

taking care of a brood of the large Chinese mantid *Paratenodera sinensis* Sauss., which had been bred from the eggs in the Insectary of the Bureau of Entomology. While the mantid larvæ were young and numerous they were kept together in one insect case and frequent cases of cannibalism occurred; but as they grew larger they were separated and kept each one in its own standard Riley insect case; they became quite tame and readily took living lepidopterous larvæ, flies, or even pieces of meat held by a pair of forceps. About one dozen reached maturity. One morning one of these was offered a large living sarcophagid fly held by the forceps; the mantid, eagerly grabbing it with its graspers, squeezed some living maggots out of the abdomen of the fly; several of these maggots were eaten by the mantid, two or three crawled out on its chin and were promptly wiped into the mouth. One morning sometime later this mantid was found lying on the sand in the case, alive but weak and as it was picked up three or four full grown fly maggots pushed out through the side of the abdomen; the maggots burrowed into the sand and eventually pupated, but the flies were not reared. Mr. Busck was convinced that these maggots were the ones eaten by the mantid and that they had passed the mouth parts of the greedy mantid unharmed and had been swallowed alive, and that they in this manner accidentally had become parasitic.

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**CATALOGUE OF RECENTLY DESCRIBED COCCIDÆ—V.<sup>1</sup>**

BY E. R. SASSNER, *Bureau of Entomology.*

Since the publication of the Catalogue of Recently Described Coccidæ—IV, October 19, 1912,<sup>1</sup> 4 new genera and 103 new species have been described. This makes a total of 33 new genera, 9 new subgenera, 643 new species, and 45 new varieties recorded since the appearance of Mrs. Fernald's catalogue in 1903. In preparing these catalogues the coöperation of coccidologists is earnestly solicited, especially in adding references which may have been overlooked.

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<sup>1</sup> This catalogue is believed to be fairly complete to November, 1914, and is the continuation of a series of papers which have hitherto been published by the Bureau of Entomology, United States Department of Agriculture, as Technical Series, No. 12, Part I; Technical Series, No. 16, Part III; Technical Series, No. 16, Part IV; Technical Series, No. 16, Part VI; and Technical Series, No. 16, Part VII.

## Subfamily MONOPHLEBINÆ.

**Aspidoproctus bouvieri** Vayssiere.*Aspidiotus bouvieri* Vayss., Bul. Soc. Ent. Fr., 10, p. 333 (1914).

Habitat—Gabun, French Equatorial Africa.

On ?

**Aspidoproctus serrei** Vayssiere.*Aspidoproctus serrei* Vayss., Bul. Soc. Ent. Fr., 10, p. 334 (1914).

Habitat—Batavia (Java).

On ?

**Drösicha lichenoides** Cockerell.*Drosicha lichenoides* Ckll., Jn. Econ. Ent., vi, 1, p. 142 (1913).

Habitat—Philippine Islands.

On *Ficus nota*.**Lophococcus vuilleti** Vayssiere.*Lophococcus vuilleti* Vayss., Ann. Service Epiphyties, i, p. 424 (1913).

Fig.

Habitat—Koulikoro (?), West Africa.

On *Acacia pennata*.**Icerya genistæ** Hempel.*Icerya genistæ* Hemp., Cat. Faun. Brazil, III, S. Paulo, pp. 18, 55 (1912).

Habitat—S. Paulo, Brazil.

On *Genista scoraria*, *Lespedeza striata*, strawberry (*Fragaria* sp.).**Icerya jacobsoni** Green.*Icerya jacobsoni* Green, Tijdschr. Ent., LV, p. 316 (1913). Fig.

Habitat—Java.

On *Dombeya acutangula*.**Icerya zeteki** Cockerell.*Icerya zeteki* Ckll., Jn. Econ. Ent., VII, 1, p. 148 (1914).

Habitat—Panama Canal Zone.

On ?

