

Check List of the Cecidomyidae of New Zealand

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INTRODUCTION.

THIS list is intended to supplement the author's check list of the Cecidomyidae of Oceania.* Up to the present thirty-four species, one of which has not yet been determined, have been recorded and these belong to thirteen genera. Most of these genera are of world-wide distribution, the exception being *Stephodiplosis* Tavares which had been found only in Mozambique, Africa.

Of the species five undoubtedly have been introduced and are of economic importance, namely *Dasyneura alopecuri* (Reuter) and *Stenodiplosis geniculati* Reuter, two of the meadow foxtail grass midges; *Dasyneura pyri* (Bouché), the leaf-curling pear midge; *Mayetiola destructor* (Say), the Hessian fly; and *Contarimia tritici* (Kirby), one of the wheat-blossom midges. The last-named species has only been incidentally reported by Cockayne (6) in a paper dealing with *D. alopecuri* and this record is not entirely satisfactory.

The only other three species of economic importance are *Oligotrophus oleariae* (Maskell), the Olearia† bud-gall midge; *Dryomyia shawiae* Anderson, another Olearia midge and the undetermined species of *Arthrocnodax* which is a natural enemy of the European red-mite, *Paratetranychus pilosus*. The morphology and anatomy of two species, *Oligotrophus oleariae* (Maskell) and *Dryomyia shawiae* Anderson, have been studied in detail by Miss Anderson (2, 3). They are both endemic species.

Naturally the host-plants or prey of the economic species are known. In addition, *Stephodiplosis nothofagi* Barnes forms bud-galls on *Nothofagus cliffortioides*. The remaining twenty-five species are known only from captured midges and were all described by Marshall (24).

It is highly desirable that the gall-midge fauna of New Zealand receive further attention in the future, both from the distributional and economic points of view.

The arrangement of the list is in systematic order. In this list each specific name is followed by the name of the author, in brackets if the species was placed by him in a genus other than that to which it is now assigned. The first citation following the author's name

* Check List of the Cecidomyidae of Oceania: Bernice P. Bishop Museum, Occasional Papers, 1937.

† The correct name and synonymy of the native Olearia shrub are *Shawia paniculata* Cheesem. (*Olearia Forsteri* Hook. f., *Olearia paniculata* Cheesem.).

is of the original description, and takes this form: title of the publication indicated by a number in italic-face type corresponding to a number in the bibliography, page numbers and date of publication. The subsequent citations are exactly similar. Following the citations is given the known geographical distribution of the species and in brackets the distribution in other parts of the world. Finally, the type-locality is noted for all species. All the references quoted have been examined by the writer with the exception of those indicated by an asterisk.

Subfamily LESTREMIINAE

Tribe LESTREMINARIAE

Genus *LESTREMIA* Macquart: 21, p. 173, 1826; 21A, p. 117, c. 1826.

(Type: *Lestremia cinerea* Macquart)

Lestremia novae-zealandiae Marshall: 24, pp. 247-249, 1896.

Lincoln, N.Z.

(Type-locality, Lincoln, N.Z.)

Tribe CAMPYLOMYZARIAE

Genus *CAMPYLOMYZA* Meigen: 26, pp. 101-102, 1818.

(Type: *Campylomyza flavipes* Meigen)

Campylomyza hirta Marshall: 24, pp. 244-245, 1896.

Lincoln, N.Z.

(Type-locality, Lincoln, N.Z.)

Campylomyza lincolniensis Marshall: 24, p. 243, 1896.

Lincoln, N.Z.

(Type-locality, Lincoln, N.Z.)

Campylomyza magna Marshall: 24, pp. 245-246, 1896.

Lincoln, N.Z.

(Type-locality, Lincoln, N.Z.)

Campylomyza minuta Marshall: 24, pp. 243-244, 1896.

Lincoln, N.Z.

(Type-locality, Lincoln, N.Z.)

Campylomyza nitida Marshall: 24, p. 244, 1896.

Lincoln, N.Z.

(Type-locality, Lincoln, N.Z.)

Campylomyza ordinaria Marshall: 24, p. 247, 1896.

Lincoln, N.Z.

