murray, 2005). **CLARE: HA 27 -** L. Cullaun, Corrofin, mid east shore (R317905), 5 September 2006, EPA (PHL). **DERRY: HA 3 -** Downhill Lake, Bishops Gate, Coleraine (C762361), 21 August 2001 (Langton, 2002). **DOWN: HA 5 -** Bow L., Ballynahinch (J354577), 22 June 2000 (Langton, 2002). **GALWAY: HA 25 -** L. Derg, Woodford (M794964), 24 May 2003 (PHL)**: HA 30 -** L. Corrib, Derrenmeel (M150450), 16 August 1980, BC (DAM - as *T. holochlorus*). L. Ross, Moycullen (M200363), 24 May 2003 (PHL). **KERRY: HA 22 -** L. Leane, Killarney, Muckross Boathouse (V965866), 29 August 1987, NOM (LJH/DAM as *T. holochlorus*). **LEITRIM: HA 26 -** L. Rinn, Mohill (N095943), 18 July 2008, EPA (DAM). Pond in garden, Lough Rynn Castle (N098936), 25 September 2014 (DAM). **LOUTH: HA 6 -** L. Mentrim, Ardee (N913879), 27 June 2005, DAM/WM (DAM). **MONAGHAN: HA 36 -** Summerhill L., Magheraveely (H490280), 28 June 2000 (Langton, 2002). **MONAGHAN: HA 36 -** Kilroosky L., Clones (H494274), 28 June 2000 (Langton, 2002). **WATERFORD: HA 17 -** Belle Lake, Dunmore East (S665049), 2 July 2009, EPA (DAM).

***Tanytarsus miriforceps* (Kieffer, 1921)**

FERMANAGH: HA 36 - L. Keenaghan, Beleek (G979600), 28 March 2004 (Langton, 2012).

***Tanytarsus nemorosus* Edwards, 1929** **New to Ireland**

CLARE: HA 27 - L. Cullaun, Corrofin, mid east shore (R317905), 7 June 2006, EPA (PHL).

***Tanytarsus niger* Andersen, 1937**

CLARE: HA 27 - L. Dromore, Ruan, Corrofin, west basin (R345858), 21 September 2009,

EPA (DAM)**: HA 29 -** L. Skeardeen, Kilcorkan (R388991), 7 April 2009, EPA (DAM). **DERRY: HA 1 -** Upper Reservoir, Creggan, Derry (C417173), 26 April and 10 May 2001 (Langton, 2004)**: HA 3 -** R. Bann, Coleraine (C855304), 26 April 2001 (Langton, 2004). **KERRY: HA 22 -** Doo L., Muckross Penninsula, Killarney (V949860), 12 April 1977, PJA (DAM) and 26 April 1977 (Murray, 2005).

***Tanytarsus palettaris* Verneaux, 1969**
GALWAY: HA 30 - stream at layby on road N59, Moycullen (M204326), 25 May 2003 (PHL). **LAOIS: HA 15 -** R. Nore, Shanahoe Bridge (S407858), 27 August 1981 (Hayes, 1991). **MEATH: HA 8 -** Meadesbrook Stream, Meadesbrook, Kilmoon (O038594), 9 June 2006 (DAM). **SLIGO: HA 34 -** R. Moy, Metal Bridge, Tobercurry (G464138), 30 August 1982 (Hayes, 1991). **TIPPERARY: HA 15 -** R. Nore, Clonakenny (S116805) and Quaker Bridge (S211868) 27 August 1981 (Hayes, 1991) also Nore Bridge (S133816), 27 August 1981 (Hayes, 1991; Murray, 2005).

