ADDENDUM TO “A REVIEW OF THE IRISH JUMPING PLANT-LICE (HEMIPTERA: PSYLLOIDEA)”

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Abstract
New records of Irish Psylloidea are provided based on slide-mounted specimens in the collections of the Natural History Museum, London. Both Cacopsylla (Hepatopsylla) brunneipennis (Edwards, 1896) and C. (Thamnopsylla) rhamnicola (Scott, 1876) were recorded without details in the review of the Irish fauna by O’Connor and Malumphy (2011). The London material has provided records for these two species. In addition, new data are provided for another 14 species. Altogether, a total of 18 new county records are listed. The possibility is also discussed that Cacopsylla (Thamnopsylla) alaterni may have been collected by A. H. Haliday in the west of Ireland.

Key words: Psylloidea, Hemiptera, Ireland, checklist, new county records, jumping plant-lice, Cacopsylla alaterni, Cacopsylla brunneipennis, Cacopsylla rhamnicola.

Introduction
O’Connor and Malumphy (2011) reviewed the Irish psyllid (Hemiptera) fauna. A checklist was provided of the 50 known species along with new distributional data. However, it was only possible to report both Cacopsylla brunneipennis (Edwards, 1896) and C. rhamnicola (Scott, 1876) from Ireland without any other details. Their occurrence was mentioned in Hodkinson and White (1979) but no records were cited. Since the publication of the review, little research has been carried out on the group on the island. However, O’Connor (2012) did report the first Irish male of Craspedolepta nebulosa (Zetterstedt, 1828), a species previously only known from nymphs. As there have been some nomenclatural changes since O’Connor and Malumphy (op. cit.), a revised checklist is given (Appendix 1).

While preparing the information contained in O’Connor and Malumphy (op. cit.) for inclusion in a psyllid dataset for the National Biodiversity Data Centre, JPOC came across photographs of Irish specimens mounted on slides and housed in the Natural History Museum, London, through the Global Biodiversity Information Facility (GBIF) <https://www.gbif.org>. 

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This material provided new data for 16 of the known Irish species including 18 new county records. Most important, records were found for *Cacopsylla brunneipennis* and *C. rhamnicola*. The vast majority of specimens were identified by David Hollis of the Natural History Museum, London. Many were also collected by him during a visit to Ireland in 1976.

The possibility is also discussed that *Cacopsylla (Thamnopsylla) alaterni* may have been collected by A. H. Haliday in the west of Ireland.

The records

*Aphalara exilis* (Weber and Mohr, 1804) (Fig. 1)

**KERRY:** Dereenacullig near the Horses Glen (W0081), 1♂ 2 ♀ 5 August 1976, *Calluna/Ulex* stand, collected and determined D. Hollis.

**WEXFORD:** Saltee Island Great (X9596), 1♂ 2 June 1976, swept, collected M. C. D. Speight, determined D. Hollis.

This is the first record of *Aphalara exilis* from an Irish offshore island.

*Cacopsylla (Cacopsylla) mali* (Schmidberger, 1836)

**DUBLIN:** Dundrum (O1628), 3♀♀ 11 August 1976, collected and determined D. Hollis.

**KERRY:** Tomies Wood (V9088), 1♂ 3♀♀ 6 August 1976, *Malus sylvestris*, collected and determined D. Hollis.

During the last 100 years, there has only been one other Irish record of *Cacopsylla mali* when it was found in Trinity College, Dublin, in 2011. All the other records are older.