**Llaveia luzonica** Cockerell.*Llaveia luzonica* Ckll., Bul. Am. Mus. N. H., XXXIII, Art. xxv, p. 334 (1914).

Habitat—Philippine Islands.

On ?

**Monophlebus dugesii** Vayssiere.*Monophlebus dugesii* Vayss., Bul. Soc. Ent. Fr., 10, p. 335 (1914).

Habitat—Guanajuato (Mexico).

On ?

**Palæococcus morrilli** Cockerell.*Palæococcus morrilli* Ckll., Ent. News, xxv, 3, p. 110 (1914).

Habitat—Arizona.

On ?

## Subfamily MARGARODINÆ.

**Kuwania britannica** Green.<sup>1</sup>*Kuwania britannica* Green, Ent. Mo. Mag., 2nd ser., xxv, p. 197 (1914).

Fig.

Habitat—England.

On birch.

**Margarodes indicus** Green.*Margarodes indicus* Green, Rec. Indian Mus., vii, pt. 1, No. 5, p. 69 (1912).

Fig.

Habitat—India.

On ?

**Margarodes niger** Green.*Margarodes niger* Green, Rec. Indian Mus., vii, pt. 1, No. 5, p. 75 (1912).

Habitat—Mysore.

In soil.

**Margarodes papillosum** Green.*Margarodes papillosum* Green, Rec. Indian Mus., vii, pt. 1, No. 5, p. 74 (1912). Fig.

Habitat—Mysore.

In soil under rose.

Genus NEOMARGARODES Green. Type, **erythrocephala**.*Neomargarodes* Green, Novitates Zoologicae, xxi, p. 263 (1914). Fig.**Neomargarodes erythrocephala** Green.*Neomargarodes erythrocephala* Green, Novitates Zoologicae, xxi, p. 263, (1914).

Habitat—Sahara Desert, Algeria.

On ?

**Xylococcus napiformis** Kuwana.*Xylococcus napiformis* Kuwana, Jn. Ent. and Zool., Pomona, vi, 1, p. 1 (1914). Fig.

Habitat—Japan.

On *Quercus serrata*.

## Subfamily DACTYLOPINÆ.

**Eriococcus cockerelli** Essig.*Eriococcus cockerelli* Essig, Jn. Ent. and Zool., Pomona, v, 4, p. 179, (1913).

Fig.

Habitat—Sonora, Mexico.

On "Chino."

<sup>1</sup> This appears to be a synonym of *Steingelia goodetskia* Nass.

**Eriococcus festucæ** Kuwana and Fukaya.

*Eriococcus festucæ* Kuw. and Fuk., Jn. Ent. and Zool., Pomona, vi, 1, p. 2 (1914). Fig.

Habitat—Japan.

On *Festuca parviflora*.

**Kermes branigani** King.

*Kermes branigani* King, Jn. Ent. and Zool., Pomona, vi, 2, p. 100 (1914). Fig.

Habitat—California.

On maul oak (*Quercus chrysolepis*).

**Kermes cordiformis** Lindinger.

*Kermes cordiformis* Lindgr., Die Schildläuse, p. 286 (1912).

Habitat—Trieste, Austria.

On *Quercus robur*.

**Kermes essigii** King.

*Kermes essigii* King, Jn. Ent. and Zool., Pomona, v, 4, p. 205 (1913).

Fig.

Habitat—California.

On *Quercus agrifolia*.

**Kermes lindingeri** King.

*Kermes lindingeri* King, Ent. Rundschau, xxxi, 6, p. 34 (1914).

Habitat—Germany.

On *Quercus sessiliflora*.

**Kermes occidentalis** King.

*Kermes occidentalis* King, Jn. Ent. and Zool., Pomona, v, 4, p. 206 (1913).

Habitat—California.

On *Quercus* sp.

**Kermes sassceri** King.

*Kermes sassceri* King, Jn. Ent. and Zool., Pomona, vi, 1, p. 48 (1914).

Fig.

Habitat—Mass., Pa., N. Y., Calif., R. I., Canada.

