

A LIST OF THE ARMoured SCALE INSECTS (DIASPIDIDAE) AND THEIR HOSTS IN TASMANIA

By

N. M. HUDSON

Entomology Division, Department of Agriculture, Hobart.

ABSTRACT

In this first list of the diaspidid scale insects occurring in Tasmania 40 species are recorded. The list is based exclusively on specimens held in the permanent collection of the Tasmanian Department of Agriculture. The host-plant list comprises 79 species from 32 families.

INTRODUCTION

No previous list of the armoured scale insects has ever been published for Tasmania. The list which is restricted to the specimens present in the collection of the Department of Agriculture, Hobart is divided into 3 sections. The first is a list of the scale species arranged in alphabetical order containing details of hosts and localities; the second is an alphabetical list of host plants together with details of the scale species found on them; and the third is an alphabetical list of the botanical families together with details of the host genera.

LIST OF SPECIES

- Abgrallaspis cyanophylli* (Signoret).
Host: *Cactus* sp.
Locality: Hobart (under glass).
- Alioides* sp.
Host: *Leptospermum lanigerum* Sm.
Locality: Nubeena.
- Ancepaspis anomola* (Green).
Hosts: *Acacia dealbata* Link, *Acacia mearnsii* de Wild, *Acacia melanoxylon* R. Br., *Eucalyptus amygdalina* Lab.
Localities: Bushy Park, Hayes, Huonville.
- Ancepaspis* sp.
Host: *Casuarina stricta* Ait.
Locality: Cremorne Beach.
- Aspidiotus hederæ* (Vallot).
Hosts: *Acacia dealbata* Link, *Acacia mearnsii* de Wild, *Acacia melanoxylon* R. Br., *Acacia myrtifolia* Willd., *Aesculus hippocastanum* L., *Asparagus plumosus* Baker, *Boronia* sp., *Bouvardia* sp., *Cassia* sp., *Casuarina* sp., *Ceanothus* sp., *Cymbidium* sp., *Dodonaea viscosa* Jacq., *Erica* sp., *Exocarpos cupressiformis* Lab., *Howia* sp., *Kentia* sp., *Lauris nobilis* L., *Leptospermum scoparium* Forst., *Macadamia tetraphylla* F. Muell., *Olea europea* L., *Phoenix* sp., *Psoralea pinnata* L., *Pyrus malus* L., *Ribes nigrum* L., *Sarothamnus scoparius* (L.), *Telopea truncata* R. Br., *Tulipa* sp.
- Localities: Adventure Bay and Barnes Bay (Bruny Is.), Devonport, Hayes, Hobart, Lalla, New Norfolk.
- Aulacaspis rosæ* (Bouché).
Hosts: *Crataegus* sp., *Pyrus malus* L., *Rosa* spp.
Localities: Hayes, Hobart, Margate.
- Carulaspis juniperi* (Bouché).
Hosts: *Cupressus* sp., *Cupressus macrocarpa* Hartw.
Localities: Grove, Legana.
- Chrysomphalus trifasciculatus* Brimblecombe.
Hosts: *Eucalyptus rubida* Deane & Maiden, *Eucalyptus* sp.
Locality: Hobart.
- Clavaspis subfervens* Green.
Host: *Acacia dealbata* Link.
Locality: Hayes.
- Coccomytilus* sp. (a).
Hosts: *Acacia dealbata* Link, *Acacia mearnsii* de Wild, *Acacia melanoxylon* R. Br.
Locality: Hayes.
- Coccomytilus* sp. (b).
Hosts: *Casuarina stricta* Ait., *Casuarina littoralis* Salisb.
Localities: Cremorne Beach, Howrah Beach, Lindsifarne, Margate.
- Diaspis boisduvalii* Signoret.
Host: *Cymbidium* sp.
Locality: Hobart.
- Eucornuaspis machili* (Maskell).
Hosts: *Cymbidium* sp.
Localities: Devonport, Hobart.
- Fiorinia lidgetti* ? Green.
Hosts: *Acacia dealbata* Link, *Acacia mearnsii* de Wild, *Acacia pycnantha* Benth.
Locality: Hobart.
- Fiorinia* sp. near *acaciae* Maskell.
Hosts: *Acacia botrycephala* Desf., *Acacia mearnsii* de Wild, *Cassia* sp.
Localities: Bellerive, Cradoc.
- Hemiberlesia rapax* (Comst.).
Hosts: *Acacia mearnsii* de Wild, *Acacia* sp., *Callitris oblonga* Rich., *Ceanothus* sp., *Dianella tasmanica* Hook, *Ilex aquifolium* L., *Lauris nobilis* L., *Ligustrum vulgare* L., *Mela-leuca squarrosa* Sm., *Myoporum serratum* R. Br., *Pyrus communis* L., *Pyrus malus* L., *Rhododendron* sp.

