

Entomological Society of
British Columbia

A Preliminary List

OF THE

Heteroptera and Homoptera

OF

British Columbia

BY

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INTRODUCTION

In a region so little explored entomologically as British Columbia, with its varied topography, range of latitude and varied climate, no list of insects can be regarded as other than a preliminary one, and this is especially the case with such an order as the Hemiptera, the members of which, more often than not, are secretive and obscure in their habits and unlikely to attract the attention of collectors of the more popular orders. While the Lepidoptera, Coleoptera, Diptera and Odonata have received the greater share of attention in the past, the Hemiptera of this Province have been little collected until within recent years. Certain more or less extensive lists of captures have previously been published, principally by Dr. H. M. Parshley and the writer, and the present list is an effort to bring together from all available sources such records as have been published from time to time. The present list contains the Heteroptera and Homoptera up to and including the Psyllidae. No attempt has been made by anyone, so far as I am aware, to list the Parasitica of this Province, and the Aleurodidae and Coccidae still await the attention of a specialist.

The basis of this list is the collection made by the author; the Canadian National Collection at Ottawa; the collections of the British Columbia Department of Agriculture at Vernon and at Victoria; a collection of Hemiptera made by the late G. W. Taylor, now in the possession of Mr. A. W. Hanham; and the collection of Mr. Oscar Whittaker at Chilliwack. Many records have also been obtained from Mr. Van Duzee's list of 1917, the Entomological Record published in the Reports of the Ontario Entomological Society, and also from current Entomological Journals. Where the record is taken from literature, the reference is given after the record.

For the sake of convenient reference, the arrangement of families in Van Duzee's list of 1917 has been followed, with occasional changes in nomenclature that have been shown to be necessary by recent workers in certain groups. The sequence of sub-families is the same, except in the Miridae, where the arrangement suggested by Dr. Knight has been followed.

The determination of material was made by the following: Mr. W. T. Davis, Dr. Carl J. Drake, Dr. D. M. De Long, Dr. H. B. Hungerford, Dr. W. D. Funkhouser, Mr. W. L. McAtee, Dr. H. H. Knight, Dr. H. M. Parshley, Mr. E. P. Van Duzee, and the author.

The following are the names of the collectors whose initials accompany the records: E. M. Anderson, K. F. Auden, A. B. Baird, E. H. Blackmore, E. R. Buckell, A. H. Bush, H. Blurton, J. C. Bradley, J. W. Cockle, R. H. Chrystal, N. L. Cutler, R. P. Currie, A. A. Dennys, W. Downes, C. J. Drake, C. B. D. Garrett, R. Glendenning, A. W. Hanham, G. A. Hardy, Mrs. W. W. Hippisley, R. Hopping, H. G. Hubbard, H. Lang, L. E. Marmont, A. W. A. Phair, M. H. Ruhmann, E. A. Rendell, R. Sherman, G. Spencer, G. W. Taylor, R. C. Treherne, E. P. Venables, O. Whittaker, R. C. Woodward.

Collecting grounds and faunal areas.

The present list records 302 species of Heteroptera and 180 species of Homoptera, a considerable increase over the numbers recorded in the Entomological Society's Proceedings for 1924, where the then recorded species were given as 252 and 152 respectively. Very little collecting has hitherto been carried on in outlying districts, but usually in places within easy reach of centres where entomologists are stationed. Consequently there is a paucity of records from some of the more interesting and remote regions, and the majority come from points in the Transition and Canadian zones in the southern portion of the Province.

The greater part of British Columbia is occupied by the Canadian zone, extending from the international boundary to a point just north of the Skeena river, where the Hudsonian zone commences. The Transition zone invades the southern portion of the Province at three points, a strip of the southern coastline extending from and including the lower Fraser Valley to a point nearly opposite the northern extremity of Vancouver Island. The east coast of Vancouver Island, for about half its length, is also in this zone. Two other strips occupy the Okanagan and the Arrow Lake regions, and in small areas on the lower levels towards Ashcroft and Lillooet. The Upper Sonoran zone enters British Columbia at the southern end of the Okanagan Valley and follows the valley northwards for about twenty-five miles. Very little collecting has been done in this region. Although the number of species received from Northern British Columbia has been small, yet some of the most interesting records have been received from there, including species not hitherto taken in British Columbia. Further collecting in this Northern region will furnish important data regarding the distribution of Hemiptera in Canada.

Many new records are occurring every year, and at the present time there are a number of species that cannot be included in this list for lack of satisfactory determination, but supplementary lists may be published from time to time.



Suborder **HETEROPTERA**Family **SCUTELLERIDAE**

Subfamily TETYRINAE

- Homaemus aenifrons** (Say). Saanich, Aug. 3rd, 1918 (W.D.); Armstrong, Sept. 30th, 1918 (W.D.); Vernon, Sept. 24th, 1919 (W.D.); Chilcotin, July 27th, 1920 (E.R.B.); Summerland, Aug. 20th, 1924 (W.D.).
- Homaemus bijugis** (Uhl.). Royal Oak, Oct. 9th, 1917 (W.D.); Vernon, June 24th, 1921 (W.D.); Fairview, Aug. 21st, 1919 (E.R.B.); det. Parshley.

Subfamily ODONTOTARSINAE

- Eurygaster alternatus** (Say). Victoria, April 19th, 1918 (W.D.); Saanich, Sept. 10th, 1918 (W.D.); Duncan, June 27th, 1920 (W.D.); Enderby, August 22nd, 1920 (W.D.).
- Eurygaster shoshone** Kirk. (*carinatus* van D.) Vernon, June 6th, (Venables); (Rep. Ent. Soc. Ont., 1908, p. 112).
- Phlmodera torpida** Walk. Chilcotin, July 15th, 1920 (E.R.B.); Vernon, May 14th, 1922 (E.R.B.); Grand Forks, July 30th, 1923 (R.H.).
- Vanduzeeina balli** (Van D.). Chilcotin, June 18th, 1920 (E.R.B.); Kamloops, May 23rd, 1924 (K.F.A.).
- Vanduzeeina borealis** Van D. Emerald Lake, B. C., Aug. 15th, 1915 (Wheeler); Golden, B. C. (Proc. Cal. Acad. Sci. XIV., No. 17, 1925, p. 392).

Family **CYDNIDAE**

Subfamily THYREOCORINAE

- Galgupha atra** Am. and Serv. Enderby, Aug. 22nd, 1920 (W.D.); taken with nymphs on mullein.
- Corimelaena anthracina** Uhl. Vanc. Id. (Van. D. list, 1917); Huntingdon, Ap. 26th (K.F.A.); Merritt, June (det. Stoner, Can. Ent., Feb., 1926, p. 29).
- Corimelaena montana** (Van D.). Enderby, Aug. 22nd, 1920 (W.D.); taken by beating mullein; Merritt, June (K.F.A.).
- Corimelaena extensa** Uhl. Chilliwack, June 8th, 1899 (G.W.T.).
- Corimelaena pulicaria** (Germ.). Vernon April 17th, 1915 (M.H.R.); Enderby Aug. 22nd, 1920 (W.D.); Agassiz, Aug. 25th, 1921 (W.D.); Penticton, Aug. 16th, 1920 (W.D.); Chilliwack (O.W.).

Subfamily CYDNINAE

- Pangaeus bilineatus** (Say). Vernon, April 11th, 1924 (E.R.B.); Kaslo, June (J.W.C.).
- Sehirus cinctus** (P. deB.). Vernon (M.H.R.) (Parshley, Univ. Mich. occ. pap. 71, p. 7).

Family **PENTATOMIDAE**

Subfamily PENTATOMINAE

- Brochymena quadripustulata** (Fabr.). Walhachin, June, 1917 (E.R.B.); Penticton, Aug. 27th, 1924 (W.D.).
- Brochymena affinis** Van D. Vernon, October 5th, 1918 (W.D.); Kelowna, Jan. 17th, 1923 (W.D.); hibernating under bark. Common in interior districts.
- Peribalus abbreviatus** (Uhl.) Saanich, June 6th, 1918 (W.D.); Vernon, April 12th, 1915; Duncan (W.D.); Anarchist Mt., May 25th, 1924.
- Peribalus limbolarius** Stal. Saanich, Aug. 3rd, 1918 (W.D.); Royal Oak, Sept. 6th, 1918 (W.D.); Penticton, Aug. 28th, 1920 (W.D.); Summerland, July 18th, 1923 (W.D.).
- Peribalus tristis** Van D. Vanc. Id. (Can. Nat. Coll. Macoun; Van D. list, 1917, p. 33.)
- Trichopepla californica** Van D. Mt. Garibaldi, at 6,500 ft., Sept. 10th, 1923 (K.F.A.). On fruiting heads of *Anemone occidentalis*.
- Trichopepla aurora** Van D. Vernon, June 20th, 1919 (E.P.V.); Victoria, May 12th, 1922 (E.H.B.); Merritt, June (K.F.A.).
- Chlorochroa uhleri** Stal. Saanich, Sept. 28th, 1917 (W.D.); Victoria, Sept. 30th, 1920 (W.D.); Vernon, May 24th, 1918 (W.D.); Terrace (W.W.H.). Common species; nymphs frequently troublesome on raspberry and loganberry fruit.
- Chlorochroa ligata** (Say). Vernon, 1908 (M.H.R.) (Parshley, Univ. Mich. occ. pap. 71, p. 8); Vanc. Id. (Van D. list, 1917).
- Chlorochroa say** Stal. Vernon, August 28th, 1917 (M.H.R.); (Parshley, Univ. Mich. occ. pap. 71, p. 8).

- Carpocoris remotus* Horv. Vernon, Sept. 28th, 1918 (W.D.); Gordon Head, March 23rd, 1920 (W.D.); Enderby, Aug. 22nd, 1920 (W.D.); Lillooet, Aug. 3rd, 1916; Thormanby Id. (O.W.). Numerous at Enderby on mullein. Found hibernating at Gordon Head among strawberry plants.
- Euschistus euschistoides* (Voll.). Agassiz, July 15th, 1921 (R.G.); Mission, Aug. 21st, 1919 (W.D.); Victoria, Sept. 10th, 1919 (W.D.); Lillooet.
- Euschistus conspersus* Uhl. Saanich, October 8th, 1917 (W.D.); Vernon, September 24th, 1919 (W.D.); Victoria, Sept. 14th, 1918 (W.D.)
- Euschistus variolarius* (P. de B.). Penticton, Sept. 21st, 1919 (W.D.); Vernon, Sept. 24th, 1919 (W.D.); Enderby, Aug. 22nd, 1920 (W.D.). No records for coast district.
- Coenus delius* (Say.). Oliver, May 3rd, 1924 (E.R.B.) Br. Col. (Van D. list, 1917).
- Aelia americana* Dall. Francois Lake, July 5th, 1924 (E.R.B.)
- Neottiglossa undata* (Say.). Saanich, Aug. 3rd, 1918 (W.D.); Enderby, Aug. 22nd, 1920 (W.D.); Duncan, Aug. 4th, 1920 (W.D.); New Westminster, Aug. 14th, 1924 (W.D.)
- Neottiglossa trilineata* (Kby.). Br. Col. (Van D. list, 1917).
- Neottiglossa sulcifrons* Stal. Terrace (Hippisley, det. Torre-Bueno).
- Neottiglossa cavifrons* Stal. Victoria, August 5th (K.F.A.) (det. Stoner, Can. Ent. LVIII, p. 29).
- Cosmopepla bimaculata* (Thom.). Saanich, Sept. 18th, 1917 (W.D.); Royal Oak, Aug. 11th, 1919 (W.D.); Vernon, Sept. 24th, 1919 (W.D.); Penticton, Sept. 21st, 1919 (W.D.). A very common species on the mainland.
- Cosmopepla conspicillaris* (Dall.). Saanich, June 6th, 1918 (W.D.); April 20th, 1918 (W.D.); Gordon Head, June 16th, 1924 (W.D.). Abundant on flowers of *Stachys palustris*; many found mating on flowering heads and leaves of this plant.
- Eysarcoris intergressus* Uhl. Royal Oak, June 15th, 1917 (W.D.); Mission, May 20th, 1924 (W.D.); Penticton, Aug. 16th, 1920 (W.D.); Enderby, Aug. 22nd, 1920 (W.D.). Usually swept from Thimbleberry (*Rubus parviflorus*).
- Prionosoma podopioides* Uhl. Kelowna, May 28th, 1921 (M.H.R.); found in onion fields around the plants. Vanc. Id. (Van D. list, 1917).
- Thyanta custator* (Fabr.). Saanich, Oct. 8th, 1917 (W.D.); Victoria, July 1st, 1918 (W.D.); Summerland, July 18th, 1923 (W.D.); common species, generally distributed.
- Thyanta rugulosa* (Say.). Vancouver, (J. Fletcher); two specimens thus labelled in the Canadian National Collection.
- Thyanta punctiventris* (Van D.). Kamloops, May 23rd (K.F.A.); (det. Stoner, Can. Ent. LVIII, p. 29).
- Banasa dimidiata* (Say.). Saanich, Aug. 5th, 1918 (W.D.); Victoria, Sept. 17th, 1924 (W.D.); Terrace, June-Sept. (W.W.H.); common species.
- Banasa sordida* (Uhl.). Savary Island, Sept. 4th, 1917 (R.S.); New Westminster, Sept. 7th, 1926 (W.D.). Rare