(Type-locality, Lincoln, N.Z.)

Campylomyza robusta Marshall: 24, p. 246, 1896.

Lincoln, N.Z.

(Type-locality, Lincoln, N.Z.)

Campylomyza squamata Marshall: 24, p. 245, 1896.

Lincoln, N.Z.

(Type-locality, Lincoln, N.Z.)

Campylomyza tenuis Marshall: 24, pp. 242-243, 1896.

Lincoln, N.Z.

(Type-locality, Lincoln, N.Z.)

Subfamily HETEROPEZINAE

Genus MIASTOR Meinert: 28, p. 42, 1864.

(Type: *Miastor metraloas* Meinert)**Miastor agricolae** Marshall: 24, pp. 232–233, 1896.

No exact locality given, New Zealand.

(Type-locality, New Zealand.)

Miastor difficilis Marshall: 24, p. 233, 1896.

Lincoln, N.Z.

(Type-locality, Lincoln, N.Z.)

Subfamily CECIDOMYINAE

Tribe PORRICONDYLIARIAE

Genus PORRICONDYLA Rondani: 39, p. 14, 1840.

(Type: *Cecidomyia albitarsis* Meigen.)**Porricondyla agricolae** (Marshall): 24, pp. 240–241, 1896 (*Epidosis*).

Lincoln, N.Z.

(Type-locality, Lincoln, N.Z.)

Porricondyla aurea (Marshall): 24, pp. 241–242, 1896 (*Epidosis*).

Mount Torlesse, N.Z.

(Type-locality, Mount Torlesse, N.Z.)

Porricondyla magna (Marshall): 24, pp. 239–240, 1896 (*Epidosis*).

No exact locality given, New Zealand.

(Type-locality, New Zealand.)

Porricondyla ordinaria (Marshall): 24, p. 241, 1896 (*Epidosis*).

Lincoln, N.Z.

(Type-locality, Lincoln, N.Z.)

Tribe DASYNEURARIAE

Genus DASYNEURA Rondani: 38, p. 17, 1840.

(Type: *Tipula sisymbrii* Schranck.)**Dasyneura alopecuri** (Reuter): 37, pp. 1–9, 1895 (*Oligotrophus*);
6, pp. 459–466, 1916; 29, pp. 12–18, 1918.New Zealand; (Northern Europe, Great Britain, Ireland,
Canada).

(Type-locality, Finland.)

Dasyneura pyri (Bouché): 5, pp. 144, 1847 (*Cecidomyia*); 30, pp.
84–92, 1921; 32, pp. 220–224, 1925; 22, pp. 224–228, 1925;
23, pp. 311–315, 1926; 33, pp. 379–393, 1926; 10, pp. 107–
111, 1927; 34, pp. 170–175, 1927; 35, pp. 317–320, 1929;
13, p. 7, 1930; 8, pp. 163–164, 1934; 1, pp. 43–44, 1935;
9, pp. 339–341, 1935.New Zealand; (Central, Northern and Western Europe; New
York State, U.S.A.)

(Type-locality, Germany.)

Genus DRYOMYIA Kieffer: 16, p. 17, 1898.

(Type: *Cecidomyia circinnans* Giraud.)**Dryomyia shawiae** Anderson: 3, pp. 421–430, 1935; 13, p. 7, 1930.

New Zealand.

(Type-locality, New Zealand.)

Tribe OLIGOTROPHIARIAE

Genus **MAYETIOLA** Kieffer: 15, pp. 89-91, 1896; 14, p. 5, 1896
(*Mayetia*).

(Type: *Cecidomyia destructor* Say.)

Mayetiola destructor (Say): 42, p. 45, 1817 (*Cecidomyia*); 36, pp. 1-4, 1888; 36A, p. 1, 1888; 19, pp. 1-2, 1893?; 19A, 1894; 24, p. 234, 1896; 11, pp. 269-274, 1900; 11A, 6 pp., 1900; 6, p. 462, 1916; 13, p. 7, 1930.

New Zealand; (U.S.A., Canada, Europe, Western Asia).
(Type-locality, U.S.A.)