On *Quercus rubra*.

**Kermes waldeni** King.

*Kermes waldeni* King, Jn. Econ. Ent., vii, 1, p. 150 (1914).

Habitat—Connecticut.

On *Quercus* sp.

**Lachnodius greeni** Vayssiere.

*Lachnodius greeni* Vayss., Bul. Soc. Ent. Fr., 5, p. 156 (1914).

Vayss., Bul. Soc. Ent. Fr., 7, p. 208 (1914).

Habitat—Madagascar.

On Coffee roots and trunks (in ground).

**Phenacoccus azaleæ** Kuwana.

*Phenacoccus azaleæ* Kuw., Jn. Ent. and Zool., Pomona, vi, 1, p. 1 (1914).

Fig.

Habitat—Japan.

On Azalea.

**Trionymus violascens** Cockerell.

*Trionymus violascens* Ckll., Jn. Econ. Ent., vi, 1, p. 143 (1913).

Habitat—Colorado.

On *Agropyron*.

**Phenacoccus betheli** Cockerell.

*Phenacoccus betheli* Ckll., Can Ent., XLIV, 10, p. 301 (1912).

Can. Ent., XLV, 1, p. 14 (1913).

Habitat—Arizona, Colorado.

On *Amelanchier*.

**Pseudococcus calluneti** Lindinger.

*Pseudococcus calluneti* Lindgr., Die Schildläuse, p. 90 (1912).

Habitat—Denmark.

On *Calluna*.

**Pseudococcus capensis** Brain.

*Pseudococcus capensis* Brain, Ann. Ent. Soc. Am., v, 2, p. 182 (1912). Fig.

Habitat—South Africa.

On *Phytolacca dioica*, *Albizzia lophantha*, *Solanum sodomæum*, *Clematis vitalba*, *Pelargonium* sp., *Sonchus oleraceus*, *Senecio vulgaris*, *Malva parviflora*, *Oxalis cernua*, stored pumpkins and vines.

**Pseudococcus fragilis** Brain.

*Pseudococcus fragilis* Brain, Ann. Ent. Soc. America, v, 2, p. 186 (1912).

Habitat—South Africa.

On Orange.

**Pseudococcus lounsburyi** Brain.

*Pseudococcus lounsburyi* Brain, Ann. Ent. Soc. America, v, 2, p. 179 (1912).

Fig.

Habitat—South Africa.

On *Agapanthus umbellatus*.

**Pseudococcus marchali** Vayssiere.

*Pseudococcus marchali* Vayss., Bul. Soc. Ent. Fr., 17, p. 366 (1912). Fig.

Vayss., Ann. Service Epiphyties, I, p. 428 (1913).

Habitat—Upper Guinea, Africa.

On mango.

**Pseudococcus muraltiæ** Brain.

*Pseudococcus muraltiæ* Brain, Ann. Ent. Soc. America, v, 2, p. 184 (1912).

Fig.

Habitat—South Africa.

On *Muraltia heisteria*.

**Pseudococcus nicotianæ** Leonardi.

*Pseudococcus nicotiana* Leon., Boll. Tec. d. Colt. d. Talac. (Scafati), XII, 2, p. 76 (1913).

Habitat—Prov. Salerno, Italy.

On *Nicotiana colossea*, *N. macrophylla*.

**Pseudococcus phoradendri** Cockerell.

*Pseudococcus phoradendri* Ckll., Jn. N. Y. Ent. Soc., XX, 2, p. 133 (1912).

Habitat—Arizona.

In hollow stems of *Phoradendron flavescens*, var. *villosum*, attended by *Cremastogaster arizonensis* Wheeler.

**Pseudococcus wachendorfiae** Brain.

*Pseudococcus wachendorfiae* Brain, Ann. Ent. Soc. America, v, 2, p. 183 (1912). Fig.

Habitat—South Africa.

On *Wachendorfia paniculata*.