***Tanytarsus pallidicornis* (Walker, 1856)**
ANTRIM: HA 3 - Glenravel Water, Gartnageeragh, Newtown Crommelin (D147154), 2 July 2000 (Langton, 2002)**: HA 4 -** R. Bush, Conogher Bridge (C963305), 10 September 2000 (Langton, 2002). **CAVAN: HA 36 -** R. Erne: Kilsarin (N362910), 27 May 1982; Drumbarry (N462951), 17 August 1982 and Carrigan (N391935), 27 August 1982 (Hayes, 1991). **CORK: HA 18 -** R. Blackwater: Killavullen (W648998), 31 August 1981; Ballymacquirk Bridge, Banteer (W382989), Roskeen Bridge, Banteer (W444988) and Lombardstown (W463968), 1 September 1981; Duncannon (W180931), 2 September 1981, all BPH (Hayes, 1991)**: HA 20 -** R. Ilen, Drimoleague (W098454), Madore (W103419) and Hollybrook (W117363), 24 August 1983 (Hayes, 1991). **DERRY: HA 1 -** Upper Reservoir, Creggan, Derry (C417173), 26 April 2001 and 17 May 2002 and Lower Reservoir, Creggan, Derry (C422174), 26 April 2001 (all PHL)**: HA 2 -** Roe Valley Park pool, Limavady (C679201) and R. Roe, Largy Bridge, Limavaddy (C681202), 14 July 2000 (Langton, 2002)**: HA 3 -** R. Aghadowey, Ballybritain Bridge (C859212), 26 May 2000 (Langton, 2002). Howell's Tarn, Ballywildrick, Coleraine (C766325), 7 April and 7 July 2002, Downhill Forest, Coleraine (C760353), 17 March 1999, R. Agivey, ford at Ballynameen (C827148), 14 June 2008 (PHL). R. Macosquin, Black Bridge (C854256), 18 April 2004 and R. Bann, Coleraine (C854304), 7 June 2000 and 18 April 2010 all PHL (PHL). **DONEGAL: HA 37 -** R. Eanymore, Drumagraa Bridge (G863822), 10 August 1982 (Hayes, 1991)**: HA 39 -** R. Crana, Buncrana (C347328), 15 August 1982 (Hayes, 1991). Stagnant drain at L. Swilly, Newtown Cunningham (C311197), 21 June 2000 (Langton, 2002). **GALWAY: HA 26 -** R. Tirur, Newbridge (M492699), 16 August 1981 (Hayes, 1991).

KERRY: HA 18 - R. Blackwater, Lacknastooka (R153008), 2 September 1981 (Hayes, 1991)**: HA 21 -** R. Inny, Scarriff Bridge (V504696), 24 August 1983 (Hayes, 1991)**: HA 22 -** R. Flesk, d/s Whitebridge (V987900), 14 October 1978, PJA (Murray, 2005). **KILDARE: HA 9 -** pond, Lyons Estate, Celbridge (N972285), 29 March 1982 (DAM). **KILKENNY: HA 15 -** R. Nore, Ballyragget (S445707), Norelands Bridge (S547436) and Brownsbarn Bridge (S618391), 28 August 1981 (Hayes, 1991). **LAOIS: HA 15 -** R. Nore: Castletown Bridge (S326930); Kilbricken (S362898); Shanahoe Bridge (S407858) and u/s Durrow (S416787), 27 August 1981 also Athanagh (S423763), 28 August 1981, all BPH (Hayes, 1991). **LIMERICK: HA 25 -** R. Mulkear, d/s Cappamore (R779504) and Dromkeen Bridge (R741480), 8 September 1981 (Hayes, 1991). **MAYO: HA 32 -** R. Altahoney, Newport (F950050), 21 July 1975 (DAM)**: HA 34 -** R. Moy, Bellanacurra (G403047), 29 August 1982 (Hayes, 1991)**: Clare Island -** Creggan L., Lecarrow (L689857), July to October 1998 and June to September 1999 (Fahy, 2002). **MEATH: HA 6 -** R. Dee, Drumconrath (N910894), 27 July 1983 (Hayes, 1991)**: HA 7 -** R. Boyne: Ardsallagh, at St Bridget's Well (N897635), 30 May 1999 (Murray, 2005) and 28 September 1981; opposite R. Skane, d/s Bellinter Bridge (N895628), 3 May 1982 and Slane Bridge (N965737), 19 July 1989, all DAM (DAM). **OFFALY: HA 25 -** R. Little Brosna, Sharavogue (S056953) and New Bridge (N016088), 2 September 1982 (Hayes, 1991). **ROSCOMMON: HA 26 -** R. Suck: Castlecoote (M809627) 1 April 1981 and 16 July 1981, Ballyforan (M817464), 16 July 1981; Ballynoe (M693757) and d/s L. O'Flynn (M590804), 14 August 1981 (Hayes, 1991). L. O'Flynn, Ballinlough, south east shore (M585786), 28 March 1966 (Murray, 1972). **SLIGO: HA 34 -** R. Moy, Cloonacool (G493168) and Metal Bridge, Tobercurry (G464138), 30 August 1982 (Hayes, 1991). **TIPPERARY: HA 15 -** R. Nore, Clonakenny (S116805), Nore Bridge (S133816) and Quaker Bridge (S211868), 27 August 1981 (Hayes, 1991)**: HA 16 -** R. Drish, Castletown (S207634), 6 July 1992 (Murray and Lynch 1992). **WATERFORD: HA 18 -** R. Blackwater, Ballyduff (W964992), 31 August 1981 (Hayes, 1991). **WICKLOW: HA 12 -** R. Slaney, Stratford Bridge (S895930), 28 July 1981 (Hayes, 1991).

