

DIASPIDINAE (Subfamily)**Lepidosaphes ulmi** (L.)

Oyster shell scale. Common on apple throughout most of the Interior. It has been taken on Lombardy poplar, dogwood, rose, elm, hawthorn, and willow.

Aulacaspis rosae (Bouché)

Rose scale. On wild rose bushes at Vernon; also recorded from Vancouver Island. In the Interior, infestation is confined to the lower parts of the stems, and it would appear that the insect only survives at or below snow level.

Phenacaspis pinifoliae (Fitch)

Pine leaf scale. Generally distributed and has been recorded on Douglas fir, yellow pine, Jack pine, and spruce.

Chionaspis ortholobis Comstock.

Cottonwood scale. On red dogwood at Keremeos, B. C.

Chionaspis salicis-nigrae (Walsh)

Black willow scale. Recorded by Essig as occurring in B. C. on cascara.

Aspidiotus ancylus (Putnam)

Putnam's scale. Osoyoos, B. C., on birch.

Aspidiotus ostreaeformis Curtis

Vernon, B. C., Kelowna, B. C., and Penticton, B. C. Taken on apple, prune, plum, and caragana.

Aspidiotus pini Com.

Osoyoos, B. C., and Vernon, B. C., on yellow pine.

Aspidiotus perniciosus Com.

San Jose scale. Keremeos, B. C., Osoyoos, B. C., Spences Bridge, B. C. Not at all numerous where control measures are practiced.

SOME FOOD PLANTS OF LEPIDOPTEROUS LARVAE

List No. 6

by J. R. J. Llewellyn Jones
Cobble Hill, Vancouver Island, B. C.

In presenting this sixth list of Food Plants of Lepidopterous larvae, my thanks are again due to those members of our Society who have once again been kind enough to furnish data to be included here, especially at this time to Mr. A. A. Dennys of the staff of the Dominion Entomological Laboratory at Vernon, B. C., Mr. W. Downes of the Dominion Entomological Laboratory at Victoria, and Mr. W. G. Mathers of the Dominion Entomological Laboratory at Vancouver. The initials of the person furnishing the information are placed in brackets following the record concerned.

Below is a list of abbreviations and signs used in this list:

A. A. D.—Mr. A. A. Dennys, Science Service, Dominion Department of Agriculture, Vernon, B. C.

W. D.—Mr. W. Downes, Science Service, Dominion Department of Agriculture, Victoria, B. C.

W. G. M.—Mr. W. G. Mathers, Science Service, Dominion Department of Agriculture, Vancouver, B. C.

R. G.—Mr. R. Glendenning, Science Service, Dominion Department of Agriculture, Agassiz, B. C.

G. J. S.—Professor G. J. Spencer, Department of Zoology, University of B. C., Vancouver, B. C.

J. R. J.—Mr. J. R. J. Llewellyn Jones, Cobble Hill, B. C.

An asterisk (*) denotes that the species has been mentioned before in these lists, and that the information now given is either additional, or is an amplification of what has been previously reported.

RHOPALOCERA

**Incisalia iroides* Bdv. Species of Apple; attacks the young fruit. (A. A. D.)

**Papilio eurymedon* Luc. Wild Cherry (*Prunus emarginata* Dougl.), Ocean Spray (*Spirea discolor* Pursh.), June Berry (*Amelanchier florida* Lindl.) (J.R.J.)

Strymon melinus atrofasciata McD. Fruit of Raspberry (W. D.)

HETEROCCERA

Agnopteryx costosa Haw. Broom (wild and cultivated species) (W.D.)

Agrotis (Pseudospaelotis) haruspica inopinatus Sm. Species of Apple. (A. A. D.)

**Amphidasis (Lycia) cognataria* Gn. Poplars, species of Garden Roses. (J.R.J.) Species of Apple. (A.A.D.)

Amphipyra tragopoginis L. Species of Apricot, Rose and Plum. (R.G.)

Apatela (Acronycta) fragilis fragiloides B. & Benj. Black Hawthorn (*Crataegus brevispina* Dougl.) (J.R.J.)

**Apatela (Acronycta) funeralis* G. & R. Species of Apple (J.R.J.) Species of Willow (Sallow.) (A.A.D.)

Apatela (Acronycta) illita Sm. Species of Willow and Apple. (A.A.D.)

Apatela (Acronycta) perdita Grt. Saskatoon (June-berry) (*Amelanchier alnifolia* Nutt.), Species of Apple. (A.A.D.)

Autographa ampla Wlk. June-berry (*Amelanchier florida* Lindl.) (J.R.J.)

Autographa brassicae Riley. In greenhouses on Chrysanthemum and Antirrhinum. (W. D.)

Cacoesia (Archips) argyrospila Wlk., Leaf Rollers. Apple (A.A.D.)

**Cacoesia (Archips) rosaceana* Harris. Leaf Rollers. Apple. (A.A.D.)

Carpocapsa (Laspeyresia) piperana Kearf. In cones of Yellow Pine (*Pinus ponderosa* Dougl.) (A.A.D.)