- Localities: Cambridge, Cradoc, Cremorne Beach, Cooee, Hillwood, Hobart, Launceston, Middleton, New Norfolk, Rowella, South Arm, Taroon.
- **Lepidosaphes grandilobus* (Maskell).
Host: *Banksia marginata* Cav.
Locality: Lindisfarne.
- Lepidosaphes ulmi* (L.).
Hosts: *Pyrus communis* L., *Pyrus malus* L.
Localities: Burnie, Launceston, Lilydale.
- Lindingaspis rossi* (Maskell).
Hosts: *Arbutus unedo* L., *Camellia japonica* L., *Cotoneaster* sp., *Evonymus* sp., *Hedera helix* L., *Nerium oleander* L.
Localities: Hobart, Launceston, Legana.
- Monaonidiella* sp.
Host: *Pittosporum bicolor* Hook.
Locality: Mt. Wellington.
- Mytilaspis (Lepidosaphes) multipora* (Leonardi).
Host: *Acacia melanoxylo* R. Br.
Locality: Margate.
- Mytilaspis* sp. near *eucalypti* Froggatt.
Hosts: *Acacia mearnsii* de Wild, *Acacia verticillata* Willd., *Banksia marginata* Cav., *Callitris tasmanica* Baker & Smith, *Eucalyptus amygdalina* Lab., *Exocarpos cupressiformis* Lab.
Localities: Cradoc, Hayes, Huonville, Lindisfarne, Orford.
- Mytilaspis* sp.
Host: *Diplarrena moraea* Lab.
Locality: Lindisfarne.
- Neomorgania eucalypti* (Maskell).
Hosts: *Acacia mearnsii* de Wild, *Acacia melanoxylo* R. Br.
Localities: Hayes, Hobart.
- Parlatoria banksiae* (Maskell).
Host: *Banksia marginata* Cav.
Localities: Carlton Beach, Lindisfarne.
- Parlatoria pittospori* Maskell.
Hosts: *Amperea xiphoclada* Spreng., *Callitris tasmanica* Baker & Smith, *Davesia ulicina* Sm., *Exocarpos stricta* R. Br.
Localities: Cradoc, Lindisfarne, Orford.
- Parlatoria* sp.
Host: *Exocarpos cupressiformis* Lab.
Locality: Hayes.
- Phenacaspis australis* Laing.
Hosts: *Eugenia* sp., *Phoenix* sp.
Locality: Hobart.
- Phenacaspis xerotidis* (Maskell).
Host: *Lomandra longifolia* Lab.
Localities: Lindisfarne, Ouse.
- Phenacaspis* sp. near *chinensis* (Ckll.).
Hosts: *Acacia verticillata* Willd., *Anopterus glandulosus* Lab.
Localities: Hobart, Howden.
- Phenacaspis* sp. (a).
Host: *Melaleuca ericifolia* Sm.
Locality: Gravelly Beach
- Phenacaspis* sp. (b).
Host: *Epacris impressa* Lab.
Locality: Lindisfarne.
- Phenacaspis* sp. (c).
Host: *Casuarina littoralis* Salisb.
Locality: Lindisfarne.
- Pinnaspis aspidistrae* (Signoret).
Host: *Blechnum nudum* (Labill) Mettenius ex Luenssen.
Locality: Hobart (under glass).
- Poliaspis exocarpi* Maskell.
Hosts: *Davesia ulicina* Sm., *Exocarpos cupressiformis* Lab., *Exocarpos stricta* R. Br., *Pultenaea juniperina* Lab.
Localities: Cradoc, Hayes, Longley.
- Poliaspis syringae* Laing.
Host: *Bedfordia salicina* DC.
Locality: Mt. Wellington.
- Poliaspis* sp.
Hosts: *Amperea xiphoclada* Spreng., *Astroloma humifusum* R. Br., *Epacris impressa* Lab.
Locality: Lindisfarne.
- Quadraspidiotus ostreaeformis* (Curt.).
Hosts: *Acacia dealbata* Link, *Crataegus* sp., *Prunus domestica* L., *Prunus serrulata* Lindl., *Pyrus communis* L., *Pyrus malus* L.
Localities: Glen Huon, Hayes, Huonville, Salmon Ponds, Sandford.
- Quadraspidiotus perniciosus* (Comst.).
Hosts: *Prunus serrulata* Lindl., *Pyrus communis* L., *Pyrus malus* L.
Locality: Launceston.
- Quadraspidiotus pyri* (Licht.).
Hosts: *Prunus avium* L., *Prunus domestica* L., *Prunus persica* L., *Prunus triloba* Lindl., *Pyrus communis* L., *Pyrus malus* L.
Localities: Birch's Bay, Claremont, Hayes, Hobart, Kingston, Margate, New Norfolk, Nubeena, Rowella, Sandfly, Sandford, Snug, Spreyton, Wattle Grove, Woodbridge.