Subfamily ACANTHOSOMINAE

- Meadorus lateralis* (Say.). Saanich, Sept. 14th, 1918 (W.D.); Victoria, Aug. 28th, 1923 (W.D.); Agassiz, July 25th, 1921 (W.D.); Vernon, April 28th, 1915 (M.H.R.).
- Elasmotethus cruciatus* (Say.). Mt. Cheam, Aug. 7th, 1903; Saanich, May 11th, 1918 (W.D.); Victoria, Sept. 17th, 1924 (W.D.); Terrace, June-Sept. (W.W.H.). Common on alder.

Subfamily ASOPINAE

- Perillus bioculatus* var. *clanda* (Say.). Vernon, Sept. 24th, 1921 (W.D.); June 14th, 1919 (H.L.); Okanagan Landing, Aug. 26th, 1916 (E.M.A.). Not reported from the coast.
- Perillus exaptus* (Say.). Cowichan, Aug. 24th, 1918 (W.D.); Victoria, Aug. 25th, 1923 (K.F.A.); Saanich, July 24th, 1924 (W.D.); Terrace (W.W.H.) Var. D, Vernon, July 25th, 1924 (E.A.R.). Uncommon.
- Apateticus bracteatus* (Fitch). Vanc. Id. (Van D. list, 1917); Goldstream, Sept. 16th (K.F.A.) (Stoner, Can. Ent. LVIII, p. 30).
- Apateticus crocatus* (Uhl.). Victoria, Sept. 10th, 1918 (W.D.); Saanich, Aug. 3rd, 1918 (W.D.); Royal Oak, Oct. 10th, 1918 (W.D.); Thormanby Island (O.W.). Abundant in 1918 when tent caterpillars were numerous, often being found in the webs.
- Podisus maculiventris* (Say.). Saanich, May 8th, 1918 (W.D.); Victoria, Aug. 28th, 1923 (W.D.); Sicamous, May 25th, 1918 (W.D.); Vancouver, Sept. 12th, 1921 (W.D.).
- Podisus serieventris* Uhl. Vanc. Id., (Van D. list, 1917); Canadian National Collection.
- Podisus modestus* (Dall.) Vernon, May 14th, 1920 (M.H.R.); Saanich, June 10th, 1917 (W.D.); Victoria, Sept. 24th, 1923 (W.D.); Terrace, (W.W.H.). Common species.

Podisus placidus (Uhl). Chilliwack, July 25th, 1925 (O.W.); Saanich, Sept. 16th, 1918 (W.D.); Keremeos, April 17th, 1924 (K.F.A.); Goldstream, June 12th, 1923 (W.D.). Uncommon.

Zicrona caerulea (Linn.). Agassiz, May 25th, 1920 (R.G.); Duncan, July, 1918 (A.W.H.). Said to be frequently taken at Agassiz in certain years, but not common (R.G.). On alder (A.W.H.)

Family COREIDAE

Subfamily MEROCORINAE

Leptoglossus occidentalis Heid. Duncan, August 28th, 1917 (W.D.); Vancouver, Sept. 20th, 1905 (W.D.); Victoria, September 15th, 1924 (W.D.); Kelowna, Jan. 19th, 1923 (W.D.); hibernating under pine bark; Mara, Oct. 19th, 1922 (H.B.), at 6,000 ft.; adults and nymphs common on Douglas fir.

Family ALYDIDAE

Megalotomus quinquespinosus (Say). Cowichan, Aug. 24th, 1918 (W.D.); Enderby, Aug. 22nd, 1920 (W.D.); Savary Id., Aug. 9th, 1915 (R.S.); Duncan, Aug. 4th, 1920 (W.D.).

Alydus pluto Uhl. Victoria, September 1st, 1917 (W.D.); Armstrong, Sept. 30th, 1918 (W.D.); Penticton, Sept. 1st, 1919 (E.R.B.); Vernon, July 29th, 1920 (M.H.R.); Prince Rupert, June 3rd, 1924 (E.R.B.)

Alydus eurinus (Say). Vernon, Sept. 24th, 1919 (W.D.).

Alydus conspersus var. **infuscatus** Fracker. B. C. (Can. Nat. Coll.).

Alydus scutellatus Van D. Mt. McLean; at 6,500 ft., August 20th, 1920 (R.G.); Mt. Cheam, at 5,000 ft. (O.W.); Merritt, July 21st, 1923 (R.H.); Crows Nest Pass, (Can. Nat. Coll.). Under stones and horse droppings.

Tollius curtulus (Stal). Victoria, July 20th, 1924 (W.D.); Enderby, Aug. 22nd, 1920 (W.D.); Savary Id., July 2nd, 1915 (R.S.); Goldstream, July 22nd, 1923 (K.F.A.).

Tollius setosus (Van D.). Enderby, July 22nd, 1920 (W.D.); Victoria, July 5th, 1923 (W.D.); Goldstream, June 20th, 1924 (W.D.); uncommon; found on dry, nearly bare hillsides.

Subfamily PSEUDOPHLOEINAE

Ceraleptus pacificus Barber. Saanich, June 3rd, 1921 (W.D.); Victoria, May 20th, 1921 (W.D.); Chilliwack, July 19th, 1925 (O.W.). Taken occasionally in sweeping; also at roots of grass and under stones.

Coriomeris humilis (Uhl). Victoria, June 27th, 1923 (W.D.); Goldstream, June 28th, 1922 (W.D.); Vernon, May 5th, 1915 (M.H.R.); taken in sweeping.

Family CORIZIDAE

Harmostes reflexulus (Say). Vernon, June 12th, 1919 (E.P.V.); Mt. McLean, June 21st, 1917; Victoria, July 2nd, 1921 (W.D.); Penticton, Sept. 22nd, 1921 (W.D.); common species.

Harmostes croceus Gibs. Royal Oak, June 18th, 1917 (W.D.); Goldstream, June, 1918 (A.W.H.). A rare species.

Corizus viridicatus Uhl. Summerland, June 18th, 1923 (W.D.); August 28th, 1924 (W.D.); swept from bunch grass.

Corizus crassicornis Linn. Vernon, July 29th, 1920 (R.C.T.); Enderby, August 22nd, 1920 (W.D.); Saanich, Sept. 4th, 1917 (W.D.); common species.

Corizus bohemani Sign. Vernon, August 28th, 1917 (M.H.R.). (Parshley, Univ. Mich. Occas. pap. 71, p. 12).

Corizus indentatus Hambl. Saanich, August 18th, 1917 (W.D.); Victoria, August 13th, 1918 (W.D.); Vernon, Oct. 3rd, 1921 (W.D.); common species.

Leptocoris trivittatus (Say). Summerland, Sept. 28th, 1918 (W.D.); April 19th, 1919 (E.R.B.); Keremeos, August 20th, 1918 (R.C.T.).

Family ARADIDAE

Subfamily ARADINAE

Aradus fuscomaculatus Stal. Sooke, June 30th, 1923 (W.D.); Shawnigan, June 26th, 1923 (W.D.); Departure Bay, June 6th, 1908 (G.W.T.).

Aradus behrensi Bergr. Victoria, May 8th, 1918 (W.D.).

Aradus depictus Van D. North Bend, June 6th (H.G.H.); Victoria; (Parshley, Essay on N.A. spp. Aradus; Trans. Am. Ent. Soc. XLVII., p. 47).

- Aradus proboscideus* Walk. Sooke, Aug. 7th, 1923 (W.D.); Saanich, June 19th, 1924 (W.D.); Mt. McLean, (5,000 ft.) Aug. 24th, 1920 (A.W.H.); Mt. Waleach, (5,000 ft.) June 23rd, 1923 (K.F.A.); Terrace, (W.W.H.). Common under Douglas fir bark. (Van D. list, 1917, as *hubbardi* Heid.).
- Aradus persimilis* Van D. Terrace (W.W.H.) June and Sept. (Parshley, Essay on Am. spp. Aradus. Trans. Am. Ent. Soc. XLVII, p. 56).
- Aradus medioximus* Parsh. Vanc. Id., May 21st, 1919 (G.W.T.); (Parshley, Essay on Am. spp. Aradus, p. 58).
- Aradus vadosus* Van D. Nicola Lake dist., May 29th, 1923 (E.R.B.); Vanc. Id., Sept. 6th, 1899 (G.W.T.); (Parshley, Essay on Am. spp. Aradus, p. 58).
- Aradus debilis* Uhl. Victoria, Aug. 6th, 1918 (W.D.); Merritt, July 20th, 1923 (R.H.) on *Pinus contorta*; Midday Valley, June, 1923 (K.F.A.). At Victoria the nymphs are found around the fungus *Polyporus volvatus* growing on dead Douglas fir.
- Aradus parvicornis* Parsh. Midday Valley, Aug. 19th, 1921 (R.H.); on *Pinus ponderosa*.
- Aradus blaisdelli* Van D. Kelowna, Jan. 19th, 1923 (W.D.); Midday Valley, June, 1924 (K.F.A.); Vernon, May 31st, 1917 (M.H.R.).
- Aradus compressus* Heid. Vancouver, May 26th, 1902 (A.H.B.); Saanich, May 30th, 1922 (W.D.); Sooke, Aug. 19th, 1922 (K.F.A.).
- Aradus tuberculifer* Kirby. June 26th, 1904 (Taylor collection).
- Aradus parshleyi* Van D. Vernon, April 28th, 1915 (M.H.R.); (Parshley, essay on Am. spp. Aradus, p. 78).
- Aradus funestus* Bergr. Vernon, October 7th, 1918 (W.D.); Enderby, June 1st, 1924 (W.D.); Sugar Lake, Aug. 31st, 1924 (W.D.); Chilliwack, (O.W.).
- Aradus lugubris* Fall. Penticton, August 16th, 1920 (W.D.); Agassiz, October 5th, 1921 (W.D.); Victoria, June 13th, 1924 (W.D.).
- Aradus abbas* Bergr. Gordon Head, June 4th, 1920 (W.D.); Vancouver; Revelstoke, July, 4th, 1905 (J.C.B.).
- Aradus falleni* Stal. Revelstoke, July 1st, 1905 (J.C.B.); Vancouver; Victoria; Parshley, Essay on Am. spp. Aradus, p. 92).
- Aradus cinnamomeus* subsp. *antennalis* Parsh. Kelowna, May 20th, 1917 (R.C.T.); Vernon, May 12th, 1915 (M.H.R.) (Parshley, Essay on Am. spp. Aradus, p. 97).
- Aradus insoletus* Van D. Vernon, April 12th, 1915 (M.H.R.); (Parshley, Univ. Mich. Occ. pap. 71, p. 13).
- Aradus heidmanni* Bergr. Victoria, August 5th, 1923 (W.D.); Enderby, April 20th, 1921 (W.D.).