***Tanytarsus quadridentatus* Brundin, 1947**

CLARE: HA 27 - L. Bunny, Aughrim, south east shore (R377965), 7 June, 4 July and 5 September 2006, EPA (PHL). L. Cullaun, Corrofin, mid east shore (R317905), 7 June, 1 August and 5 September 2006, EPA (PHL/LPR). L. Muckanagh, Tubber, Corrofin, mid lake (R368926), 7 June, 3 July and 2 August 2006, EPA (PHL). **KERRY: HA 22 -** L. Leane, Killarney, Castlelough Bay, north shore (V966866), 27 June 1973, DJD/DAM (Murray, 2005; Douglas and Murray, 1980).

***Tanytarsus recurvatus* Brundin, 1947**

CLARE: HA 27 - L. Bunny, Aughrim, south east shore (R377965), 2 May, 7 June, 1 August 2006 and 5 September 2006 (EPA). **DONEGAL: HA 38 -** L. Kiltoris, Dawros, Ardara (G675976), 30 July 2009, EPA (DAM)**: HA 40 -** L. Fad, Coolmany (C398428), 15 June 2009, EPA (DAM). **GALWAY: HA 30 -** stream at layby on road N59, Moycullen (M204326), 25 May 2003 (Langton, 2004)**: HA 31 -** L. Anaserd, Ballyconneely (L605443), 6 June 2007, EPA (DAM). L. Ardderry, Maam Cross (L982458), 25 May 2003 (PHL). **KERRY: HA 21 -** L. Currane, Waterville (V535664), 22 July 2008, EPA (DAM). Eirk L., Derrygarriff (V881777), 9 August 2005, JRB (Murray, 2005)**: HA 22 -** L. Guitane, Crohane, Killarney (W025846), 8 July and 9 September 2008, EPA (DAM). Muckross Lake, Muckross, Killarney (V950853), 24 June 2008 and Upper Lake, Killarney (V909821), 24 June 2008, EPA (DAM).