*Cacopsylla (Cacopsylla) peregrina* (Foerster, 1848) **New to County Cork**

**CORK:** near Carran (V9957), 1♂ 3 August 1976, *Quercus*, collected and determined D. Hollis.

**DUBLIN:** Dundrum (O1628), 1♂ 11 August 1976, collected and determined D. Hollis.

*Cacopsylla (Cacopsylla) sorbi* (Linnaeus, 1767) **New to County Cork**

**CORK:** Rossnagrena (V8859), 3♂♂ 3♀♀ 4 August 1976, *Sorbus aucuparia*, collected and determined D. Hollis.

*Cacopsylla (Hepatopsylla) ambiguia* (Foerster, 1848) **New to County Cork**

**CORK:** Rossnagrena (V8859), 1♀ 4 August 1976, *Salix*, collected and determined D. Hollis.

**KERRY:** Muckross Wood (V9686), 3♂♂ 2♀♀ 7 August 1976, collected and determined D. Hollis.
Cacopsylla (Hepatopsylla) brunneipennis (Edwards, 1896) New to Counties Kerry and Wicklow (Fig. 2, Plates 1-2)

KERRY: Lough Guitane (W0385), 1♀ 7 August 1976, Betula, collected and determined D. Hollis; Tomies Wood (V9088), 3♂ 6 August 1976, Picea, collected and determined D. Hollis.

WICKLOW: Knocksink Wood (O2117), 3♀ 12 August 1976, Salix, collected and determined D. Hollis.

This species was only recorded from “Ireland” by O’Connor and Malumphy (2011). Cacopsylla brunneipennis is a complex species with two colour morphs - the forms typica (brown wings) and klapaleki (clear wings)

Cacopsylla (Hepatopsylla) pulchra (Zetterstedt, 1840) New to County Kerry

KERRY: Tomies Wood (V9088), 1♂ 6 August 1976, Salix, collected and determined D. Hollis.

Cacopsylla (Hepatopsylla) saliceti (Foerster, 1848) New to County Cork

CORK: near Carran (V9957), 5♂ 3 August 1976, Crataegus and Salix, collected and determined D. Hollis; Rossnagrena (V8859), 1♂ 4 August 1976, Salix, collected and determined D. Hollis.

WEXFORD: The Raven (T1124), 3♂ 25 May 1975, collected M. C. D. Speight, determined D. Hollis.

Cacopsylla (Thamnopsylla) alaterni (Foerster, 1848)

Cacopsylla alaterni was described as Psylla alaterni by Foerster (1848) based on inter alia two ♂♂ sent by A. H. Haliday under the manuscript name alaterni. Walker (1852) also mentioned Haliday material. O’Connor and Malumphy (2011) considered that this record required confirmation. The host plant is Rhamnus alaternus popularly known as Mediterranean or Italian buckthorn and as the name implies, it is a native of the Mediterranean region. Although it has been cultivated in British gardens since 1629, there appears to be only one subsequent record of Cacopsylla alaterni from R. alaternus in the British Isles. It is known that Haliday spent most of the years 1841-1848 in Italy (Nash and O’Connor, 2011) and there was a possibility that he had sent Italian specimens to Foerster from Ireland. However, prior to 1836, Haliday spent time collecting insects in Galway in the west of Ireland and provided parasitic wasps from there to Francis Walker (O’Connor et al., 2004). As R. alaternus has become naturalised in an area near Lough Corrib not far from Galway City (grid reference M2-4-) (Anon, 2020), it is now possible that Haliday collected the psyllids in the garden of a demense or estate in that locality.
Cacopsylla (Thamnopsylla) crataegi (Schrank, 1801) New to County Cork (Fig. 3)
CORK: near Carran (V9957), 3♂5♀♀ 3 August 1976, Quercus, collected and determined D. Hollis.

Cacopsylla crataegi was previously only known in Ireland from a male taken at Lough Bunny, County Clare (O’Connor and Malumphy, 2011).

Cacopsylla (Thamnopsylla) melanoneura (Foerster, 1848) New to Counties Cork and Kerry
CORK: near Carran (V9957), 2♂1♀ 3 August 1976, Quercus, collected and determined D. Hollis.
KERRY: Lough Guitane (W0385), 1♀ 7 August 1976, Betula, collected and determined D. Hollis.