Subfamily MEZIRINAE

- Mezira moesta* Stal. Duncan, July, 1917 (A.W.H.); Goldstream, May 17th, 1903 (Taylor).
- Aneurus septentrionalis* Walk. Duncan, (Taylor collection).
- Aneurus inconstans* Uhl. Sugar Lake, Aug. 21st, 1924 (W.D.); Terrace (W.W.H.); (Torre-Bueno, Can. Ent. LVII, p. 280).

Family NEIDIDAE

Subfamily NEIDINAE

- Neides muticus* Say. Vernon, June 20th, 1919 (E.P.V.); Victoria, May 6th, 1921 (W.D.); Royal Oak, September 6th, 1918 (W.D.); Terrace (W.W.H.); common species.

Subfamily METACANTHINAE

- Jalysus spinosus* Stal. Shawnigan, June 11th, 1922 (W.D.); Duncan, June 27th, 1920 (W.D.).

Family LYGAEIDAE

Subfamily LYGAEINAE

- Lygaeus kalmii* subsp. *kalmii* Parsh. Vernon, September 25th, 1919; Victoria, Aug. 11th, 1919 (W.D.); Sept. 7th, 1920 (W.D.); Penticton, Sept. 22nd, 1921 (W.D.); Agassiz, Sept. 6th, 1925 (R.G.); common in interior districts but scarce in the coast districts.
- Lygaeus bicrucis* Say. Victoria, August 16th, 1917 (W.D.); September 6th, 1920 (W.D.); fairly common; nymphs found at roots of rank grass and weeds during September; adults often taken on flowers and also in hibernation.
- Ortholomus scolopax* (Say). (*longiceps* Stal.) Kingmere, July 19th, 1919 (R.H.C.); Vernon, July, 1912.
- Nysius californicus* Stal. Duncan, July 29th, 1922 (W.D.); Victoria, June 25th, 1921 (W.D.).

- Nysius thymi** (Wolff). Vernon, Sept. 25th, 1919 (W.D.); Merritt, Aug., 1924 (K.F.A.).
Nysius ericae (Schill). Victoria, July 23rd, 1918 (W.D.); Chilcotin, July 20th, 1920 (E.R.B.); Vernon; common everywhere; in interior districts frequently reported injurious to garden crops.

Subfamily CYMINAE

- Ischnorrhynchus franciscanus** (Stal). Saanich district, May 10th, 1918 (W.D.); Vernon, March 6th, 1915 (M.H.R.); Victoria; Terrace (W.W.H.); common species; nymphs sometimes numerous on raspberries; eggs are deposited on the unripe fruit.
Cymus luridus Stal. Saanich, July 24th, 1924 (W.D.); Vernon, September 27th, 1919 (W.D.); Chilcotin, Sept. 1st, 1920 (E.R.B.); Shawnigan, July 21st, 1918 (W.D.); commonly swept in moist places.

Subfamily BLISSINAE

- Blissus occiduus** Barb. Shawnigan, June 22nd, 1919 (W.D.); Saanich, Aug. 28th, 1918 (W.D.); Victoria, April 11th, 1921 (W.D.); Sept. 12th, 1924; (as *leucopterus*—Parshley, Univ. Mich. occ. pap. 71, p. 16).

Subfamily GEOCORINAE

- Geocoris bullatus** (Say). Saanich, Sept. 1st, 1917 (W.D.); Chilcotin, April 24th, 1920 (E.R.B.); Enderby, Aug. 23rd, 1920 (W.D.); Penticton, Sept. 21st, 1919 (W.D.); common species. At Vernon it has been found to destroy the eggs of the cabbage root maggot (*Phorbia brassicae*).
Geocoris bullatus var. **discopterus** Stal. Royal Oak, July 5th, 1920 (W.D.); Gordon Head, July 20th, 1918 (W.D.); Vernon, Aug. 13th, 1918 (M.H.R.). This is the commonest variety in the coast districts. Numerous at Gordon Head around strawberry plants.
Geocoris decoratus var. **solutus** Montd. Terrace (W.W.H.) (Torre-Bueno; Can. Ent. LVII, p. 280).
Geocoris uliginosus (Say). Merrit, Aug. 11th, 1923 (R.H.); Victoria.
Geocoris atricolor (Montd.). Victoria, July 22nd, 1918 (W.D.); Oct. 11th, 1921 (W.D.); at roots of grass in meadows and under stones and planks.

Subfamily PACHYGRONTHINAE

- Phlegyas annulicrus** Stal. Summerland, August, 28th, 1924 (W.D.); taken by sweeping bunch grass.

Subfamily OXYCARENINAE

- Crophius disconotus** (Say). Vernon, Sept. 25th, 1919 (W.D.); Enderby, Aug. 22nd, 1920 (W.D.).
Crophius bohemani (Stal). Saanich, April 19th, 1919 (W.D.); Cowichan, Aug. 24th, 1918 (W.D.); Royal Oak, Sept. 13th, 1919 (W.D.).

Subfamily RHYPAROCHROMINAE

- Sphaerobius insignis** (Uhl). Chilcotin, June 15th, 1920 (R.C.T.).
Sphaerobius quadristriata Barb. Penticton, Aug. 25th, 1924 (W.D.).
Ligyrocoris sylvestris Linn. (*contractus* Say.). Vernon, Aug. 24th, 1918 (W.D.); Penticton, July 15th, 1923 (W.D.); Saanich, Aug. 18th, 1917 (W.D.).
Ligyrocoris diffusus (Uhl). Penticton, Sept. 22nd, 1919 (W.D.); Duncan, Aug. 4th, 1921 (W.D.); Chilliwack (O.W.).
Pseudocnemodius canadensis (Prov.). Vernon, Aug. 18th, 1915 (M.H.R.). (Parshley, Univ. Mich. Occ. pap. 71, p. 16).
Malezonotus sodalicus (Uhl). Saanich, April 30th, 1918 (W.D.); Agassiz, May 5th, 1920 (R.G.); Gordon Head, July 20th, 1920 (W.D.); common at Gordon Head around strawberry plants.
Malezonotus angustatus (Van D.). Saanich, June 3rd, 1921 (W.D.); Gordon Head, July 21st, 1920 (W.D.); Goldstream, July 7th, 1926 (W.D.). In dry pastures under dried cattle droppings.
Peritrechus fraternus Uhl. Saanich, April 6th, 1918 (W.D.); Victoria, June 25th, 1923 (K.F.A.); Chilcotin, April 30th, 1920 (E.R.B.).
Peritrechus tristis Van D. Saanich, April 6th, 1918 (W.D.); Enderby, August 30th, 1920 (W.D.); Victoria, Oct. 23rd, 1921 (W.D.); common under stones and logs.
Stignocoris rusticus (Fall). Vernon, Sept. 24th, 1919 (W.D.); Enderby, Aug. 22nd, 1920 (W.D.); Kelowna, Aug. 8th, 1926 (W.D.). Common.
Acompus rufipes Wolff. B. C. (Barber, JI. N. Y. Ent. Soc. XXVI, p. 54).

- Trapezonotus arenarius* (Linn). Goldstream, Aug. 12th, 1923 (K.F.A.); Enderby, Aug. 30th, 1920 (W.D.).
- Sphragisticus nebulosus* (Fall). Penticton, Sept. 22nd, 1919 (W.D.); Victoria, May 16th, 1916 (R.C.T.); Duncan, June 6th, 1919 (A.W.H.); Terrace (W.W.H.).
- Emblethis vicarius* Horv. Saanich, May 20th, 1918 (W.D.); Victoria, March 12th, 1924 (W.D.); Vernon, Sept. 30th, 1921 (W.D.); A common species.
- Eremocoris ferus* (Say). Saanich, April 20th, 1918 (W.D.); Enderby, April 20th, 1921 (W.D.); Chilliwack, (O.W.).
- Eremocoris obscurus* Van D. Chilcotin, April 24th, 1920 (E.R.B.); Saanich, Sept. 12th, 1919 (W.D.); Lillooet, July 2nd, 1920 (A.B.B.); Penticton, June, 1919 (R.C.T.).
- Gastrodes pacificus* (Prov.). Duncan (A.W.H.); Goldstream, July 7th, 1926 (W.D.); Kaleden, April 14th, 1919 (E.R.B.). Collected in numbers at Goldstream from cones of Douglas fir.
- Scolopostethus thomsoni* Reut. Saanich, Sept. 11th, 1918 (W.D.); Victoria, Sept. 7th, 1920 (W.D.); Enderby, Aug. 22nd, 1920 (W.D.).
- Scolopostethus atlanticus* Horv. Saanich, May 3rd, 1918 (W.D.); Enderby, October 14th, 1920 (W.D.); Agassiz, July 25th, 1921 (W.D.).
- Scolopostethus pacificus* Barb. Kelowna, Jan. 19th, 1923 (W.D.); hibernating under bark at base of pine trees.

Family TINGITIDAE

- Piesma cinerea* Say. Texas Creek, Lillooet, B. C., June 15th, 1926 (J. McDunnough).
- Acalypta modesta* Parsh. Royal Oak, May 14th, 1917 (R.C.T.). Among moss on rocks.
- Corythucha distincta* O. & D. Vernon, Sept. 25th, 1919 (W.D.); on hollyhock; Duncan, July 4th, 1926 (G.A.H.); on *Lathyrus nuttalli*.
- Corythucha mollicula* O. & D. (= *salicis* O. & D.). Mission, Aug. 21st, 1919 (W.D.), on *Salix hookeriana*; Vernon, Sept. 28th, 1919 (W.D.), on *Salix* sp. (= *canadensis* Parsh. Univ. Mich. occ. pap. 71).
- Corythucha hewitti* Drake. Vernon, May, 14th, 1920 (M.H.R.); on hazel. (= *hesperia* Parsh. Op. cit., p. 23).
- Corythucha padi* Drake. Vernon, May 14th, 1920 (M.H.R.), on chokecherry; Goldstream, June 2nd, 1918 (W.D.), on hazel; Duncan, July 28th, 1919 (W.D.), on alder; Agassiz, Oct. 5th, 1921 (W.D.), on walnut. Common species.
- Corythucha salicata* Gibs. Saanich, May 8th, 1918 (W.D.), on alder; Penticton, Sept. 21st, 1919 (W.D.), on cottonwood; Mission, August 22nd, 1919 (W.D.), on apple; August 21st, 1919 (W.D.), on *Salix lasiandra*. Common species.
- Corythucha marmorata* Uhl. Vernon, June 11th, 1914 (M.H.R.); Midday Valley, July, 1924 (K.F.A.).
- Corythucha marmorata* var. *informis* Parsh. Vernon, Sept. 25th, 1918 (W.D.); Penticton, Aug. 24th, 1920 (W.D.), on cottonwood.
- Corythucha immaculata* O. & D. Chilcotin, May 14th, 1920 (E.R.B.), on *Balsamorhiza sagittata*; Summerland, July 18th, 1922 (W.D.).
- Leptobyrsa rhododendri* Horv. Victoria, July 1st, 1924 (W.D.), on rhododendron.
- Physatocheila plexa* (Say). (= *variegata* Parsh.). Vernon, April 20th, 1915 (M.H.R.); Mission, Sept. 10th, 1924 (W.D.); on *Salix lasiandra*; May 13th, 1926 (W.D.), on cottonwood; Chilliwack (O.W.), on alder; (as *ornata* Van D., Downes Proc. B. C. Ent. Soc., 1924, p. 28).