***Tanytarsus signatus* (van der Wulp, 1859)**

CLARE: HA 27 - L. Bunny, Aughrim, south east shore (R377965), 7 June and 4 July 2006 (EPA). L. Muckanagh, Tubber, Corrofin, mid lake (R368926), 2 August 2006, EPA (PHL). **CORK: HA 21 -** L. Glenbeg, Ardgroom (V706530), 18 June and 3 September 2008, EPA (DAM). **DONEGAL: HA 36 -** L. Golagh, Ballyshannon (G965655), 8 June 2009, EPA (DAM). L. Unshin, Ballyshannon (G951637), 6 July 2009, EPA (DAM)**: HA 38 -** L. Keel, Crolly (B848162), 7 September 2009, EPA (DAM). L. Altercan, The Rosses (B755158), L. Nacung Upper, Dunlewy (B904191) and L. Veagh, north east shore near Visitor Centre, Glenveagh (C033223), 19 July 2000, all PHL (Langton, 2002)**: HA 39 -** R. Leannan, Drumaboden (C165218), 12 August 1982, BPH (Hayes, 1991; Murray, 2005). **GALWAY: HA 31 -** L. Ardderry, Maam Cross (L982458), 25 May 2003 (PHL). L. Illauntrasna, Glentrasna, Garomna (L888254), 25 July 2007, EPA (DAM). **KERRY: HA 21 -** Eirk L., Derrygarriff (V881777), 9 August 2005, JRB (DAM)**: HA 22 -** L. Acoose, Carrauntoohil (V755857), 17 July 1975 (DAM). L. Caragh, Killorglin (V719904), 20 June 2008, EPA (DAM). Killarney (V9589), 1928, FWE (Edwards 1929). R. Flesk, d/s Whitebridge (V987900), July 1976 (Ashe, 1982). **MAYO: HA 34 -** L. Alone, Ox Mountains (G367157), 5 August 2005, JRB/MC (DAM)**: Clare Island -** first order stream, west side of Maum road (L711861), 5 June 2002 (Murray, 2005; Murray and Murray 2003). Fawnglass stream (L713854), 4 June 2002; Roadside, Bayview Hotel (L716856) and Sea Coast, Bayview Hotel (L717857), 20 August 2002, all DAM/WM (Murray and Murray, 2003). L. Poirtin Fuinch (L706857), 1 September 1998 and 10 June 1999 (Fahy, 2002). **ROSCOMMON: HA 26 -** L. Key, Boyle (G838057), 6 August 2008, EPA (DAM). **TYRONE: HA 1 -** L. Oak, Gortin, Newtownstewart (H498843) and inflow stream to L. Oak (H498842), 16 August 2011 (PHL). **WESTMEATH: HA 26 -** L. Ree, Quigleys Marina, Killinure (N051601), 15 June 1999 (DAM). L. Killinure, Wineport (N067458), 15 August 2007,

EPA (DAM). **WICKLOW: HA 9 -** Pollaphuca Reservoir, Blessington Bridge (N990144), 17 June 2000, DAM/WM (DAM).

***Tanytarsus striatulus* Lindeberg, 1976**
CLARE: HA 27 - L. Bunny, Aughrim, south east shore (R377965), 7 June 2006, (EPA). **DONEGAL: HA 38 -** L. Altercan, The Rosses (B755158) and L. Voriskey, The Rosses (B762176), 19 July 2000 (Langton, 2002). **KERRY: HA 21 -** Eirk L., Derrygarriff (V881777), 9 August 2005, JRB (DAM). **MAYO: HA 33 -** bog pool, Achill Island (F712008), 5 August 2004, DAM/WM (DAM) and pool at Camport, Achill Island (L677982), 29 September 2004, DAM/WM (Murray, 2005). **MEATH: HA 7 -** R. Boyne - opposite R. Skane, d/s Bellinter Bridge (N895628), 3 May 1982 (DAM). R. Blackwater, Bloomsbury Bridge, Oristown (N793741), 19 August 1988 (Murray, 1988).

***Tanytarsus sylvaticus* (van der Wulp, 1859)**
CAVAN: HA 26 - L. Sheelin, Kilnahard (N435860), 23 March 1974, JPOC (DAM) and 28 March 1983 (Murray, 2005). **DERRY: HA 3 -** L. Neagh (H9080), no date (McLarnon and Carter, 2000). **KILDARE: HA 9 -** pond, Lyons Estate, Celbridge (N973288), 2 April 1984, CAD (DAM). **MONAGHAN: HA 36 -** L. Drumlona, Rockcorry (H636176), 4 April 2007, EPA (DAM).