**Pseudococcus yerba-santæ** Essig.

*Pseudococcus yerba-santæ* Essig, Jn. Ent. and Zool., v, 2, p. 85 (1913). Fig.

Habitat—California.

On Yerba Santa or Mountain Balm (*Eriodictyon californicum*).

**Ripersia taquaræ** Hempel.

*Ripersia taquara* Hemp., Cat. Faun. Brazil, III, S. Paulo, pp. 25, 58 (1912).

Habitat—S. Paulo, Brazil.

On interior of large cane accompanied by ants.

Subfamily **TACHARDINÆ**.**Tachardia angulata** Froggatt.

*Tachardia angulata* Froggatt, Pr. Linn. Soc. N. S. Wales, XXXVI, 1, p. 154 (1911).

Habitat—N. S. Wales.

On quince trees.

Genus **COLOBOPYGA** Brèthes. Type, **magnani**.

*Colobopyga* Brèthes, An. Mus. Nac. Buenos Aires, XXIII, p. 279 (1912).

**Colobopyga magnani** Brèthes.

*Colobopyga magnani* Brèthes, An. Mus. Nac. Buenos Aires, XXIII, p. 281 (1912).

Habitat—Buenos Aires.

On *Chamærops humilis*.

## Subfamily COCCINÆ.

**Aclerda signoreti** Lindinger.*Aclerda signoreti* Lindgr., Die Schildläuse, p. 170 (1912).

Habitat—France, Austria.

On grass.

**Ceronema africana** Scott Macfie.*Ceronema africana* Scott Macfie, Bul. Ent. Res., iv, 1, p. 31 (1913). Fig.

Vayss., Bul. Soc. Ent. Fr., 7, p. 208 (1914).

Habitat—Northern Nigeria.

On “Pride of Barbadoes” (*Cæsalpinia pulcherrima*).**Ceroplastes coniformis** Newstead.*Ceroplastes coniformis* Newst., Bul. Ent. Res., iv, 1, p. 72 (1913). Fig.

Gowdey, Bul. Ent. Res., iv, 3, p. 248 (1913).

Habitat—Uganda.

On *Ficus* sp.**Ceroplastes excœariæ** Hempel.*Ceroplastes excœariæ* Hemp., Cat. Faun. Brazil, III, S. Paulo, pp. 33, 66 (1912). Fig.

Habitat—S. Paulo, Brazil.

On *Excœaria biglandulosa*.**Ceroplastes gigas** Cockerell.*Ceroplastes gigas* Ckll., Bul. Am. Mus. N. H., XXXIII, Art. xxv, p. 331 (1914). Fig.

Habitat—Philippine Islands.

On ?

**Coccus citricola** Campbell.*Coccus citricola* Campb., Ent. News, xxv, 5, p. 222 (1914).

Habitat—California.

On Citrus.

**Lecanium filamentosum** Newstead.*Eulecanium filamentosum* Newst., Bul. Ent. Res., iv, 1, p. 74 (1913). Fig.

Gowdey, Bul. Ent. Res., iv, 3, p. 248 (1913).

Habitat—Uganda.

On unknown forest shrub.

**Lecanium opimum** Green.*Lecanium opimum* Green, Tijdschr. Ent., LV, p. 313 (1913). Fig.

Habitat—Java.

On *Cassia fistula*.

**Lecanium perinflatum** Cockerell.

*Lecanium perinflatum* Ckll., Bul. Am. Mus. N. H., xxxiii, Art. xxv, p. 332 (1914). Fig.

Habitat—Argentine Republic.

On herbaceous plant.

**Lecanium pseudomagnoliarum** Kuwana.

*Eulecanium pseudomagnoliarum* Kuw., Jn. Ent. and Zool., Pomona, vi, 1, p. 7 (1914). Fig.

Habitat—Japan.

On *citrus*.

**Mesolecanium lucidum** Hempel.

*Mesolecanium lucidum* Hemp., Cat. Faun, Brazil, iii, S. Paulo, pp. 38, 67 (1912).