Family PHYMATIDAE

- Phymata erosa* subsp. *fasciata* (Gray). Lillooet, Sept. 2nd, 1918 (R.C.T.); Summerland, Aug. 28th, 1924 (W.D.); Penticton.

Family REDUVIIDAE

Subfamily PLOIARIINAE

- Empicoris vagabundus* var. *vagabundus* Linn. (= *canadensis* Parsh.). (McAtee, Proc. U.S. Nat. Mus. 67, p. 18). Victoria, Aug. 18th, 1919 (W.D.); Vancouver, Aug. 14th, 1924 (W.D.). Found on tree trunks on boulevards in shaded situations in Vancouver; also in Stanley Park. In Victoria on the shady side of board fences, usually under the rail, among cobwebs.
- Empicoris vagabundus* var. *pilosus* Fieb. (= *hirtipes* Banks. McAtee, Op. cit.). Victoria, Aug. 16th, 1919 (W.D.); Sept. 8th, 1918 (W.D.); Vancouver, Aug. 20th, 1924 (W.D.); with the preceding species, but more abundant.
- Empicoris rubromaculatus* Blackb. (= *californica* Banks). Victoria, May 24th, 1921 (W.D.); abundant in an old henhouse among the cobwebs; Keatings, May 30th, 1922 (W.D.), in flight; Chilliwack (O.W.).

Subfamily STENOPIDINAE

Pygolampis sericea Stal. Vancouver, May 3rd, 1903.

Subfamily APIOMERINAE

Apiomerus crassipes (Fabr). Vanc. Id. (Van D. list, 1917).

Subfamily HARPACTORINAE

Zelus socius Uhl. Vernon, June 20th, 1919 (E.P.V.).

Zelus audax Banks Goldstream, July 4th, 1926 (C.J.D.), on spruce.

Rhynocoris ventralis (Say). Penticton, June, 1919 (R.C.T.); Enderby, June 1st, 1924 (W.D.); Merritt, July, 1924 (K.F.A.); Duncan, May 27th, 1920 (W.D.); Victoria, May, 20th, 1925 (W.D.).

Pselliopus spinicollis (Champ). Lillooet, July 7th, 1919 (A.W.H.).

Fitchia spinosula Stal. Oliver, Aug. 26th, 1922; with nymphs (E.R.B.).

Sinea diadema (Fabr). Vernon, July 29th, 1920 (M.H.R.); Enderby, Aug. 22nd, 1920 (W.D.); Merritt, Aug., 1924 (K.F.A.).

Family MESOVELIIDAE

Mesovelia mulsanti White. Saanich (Elk Lake), Sept. 1924 (W.D.). Abundant on surface of water vegetation; winged forms rare.

Family NABIDAE

Subfamily PROSTEMMINAE

Pagasa fusca (Stein). Saanich, Nov. 13th, 1917 (W.D.); Victoria, June 12th, 1924 (W.D.); Vernon, Oct. 3rd, 1921 (W.D.); Enderby, Aug. 23rd, 1920 (W.D.); Goldstream, July 7th, 1926 (W.D.). In dry places, under boards and logs or dried manure.

Nabis subcoleoptratus Kirby. Enderby, Aug. 22nd, 1920 (W.D.).

Nabis ferus (Linn). Saanich, Sept. 11th, 1918 (W.D.); Penticton, Aug. 16th, 1920 Terrace (W.W.H.).

Nabis ferus var. *punctatus* Costa. Saanich, June 30th, 1917 (W.D.); Vernon, March 6th, 1919 (M.H.R.). (Parshley, Univ. Mich. occ. pap. 71, p. 28).

Nabis alternatus Parsh. Penticton, Aug. 16th, 1920 (W.D.); Royal Oak, Sept. 6th, 1918 (W.D.); Duncan, Aug. 4th, 1921 (W.D.).

Nabis roseipennis Reut. Penticton, Aug. 16th, 1920 (W.D.); Sicamous, June 25th, 1923 (W.D.); New Westminster, Sept. 9th, 1924 (W.D.); Vernon, Sept. 25th, 1918 (W.D.).

Nabis rufusculus Reut. Saanich, Oct. 8th, 1917 (W.D.); Vernon, Sept. 25th, 1918 (W.D.); Oliver, Aug. 26th, 1924 (W.D.); Duncan, Sept. 17th, 1919 (W.D.).

Nabis inscriptus (Kirby). Br. Col. (Van D. list, 1917).

Family CIMICIDAE

Cimex lectularius Linn. Chilcotin, July 7th, 1920 (E.R.B.); Vernon, Ap. 5th, 1918 (E.R.B.).

Cimex pilosellus (Horv). Br. Col. (Van D. list, 1917).

Oeciacus vicarius Horv. B. C. (Canadian National Collection).

Family ANTHOCORIDAE

Lyctocoris campestris (Fab). Victoria, May 24th, 1921 (W.D.); in a neglected henhouse under slats and manure, apparently preying on the numerous red mites. Duncan, June 6th, 1919 (A.W.H.).

Lyctocoris elongatus Reut. Midday Valley, July 23rd, 1921 (R.H.); on *Pinus ponderosa*.

Lyctocoris stalii (Reut). Vanc. Id. (Van D. list, 1917).

Anthocoris antevolens White. Victoria, Sept. 8th, 1922 (W.D.); Summerland, Aug. 28th, 1924 (W.D.); Agassiz, Oct. 5th, 1921 (W.D.); Penticton, Aug. 23rd, 1920 (W.D.).

Anthocoris bakeri Popp. Thormanby Id., Aug. 8th, 1925 (O.W.).

Anthocoris melanocerus Reut. Vernon, Sept. 26th, 1919 (W.D.); Penticton, Aug. 23rd, 1920 (W.D.); Mt. Waleach, July 28th, 1923, at 5,000 ft. (K.F.A.).

Tetraphleps latipennis Van D. Victoria, July 23rd, 1923 (K.F.A.).

Triphleps insidiosa var. *tristicolor* White. Saanich, June 18th, 1918 (W.D.); Penticton, July 23rd, 1920 (W.D.); common species.

Family **MIRIDAE**

- Miris dolabratus* (Linn). Victoria, June 28th, 1921 (W.D.); Chilliwack, June 14th, 1925 (O.W.); Lillooet (A.W.A.P.).
- Stenodema trispinosum* Reut. Victoria, Aug. 13th, 1918 (W.D.); Saanich, June 18th, 1918 (W.D.); Vernon, May 24th, 1918 (W.D.).
- Stenodema vicinum* (Prov). Saanich, Aug. 18th, 1917 (W.D.); Victoria, May 4th, 1921 (W.D.).
- Stenodema virens* (Linn). Chilcotin, May 16th, 1921 (E.R.B.); Sept. 1st, 1920 (E.R.B.); Nicola Lake, May 21st, 1922 (E.R.B.); det. Knight.
- Megaloceroea debilis* Uhl. Saanich, June 19th, 1924 (W.D.).
- Megaloceroea gracilis* (Van D.). Chopaka, July 1st, 1921; det. Knight.
- Megaloceroea recticornis* (Geoff). Duncan, Aug. 4th, 1921 (W.D.); det. Knight.
- Trigonotylus ruficornis* (Geoff). Chilcotin, July 27th, 1920 (E.R.B.); Enderby, Aug. 22nd, 1920 (W.D.); Shawnigan, July 15th, 1926 (W.D.).
- Pithanus maerkelii* (H.S.). Victoria, June 1st, 1918 (W.D.); Esquimalt, June 25th, 1923 (W.D.).

Subfamily **CAPSINAE**

- Dacerla formicina* Parsh. Saanich, August 3rd, 1918 (W.D.); Shawnigan, July 21st, 1918 (W.D.); taken by sweeping thimbleberry (*Rubus parviflorus*).
- Platytyellus rubellicollis* var. *confluens*. Agassiz, July 29th, 1921 (W.D.).
- Platytyellus bivittis* (Stal). Agassiz, July 29th, 1921 (W.D.); Kelowna, June 28th, 1925 (W.D.); det. Knight.
- Phytocoris lasiomerus* Reut. Saanich, July 3rd, 1918 (W.D.); Penticton, Aug. 16th, 1920 (W.D.); New Westminster, Aug. 14th, 1924 (W.D.). Swept from willow.
- Phytocoris pallidicornis* Reut. Nakusp, Sept. 21st, 1905; (Can. Nat. Coll.).
- Phytocoris interspersus* Uhl. Victoria, July 3rd, 1918 (W.D.); Vancouver, Aug. 15th, 1924 (W.D.); Common species on trees.
- Phytocoris neglectus* Knight. (As *eximius* Reut.; Parshley, Univ. Mich. occ. pap. 71, p. 30). Victoria, Sept. 9th, 1919 (W.D.); Agassiz, Sept., 1921 (R.G.); New Westminster, Sept. 9th, 1924 (W.D.); swept from *Salix lasiandra*; fairly common.
- Phytocoris tiliae* Fab. Vancouver, Sept. 21st, 1921 (W.D.). Common on tree trunks on the boulevards; an introduced species.
- Phytocoris commissuralis* Van D. Victoria, Sept. 8th, 1922 (W.D.); Shawnigan, Sept. 3rd, 1923. Rare.
- Phytocoris stellatus* Van D. Victoria, July 21st, 1924 (W.D.); Burnaby, August 18th, 1923 (W.D.); swept from *Pinus contorta*. Det. Van Duzee.
- Adelphocoris rapidus* Say. Vernon, July 7th, 1920 (N.L.C.); Enderby, Aug. 23rd, 1920 (W.D.); Merritt, June, 1920 (K.F.A.); Prince Rupert, June 3rd, 1924 (E.R.B.).
- Adelphocoris superbus* (Uhl). Vernon, June 29th, 1920 (M.H.R.); Saanich, Aug. 3rd, 1918 (W.D.); Vancouver, July 28th, 1922 (W.D.).
- Stenotus binotatus* (Fabr). Royal Oak, July 7th, 1919 (W.D.); Duncan, Aug. 4th, 1921 (W.D.); common species; swept from *Salix scouleriana*.
- Irbisia nigripes* Knight. Vernon (Can. Nat. Coll., Can. Ent. LVII., p. 95).
- Irbisia brachycerus* var. *solani* (Heid). Vernon, May 24th, 1919 (E.P.V.); Masset, (Keen, Rep. Ent. Soc. Ont., 1912, p. 136).
- Irbisia sericans* (Stal). Massett, June, 15th, 1892 (Keen, Rep. Ent. Soc. Ont., 1912, p. 136).
- Thyrillus pacificus* (Uhl). Vernon, July 28th, 1920 (M.H.R.). Vanc. Id. (Van D. list, 1917).
- Calocoris norvegicus* (Gmel). Saanich, June 18th, 1918 (W.D.). Common species in meadows.
- Polymerus unifasciatus* (Fabr). Merritt, June, 1924 (K.F.A.); Smithers, July 5th, 1924 (E.R.B.).
- Polymerus venaticus* Uhl. Penticton, Aug. 16th, 1920 (W.D.).
- Capsus ater* (Linn). Chilcotin, July 27th, 1920 (E.R.B.); Vernon, June 20th, 1919 (E.P.V.).
- Capsus ater* var. *tyrannus* (Fabr). Chilcotin, July 23rd, 1920 (E.R.B.); Chilliwack (O.W.).
- Lygidea rubecula* var. *obscura* Reut. Penticton, August 16th, 1920 (W.D.); Chilcotin, July 28th, 1920 (E.R.B.).
- Lygus pratensis* var. *oblineatus* (Say). Vernon, June 20th, 1919 (E.P.V.); Walhachin, July 16th, 1918 (E.R.B.); Royal Oak, June 30th, 1917 (W.D.); Duncan, Aug. 4th, 1921 (W.D.); Smithers, July 5th, 1924 (E.R.B.).