***Tanytarsus telmaticus* Lindeberg, 1959**
Synonym *Tanytarsus simulans* Lindeberg, 1967; Pe 9 in Langton (1991)
ANTRIM: HA 4 - Dungonnell Dam, Newtown Crommelin (D193170), 20 June 2000 (Langton, 2002)**: Rathlin Island -** lough in Nature Reserve (D095505) and pool 2, east of lighthouse (D164520), 24 July 2000 (Langton, 2002); pool at lighthouse (D163520), 24 July 2000 (Langton, 2004): L. Ally (D154497) and Ushet L. (D154485), 5 July 2004 (PHL). **CAVAN: HA 36 -** L. Garty, Arvagh (N278978), 18 July 2007, EPA (DAM). **CLARE: HA 27 -** L. Cullaun, Corrofin, mid east shore (R317905), 7 June 2006 and L. Muckanagh, Tubber, Corrofin, mid lake (R368926), 2 May 2006, EPA (LPR). **DERRY: HA 3 -** L. Neagh, Ballyronan (H948862), 4 July 2000 and 15 July 2002 (PHL). **DONEGAL: HA 37 -** Carn L., Blue Stack Mountains (G871886), 27 July 2005, JRB (DAM)**: HA 37 -** L. Shinvagh, Carricode (H005675), 27 April 2002 (PHL)**: HA 38 -** L. Mulladerg, The Rosses (B775199); L. Anure, Loughanure (B817166); L. Nacung Upper, Dunlewy (B904191); L. Voriskey, Rosses (B762176) and L. Veagh, north east shore near Visitor Centre, Glenveagh (C033223), all 19 July 2000, all PHL (Langton, 2002). L. Nabuckan, Grogan More (B850184), 10 May and 27 July 2005, JRB (DAM). **FERMANAGH: HA 36 -** L. Atona, Cuilcagh Mountain (H110294); R.

Belbarrinagh, Belcoo (H112309) and R. Sruh Croppa, Cuilcagh Mountain (H111329), 29 June 2000 (Langton, 2002). **GALWAY: HA 29 -** L. Rea, Loughrea, east shore (M624153), 25 May 2003 and L. Cutra, Gort (R485986), 24 May 2003 (PHL). **LEITRIM: HA 26 -** L. Natire, north of L. Allen (G966340), 3 August 2005, JRB/MC (DAM)**: HA 35 -** L. Nabrack, Crocknagapple (G860477), 4 August 2005, JRB/MC (DAM). **MAYO: HA 32 -** L. Fin, Delphi (L841657), 19 May 2005, EPA (DAM)**: HA 33 -** L. Bunacurry, Achill Island (F695048), 29 September 2004, DAM/WM (DAM). **TIPPERARY: HA 18 -** Black L., Arra Mountains (R738771), 10 August 2005, JRB (DAM).