Habitat—State of Rio Grande do Sul, Brazil.

On Solanaceæ.

**Paralecanium luzonicum** Cockerell.

*Paralecanium luzonicum* Ckll., Bul. Am. Mus. N. H., xxxiii, Art. xxv, p. 333 (1914).

Habitat—Philippine Islands.

On *Plectronia viridis*.<sup>1</sup>

**Protopulvinaria longivalvata bakeri** Cockerell.

*Protopulvinaria longivalvata bakeri* Ckll., Bul. Am. Mus. N. H., xxxiii, Art. xxv, p. 333 (1914). Fig.

Habitat—Philippine Islands.

On leaves of *Voacanga globosa*.<sup>2</sup>

**Pseudokermes cooleyi** King.

*Pseudokermes cooleyi* King, Jn. Econ. Ent., vii, 2, p. 246 (1914).

Habitat—Montana.

On *Picea englemanni*.

**Pulvinaria citricola** Kuwana.

*Pulvinaria citricola* Kuw., Jn. Ent. and Zool., Pomona, vi, 1, p. 3 (1914).

Fig.

Habitat—Japan.

On Citrus, *Diaspyros kaki*, *Hibiscus syriacus*.

**Pulvinaria idesiæ** Kuwana.

*Pulvinaria idesiæ* Kuw., Jn. Ent. and Zool., Pomona, vi, 1, p. 6 (1914).

Fig.

Habitat—Japan.

On *Idesia polycarpa*, *Phellodendron amurensis*.

<sup>1</sup> Incorrectly cited as *Alectronia*.

<sup>2</sup> Incorrectly cited as “boeanga.”

**Pulvinaria okitsuensis** Kuwana.

*Pulvinaria okitsuensis* Kuw., Jn. Ent., and Zool., Pomona, vi, 1, p. 5 (1914). Fig.

Habitat—Japan.

On Orange.

**Pulvinaria ornata** Hempel.

*Pulvinaria ornata* Hemp., Cat. Faun. Brazil, III, S. Paulo, pp. 28, 61 (1912).

Habitat—S. Paulo, Brazil.

On *Arrabidæa*. (Bignoniaceæ)

**Pulvinaria photiniæ** Kuwana.

*Pulvinaria photiniæ* Kuw., Jn. Ent. and Zool., Pomona, vi, 1, p. 4 (1914).

Fig.

Habitat—Japan.

On *Photinia villosa*, *Celtis sinensis*.

**Megasaissetia brasiliensis** Hempel.

*Megasaissetia brasiliensis* Hemp., Cat. Faun. Brazil., III, S. Paulo, pp. 42, 68 (1912).

Habitat—S. Paulo, Brazil.

On ?

**Saissetia lucida** Hempel.

*Saissetia lucida* Hemp., Cat. Faun. Brazil, III, S. Paulo, pp. 41, 60 (1912).

Habitat—S. Paulo, Brazil.

On bark of forest tree.

**Stictococcus gowdeyi** Newstead.

*Stictococcus gowdeyi* Newst., Bul. Ent. Res., iv, 1, p. 70 (1913). Fig.

Gowdey, Bul. Ent. Res., iv, 3, p. 249 (1913).

Gowdey, Ann. Rept. Dept. Agr., Uganda Protec., p. 29 (1913).

Habitat—Uganda.

On *Haronga madagascariensis*; Coffee.

## Subfamily DIASPINÆ.

**Aspidiotus alatus** Froggatt.

*Aspidiotus alatus* Froggatt, Agr. Gaz. N. S. W., xxv, 2, p. 132 (1914). Fig.

Habitat—New South Wales, Victoria.

On *Eucalyptus rostrata*, *Eucalyptus* sp.

**Aspidiotus confusus** Froggatt.

*Aspidiotus confusus* Frogg., Agr. Gaz., N. S. W., xxv, 2, p. 136 (1914).

Fig.

Habitat—New South Wales.

On white gum (*Eucalyptus* sp.).