- Lygus pratensis* var. *rubidus* Knight. Shawnigan, June 11th, 1921 (W.D.); Saanich, May 6th, 1921 (W.D.).
- Lygus pratensis* var. *strigulatus* Walk. Det. Knight. Penticton, July 15th, 1923 (W.D.).
- Lygus convexicollis* Reut. Shawnigan, July 15th, 1926 (W.D.); swept from Douglas fir.
- Lygus humeralis* Knight. Bear Lake, July 20th; Ainsworth, July 2nd; Revelstoke, Selkirk Mts., July 1st (J.C.D.). (Cornell Univ. Exp. Sta. bul. 391, p. 570).
- Lygus columbiensis* Knight. Fry Creek, July 23rd. (Cornell Univ. Exp. Sta. bul. 391, p. 571.)
- Lygus atriflavus* Knight. Mt. McLean, July 6th, 1919 (A.W.H.), at 1,500 ft. Det. Knight.
- Lygus elisus* Van D. Vernon, May 6th, 1920 (M.H.R.); Penticton, Sept. 21st, 1919 (W.D.); Chilcotin, May 14th, 1922 (E.R.B.); Saanich, Sept. 8th, 1917 (W.D.); common species.
- Lygus elisus* var. *hesperus* Knight. Royal Oak, Aug. 21st, 1917 (W.D.); Vernon, Sept. 24th, 1919 (W.D.); common species.
- Lygus elisus* var. *viridiscutatus* Knight. Saanich, May 6th, 1921 (W.D.).
- Lygus nubilatus* Knight. Saanich, June 10th, 1918 (W.D.); Victoria, May 10th, 1922 (W.D.); common species.
- Lygus nubilosus* Knight. Royal Oak, August 18th, 1917 (W.D.); det. Parshley.
- Lygus distinguendus* Stal. Barkerville, August 14th, 1921 (E.R.B.); Glacier, (Cornell Agr. Exp. Sta. bul. 391, p. 587).
- Lygus rubicundus* Fallen. Mission, August 5th, 1924 (W.D.); Kelowna, June 23rd, 1925 (W.D.); Vernon, Sept. 24th, 1919 (W.D.).
- Lygus rubicundus* var. *winnipegensis* Knight. Chilcotin, June 18th, 1921 (E.R.B.)
- Lygus campestris* (Linn.). Saanich, June 6th, 1918 (W.D.); Vernon, Aug. 27th, 1918 (R.C.W.); Chilcotin, Sept. 1st, 1920 (E.R.B.); Mt. McLean, Aug. 23rd, 1920 (A.W.H.), at 5,500 ft.
- Lygus pabulinus* (Linn.) Vancouver, July 23rd, 1922 (W.D.); Saanich, July 23rd, 1924 (W.D.); Salt Spring Id., July 21st, 1925 (W.D.).
- Lygus approximatus* Stal. Selkirk Mts. (J.C.B.). (Cornell Agr. Exp. Sta. bul. 391, p. 599).
- Lygus confusus* Knight. Barkerville, August 14th, 1921 (E.R.B.).
- Lygus communis* Knight. Saanich, July 8th, 1918 (W.D.); Duncan, August 28th, 1919 (W.D.); New Westminster, Aug. 14th, 1924 (W.D.); Chilcotin, Sept. 1st, 1920 (E.R.B.). Scarce.
- Plesiocoris rugicollis* (Fall). Det. Knight. Barkerville, August 14th, 1921 (E.R.B.).
- Neoborus amoenus* (Reut.) Victoria, Aug. 27th, 1920 (W.D.).

Subfamily CLIVINEMINAE

- Clivinema fusca* Downes. Victoria, August 12th, 1922 (W.D.); July 10th, 1923 (W.D.); B. C. Ent. Soc. Proc., 1924, p. 29).

Subfamily DICYPHINAE

- Hyaliodes vitripennis* (Say). Mission, Aug. 5th, 1924 (W.D.); New Westminster, Aug. 14th, 1924 (W.D.), on willow; Chilliwack (O.W.), common on thimbleberry.
- Dicyphus agilis* (Uhl). Saanich, June 18th, 1918 (W.D.); Agassiz, Sept., 1921 (R.G.); Duncan, Aug. 4th, 1921 (W.D.).
- Dicyphus vestitus* Uhl. Vernon, May 6th, 1920 (M.H.R.); Victoria, Sept. 7th, 1920 (W.D.); Goldstream, Sept. 9th, 1923 (K.F.A.).

Subfamily ORTHOTYLINAE

- Labops hirtus* Knight. Chilcotin, July 23rd, 1920 (E.R.B.); Vernon, May 18th, 1924 (K.F.A.).
- Labops tumidifrons* Knight. Chilcotin, June 15th, 1920 (R.C.T.).
- Labops burmeisteri* Stal. Chilcotin, June 15th, 1920 (R.C.T.).
- Strongylocoris stygica* (Say.). Smithers, July 5th, 1924 (E.R.B.).
- Pilophorus tibialis* Van D. Goldstream, September 15th, 1925 (W.D.), on *Pinus contorta*; Summerland, August 28th, 1924 (W.D.); on *Pinus ponderosa*.
- Pilophorus uhleri* Knight. Det. Knight. Victoria, September 15th, 1924 (W.D.); on *Pinus contorta*.
- Pilophorus clavatus* (Linn.). Det. Knight. Victoria, September 17th, 1924 (W.D.); Mission, September 22nd, 1925 (W.D.); on *Salix lasiandra*.

- Ceratocapsus fusiformis** Van D. (*As modestus*—Parshley, Univ. Mich. Occ. pap. 71, p. 32); Saanich, September 15th, 1924 (W.D.); Victoria, September 16th, 1925 (W.D.); Mission, September 10th, 1924 (W.D.); Penticton, August 25th, 1924 (W.D.); Det. Van. D.
- Ceratocapsus apicatus** Van D. Victoria, Sept. 15th, 1924 (W.D.); on *Pinus contorta*. Goldstream, September 15th, 1925 (W.D.); New Westminster, September 10th, 1925 (W.D.); Summerland, August 28th, 1924 (W.D.); Det. Knight.
- Lopidea dakota** Knight. Vernon, June 9th, 1905 (Ent. News XXXIV., p. 67).
- Lopidea ampla** Van D. (*As aculeata*; Parshley, Univ. Mich. Occ. pap. 71, p. 32); Sea Island, Aug. 11th, 1916 (R.C.T.); attacking potato leaves and shoots. Saanich, July 29th, 1924 (W.D.).
- Hadronema militaris** Uhl. Vernon, June 14th, 1917 (R.C.T.); Penticton, June, 1919 (R.C.T.).
- Hadronema robusta** Uhl. Midday Valley, Merritt, July, 1924 (K.F.A.); Summerland, July 17th, 1923 (W.D.); This species is said to attack human beings, causing rather painful "bites" (fide Auden.).
- Hadronema princeps** Uhl. Vernon, July 8th, 1920 (M.H.R.); Summerland, June 17th, 1923 (W.D.).
- Paraproba nigrinervis** Van D. Victoria, July 14th, 1918; Salt Spring Id., July 21st, 1925 (W.D.); Chilliwack, August 8th, 1926 (O.W.).
- Diaphnidia debilis** Uhl. Victoria, July 14th, 1918 (W.D.); Saanich, August 18th, 1922 (W.D.); det. Parshley.
- Diaphnidia provancheri** (Burque). Victoria, August 31st, 1918 (W.D.); det. Parshley.
- Orthotylus insignis** Van D. Vernon, June 8th, 1918 (R.C.T.); det. Van. Duzee.
- Orthotylus chlorionis** (Say.). Chilcotin, September 1st, 1920 (E.R.B.).
- Orthotylus tibialis** Van D. Mt. McLean, June 21st, 1917 (M.H.R.); det. Van. Duzee.
- Orthotylus pacificus** Van D. Victoria, July 14th, 1918 (W.D.); Merritt, June, 1924 (K.F.A.); Barkerville, August 14th, 1924 (E.R.B.). Common species on *Salix scouleriana*.
- Orthotylus katmai** Knight. Barkerville, August 14th, 1921 (E.R.B.); det. Knight.
- Orthotylus formosus** Van D. Saanich, July 8th, 1918 (W.D.); det. Parshley.
- Blepharidopterus angulatus** (Fall.). New Westminster, August 14th, 1924 (W.D.); Vancouver, August 14th, 1924 (W.D.); det. Knight. On *Salix lasiandra*.
- Mecomma gilvipes** (Stal.). Chilcotin, September 1st, 1920 (E.R.B.); Saanich, August 13th, 1918 (W.D.); Victoria, July 24th, 1920 (W.D.).
- Labopidea nigripes** (Reut.). Br. Col. (Van D. list 1917.).
- Labopidea nigri-setosa** Knight. Barkerville, August 15th, 1921 (E.R.B.); Can. Ent. LVII, p. 94.

Subfamily DERAEOCORINAE

- Deraeocoris brevis** (Uhl.). Victoria, August 10th, 1919 (W.D.); Goldstream, May 10th, 1925 (W.D.); Mission, Aug. 5th, 1924 (W.D.).
- Deraeocoris brevis piceatus** Knight. Vernon, September 27th, 1919 (W.D.); Summerland, July 18th, 1923 (W.D.); Penticton, September 22nd, 1919 (W.D.); Royal Oak, June 4th, (R.C.T.).
- Deraeocoris validus** (Reut.). Duncan, September 17th, 1925 (W.D.).
- Deraeocoris incertus** Knight. Saanich, July 23rd, 1924 (W.D.); Victoria, July 14th, 1918; Shawnigan, September 3rd, 1923 (W.D.); Vancouver, July, 1914.
- Deraeocoris borealis** Van D. Victoria, August 30th, 1920 (W.D.); Det. Knight (B. C. Ent. Soc. Proc. 1921, p. 20.).
- Deraeocoris fasciolus** Knight. Victoria, August 30th, 1921 (W.D.); on Lombardy poplar; Vancouver, August 18th, 1923 (W.D.), on alder; Salmon Arm, July 27th, 1925 (A.A.D.); Det. Knight.

Subfamily PHYLINAE

- Coquillettia insignis** Uhl. Okanagan Falls, June 16th, 1919 (R.C.T.).
- Macrotylus multipunctatus** Van D. Vernon, June 10th, 1918 (R.C.T.); Univ. Mich. Occ. pap. 71, p. 34.
- Lepidopsallus rubidus atricolor** Knight. New Westminster, August 14th, 1924 (W.D.); det. Knight.
- Psallus alnicola** D. & S. Barkerville, August 14th, 1921 (E.R.B.); det. Knight.
- Psallus parshleyi** Knight. Victoria, July 1st, 1918 (W.D.); det. Knight.
- Plagiognathus moerens** Reut. Merritt, July, 1922 (R.H.)
- Plagiognathus alboradialis** Knight. Mission, August 5th, 1924 (W.D.); det. Knight.

- Plagiognathus politus pallidicornis* Knight. Penticton, July 15th, 1923 (W.D.); Vancouver, July 28th, 1922 (W.D.); det. Knight.
- Plagiognathus obscurus fraternus* Uhl. Duncan, July 28th, 1919 (W.D.); Sooke, June 30th, 1923 (W.D.); Victoria, June 25th, 1921 (W.D.); Smithers, July 5th, 1924 (E.R.B.); Agassiz, July 29th, 1921 (W.D.).
- Phylloidea picta* var. *hirta* Van D. Vernon, June 10th, 1918 (M.H.R.); (Parshley; Univ. Mich. Occ. pap. 71, p. 35.).
- Chlamydatus pulicarius* (Fall.). Sooke, June 30th, 1923 (W.D.).
- Chlamydatus bakeri* Bergr. (var.) Vancouver, July 28th, 1922 (W.D.); Penticton, Sept. 21st, 1919 (W.D.); det. Knight.
- Campylomma verbasci* (Meyer.). Royal Oak, September 13th, 1917 (W.D.); Penticton, August 25th, 1924 (W.D.).