Genus **OLIGOTROPHUS** Latreille: 20, p. 288, 1805.

(Type: *Tipula juniperinus* Linné.)

Oligotrophus oleariae (Maskell): 25, pp. 253-258, 1889 (*Cecidomyia*); 31, pp. 340-344, 1922; 12, pp. 687-688, 1924; 13, p. 7, 1930; 2, pp. 405-420, 1935.

New Zealand.

(Type-locality, New Zealand.)

Tribe CECIDOMYIARIAE

Subtribe BIFILA

Genus **CONTARINIA** Rondani: 40, p. 289, 1861.

(Type: *Tipula loti* De Geer.)

Contarinia tritici (Kirby): 18, pp. 230-239, 1798 (*Tipula*); 6, p. 462, 1916.

New Zealand (generally throughout Europe).

(Type-locality, England.)

Genus **STEPHODIPLOSIS** Tavares: 43, p. 140, 1908.

(Type: *Stephodiplosis lanneae* Tavares.)

Stephodiplosis nothofagi Barnes: 4, pp. 276-277, 1936.

Cass, N.Z.

(Type-locality, Cass, N.Z.)

Genus *Stenodiplosis* Reuter: 37, p. 9, 1895.

(Type: *Stenodiplosis geniculati* Reuter.)

Stenodiplosis geniculati Reuter: 37, pp. 10-14, 1895.*

New Zealand. (Northern Europe, England, Ireland, Isle of Man, Canada.)

Subtribe TRIFILA

Genus **ARTHROCNODAX** Rübsaamen: 41, p. 189, 1895.

(Type: *Arthrocnodax vitis* Rübsaamen.)

Arthrocnodax sp.: 7, pp. 73-76, 1934; 4, pp. 277-278, 1936.

New Zealand. (Predaceous on *Paratetranychus pilosus*.)

Genus **CECIDOMYIA** Meigen: 27, p. 261, 1803.

(Type: *Tipula pini* De Geer.)

* Barnes (*Bull. Ent. Res.*, 22, 1931, p. 201) states that there are specimens from New Zealand of this species in Dr. E. P. Felt's collection at the State Museum, Albany, N.Y.

- Cecidomyia difficilis** (Marshall): 24, pp. 235–236, 1896 (*Diplosis*).
Lincoln, N.Z.
(Type-locality, Lincoln, N.Z.)
- Cecidomyia dubia** (Marshall): 24, p. 235, 1896 (*Diplosis*).
Lincoln, N.Z.
(Type-locality, Lincoln, N.Z.)
- Cecidomyia flavella** Kieffer (*flava* Marshall): 24, p. 239, 1896
(*Diplosis*); 17, p. 215, 1913.
Wanganui, N.Z.
(Type-locality, Wanganui, N.Z.)
- Cecidomyia fragilis** (Marshall): 24, p. 237, 1896 (*Diplosis*).
Lincoln, N.Z.
(Type-locality, Lincoln, N.Z.)
- Cecidomyia hirta** (Marshall): 24, pp. 237–238, 1896 (*Diplosis*).
Lincoln, N.Z.
(Type-locality, Lincoln, N.Z.)
- Cecidomyia melana** (Marshall): 24, p. 236, 1896 (*Diplosis*).
Lincoln, N.Z.
(Type-locality, Lincoln, N.Z.)
- Cecidomyia minuta** (Marshall): 24, pp. 236–237, 1896 (*Diplosis*).
Lincoln, N.Z.
(Type-locality, Lincoln, N.Z.)
- Cecidomyia scoparia** (Marshall): 24, p. 238, 1896 (*Diplosis*).
Lincoln, N.Z.
(Type-locality, Lincoln, N.Z.)
- Cecidomyia wanganuiensis** (Marshall): 24, pp. 238–239, 1896
(*Diplosis*).
Wanganui, N.Z.
(Type-locality, Wanganui, N.Z.)

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* Those references with an asterisk have not been examined by the writer. Citations 11A and 21A are merely reprints of citations 11 and 21 respectively. Citations 19 and 19A, and 36 and 36A respectively probably contain the same information. Finally, citation 38 may be the same publication as citation 39.

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