***Tanytarsus usmaensis* Pagast, 1931**

ANTRIM: HA 3 - L. Neagh, Antrim Bay (J135866), 22 August 2001 (PHL)**: Rathlin Island** – L. Ally (D154497), 24 July 2000 (Langton, 2002). **ARMAGH: HA 3 -** L. Neagh, Oxford Island, Lurgan (J044621), 18 July 2003 (Langton, 2012). **CAVAN: HA 7 -** L. Mullagh**,** Mullagh (N680856) 9 May 1994 (DAM)**: HA 36 -** R. Erne, Kilsarin (N362910), 27 August 1982, BPH (Hayes, 1991; Murray, 2005). **CLARE: HA 27 -** L. Muckanagh, Tubber, Corrofin, mid lake (R368926), 3 July 2006, EPA (PHL). **DERRY: HA 1 -** Lower Reservoir, Creggan, Derry (C422174), 26 April 2001 and Upper Reservoir, Creggan, Derry (C417173), 10 May 2001 (PHL)**: HA 3 -** R. Bann, Coleraine (C854304), 2 May 2010 (PHL). L. Neagh (H9080), no date (McLarnon and Carter, 2000). **DONEGAL: HA 36 -** L. Avehy, Belalt (H043664), 27 April 2002 (PHL)**: HA 37 -** L. Shinvagh, Carricode (H005675), 27 April 2002 (PHL)**: HA 38 -** L. Mulladerg, The Rosses (B775199), 19 July 2000 (Langton, 2002). L. Nabuckan, Grogan More (B850184), 10 May 2005, JRB (DAM)**: HA 40 -** L. Naminn, Cloonmany (C400423) and L. Fad, Rowantree Hill, Moville (C539397), 18 August 2011 (PHL). **FERMANAGH: HA 36 -** L. Erne Lower, Black Bay (H072639), 27 April 2002 and Brocagh Point, Boa Island (H108626), 17 August 2011 (PHL). R. Finn, Lisnanesnagh Bridge (H544337), 26 June 2000 (Langton, 2002). Toppedmountain L., Tempo, Enniskillen (H310453), 16 August 2011 (PHL). **KILDARE: HA 9 -** pond, Lyons Estate, Celbridge (N973288), 2 April 1984, CAD (DAM). **MAYO: HA 32 -** L. Knappabeg, Westport (M010803), 18 September 2008, EPA (DAM). **MEATH: HA 7 -** R. Boyne, New Bridge, Navan (N873679), 18 August 1988 (Murray, 1988). **OFFALY: HA 25 -** bog lake 2, Turraun (N150230), 3 June 1999 (DAM). **WESTMEATH: HA 25 -** L. Owel, Mullingar (N421566), May 1973, NH (Hayes, 1980) and 1981 (Forde, 1985)**: HA 26 -** L. Derravarragh, Crookedwood (N468631), 20 August 1981 (Murray, 2005)**: HA 36 -** L. Bane, Collinstown (N550712), 26 June 2006 (EPA).

***Tanytarsus verralli* Goetghebuer, 1928**

ANTRIM: HA 3 - L. Neagh, Churchtown Point (J056852), 22 August 2001 (Langton, 2012).

ARMAGH: HA 3 - L. Neagh, Oxford Island, Lurgan (J044621), 18 August 2003 (Langton, 2012). **CLARE: HA 27 -** L. Bunny, Aughrim, south east shore (R377965), 7 June and 4 July 2006 (EPA). L. Cullaun, Corrofin, mid east shore (R317905), 1 August 2006 and L. Muckanagh, Tubber, Corrofin (R368926), 2 August 2006, EPA (PHL). **DERRY: HA 3 -** Balinrees Reservoir, Coleraine (C794300), 9 June 2000 (Langton, 2002). L. Neagh (H9080), no date (McLarnon and Carter, 2000); L. Neagh, Ballyronan (H948862), 1988 (Tokeshi, 1990) also August 2001 (Langton, 2012) and 22 and 31 May 2011 (PHL). **DONEGAL: HA 38 -** L. Altercan, The Rosses (B755158) and L. Voriskey, The Rosses (B762176), 19 July 2000, 19 July 2000 (Langton, 2002, 2012). L. Dunglow, The Rosses (B787117) and R. Gweedore at L. Anure outflow, Crolly (B827184), 19 July 2000 (Langton, 2002). **FERMANAGH: HA 36 -** Toppedmountain L., Tempo, Enniskillen (H310453), 16 August 2011 (Langton, 2012). **GALWAY: HA 29 -** L. Rea, Loughrea, east shore (M624153), 25 May 2003 (PHL)**: HA 30 -** L. Corrib - General, Derrenmeel, west shore (M150450), 1980, BC (DAM). L. Ross, Moycullen (M200363), 25 May 2003 (Langton, 2012). R. Owenriff, Oughterard (M112426), 25 May 2003 (Langton, 2012). L. Adrehid, Oughterard (M055428), 25 May 2003 (Langton, 2012). **OFFALY: HA 25 -** bog lake 1, Turraun (N172185), 6 June 1998 (DAM); bog lake 2, Turraun (N150230), 3 June 1999 (Murray, 2005). **WATERFORD: HA 17 -** Belle Lake, Dunmore East (S667048), 7 July 1974, DJD (DAM).