Family GERRIDAE

- Gerris remigis* Say. Vernon, April 8th, 1919 (M.H.R.); Saanich, August 16th, 1917 (W.D.); common species.
- Gerris incurvatus* Drake and Hottes. Saanich, September 5th, 1924 (W.D.); Vernon, September 30th, 1921 (W.D.); common species. (As *marginatus*—Parshley, B. C. Ent. Soc., 1921, p. 21.).
- Gerris buenoi* Kirk. Saanich, August 9th, 1919 (W.D.); Vancouver, September 21st, 1921 (W.D.); common species.
- Gerris incognitus* Drake and Hottes. Kaslo, June 29th, 1903 (R.P.C.); Goldstream, May 17th, 1922 (K.F.A.).
- Gerris notabilis* Drake and Hottes. B. C. (Proc. Biol. Soc. Wash. 38, p. 73); Saanich, June 18th, 1918; Vernon, October 3rd, 1921 (W.D.). (As *rufoscutellatus*—Parshley, Univ. Mich. Occ. pap. 71, p. 35.).
- Gerris rufoscutellatus* Latr. Br. Col. (Van D. list, 1917).

Family SALDIDAE

- Saldula explanata* (Uhl.). Mt. Waleach, July 23rd, 1923 (K.F.A.); Enderby, October 10th, 1920 (W.D.); det. Van D.
- Saldula comata* Parsh. Saanich, June 17th, 1919 (W.D.); Vernon, September 26th, 1918 (W.D.); Nicola Lake, April 25th, 1922 (E.R.B.).
- Saldula interstitialis* (Say.). Duncan, September 17th, 1919 (W.D.); Chilcotin, April 28th, 1920 (E.R.B.); Shawnigan, August 2nd, 1919 (W.D.); Terrace, (W.W.H.).
- Saldula nigrita* Parsh. Duncan, September 17th, 1919 (W.D.). On shore of Cowichan River.
- Lampracanthia anthracina* Uhl. B. C. (Canadian National Collection.).
- Lampracanthia coriacea* Uhl. Chilcotin, June 13th, 1921 (E.R.B.); Merritt, June, 1924 (K.F.A.).

Family NOTONECTIDAE

- Notonecta lutea* Mull. Br. Col. (Van D. list, 1917).
- Notonecta borealis* Torre, B. and Hu. Bearfoot Mountains, B. C., September, (Bul. Brook. Ent. Soc. XVIII, 3, 1923).
- Notonecta undulata* Say. Vernon, September 26th, 1919 (W.D.); Saanich, September 1st, 1917 (W.D.); Mt. Cheam, at 5,000 ft. (O.W.); common everywhere.
- Notonecta insulata* Kirby. Vernon, September 26th, 1919 (W.D.); Metchosin, August 30th, 1919 (W.D.); common.
- Buenoa elegans* (Fieb.). Beaver Lake, Saanich, August 9th, 1919 (W.D.); Duncan, September 4th, 1926 (W.D.).

Family NEPIDAE

- Ranatra americana* Montd. Vernon, October 3rd, 1921 (W.D.); Agassiz, September, 1921 (R.G.). Det. Hungerford.
- Ranatra brevicollis* Montd. Lonely Lake, Vanc. Id., July 3rd, 1913 (Walker); (Rep. Ont. Ent. Soc., 1917, p. 165.).

Family BELOSTOMATIDAE

- Lethocerus americanus* (Leidy). Vernon (M.H.R.); Kelowna, July 17th, 1918 (R.C.W.); Victoria, April 20th, 1926 (G.A.H.).

Family CORIXIDAE

- Callicorixa praeusta* (Fieb.). Vernon, September 26th, 1919 (W.D.); Metchosin, August 30th, 1919 (W.D.); Mission, November 4th, 1925 (W.D.); det. Hungerford.
- Arctocorixa laevigata* Uhl. Vernon, September 26th, 1919 (W.D.); Metchosin, August 30th, 1919 (W.D.); Mission, November 4th, 1925 (W.D.); det. Hungerford.

Suborder **HOMOPTERA**Family **CICADIDAE**Subfamily **CICADINAE**

- Okanagana ornata** Van D. Lillooet, (in Can. Nat. Coll.)
Okanagana oregona Davis. Penticton (in Can. Nat. Coll.).
Okanagana rimosa (Say.). Fraser Mills, July, 1926 (L.E.M.); det. Davis.
Okanagana occidentalis (Walk.). Armstrong, July, 1914 (W.D.); Goldstream, June 12th, 1924 (W.D.); det. Davis; common.
Okanagana bella Davis. Vernon; Walhachin, May 7th, 1907 (E.R.B.); Hope Mountain, July 13th, 1919; Chilcotin, June 1st, 1921 (E.R.B.).
Platypedia areolata Uhl. Armstrong, July, 1914 (W.D.); Nelson, May 6th, 1918; Goldstream, June 12th, 1923 (W.D.); Victoria, June 10th, 1923 (K.F.A.).

Family **CERCOPIDAE**Subfamily **APHROPHORINAE**

- Aphrophora irrorata** Ball. Victoria, September 12th, 1919 (W.D.); Vancouver, September 21st, 1921 (W.D.); on *Pinus contorta*.
Aphrophora permutata Uhl. Saanich, October 19th, 1917 (W.D.); Vernon, June 24th, 1917 (R.C.T.); Shawnigan, June 26th, 1923 (W.D.); Goldstream, September 15th, 1925 (W.D.); common species.
Philaronia bilineata (Say.). Chilcotin, July 20th, 1920 (E.R.B.).
Philaenus leucophthalmus (Linn.). Saanich, August 8th, 1918 (W.D.); Summerland, July 18th, 1923 (W.D.); Vernon. Common species everywhere together with the varieties *ustulatus* (Fall.), *lateralis* (Linn.), *leucocephalus* (Linn.), *fabricii* Van D., *pallidus* (Zett.).
Clastoptera obtusa (Say.). Saanich, August 13th, 1918 (W.D.); Goldstream, August 30th, 1923 (W.D.); Penticton, August 16th, 1920 (W.D.); Mission, August 5th, 1924 (W.D.); on alder.
Clastoptera proteus Fitch. Penticton, July 15th, 1923 (W.D.), on willow; Enderby, Aug. 22nd, 1920 (W.D.), on dogwood; Mission, Sept. 10th, 1924 (W.D.).
Clastoptera lineatocollis Stal. Summerland, July 18th, 1923 (W.D.); on *Bigelovia*.

Family **MEMBRACIDAE**Subfamily **SMILIINAE**

- Ceresa diceros** (Say). Agassiz, Aug. 11th, 1925 (G.S.)
Ceresa bubalus Fabr. Agassiz, Aug. 29th, 1920 (R.G.). Up to the present this is the only locality from which this species and the preceding have been recorded in B. C.
Ceresa basalis Walk. Saanich, Oct. 8th, 1917 (W.D.); Armstrong, September 30th, 1919 (W.D.); Vancouver, Sept. 13th, 1918 (W.D.); Vernon, Sept. 24th, 1919; generally distributed.
Stictocephala pacifica Van D. Saanich, August 3rd, 1918 (W.D.); Shawnigan, July 21st, 1918 (W.D.); Duncan, Aug. 25th, 1919 (W.D.); Vernon, July 29th, 1920 (M.H.R.); det. Funkhouser. By some this species is considered a form of *inermis* (Fabr.).
Stictocephala franciscana (Stal.) Goldstream, July 18th, 1923 (K.F.A.), April 28th, 1926 (W.D.); May 11th, 1925 (W.D.); Shawnigan, July 11th, 1921 (W.D.).
Telamona barbata Van D. Midday Valley, Merritt, Aug., 1924 (K.F.A.), on cottonwood; Spious Creek, July 13th, 1923 (R.H.); Saanich, July 18th, 1924 (W.D.), on willow. Det. Van D.

Subfamily **HOPLOPHORINAE**

- Platycotis vittata** (Fabr.) Saanich, June 12th, 1918 (W.D.); Victoria, June 27th, 1918 (W.D.) var. *4-vittata* (Say) Saanich, June 13th, 1918 (W.D.), on oak.
Platycotis maritimus Van D. Goldstream, Sept. 9th, 1923 (K.F.A.); Thormanby Id., Aug. 8th, 1925 (O.W.)

Subfamily **MEMBRACINAE**

- Campylenchia latipes** (Say). Vernon, Sept. 28th, 1918 (W.D.); Enderby, Aug. 10th 1917 (W.D.); Penticton, Aug. 16th, 1920 (W.D.)

Family **CICADELLIDAE**Subfamily **PAROPINAE**

Koebelia californica Bak. Goldstream, July 7th, 1926 (W.D.), on *Pinus contorta*.