**Chlorosea nevadaria* Pack. Alder (*Alnus rubra* Bong.) Willow. (J.R.J.)

- Chrysopora lingulacella** Clem. Lambs Quarters (Pig Weed) (**Chenopodium album** L.) (A.A.D.)
- Datana ministra** Drury. Species of Apple. (A.A.D.)
- Dichomeris marginella** Fabr. Irish Juniper (**Juniperus communis** Linn. var **hibernica**), Spiny Juniper (**J. communis** Linn. var **siberica**). (W. D.)
- Dysstroma citrata** Linn. Blackberry (**Rubus macropetalus** Dougl.) (J. R. J.)
- Ectropis crepuscularia** D. & S. Species of Apple. (A. A. D.)
- Epinotia (Eucosma) terracoctana** Wlshm. Arbutus (**Arbutus menziesii** Pursh). (W. G. M.)
- ***Euchlaena mollisaria** Hlst. Red Flowered Currant (**Ribes sanguineum** Pursh.), Black Hawthorn (**Crataegus brevispina** Dougl.), June-berry (**Amelanchier florida** Lindl.), Blackberry (**Rubus macropetalus** Dougl.), Willows (**Salix hookeriana** Barr. & **Salix scouleriana** (Hook.) Barr.) (J.R.J.)
- Graptolitha torrida** Sm. Species of Apple. Larvae will feed upon the young fruit. (A. A. D.)
- ***Halisidota argentata** Pack. Species of Spruce (**Picea**). (A. A. D.)
- Heliothis phloxiphaga** G. & R. Antirrhinum & Schizanthus including the seed pods. (W. D.)
- Hemerocampa pseudotsugata** McD. Douglas Fir (**Pseudotsuga mucronata** (Raf.) Sudw.), Western White Fir (Balsam) (**Abies grandis** Lindl.), Hemlock (**Tsuga heterophylla** (Raf.) Sarg.). (J.R.J.)
- Hemerophila pariana** Clerck. Species of Apple, Pear, Sweet Cherry, and Mountain Ash (**Sorbus aucuparia**). (W. D.)
- Hyphantria cunea** Drury. Apple, Choke Cherry (**Prunus demissa** Nutt.) (A. A. D.)
- Laspeyresia (Enarmonia) prunivora** Walsh. Species of Apple (A.A.D.)
- Lyonetia speculella** Clem. Mines in leaves of Apple. (A. A. D.)
- Malacosoma americana** Fabr. Apple and probably Willow. (A. A. D.)
- ***Malacosoma disstria** Hbn. Species of Apple. (A. A. D.)
- Malacosoma fragilis** Stretch. Species of Apple. (A. A. D.)
- Marmara arbutiella** Busck. Mines in leaves of Arbutus (**A. menziesii** Pursh.) (W. G. M.)
- Ocnerostoma piniariella** Zeller. Mines needles of White Pine (**Pinus monticola** Dougl.) (W. G. M.)
- ***Orthosia hibisci** Gn. Species of Apple. (A. A. D.)
- Parastichtis purpurea antapica** Sm. Red Flowered Currant (**Ribes sanguineum** Pursh.), Alder (**Alnus rubra** Bong.), Bird Cherry (**Nuttallia cerasiformis** T. & G.), Wild Cherry (**Prunus emarginata** Dougl.), June-berry (**Amelanchier florida** Lindl.), Species of Rose. (J. R. J.)
- Phlyctaena itysalis tillialis** Dyar. In stems of Thistles. (J. R. J.)
- Plutella maculipennis** Curt. Ball mustard. (G. J. S.)

- Polia lubens* (*lutra*) *glaucopis* Hampson. Lodgepole Pine. (*Pinus contorta* Dougl.) (W. G. M.)
- **Rachela occidentalis* Hbst. June-berry (*Amelanchier florida* Lindl.), Snow-berry (*Symphoricarpus racemosus* Michx.), Maple (*Acer macrophyllum* Pursh.) (J. R. J.)
- **Synaxis jubararia* Hbst. Species of Poplar. (J. R. J.)
- Tortrix citrana* Fern. In greenhouses on species of Rose, Cyclamen, Tomato, and Asparagus Fern. (W. D.)
- Zale minerea norda* Sm. Species of Apple. Foliage is preferred but larva will eat the fruit. (A. A. D.)
- Zeiraphera* (*Enarmonia*) *ratzeburgiana* Sax. Sitka Spruce (*Picea sitchensis* (Bong.) Carr.) (W. G. M.)

PHENOMENAL INFESTATION OF ECTOPARASITES ON MARMOT, WEASEL & PACKRAT

by George P. Holland

Science Service, Dominion Department of Agriculture

The groundhogs or yellow-bellied marmots, *Marmota flaviventris avara* (Bangs) of the Kamloops district, normally have a short season of activity, coming out of hibernation in March and retiring again in late August or early September. However, in October, 1937, a single specimen was seen actively running over the rocks by the road near Tranquille, B.C., and on November 17th, another was found moving sluggishly over the snow in the same locality. This animal, a young female of the year, judging from its size, was captured and placed in a



*A seething mass
of Lice*