***Virgatanytarsus arduennensis* (Goetghebuer, 1922)**

CARLOW: HA 12 - R. Slaney, Kildavin (S899597), 29 July 1981, BPH (Hayes, 1991; Murray, 2005). **DERRY: HA 3 -** paddling pool, Kylebeg, Coleraine (C856304), 6 and 28 August 2002 (PHL). **GALWAY: HA 26 -** R. Tirur, Newbridge (M492699), 20 August 1983 (Hayes and Murray, 1989)**: HA 31 -** L. Nahasleam, Maam Cross (L972440), 17 May 2005, EPA (DAM). **MAYO: HA 32 -** R. Altahoney, Newport (F950050), 1968-1971, EF (Fahy and Murray, 1972). **MEATH: HA 7 -** R. Boyne: Bellinter Bridge (N894625), 18 June 1968 (Murray, 1972 - sub *Tanytarsus arduennensis*); Ardsallagh, at St Bridget's Well (N897635), 30 May 1999 (DAM); Kilcarn Bridge, Navan (N884657), 21 August 1988 (Murray, 1988); Slane Bridge (N965737) and Knowth Weir (N995720), 19 July 1989 (DAM); R. Skane, Dalgan Park, Navan (N901626), 23 May 2015 (Murray, 2015a). **ROSCOMMON: HA 26 -** R. Suck, Ballyforan (M817464), 28 July 1982, BPH (Murray, 2005) and 20 August 1983 (Hayes and Murray, 1989). **WESTMEATH: HA 25 -** L. Owel, Mullingar (N421566), 31 July 1973, NH/BPH (DAM).

***Virgatanytarsus triangularis* (Goetghebuer, 1928)**

CAVAN: HA 7 - R. Barora tributary, Relaghbeg (N679907), 23 May 1968 (Murray, 1972 - sub *Tanytarsus triangularis*). **CLARE: HA 27 -** Castle Lake, west shore, Kilmurry, Sixmilebridge

(R482691), 17 September 2009, EPA (DAM). **DONEGAL: HA 38 -** Glenveagh National Park: R. Owencarrow (C041229), 22 July 1985 and R. Owenveagh, Glenveagh Cottage (B990178), 28 July 1985; L. Veagh, in foam along north east shore, Glenveagh (C038233) and (C039230), 24 July 1985; Administration Centre, at light, GNP (C041228), 28 August 1985, all LJH (Heneghan, 1986; Murray, 2005). **GALWAY: HA 29 -** L. Rea, Loughrea, east shore (M624153), 25 May 2003 (PHL)**: HA 30 -** L. Corrib, Lower, Hurney's west shore (M258310), 26 August1980, BC (DAM). L. Ross, Moycullen (M200363), 25 May 2003 (PHL). **KERRY: HA 22 -** R. Clydagh, Caherbarnagh (W202842) and Knocknagowan (W187837), June to August 1978 (Ashe, 1982). R. Flesk; d/s Clydagh/Loo confluence (W084814); Garries Bridge (W082835); Flesk Bridge (W034876), June to August 1978 (Ashe, 1982); d/s Whitebridge (V987900), 27 July 1976 and June to August 1978 (Ashe, 1982). R. Loo, Aughnanus Bridge, Crohane (W045790), June to August 1978 (all Ashe, 1982 - specimen from d/s Clydagh/Loo confluence, 10 August 1978 in NMI). **MAYO: HA 32 -** R. Bunowen, Louisburg, u/s bridge (L807807), 5 August 2004 and R. Owengarve, Rosgalliv Bridge, Mulranny (L886962), 4 August 2004, DAM/WM (DAM). **MEATH: HA 8 -** R. Nanny, Duleek (O050683), 6 June 2006, DAM/WM (DAM). **TIPPERARY: HA 16 -** R. Suir, Rossestown Bridge (S134624), September 1991 and 6 July 1992 (Murray and Lynch, 1992). **WESTMEATH: HA 25 -** L. Ennell, Tudenham (N415466), 26 June to 24 August 1966 (Murray, 1972).