Cacopsylla (Thamnopsylla) rhamnicola (Scott, 1876) New to County Clare (Fig. 4)
CLARE: Dromore Forest (R3585), 5♂4♀♀ 5 August 1976, Euonymus and Rhamnus cathartica, collected and determined D. Hollis.

This species was only recorded from “Ireland” by O’Connor and Malumphy (2011).

Chamaepsylla hartigii (Flor, 1861)
KERRY: Lough Guitane (W0385), 3♀♀ 7 August 1976, Betula, collected and determined D. Hollis.

Strophingia ericae (Curtis, 1835) New to County Cork
CORK: Glengariff Wood (V9156), 6♂3♀♀ 3-4 August 1976, Calluna vulgaris, collected and determined D. Hollis.

Psyllopsis fraxinicola (Foerster, 1848) New to Country Antrim
ANTRIM: Portmore Harbour (C4258), ♂♀, August 1903 collected J. N. Halbert, determined J. P. O’Connor.

The locality for the above record is given as Portmore, County Donegal, in O’Connor and Malumphy (2011) as only “Portmore” was given on the label. However from Halbert (1935), it is evident that “Portmore” refers to Portmore Lough in County Antrim.

Bactericera crithmi (Low, 1877) New to County Cork
CORK: Seal Harbour (V9052), 2♂♂ 10 July 1952, samphire, collected C. A. Prevost, determined I. D. Hodkinson.

Trioza remota Foerster, 1848 New to Counties Cork and Galway
CORK: Glengarriff Forest (V9157), 1♀ 18 April 1975, swept in Quercus woodland, collected M. C. D. Speight, determined D. Hollis.
DUBLIN: Dundrum (O1627), 2♀♀ 23 April 1976, swept in garden, collected M. C. D. Speight, determined D. Hollis.
GALWAY: Derryclare Nature Reserve (L8349), 1♀ 12 March 1975, from Taxus, deciduous wood, collected M. C. D. Speight, determined D. Hollis.
**Trioza urticae** (Linnaeus, 1758) New to Counties Clare and Gaway

**CLARE:** Lough Inchiquin (R2690), 6 adults 8 August 1976, *Urtica dioica*, collected and determined D. Hollis.

**CORK:** near Carran (V9957), 12 adults 3 August 1976, *U. dioica*, collected and determined D. Hollis.

**GALWAY:** Garryland Wood (M4206), 5 adults 10 August 1976, *U. dioica*, collected and determined D. Hollis.


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**References**


**APPENDIX 1.** A revised checklist of the Irish Psylloidea.

**PSYLLOIDEA**

**APHALARIDAE LÖW, 1879**

1. *Aphalara exilis* (Weber & Mohr, 1804)
2. *Aphalara polygoni* Foerster, 1848
   Synonym: *Aphalara poligoni* (Shinji, 1938)
3. *Aphalara ulicis* Foerster, 1848
4. *Craspedolepta flavipennis* (Foerster, 1848)
5. *Craspedolepta nebulosa* (Zetterstedt, 1828)
6. *Craspedolepta nervosa* (Foerster, 1848)
   Synonym: *Aphalara nervosa* Foerster, 1848
7. *Craspedolepta sonchi* (Foerster, 1848)
   Synonym: *Aphalaria picta* Zetterstedt, 1828
8. *Ctenarytaina eucalypti* (Maskell, 1890)
11. *Neocraspedolepta subpunctata* (Foerster, 1848)
   Synonym: *Craspedolepta subpunctata* (Foerster, 1848)

**LIVIIDAE LÖW, 1879**

12. *Livia junci* (Schrank, 1789)
   Synonym: *Livia juncorum* (Latreille, 1798)
13. *Livilla ulicis* Curtis, 1836
14. *Psyllopsis discrepans* (Flor, 1861)
15. *Psyllopsis distinguenda* Edwards, 1913
16. *Psyllopsis fraxini* (Linnaeus, 1758)
17. *Psyllopsis fraxinicola* (Foerster, 1848)
18. *Strophingia ericae* (Curtis, 1835)
PSYLLIDAE LATREILLE, 1807

