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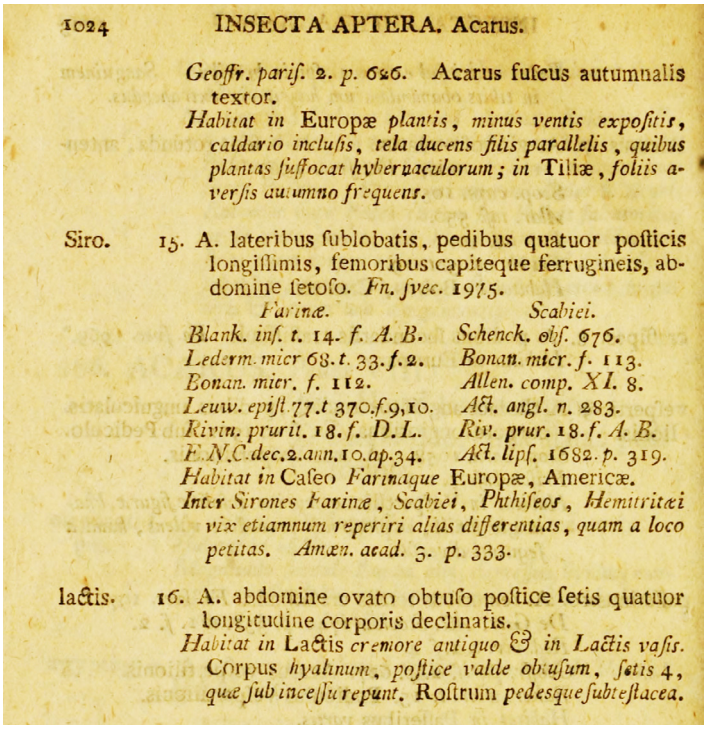
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New Zealand records of *Carpoglyphus lactis* (Acari: Carpoglyphidae)

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The Carpoglyphidae is a small family of two genera and six species (Schatz *et al.* 2011) and five of the species are in the genus *Carpoglyphus* (Clark *et al*. 2010). The dried fruit mite, *Carpoglyphus lactis* L., has received renewed interest in recent years due to its role as an alternative food for predatory mites in the Phytoseiidae that are used in biological control (Baxter *et al.* 2011). In New Zealand, there has been interest by the biocontrol industry to import this species into New Zealand for mass-rearing of predatory mites. However, there has been some confusion about the presence of this species in New Zealand. In this short note, I clarify its nomenclatural status and also its New Zealand records.

Nomenclatural status. This species was credited to Linnaeus, 1758 by many authors (e.g. Hughes 1976; Fain & Rack 1987; Hubard & Fashing 1996; Fan *et al.* 2010), and also to Linnaeus 1767 by others (Halliday 1998; Sirvid *et al.* 2011). A check of the original texts of Linnaeus (1758, 1767) confirms that it is the latter (see Fig. 1 below).



1024 INSECTA APTERA. Acarus.

Geoffr. pariſ. 2. p. 626. Acarus fuſcus autumnalis textor.
Habitat in Europæ *plantis, minus ventis expoſitis, caldario incluſis, tela ducens filis parallelis, quibus plantas ſuffocat hyberuaculorum; in* Tiliæ, *foliis averſis autumno frequens.*

Siro. 15. A. lateribus ſublobatis, pedibus quatuor poſticis longiſſimis, femoribus capiteque ferrugineis, abdomine ſetoſo. *Fn. ſuec.* 1975.

Farinæ. *Scabiei.*
Blank. inſ. t. 14. f. A. B. *Schenck. obſ. 676.*
Lederm. micr 68. t. 33. f. 2. *Bonan. micr. f. 113.*
Bonan. micr. f. 112. *Allen. comp. XI. 8.*
Leuw. epiſt. 77. t 370. f. 9, 10. *Act. angl. n. 283.*
Kivin. prurit. 18. f. D. L. *Riv. prur. 18. f. A. B.*
E. N. C. dec. 2. ann. 10. ap. 34. *Act. lipſ. 1682. p. 319.*

Habitat in Caſeo *Farinaque* Europæ, Americæ.
Inter Sirones Farinæ, Scabiei, Phthiſeos, Hemitritæi vix etiamnum reperiri alias differentias, quam a loco petitas. Amæn. acad. 3. p. 333.

lactis. 16. A. abdomine ovato obtuſo poſtice ſetis quatuor longitudine corporis declinatis.
Habitat in Lactis *cremore antiquo & in Lactis vaſis.* Corpus *hyalinum, poſtice valde obtuſum, ſetis 4, quæ ſub inceſſu repunt.* Roſtrum *pedesque ſubteſtacea.*

FIGURE 1. Page 1024 of Linnaeus 1767 where *Acarus lactis* was described after *Acarus siro* (see full open-access book http://biodiversitylibrary.org/bibliography/37256).

New Zealand records. The first record of *Carpoglyphus* is for an unnamed species (Findlay 1921). Spain and Luxton's (1971) mite catalogue of the New Zealand subregion missed this early record, but included an unidentified species of this genus from Macquarie Island (Watson 1967). Nomenclatural reference book (Ramsay 1980) and text book (Waller 1984) list *C. lactis* from New Zealand, although these records are neither referenced to primary literature, nor linked to voucher specimens. Fan and Zhang (2007: 62 & 66) gave the first verified

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report of *C. lactis* in mainland New Zealand based on specimens collected in 1962 by R. Wilson from bee frames in Christchurch and by an unnamed collector in 1955 from *Rattus rattus* in Wellington (specimens preserved in New Zealand Arthropod Collection). Bingham (2007) reported two specimens of *C. lactis* from 22 New Zealand honey bees sent to MAF (now succeeded by Ministry for Primary Industries) Biosecurity New Zealand's Investigation and Diagnostic Centre (IDC) in Wallaceville. He noted that this species was among those "regularly found in samples from MAFBNZ's apiculture surveillance programme". Clark (2010) also studied *C. lactis* from samples collected by IDC (Christchurch) from the apiculture surveillance programme. The author also recently examined specimens collected from New Zealand honey bees during the apiculture surveillance programme (specimens preserved in IDC Auckland). These multiple records based on specimens collected from 1950s to the present in different areas indicate that this species is established in New Zealand.

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