***Virgatanytarsus* Pe1 sensu Langton and Visser, 2003**

Three species are represented by this pupal morphotype in Langton (1991) and Langton and Visser (2003). It is not yet possible to discriminate with certainty between *Virgatanytarsus arduennensis*, *V. triangularis* and *V. albisutus.* The latter is thus far is only known from Macaronesia and some Mediterranean countries (Sæther and Spies, 2013). Some of the following distribution records of *Virgatanytarsus* Pe1, representing either *V. arduennensis* or *V. triangularis,* coincide with discrete species records presented above while other records extend the known distribution of the genus in Ireland.

CLARE: HA 27 - L. Bunny, Aughrim, south east shore (R377965), 7 June and 5 September 2006 (EPA). Castle Lake, west shore, Kilmurry, Sixmilebridge (R482691), 17 September 2009, EPA (DAM). **CARLOW: HA 12 -** R. Slaney, Kildavin (S899597), 29 July 1981, BPH (Hayes, 1991; Murray, 2005). **DONEGAL: HA 38 -** L. Nadourcan, Glenveagh (C054228) and R. Owencarrow, d/s road bridge, Glenveagh (C043235), 18 July 2000; Owennacally stream, Glenveagh (C043226) and R. Gweedore, outflow from L. Anure, Crolly (B827184), 19 July 2000, all PHL (Langton, 2002). L. Veagh, in foam along north east shore, Glenveagh (C038233) and (C039230), 24 July 1985, (LJH) and R. Owenveagh, Glenbeagh Cottage, Glenveagh (B990178), 30 July 1985 (Heneghan, 1986). **FERMANAGH: HA 35 -** L. Melvin,

Garrison (G938518), 29 June 2000 (Langton, 2002). **GALWAY: HA 31 -** L. Nahasleam, Maam Cross (L972440), 17 May 2005, EPA (DAM). **MEATH: HA 7 -** R. Boyne: Bellinter Bridge (N894625), 18 August 1968 (Murray, 1972) and 21 August 1988 (Murray, 1988); Kilcarn Bridge, Navan (N884657), 21 August 1988; New Bridge, Navan (N873679), 18 August 1988; Stackallen Bridge (N917713), 17 August 1988 (Murray, 1988) and 19 July 1989 (DAM); Slane Bridge (N965737), 19 July 1989 (DAM). R. Blackwater, Poolboy Bridge, Navan (N871681), 18 August 1988; Bloomsbury Bridge, Oristown (N793741) and Donaghpatrick (N819723), 19 August 1988 (Murray, 1988)

***Zavrelia pentatoma* Kieffer and Bause, 1913**

DONEGAL: HA 37 - R. Eany, d/s Eanybeg confluence (G842815), 10 August 1982, BPH (Murray, 1996). **GALWAY: HA 29 -** L. Cutra, Gort (R485986), 24 March 2003 (PHL). **MAYO: HA 32 -** L. Roonagh, Carrowinsky (L749759), 30 September 2004 (DAM). Pond, Laghta, west side of road (L845759), 7 May 2004 (DAM)**: Clare Island -** Creggan L., Lecarrow (L689857), 21 August 2002 (Murray and Murray, 2003).

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FIGURE 1. The counties of Ireland.

FIGURE 2. The forty hydrometric areas of Ireland. Heavy lines illustrate demarcations of designated River Basin Districts (Water Resource Regions) consisting of hydrometric areas as follows: **North Western** - HA 01, 02, 36, 37, 38, 39, 40. **Neagh-Bann** - HA 03 and 06. **North Eastern** - HA 04 and 05. **Eastern** - HA 07, 08, 09, 10. **South Eastern** - HA 11, 12, 13, 14, 15, 16, 17. **South Western** - HA 18, 19, 20, 21, 22. **Shannon** - HA 23, 24, 25, 26, 27, 28. **Western** - HA 29, 30, 31, 32, 33, 34, 35. Dashed line indicates the international boundary.