

**References to *Simulium virgatum* Coquillett**

- (1) Coquillett, Proc. U. S. Nat. Mus., Vol. 25, p. 87, 1903.
- (2) Dyar & Shannon, Proc. U. S. Nat. Mus., Vol. 67, p. 39, 1927.
- (3) Johannsen, N. Y. State Mus., Bul. 68, p. 383, 1903.
- (4) Knab, Ins. Ins. Mens., Vol. 2, p. 178, 1914.
- (5) Malloch, U. S. Dept. Agr. Bur. Ent., Tech. Ser. No. 26, pp. 28 and 57, 1914.

## *Further Additions to the List of Aphids of British Columbia*

By R. GLENDENNING,

*Dominion Entomological Laboratory, Agassiz, B. C.*



**I**N Nos. 21 and 22 of these Proceedings, published in 1924 and 1925, respectively, sixty-nine species of Aphididae collected in British Columbia were listed with annotations.

Since then further collecting has been done with the result that forty-eight more species have been determined. These are listed below. During the year 1926 aphids of many species were abundant around Agassiz, sixty collections being made by Mr. H. H. Ross and the writer, which resulted in twenty-five species being added to the previous list. Many of the species found that year for the first time have not been seen since, a peculiarity which has often been noted in aphid collecting here.

The present list brings the number of aphid species up to 117, besides which material representing about forty other species has been accumulated but not identified. As to the total number of species present in British Columbia, this is difficult to say, but probably the known number can be doubled, as so far practically all the collecting has been in the humid transition zone only.

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### Tribe **LACHNINI**

**Lachnus juniperi** (De Geer). On juniper bushes imported from Holland.

**Lachnus occidentalis** D'son. On **Abies amabilis** in Hudsonian zone, Mt. Cheam.

**Lachnus pseudotsugae** Wilson. On Douglas fir at Parksville.

#### Tribe CALLIPTERINI

**Callipterus bellus** (Walsh). One specimen, apparently this species, in other material from Victoria.

**Euceraphis sitchensis** Glen. From **Alnus glutinosa** at Agassiz.

**Euceraphis variabilis** Glen. From elderberry, Agassiz.

**Betulaphis occidentalis** Glen. This distinct little species is found every year on birch at Chilliwack.

**Myzocallis alni** (De Geer). Very common on roadside alders, **A. oregona**, in Fraser valley. The previous reference to **M. alnifoliae** belongs here.

**Myzocalis pulchellus** Glen. Collected from American elm in Victoria in 1927 by Messrs. Stanley and Hulbert. A very distinct species with beautiful wing markings.

**Periphyllus lyropictus** (Kess). On Norway maple, Chilliwack.

**Clavigerus media** (Baker). Frequent on **Salix sitchensis**, Chilliwack and New Westminster.

**Clavigerus populea** (Kalt). From **Salix lasiandra**, Victoria and Agassiz.

**Clavigerus salicis** (L). On **Salix scouleriana**, Agassiz. These species of **Clavigerus** all feed on the twigs of their hosts and not on the leaves.

#### Tribe APHIDINI

**Anuraphis bakeri** Cowen. Found on apple and clover, between which it migrates.

**Anuraphis viburnicola** (Gillette). Apparently this species on **Virburnum opulus**, Harrison Lake.

**Aphis albipes** Oestlund. Curling the leaves of the native snowberry. Found occasionally at Agassiz.

**Aphis abetina** Walker. On spruce and other conifers at the coast, sometimes becoming a pest.

**Aphis ceanothi** Clarke. On buckbrush, **Ceanothus sanguineus**, Agassiz. Distinguished by curved cornicles.

**Aphis furcata** Patch. A very small species from wild chokecherry, Copaka.

**Aphis hederæ** Kalt. From ivy at the coast.

- Aphis ilicis** Kalt. Frequent on holly at the coast.
- Aphis lugentis** Williams. On herbs belonging to the Compositae, Agassiz.
- Aphis oenotherae** Oest. Frequent on **Oenothera biennis**, Agassiz.
- Aphis pulverulens** Gillette. A large, long-legged species feeding on snowberry stems, collected by E. R. Buckell in the Cariboo district.
- Aphis ramona** Swain. Frequent on **Pentstemon diffusus**, Agassiz. Attended by ants which build shelters of earth or twigs over the colonies on the stems.
- Aphis sambuci** L. Common on **Sambucus racemosa** at Agassiz.
- Aphis symphoricarpi** Thomas. A green species often found with **A. albipes** in curled snowberry leaves.
- Asiphonaphis pruni** W'son and Davis. From chokecherry, Chopaka.
- Hydaphis xylostei** (Sch.) On cultivated honeysuckle at Vancouver.

#### Tribe **MACROSIPHINI**

- Amphorophora arnicae** Glen. On **Arnica** sps. in Hudsonian zone, Mt. Cheam and Liumchin Mt.
- Amphorophora maxima** Mason. Frequent on thimbleberry, **Rubus parviflorus**, Agassiz.
- Amphorophora rubi** (Kalt). On blackberry, Agassiz and Vancouver.
- Capitophorus fragariae** Theo. On wild rose, Agassiz.
- Capitophorus flaveolus** Walk. On **Cnicus arvensis**, Agassiz.
- Macrosiphum caricis** Glen. On *Carex* sps. in Hudsonian zone, Mt. Cheam.
- Macrosiphum heucherae** (Thomas). On **Heuchera micrantha**, Agassiz.
- Macrosiphum martini** (Cockerell). Taken from specimens of **Zygadenus venenosus** from Kamloops.
- Macrosiphum pseudo-dirhodum** Patch. Apparently this species on wild rose, Agassiz.
- Macrosiphum pseudo-solani** (Theob). Collected on potato in Victoria by Auden.
- Macrosiphum rhamni** (Clarke). On **Rhamnus purshiana** at Agassiz, quite common usually.

**Macrosiphum solidaginis** Fabr. A macroscopically black species on golden rod, Agassiz.

**Macrosiphum stanleyi** Wilson. On **Sambucus melanocarpa** in Stanley Park, Vancouver.

**Myzus aquilegae** Theob. Apparently this species on **Ranunculus** sps., Agassiz.

**Myzus hieracei** (Kalt). On **Hieracium murorum** at Agassiz.

**Rhopalosiphonium latysiphon** (D'son). An interesting species structurally, with irregular venation and much swollen cornicles taken on cultivated violet, Agassiz.

#### Tribe **PEMPHIGINI**

**Pemphigus californicus** D'son. Apteræ agreeing with the description of this species taken from **Ranunculus occidentalis** at Agassiz.

#### Tribe **PROCIPHILINI**

**Prociphilus fraxini-dipetalæ** (Essig). Taken from European ash at Agassiz. A double host species migrating to the roots of Douglas fir.

**Prociphilus venafuscus** (Patch). From horse-chestnut at Victoria, collected by W. Downes.

#### Tribe **FORDINI**

**Forda formicaria** Heyden. On grass roots tended by ants at Agassiz.

