

- (46) *A. fidelis* Banks. Small cks. at high elevation. (A). The majority of specimens collected, of both sexes, were brachypterous.
- (47) *A. forcipata* Neave. Chwk. r. and Frost ck. (A). (B. C. only).
- (48) **A. fraterna* Frison. Small cks. at low elevation. (A). (B.C. only)
- (49) **A. occidentis* Frison. Cks. at high elevation. (A).
- (50) **A. oregonensis* Frison. Chwk. r. (A). (B. C. only).
- (51) *A. pacifica* Banks. Small to large streams at low elevation. Very abundant in Sweltzer ck.
- (52) *A. serrata* Needham and Claassen. Chwk. r. (FC). (B. C. only).

THE SCALE INSECTS OF BRITISH COLUMBIA

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The following list of scale insects is presented at this time in the hope that it may form a nucleus for a future list of a more comprehensive nature. The scale insects have received little attention in the past in British Columbia, the main object having been to exterminate or control certain species of economic importance as they appeared. Records of distribution and host plants are scarce, even with such a common species as the oyster shell scale, and although I have brought together a list of over a dozen species, there is little information regarding their occurrence outside of the Okanagan Valley.

The determination of the species in this group, excepting in the case of one or two of the commoner forms, is the particular field of the specialist who has plenty of material in various stages for comparison. The writer makes no claims in this direction, but is mainly interested in making a start in a somewhat neglected field. In the present list, notes on the distribution and habits are included, as these offer points of interest in some cases.

COCCINAE (Subfamily)

Lecanium corni Bauche

The brown apricot scale. The only specimens on hand are from broom at Vancouver.

Eulecanium coryli (L.)

The Lecanium scale. Recorded from Vancouver as a serious pest of shade trees, and recorded from alder, maple, horse chestnut, laurel, hawthorn, apple, pear, plum, cherry, beech, lime, and roses.

Pulvinaria vitis (L.)

Cottony maple scale. Vernon and Osoyoos, B. C., on cultivated maple and plum.

Saissetia oleae (Bern.)

Black scale. In Vernon infesting Abutilion shrubs.

ASTEROLECANIINAE (Subfamily)

Asterolecanium variolosum (Ratezberg)

Pit-making oak scales. Trail, B. C., on oak.

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.