**Aspidiotus ephedrarum** Lindinger.

*Aspidiotus ephedrarum* Lindgr., Die Schildläuse, p. 139 (1912).

Habitat—Sardinia, South East Spain.

On *Ephedra nebrodensis*, *E. scoparia*.

**Aspidiotus gidgei** Froggatt.

*Aspidiotus gidgei* Frogg., Agr. Gaz. N. S. W., xxv, 4, p. 313 (1914).

Habitat—New South Wales.

On Gidgei (*Acacia cambagei*).

**Aspidiotus gowdeyi** Newstead.

*Aspidiotus gowdeyi* Newst., Bul. Ent. Res., iv, 1, p. 77 (1913). Fig.

Gowdey, Bul. Ent. Res., iv, 3, p. 249 (1913).

Habitat—Uganda.

On *Anona muricata*.

**Aspidiotus junctilobius** Froggatt.

*Aspidiotus junctilobius* Frogg., Agr. Gaz. N. S. W., xxv, 4, p. 315 (1914)

Fig.

Habitat—Southwestern New South Wales.

On yarran (*Exocarpus aphylla*).

**Aspidiotus lenticularis** Lindinger.

*Aspidiotus lenticularis* Lindgr., Die Schildläuse, pp. 149, 230 (1912).

Habitat—Denmark.

On ?

**Aspidiotus rubribullatus** Froggatt.

*Aspidiotus (Aspidiella) rubribullata* Frogg., Agr. Gaz. N. S. W., xxv, 4, p. 317 (1914). Fig.

Habitat—West Australia, New South Wales.

On *Eucalyptus*.

**Aspidiotus serratus** Froggatt.

*Aspidiotus serrata* Frogg., Agr. Gaz. N. S. W., xxv, 4, p. 318 (1914).

Habitat—New South Wales.

On leaves of Gidgei or Mulga (*Acacia cambagei*).

**Aspidiotus tafiranus** Lindinger.

*Aspidiotus tafiranus* Lindgr., Die Schildläuse, p. 229 (1912).

Habitat—Canary Islands.

On *Olea* sp.

**Gymnaspis acaciæ** Froggatt.

*Gymnaspis acaciæ* Frogg., Agr. Gaz. N. S. W., xxv, 7, p. 604 (1914). Fig.

Habitat—New South Wales.

On "Weeping Myall" (*Acacia pendula*).

**Gymnaspis africana** Newstead.

*Gymnaspis africana* Newst., Bul. Ent. Res., iv, 1, p. 78 (1913). Fig.  
Gowdey, Bul. Ent. Res., iv, 3, p. 249 (1913).

Habitat—Uganda.

On unknown forest shrub.

**Hemiberlesia nitrariæ** Marchal.

*Aspidiotus (Hemiberlesia) nitrariae* Marchal, Bul. Soc. Zool. France, xxxvi, 45 and 6, p. 150 (1911).

Habitat—South Tunis.

On *Nitraria*.

**Hemiberlesia provincialis** Vayssiere.

*Aspidiotus (Hemiberlesia) provincialis* Vayss., Bul. Soc. Ent. Fr., 7, p. 207 (1914).

Habitat—Bouches du Rhone, France.

On Grass (*Ammophila arenaria* (?)).

**Odonaspis schizostachyi** Cockerell and Robinson.

*Odonaspis schizostachyi* Ckll. and Robinson, Bul. Am. Mus. N. H., xxxiii, Art. xxv, p. 327 (1914). Fig.

Habitat—Philippine Islands.

On climbing bamboo (*Schizostachyum* sp.)

**Targionia carolina** Froggatt.

*Aspidiotus (Targionia) carolinus* Frogg., Agr. Gaz. N. S. W., xxv, 2, p. 136 (1914). Fig.

Habitat—New South Wales.

On *Eremophila sturtii* (Myoporineæ).

**Targionia laurina** Lindinger.

*Targionia laurina* Lindgr., Die Schildläuse, p. 198 (1912).