Subfamily **BYTHOSCOPINAE**

- Agallia novella** (Say). Goldstream, June 2nd, 1918 (W.D.); Sicamous, May 25th, 1918 (W.D.)
- Agallia 4-punctata** Prov. Mission, May 20th, 1924 (W.D.); Sooke, June 30th, 1923 (W.D.)
- Agallia sanguinolenta** (Prov.) Penticton, July 18th, 1923 (W.D.); Duncan, Aug. 4th, 1921 (W.D.); Mt. Cheam, at 5,000 ft. (O.W.); Goldstream, June 7th, 1926 (W.D.). Very common.
- Agallia lyrata** Bak. Armstrong, Sept. 29th, 1918 (W.D.); Victoria, June, 1921 (W.D.).
- Idiocerus amabilis** Ball. Saanich, Sept. 11th, 1918 (W.D.); Mission, Sept. 25th (W.D.); Taken on *Salix lasiandra*.
- Idiocerus nervatus** Van D. Saanich, Sept. 15th, 1924 (W.D.); Penticton, Aug. 25th, 1924 (W.D.); Sicamous, Aug. 14th, 1926 (W.D.). On *Salix lasiandra*.
- Idiocerus pallidus** Fitch. Saanich, July 13th, 1918 (W.D.); Victoria, Aug. 17th, 1917 (W.D.); on *Salix scouleriana*.
- Idiocerus suturalis** Fitch. Saanich, July 23rd, 1924 (W.D.); New Westminster, Sept. 10th, 1925 (W.D.); on aspen. var. *lunaris* Ball. Saanich, Aug. 3rd, 1918 (W.D.). var. *vagus* Ball. Chilcotin, Sept., 1st, 1920 (E.R.B.); Det. De Long.
- Idiocerus duzeei** Prov. (var.) Victoria, Sept. 22nd, 1923 (W.D.); on cottonwood. This species appears to be identical with *duzeei* except that the tips of the elytra are in all cases pale and not fuscous.
- Idiocerus alternatus** Fitch. Victoria, Sept. 20th, 1924 (W.D.); Mission, Sept. 10th, 1924 (W.D.); Cranbrook, May 4th, 1922 (C.B.D.). On *Salix scouleriana*.
- Idiocerus concinnus** Ball. Saanich, Sept. 11th, 1918 (W.D.); Mission, Sept. 25th, 1925 (W.D.); Penticton. On *Salix lasiandra*. Det. Ball.
- Idiocerus rufus** G. & B. Victoria, Sept., 1924 (W.D.); Saanich, Sept. 15th, 1924 (W.D.); New Westminster, Aug. 14th, 1924 (W.D.); var. *cingulatus* Ball. On Lombardy poplar and cottonwood. The variety is the common form.
- Idiocerus musteus** Ball. Royal Oak, July 18th, 1917 (W.D.); Armstrong, Sept. 29th, 1918 (W.D.); New Westminster, Sept. 10th, 1918 (W.D.). Common species on *Salix scouleriana*.
- Idiocerus productus** Bak. Chilcotin, July 23rd, 1920 (E.R.B.); det. DeLong.
- Idiocerus femoratus** Ball. (?) Saanich, Aug. 25th, 1918 (W.D.); on *Salix scouleriana*. Det. Van Duzee.
- Idiocerus lachrymalis** Fitch. Victoria, July 23rd, 1924 (W.D.), on aspen; Merritt, June, 1924 (K.F.A.).
- Idiocerus ramentosus** (Uhl.) Vanc. Id. (Van D. list, 1917).
- Idiocerus provancheri** Van D. New Westminster, Sept. 9th, 1924 (W.D.); Mission, Sept. 10th, 1924 (W.D.); on *crataegus*; Duncan, Sept. 22nd, 1925 (W.D.); on *Ame-lanchier*; Chilliwack (O.W.); Armstrong, Aug. 11th, 1926 (W.D.); on *crataegus*.
- Macropsis viridis** (Fitch). Saanich, Aug. 3rd, 1918 (W.D.); Cowichan, Aug. 24th, 1918 (W.D.); Merritt, Aug., 1924 (K.F.A.); New Westminster, Aug. 14th, 1924 (W.D.).
- Macropsis occidentalis** (Van D.) Royal Oak, July 7th, 1919 (W.D.)
- Macropsis basalis** (Van D.) Kelowna, June 28th, 1925 (W.D.), on aspen.
- Macropsis canadensis** (Van D.) Victoria, Aug. 6th, 1919 (W.D.); Merritt, Aug., 1924 (K.F.A.)
- Oncopsis variabilis** (Fitch). Vancouver, July 20th, 1923 (W.D.); Goldstream, June 12th, 1923 (W.D.); Vernon, July 4th, 1917 (R.C.T.)
- Oncopsis sobrius** (Walk.) Saanich, July 8th, 1924 (W.D.); Vancouver, July 20th, 1923 (W.D.); on alder.
- Oncopsis fitchi** Van D. Vernon, July 8th, 1920 (M.H.R.); det. DeLong.
- Oncopsis pruni** (Prov.) Br. Col. (Van D. list, 1917).
- Oncopsis californicus** Van D. Victoria, Aug. 3rd, 1922 (W.D.); Goldstream, June 12th, 1923 (W.D.); Chilliwack (O.W.)
- Bythoscopus rufoscutellatus** (Bak.) Vernon, June 24th, 1917 (R.C.T.); Chilcotin, June 16th, 1920 (E.R.B.)

Subfamily **CICADELLINAE**

Oncometopia lateralis (Fabr.) Enderby, Oct. 27th, 1920; Chilcotin, May 3rd, 1921 (E.R.B.); Vernon (M.H.R.)

- Cicadella hieroglyphica* var. *confluens* (Uhl). Royal Oak, Sept. 6th, 1918 (W.D.); Duncan, Sept. 17th, 1925 (W.D.); Agassiz, Jan. 3rd, 1921 (R.C.T.). Occurs in enormous numbers on willows. Reported hibernating in large numbers in a house at Agassiz.
- Cicadella gothica* Sign. Vernon, Sept. 25th, 1918 (W.D.); Sicamous, May 25th, 1918 (W.D.); common species.
- Helochara communis* Fitch. Saanich, Sept. 18th, 1917 (W.D.); Armstrong, Sept. 29th, 1918 (W.D.); Vancouver. Common species.
- Draeculacephala angulifera* Walk. Shawnigan, Sept. 15th, 1922 (W.D.); Vernon.
- Draeculacephala mollipes* (Say). Shawnigan, Sept. 15th, 1922 (W.D.); Vancouver; Chilliwack (O.W.). Common species in moist places.
- Draeculacephala crassicornis* Van D. Saanich, Aug. 14th, 1917 (W.D.); Victoria, July 1st, 1918; common.
- Draeculacephala noveboracensis* (Fitch). Penticton, July 10th, 1920 (W.D.); Vancouver, July 28th, 1922 (W.D.)
- Evacanthus acuminatus* (Fabr.) Saanich, Aug. 3rd, 1918 (W.D.); common on alder.
- Errhomenellus lineatus* Bak. Vernon, (R.C.T.); Okanagan Falls, May 18th, 1917.

Subfamily GYPONINAE

- Gypona octolineata* var. *striata* (Burm.) Enderby, July 22nd, 1920 (W.D.); Penticton, Sept. 22nd, 1921 (W.D.)
- Gypona angulata* Spangb. Shawnigan, July 21st, 1918 (W.D.); Saanich, July 7th, 1919 (W.D.)
- Xerophloea viridis* (Fabr.) Saanich, May 3rd, 1918 (W.D.); Vernon, Sept. 24th, 1921; Penticton, Sept. 21st, 1919 (W.D.)

Subfamily JASSINAE

- Aucephalus nervosus* (Shrank.) Agassiz, July 15th, 1921 (W.D.); Duncan, Aug. 4th, 1921 (W.D.)
- Aucephalus albifrons* (Linn.) Victoria, July 21st, 1924; Sept. 14th, 1924 (W.D.)
- Parabolacratus viridis* Ball. Vernon, June 13th, 1917 (R.C.T.); Penticton, Aug. 16th, 1920 (W.D.); Mission, May 20th, 1924 (W.D.)
- Aligia jucunda* (Uhl.) Victoria, Aug. 20th, 1920 (W.D.). A rare species.
- Mesamia coloradensis* (G. & B.) Penticton, Sept. 21st, 1919 (W.D.); on sage brush.
- Mesamia vitellina* (Fitch). Penticton, Aug. 16th, 1920 (W.D.); Goldstream, Sept. 10th, 1919 (W.D.)
- Scaphoideus scalaris* Van D. Saanich, Sept. 12th, 1918 (W.D.); Cowichan, Aug. 24th, 1918 (W.D.); Armstrong, Sept. 29th, 1918 (W.D.); Penticton, Sept. 21st, 1919 (W.D.)
- Scaphoideus immistus* (Say). Penticton, Aug. 16th, 1920 (W.D.)
- Platymetopius acutus* (Say). Saanich, Aug. 3rd, 1918 (W.D.); Shawnigan, July 21st, 1918 (W.D.); Enderby, July 22nd, 1920 (W.D.). Very common.
- Platymetopius oregonensis* Bak. Saanich, July 23rd, 1924 (W.D.); Victoria, July 6th, 1926.
- Platymetopius frontalis* Van D. Smithers, July 5th, 1924 (E.R.B.)
- Deltocephalus ocellaris* (Fall.) Chilcotin, Sept. 1st, 1920 (E.R.B.); Smithers, July 5th, 1924 (E.R.B.)
- Deltocephalus misellus* Ball. Victoria, July 11th, 1918 (W.D.); Sept. 3rd, 1920 (W.D.); Merritt, June, 1924 (K.F.A.)
- Deltocephalus inimicus* (Say). Victoria, June 30th, 1922 (W.D.); Penticton, July 15th, 1923.
- Deltocephalus bilineatus* G. & B. Goldstream, Sept. 2nd, 1926 (W.D.)
- Deltocephalus abdominalis* (Fabr.) Smithers, July 15th, 1924 (E.R.B.); Chilcotin, July 23rd, 1920 (E.R.B.)
- Deltocephalus striatus* L. (*affinis* G. & B.) Armstrong, Sept. 29th, 1918 (W.D.); Penticton, July 15th, 1923 (W.D.); Victoria, Aug. 12th, 1922 (W.D.); Chilcotin, July 23rd, 1920 (E.R.B.)
- Deltocephalus fuscineruosus* Van D. (var.) Saanich, Sept. 11th, 1918; New Westminster, Sept. 9th, 1924 (W.D.)
- Deltocephalus vanduzeei* G. & B. Saanich, June 5th, 1918 (W.D.); Victoria, June 29th, 1918 (W.D.)
- Deltocephalus castoreus* Ball. Victoria, May 20th, 1921 (W.D.); Sept. 3rd, 1920 (W.D.); on native grasses near the sea shore.

- Aconura magdalena* Baker. Oliver, May 8th, 1923 (Garrett.).
- Euscelis striolus* (Fall.) Shawnigan, Sept. 15th, 1922 (W.D.); Saanich, July 30th, 1925
- Euscelis escalantus* Ball. Chilcotin, Sept. 1st, 1920 (E.R.B.); det. DeLong.
(W.D.)
- Euscelis relativus* G. & B. Vanc. Id. (Van D. list, 1917).
- Euscelis obsoletus* Kirsch. Victoria, Aug. 20th, 1922 (W.D.); Goldstream, Aug. 26th, 1923 (W.D.); Saanich, July 10th, 1925. Det. China.
- Euscelis clavatus* (Ball.) Saanich, Aug. 3rd, 1918 (W.D.); Royal Oak, Sept. 6th, 1918 (W.D.)
- Euscelis striatulus* (Fall.) Cowichan, July 24th, 1918 (W.D.); Saanich, Aug. 24th, 1918 (W.D.); Shawnigan, Sept. 15th, 1922 (W.D.)
- Euscelis vaccinii* (Van D.) Victoria, June 25th, 1921 (W.D.); Goldstream, May 20th, 1924 (W.D.)
- Euscelis instabilis* (Van D.) Burnaby, Aug. 18th, 1923 (W.D.); Penticton, Aug. 16th, 1920 (W.D.)
- Eutettix strobi* (Fitch). Penticton, Aug. 16th, 1920 (W.D.); Summerland, July 17th, 1923 (W.D.)
- Eutettix scitulus* Ball. Penticton, Sept. 21st, 1919 (W.D.)
- Phlepsius superbus* Van D. Victoria, Aug. 10th, 1921 (W.D.); Goldstream, April 28th, 1926 (W.D.); swept from grass on hillsides. Det. DeLong.
- Phlepsius decorus* O. & B. Merritt, July, 1924 (K.F.A.)
- Phlepsius lascivius* Ball. Penticton, July 15th, 1923 (W.D.); Vernon, Sept. 26th, 1918 (W.D.)
- Phlepsius irroratus* Say. Royal Oak, Oct. 9th, 1917 (W.D.); Victoria, Sept. 8th, 1922 (W.D.)
- Phlepsius apertus* Van D. Penticton, Aug. 16th, 1920 (W.D.); Enderby, Aug. 22nd, 1920 (W.D.). Det. De Long.
- Phlepsius apertinus* O. & L. Victoria, July 11th, 1918 (W.D.); common species.
- Phlepsius fulvidorsum* (Fitch). Penticton, Aug. 16th, 1920 (W.D.); det. DeLong.
- Phlepsius occidentalis* Bak. Saanich, Aug. 14th, 1917 (W.D.); Victoria, Sept. 15th, 1922 (W.D.)
- Acinopterus acuminatus* var. *viridis* Ball. Summerland, July 27th, 1923 (W.D.); swept from range grass; det. Van Duzee.
- Thamnotettix kennicotti* (Uhl) Br. Col. (Van D. list, 1917).
- Thamnotettix subcupraeus* (Prov.) Enderby, Aug. 22nd, 1920 (W.D.); Sugar Lake, Aug. 31st, 1924 (W.D.)
- Thamnotettix geminatus* Van D. Royal Oak, Sept. 28th, 1917 (W.D.); Victoria, June 12th, 1918 (W.D.); Shawnigan, Aug. 21st, 1918 (W.D.); Vernon, Sept. 27th, 1919 (W.D.)
- Thamnotettix cockerelli* Ball. Chilcotin, July 29th, 1920 (E.R.B.); det. DeLong.
- Thamnotettix eburatus* Van D. Penticton, Sept. 22nd, 1919 (W.D.); Sugar Lake, Aug. 31st, 1924 (W.D.)
- Thamnotettix mendicus* Ball. Penticton, Aug. 16th, 1920 (W.D.)
- Thamnotettix montanus* Van D. Saanich, Aug. 18th, 1917 (W.D.); Goldstream, June 2nd, 1918 (W.D.); Penticton, Sept. 22nd, 1919 (W.D.); Enderby, Aug. 22nd, 1920 (W.D.). Common species.
- Thamnotettix belli* (Uhl.) Barkerville, Aug. 14th, 1921 (E.R.B.); det. DeLong.
- Thamnotettix aureolus* Van D. Victoria, June 12th, 1918 (W.D.), on oak; det. Van Duzee.
- Thamnotettix flavocapitatus* Van D. Victoria, July 12th, 1918 (W.D.); Shawnigan, Sept. 3rd, 1923 (W.D.); Vancouver, Sept. 21st, 1921 (W.D.)
- Thamnotettix waldanus* Bal. Penticton, July 15th, 1923 (W.D.); det. Van Duzee.
- Thamnotettix decipiens* Prov. Vancouver, Sept. 21st, 1921 (W.D.); Shawnigan, Sept. 15th, 1922 (W.D.); Chilcotin, Sept. 1st, 1920 (E.R.B.); Cowichan, Sept. 22nd, 1925 (W.D.); in tidal meadows.
- Thamnotettix smithi* Van D. Shawnigan, Sept. 15th, 1922 (W.D.); Cowichan, Sept. 22nd, 1925 (W.D.); det. Van Duzee.
- Thamnotettix flavovirens* G. & B. Vancouver, July 28th, 1922 (W.D.); Goldstream, July 7th, 1926 (W.D.); Merritt, June, 1924 (K.F.A.); Cowichan, Sept. 23rd, 1925 (W.D.); in tidal meadows.
- Thamnotettix inornatus* Van D. Saanich, Aug. 3rd, 1918 (W.D.); Armstrong, Sept. 29th, 1918 (W.D.); Shawnigan, Sept. 15th, 1922 (W.D.)

