Liposcelis pubescens (Psocoptera: Liposcelididae): an under-recorded British booklouse in Glasgow, Scotland

R.B. Weddle

89 Novar Drive, Glasgow G12 9SS
E-mail: richard@cano.plus.com

Booklice and barklice (Psocoptera) are small to minute insects (Fig. 1), some with wings and others without, that live in vegetation or among dried materials. The subject of this Short Note – the booklouse Liposcelis pubescens Broadhead, 1947 - was first found on “dusty shelves and old paper” at the Biology Field Station cellar at Slough, Berkshire, England on 10th March 1943 (the type locality), and again on 16th April that year at Millwall Central Granary, London. The specimens are in the spirit collection at the Natural History Museum (NHM) in London (P. Brown, pers. comm.).

![Image of Liposcelis sp.](https://creativemedia.org/licenses/by-sa/4.0/deed.en)

NHM also have specimens from a London SW11 “household” on 14th October 1980 and from Camelford, Cornwall, England in an egg custard mix from 1981. There are no occurrences shown on the NBN Gateway (NBN, 2021), and there are no specimens in the collections at the National Museum of Scotland (NMS), though they have the records and collection donated by the late organiser of the U.K. Psocoptera recording scheme, Bob Saville (A. Whiffin, pers. comm.)

It is therefore surprising to be able to report the presence of thriving populations of L. pubescens in a kitchen cupboard at the author’s address (see above) in October 2019 during renovations. The populations were in an opened, but long-neglected, bag of plain flour (best-before date 2014), and a partly-used packet of vegetable suet of similar age. In both, the presence of the booklice was signalled by a layer of “caking” on the top surface of the contents of the packets, though there were also vacated lepidopteran pupae in the flour.

Having identified the insect to genus level, I sent the specimens, as advised by the identification key (BRC, 2019) to Charles Lienhard, an Honorary Curator of Arthropoda at the Geneva Museum, Switzerland. I sent about a dozen specimens, which Dr Lienhard identified as L. pubescens; both males and females were present. Further specimens from the same populations were donated to the Hunterian Museum in Glasgow.

This seems to be another example of an under-recorded species, though from a generally under-recorded taxonomic order in the U.K. Turner & Bishop (1998) examined 727 yeast trap samples from households throughout the U.K.; of these households, 186 had L. bostrychophila, which is a common pest of stored products, whereas only two specimens of L. pubescens were found during the survey. This demonstrates the relative rarity of the latter across the U.K. It is rather small (ca. 1 mm in length) and wingless; the better-recorded species of barklce tend to be winged and found outdoors on trees, as the alternative common name “barkfly” would suggest. However, the common name “booklouse” generally refers to the wingless indoor species, particularly of the genus Liposcelis, which are typically found feeding on books, particularly on the starch used in the bindings, or on moulds growing in the bindings, though they are also known as pests of stored food products (Turner, 1994).

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REFERENCES
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