Habitat—Madeira.

On *Laurus canariensis*.

**Pseudotargionia** Lindinger n. subg. of *Targionia*. Type, *glandulosa* Newst.

Lindinger, Die Schildläuse, p. 50 (1912).

**Aulacaspis manzanitæ** Whitney.

*Aulacaspis manzanitæ* Whitney, Jn. Ent. and Zool., v, 1, p. 50 (1913). Fig.

Habitat—California.

On *Arctostaphylos*, *Manzanita* sp.

**Epidiaspis subterranea** Lindinger.

*Epidiaspis subterranea* Lindgr., Die Schildläuse, p. 174 (1912).

Habitat—France.

On Grass.

**Diaspis senegalensis** Vayssiere.

*Diaspis senegalensis* Vayss., Bul. Soc. Ent. Fr., 7, p. 206 (1914). Fig.

Habitat—Senegal.

On leaves of *Khaya senegalensis*.

**Diaspis syriaca** Lindinger.

*Diaspis syriaca* Lindgr., Die Schildläuse, p. 264 (1912).

Habitat—Syria.

On *Pistacia vera*.

**Diaspis taxicola** Vayssiere.

*Diaspis taxicola* Vayss., Rev. Phytopath. Appliquée, Paris, 1, 9, p. 124 (1913).

Habitat—Algeria.

On *Taxus baccata*.

**Phenacaspis mischocarpi** Cockerell and Robinson.

*Phenacaspis mischocarpi* Ckll. and Robinson, Bul. Am. Mus. N. H., XXXIII, Art. xxv, p. 328 (1914). Fig.

Habitat—Philippine Islands.

On *Mischocarpus fuscescens*.

**Phenacaspis unilateralis** Newstead.

*Chionaspis unilateralis* Newst., Bul. Ent. Res., IV, 1, p. 79 (1913). Fig.

Habitat—Barbados.

On leaves of palm (*Thrimax*?).

**Protodiaspis agrifoliae** Essig.

*Protodiaspis agrifoliae* Essig, Jn. Ent. and Zool., VI, 2, p. 76 (1914). Fig.

Habitat—California.

On *Quercus agrifolia*.

**Chionaspis austriaca** Lindinger.

*Chionaspis austriaca* Lindgr., Die Schildläuse, p. 252 (1912).

Habitat—Austria (Piesting?).

On *Pinus laricio nigricans*.

**Chionaspis nigerensis** Vayssiere.

*Chionaspis nigerensis* Vayss., Bul. Soc. Ent. Fr., 17, p. 368 (1912). Fig.  
Vayss., Ann. Service Epiphyties, I, p. 428 (1913).

Habitat—Upper Senegal—Niger, Africa.

On *Xymenia americana*.

**Hemichionaspis uvareæ** Cockerell and Robinson.

*Hemichionaspis uvareæ* Ckll. and Robinson, Bul. Am. Mus. N. H., XXXIII, Art. xxv, p. 330 (1914). Fig.

Habitat—Philippine Islands.

On leaves of *Uvaria* sp.

**Lepidosaphes chitinosa** Froggatt.

*Mytilaspis chitinosa* Frogg., Agr. Gaz. N. S. W., xxv, 7, p. 607 (1914).  
Fig.

Habitat—New South Wales.

On Native Broom (*Templetonia egena*).

**Lepidosaphes cortrioides** Froggatt.

*Mytilaspis cortrioides* Frogg., Agr. Gaz. N. S. W., xxv, 7, p. 609 (1914).  
Habitat—New South Wales.  
On Black Wattle (*Acacia decurrens*).

**Lepidosaphes crassa** Froggatt.

*Mytilaspis crassa* Frogg., Agr. Gaz. N. S. W., xxv, 7, p. 609 (1914).  
Habitat—New South Wales.  
On Ti-tree (*Melaleuca* sp.).