19. *Arytaina genistae* (Latreille, 1804)
   Synonym: *Arytaena genistae* Latreille, 1804

20. *Arytainilla spartiophila* (Foerster, 1848)
   Synonym: *Psylla partii* Guérin-Méneville, 1843

21. *Baeopelma foersteri* (Flor, 1861)

22. *Cacopsylla* (*Cacopsylla*) *mali* (Schmidberger, 1836)
   Synonym: *Psylla aeruginosa* Foerster, 1848
   Synonym: *Psylla occulta* Foerster, 1848

23. *Cacopsylla* (*Cacopsylla*) *peregrina* (Foerster, 1848)

24. *Cacopsylla* (*Cacopsylla*) *sorbi* (Linnaeus, 1767)

25. *Cacopsylla* (*Hepatopsylla*) *ambigua* (Foerster, 1848)


27. *Cacopsylla* (*Hepatopsylla*) *hippophae* (Foerster, 1848)

28. *Cacopsylla* (*Hepatopsylla*) *pulchra* (Zetterstedt, 1840)

29. *Cacopsylla* (*Hepatopsylla*) *pyri* (Linnaeus, 1758)

30. *Cacopsylla* (*Hepatopsylla*) *pyricola* (Foerster, 1848)
   Synonym: *Psylla apiophila* Foerster, 1848

31. *Cacopsylla* (*Hepatopsylla*) *saliceti* (Foerster, 1848)
   Synonym: *Psylla salicicola* Foerster, 1848 partim

32. *Cacopsylla* (*Thamnopsylla*) *alaterni* (Foerster, 1848)

33. *Cacopsylla* (*Thamnopsylla*) *crataegi* (Schrank, 1801)
   Synonym: *Psylla costatopunctata* Foerster, 1848

34. *Cacopsylla* (*Thamnopsylla*) *melanoneura* (Foerster, 1848)
   Synonym: *Psylla costalis* Flor (partim)

35. *Cacopsylla* (*Thamnopsylla*) *pruni* (Scopoli, 1763)
   Synonym: *Psylla fumipennis* Foerster, 1848

36. *Cacopsylla* (*Thamnopsylla*) *rhamnicola* (Scott, 1876)

37. *Chamaeopsylla hartigii* (Flor, 1861)

38. *Psylla* (*Asphagidella*) *buxi* (Linnaeus, 1758)

39. *Psylla* (*Psylla*) *alni* (Linnaeus, 1758)
   Synonym: *Psylla fuscinervis* Foerster, 1848
   Synonym: *Psylla heydeni* Foerster, 1848

40. *Psylla* (*Psylla*) *betulae* (Linnaeus, 1758)

41. *Spanioneura fonscolombii* Foerster, 1848
TRIOZIDAE LÖW, 1879

42. *Bactericera albiventris* (Foerster, 1848)
43. *Bactericera crithmi* (Löw, 1877)
44. *Bactericera curvatinervis* (Foerster, 1848)
45. *Lauritrioza alacris* (Flor, 1861)
   Synonym: *Trioza alacris* Flor, 1861
46. *Powellia vitreoradiata* Maskell, 1879
   Synonym: *Trioza vitreoradiata* (Maskell, 1879)
47. *Trioza galii* Foerster, 1848
   Synonym: *Trioza velutina* Foerster, 1848
48. *Trioza munda* Foerster, 1848
49. *Trioza remota* Foerster, 1848
50. *Trioza urticae* (Linnaeus, 1758)
FIGURES 1-2. The known Irish distributions of *Aphalara exilis* (Weber & Mohr, 1804) and *Cacopsylla brunneipennis* (Edwards, 1896). The island record of *A. exilis* is indicated by an arrow.

FIGURES 3-4. The known Irish distributions of *Cacopsylla crataegi* (Schrank, 1801) and *C. rhamnicola* (Scott, 1876). The new record of *C. crataegi* is indicated by an arrow.