- Chlorotettix unicolor* (Fitch.) Saanich, Aug. 13th, 1918 (W.D.); Shawnigan, July 2nd, 1918 (W.D.); Chilliwack, July 12th, 1925 (O.W.); Vernon.
- Neocoelidia lineata* Bak. Armstrong, Sept. 29th, 1918 (W.D.); Burnaby, Aug. 18th, 1923 (W.D.); Goldstream, Sept. 15th, 1925 (W.D.), on *Pinus contorta*.
- Cicadula variata* (Fall.) Penticton, Aug. 16th, 1920 (W.D.).
- Cicadula sexnotata* Fall. Royal Oak, Aug. 18th, 1917 (W.D.); Sicamous, May 25th, 1918 (W.D.); Vancouver, Sept. 29th, 1918 (W.D.). Common species.
- Cicadula divisa* (Uhl.) Shawnigan, Sept. 18th, 1922 (W.D.); Vancouver, Sept. 24th, 1918 (W.D.).
- Cicadula lineatifrons* (Stal.) Vancouver, Sept. 21st, 1921 (W.D.); det. Van Duzee.
- Cicadula slossoni* Van D. Br. Col. (Van D. list, 1917).
- Balclutha punctata* (Thunb.). Penticton, Aug. 16th, 1920 (W.D.); Agassiz, Aug. 22nd, 1921 (W.D.); Mission, May 20th, 1925 (W.D.).
- Balclutha osborni* Van D. Vernon, June 16th, 1917 (R.C.T.); Mission, May 20th, 1924 (W.D.); det. DeLong.
- Balclutha manitou* G. & B. Saanich, May 5th, 1918 (W.D.); Mission, May 20th, 1924 (W.D.).
- Balclutha livingstoni* (Bak.) Vanc. Id. (Van D. list, 1917).
- Eugnathodus abdominalis* (Van D.) Br. Col. (Van D. list, 1917).
- Dikraneura mali* (Prov.) Saanich, April 19th, 1918 (W.D.); det. Ball.
- Dikraneura abnormis* (Walsh). Chilcotin, July 29th, 1920 (E.R.B.); det. DeLong.
- Dikraneura carneola* Stal. Victoria, Sept. 12th, 1919 (W.D.); very abundant among grass.
- Empoasca smaragdula* (Fall.) Victoria, July 11th, 1918 (W.D.); Mission, Sept. 10th, 1924 (W.D.), on *Salix lasiandra*. Dt. McAtee.
- Empoasca aureoviridis* (Uhl.) Vancouver, Sept. 21st, 1921 (W.D.), on maple; Victoria, Aug. 30th, 1921 (W.D.), on Lombardy poplar, det. McAtee; Chilcotin, Sept. 1st, 1920 (E.R.B.), det. DeLong.
- Empoasca unica* (Prov.). Br. Col. (Van. D. list, 1917).
- Empoasca unicolor* Gill. Royal Oak, Oct. 9th, 1917 (W.D.), det. McAtee.
- Empoasca atrolabes* Gill. Mission, July 11th, 1925 (W.D.); on willow.
- Empoasca livingstoni* Gill. Victoria, Aug. 10th, 1921 (W.D.), on Lombardy poplar; det. McAtee.
- Empoasca nigra* G. & B. Penticton, Sept. 21st, 1919 (W.D.); on sage brush; det. McAtee.
- Empoasca pura* (Stal.) Vanc. Id. (Van D. list, 1917).
- Empoasca aspersa* G. & B. Penticton, July 18th, 1923 (W.D.).
- Empoasca alboneura* Gill. Vernon, June 10th, 1918 (R.C.T.); det. DeLong.
- Empoasca mali* (Le B.) Vernon, Aug. 23rd, 1919 (E.P.V.).
- Empoasca flavescens* (Fabr.) Chilcotin, June 18th, 1920 (E.R.B.); Summerland, June 28th, 1925 (W.D.); det. De Long.
- Typhlocyba gillettei* var. *gillettei* Van D. Victoria, June 17th, 1918 (W.D.); abundant on oak; Shawnigan, July 21st, 1918 (W.D.); on alder.
- Typhlocyba ulmi* (Linn.) Victoria, Aug. 12th, 1920 (W.D.); Vernon, Sept. 29th, 1919; on elm; det. McAtee.
- Typhlocyba commissuralis* (Stal.) Saanich, Sept. 9th, 1918 (W.D.), on alder; New Westminster, Sept. 10th, 1925 (W.D.); var. *munda* McAtee, New Westminster, Sept. 14th, 1920 (W.D.); det. McAtee.
- Typhlocyba ariadne* McAtee. Royal Oak, Oct. 29th, 1917 (W.D.); Victoria, July 26th, 1918 (W.D.); det. McAtee.
- Typhlocyba rosae* (Linn.) Vanc. Id. (Van D. list, 1917); probably *ariadne*.
- Erythroneura comes* var. *vitifex* Fitch. Saanich, Sept. 14th, 1918 (W.D.); Gordon Head, May 3rd, 1918 (W.D.); det. Ball. var. *maculata* (Gill.). Vernon (M.H.R.)

Family FULGORIDAE

Subfamily DICTYOPHORINAE

- Scolops sulcipes* (Say). Penticton, Aug. 16th, 1920 (W.D.); Enderby, Aug. 22nd, 1920 (W.D.).
- Scolops angustatus* Uhl. Penticton, Aug. 25th, 1924 (W.D.); Summerland, Aug. 28th, 1924 (W.D.).

Subfamily ACHILINAE

- Epiptera opaca* (Say). B. C. (Can. Nat. Coll.).
- Epiptera henshawi* (Van D.). Victoria, July 8th, 1923 (K.F.A.); with nymphs under bark; Merritt, June, 1924 (K.F.A.).
- Catonia nemoralis* Van D. Merritt, June, 1924 (K.F.A.); Goldstream, June 12th, 1923 (W.D.); Saanich, June 11th, 1922 (W.D.); swept from Douglas fir.
- Oliarus cinnamomeus* Prov. Vanc. Id. (Van. D. list, 1917).
- Cixius misellus* Van D. Burnaby, Aug. 13th, 1923 (W.D.), on *Pinus contorta*; Vancouver, Aug. 13th, 1923 (W.D.).
- Cixius basalis* Van D. Brit. Col. (Van D. list, 1917); Chilliwack, June 6th, 1926 (O.W.), dark variety.
- Cixius coeloepium* Fitch. Agassiz, June, 1921 (R.G.); Victoria, Aug. 8th, 1923 (W.D.); Prince Rupert, July 3rd, 1924 (E.R.B.); Vancouver, June 28th, 1922 (W.D.).
- Cixius praecox* Van D. Vernon, September 25th, 1918 (W.D.); Enderby, Oct. 27th, 1920; Armstrong, Sept. 29th, 1918 (W.D.).

Subfamily ISSINAE

- Bruchomorpha dorsata* Fitch. Enderby, Aug. 23rd, 1920 (W.D.), on *Cornus pubescens*; Summerland, July 18th, 1923 (W.D.).

Subfamily DERBINAE

- Otiocerus degeeri* Kby. Enderby, Aug. 22nd, 1920 (W.D.); Sugar Lake, Aug. 31st, 1924 (W.D.); Saanich, Aug. 13th, 1922 (W.D.); Mission, Sept. 10th, 1924 (W.D.). Rare; swept from willows.

Subfamily DELPHACINAE

- Stenocranus dorsalis* var. *vittatus* Stal. Vernon, Oct. 20th, 1918 (W.D.); Shawnigan, Sept. 15th, 1922 (W.D.); Agassiz, Aug. 25th, 1921 (W.D.); common on *Carex*.
- Laccocera vittipennis* Van D. Gordon Head, Aug. 17th, 1920 (W.D.); Goldstream, April 28th, 1926 (W.D.).
- Liburniella ornata* (Stal). Thormanby Id., Aug. 8th, 1925 (O.W.); det. Whittaker.
- Liburnia pellucida* (Fabr.) Chilcotin, June 15th, 1920 (E.R.B.); Shawnigan, Sept. 3rd, 1923 (W.D.); Chilliwack (O.W.).
- Liburnia consimilis* Van D. Victoria, May 29th, 1918 (W.D.); Royal Oak, Sept. 14th, 1918 (W.D.); Cowichan, Sept. 22nd, 1925 (W.D.); common on *Carex*.
- Liburnia osborni* Van D. (?) Saanich, June 6th, 1918 (W.D.); det. Ball.

Family PSYLLIDAE

Subfamily LIVIINAE

- Livia caricis* Crawl. Glacier, (Hubbard & Schwarz), on *Carex*; (Crawford, U.S.N.M. Bul. 85, p. 23).
- Aphalara angustipennis* Crawl. Duncan, June 29th, 1922 (W.D.).

Subfamily TRIOZINAE

- Trioza varians* Crawl. Brit. Col. (Van D. list, 1917).
- Trioza longicornis* Crawl. Vancouver, (Crawford, U.S.N.M. bul. 85, p. 92).

Subfamily PSYLLIINAE

- Euphyllura arbuti* Schwarz. Gordon Head, Sept. 7th, 1925 (W.D.); on *Arbutus menziesii*.
- Arytaina fuscipennis* Crawl. North Bend, (Schwarz); on *Ceanothus sanguineus*; (Crawford, U.S.N.M. bul. 85, p. 125).
- Psyllia americana* (Crawl.) Brit. Col. (Van D. list, 1917); var. *flava* Crawl. Victoria, Vancouver, (Hubbard & Schwarz). Crawford, U.S.N.M. bul. 85, p. 148).
- Psyllia alni* var. *americana* Crawl. Sooke, June 30th, 1923 (W.D.); Victoria, Sept. 8th, 1922 (W.D.).