**Lepidosaphes dispar** Vayssiere.

*Mytilaspis (Coccomytilus) dispar* Vayss., Rev. Phytopath. Appliquée, Paris, 1, 9, p. 124 (1913).  
Vayss., Bul. Soc. Ent. Fr., 7, p. 208 (1914).  
Habitat—Madagascar.  
On Manihot.

**Lepidosaphes eucalypti** Froggatt.

*Mytilaspis eucalypti* Frogg., Agr. Gaz. N. S. W., xxv, 7, p. 610 (1914).  
Fig.  
Habitat—New South Wales.  
On *Eucalyptus piperita*.

**Lepidosaphes juniperi** Lindinger.

*Lepidosaphes juniperi* Lindgr., Die Schildläuse, p. 188 (1912).  
Habitat—Turkey in Asia.  
On *Juniperus excelsa*.

**Lepidosaphes lobulatus** Froggatt.

*Mytilaspis lobulatus* Frogg., Agr. Gaz. N. S. W., xxv, 8, p. 680 (1914).  
Fig.  
Habitat—New South Wales.  
On *Casuarina* sp.

**Lepidosaphes mulgæ** Froggatt.

*Mytilaspis mulgæ* Frogg., Agr. Gaz. N. S. W., xxv, 8, p. 681 (1914).  
Habitat—New South Wales.  
On Mulga or Gidgei (*Acacia cambagei*).

**Lepidosaphes recurvata** Froggatt.

*Mytilaspis recurvata* Frogg., Agr. Gaz. N. S. W., xxv, 8, p. 683 (1914).  
Fig.  
Habitat—New South Wales.  
On Black Wattle (*Acacia decurrens*).

Genus **PARLATOREOPSIS** Lindinger. Type, **longispina** Newst.  
Lindinger, Die Schildläusse, p. 191 (1912).

**Pseudoparlatoria argentata** Hempel.

*Pseudoparlatoria argentata* Hemp., Cat. Faun. Brazil, III, S. Paulo, pp. 51, 63 (1912).

Habitat—S. Paulo, Brazil.

On *Aglaia* sp.

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**DIPTEROLOGICAL MISCELLANY.**

BY FREDERICK KNAB, *Bureau of Entomology.*

**EVOLUTION OF THE BLOOD-SUCKING HABIT IN SYMPHOROMYIA.**

In several families of Diptera the blood-sucking habit is unequally developed in different species. Thus, in the Culicidae we have within the same genus species that are aggressive blood-suckers, others that apparently have but a weak craving for blood, and still others that do not bite at all. Similar conditions appear to obtain in the chironomid subfamily Ceratopogoninæ, while in the family Psychodidae the blood-sucking habit is restricted to the genus *Phlebotomus*:

The leptid genus *Syphoromyia* has been reported as a blood-sucker several times, but, as its chief habitat is in the comparatively unsettled Rocky Mountain region, we have very little exact information on the habits of the different species. Prof. J. M. Aldrich, who has recently revised the genus, informs me that two species appear to be the principal biters and that he has only a single record for a third species. These data will appear in a paper which Prof. Aldrich now has in press. Some additional information has recently come to hand and the indications are that certain species of *Syphoromyia* are aggressive biters, while others are in process of acquiring the blood-sucking habit. Of course, it is possible that some of the inoffensive species feed upon animals other than man and the large mammals. A specimen and note recently sent in by W. H. Boyd of Cottonwood, British Columbia, adds a fourth species, *Syphoromyia pachyceras* Will., to the list of blood-suckers. The interesting part of the note is that it appears to show that this species is in a transition state. Mr. Boyd says that this species "bites for itself on unprotected portions of animals, but seems to prefer to take the blood oozing from a bite left by the larger fly" (*Tabanus*).

It must, however, be remembered that the species of *Syphoromyia* are all similar in appearance and that the individuals lapping the blood from wounds may belong to different species



Sasscer, E. R. 1915. "Catalogue of recently described Coccidae – V."  
*Proceedings of the Entomological Society of Washington* 17, 25–38.

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