HOST INDEX

- Acacia botrycephala* Desf.
Fiorinia sp. near *acaciae* Maskell.
- Acacia dealbata* Link.
Ancepasspis anomala (Green), *Aspidiotus hederæ* (Vallot), *Clavaspis subfervens* Green, *Cocomytilus* sp. (a), *Fiorinia lidgetti* ? Green, *Quadraspidiotus ostreaeformis* (Curt.).
- Acacia mearnsii* de Wild.
Ancepasspis anomala (Green), *Aspidiotus hederæ* (Vallot), *Cocomytilus* sp. (a), *Fiorinia lidgetti* ? Green, *Fiorinia* sp. near *acaciae* Mask., *Hemiberlesia rapax* (Comst.), *Mytilaspis* sp. near *eucalypti* Froggatt, *Neomorgania eucalypti* (Mask.).

* This species should not be retained in *Lepidosaphes* and is assigned to it here pending generic placement elsewhere.

- Acacia melanoxylon* R. Br.
Ancepsaspis anomala (Green), *Aspidiotus hederæ* (Vallot), *Coccomytilus* sp. (a), *Mytilaspis multipora* (Leon.), *Neomorgania eucalypti* (Mask.).
- Acacia myrtifolia* Sm.
Aspidiotus hederæ (Vallot).
- Acacia pycnantha* Benth.
Fiorinia lidgetti? Green.
- Acacia* sp.
Hemiberlesia rapax (Comst.).
- Acacia verticillata* Willd.
Mytilaspis sp. near *eucalypti* Froggatt, *Phenacaspis* sp. near *chinensis* (Ckll.).
- Aesculus hippocastanum* L.
Aspidiotus hederæ (Vallot).
- Amperea xiphoclada* Spreng.
Parlatoria pittospori Mask., *Poliaspis* sp.
- Anopterus glandulosus* Lab.
Phenacaspis sp. near *chinensis* (Ckll.).
- Arbutus unedo* L.
Lindingaspis rossi (Mask.).
- Asparagus plumosus* Baker.
Aspidiotus hederæ (Vallot).
- Astroloma humifusum* R. Br.
Poliaspis sp.
- Atherosperma moschatum* Lab.
Phenacaspis sp. near *chinensis* (Ckll.).
- Banksia marginata* Cav.
Lepidosaphes grandilobus (Mask.), *Mytilaspis* sp., near *eucalypti* Froggatt, *Parlatoria banksiae* (Mask.).
- Bedfordia salicina* DC.
Poliaspis syringae Laing.
- Blechnum nudum* (Labill) Mettenius ex Luenssen.
Pinnaspis aspidistrae (Signoret).
- Boronia* sp.
Aspidiotus hederæ (Vallot).
- Bouvardia* sp.
Aspidiotus hederæ (Vallot).
- Cactus* sp.
Abgrallaspis cyanophylli (Signoret).
- Callitris tasmanica* Baker & Smith.
Mytilaspis sp. near *eucalypti* Froggatt, *Parlatoria pittospori* Mask.
- Callitris oblonga* Rich.
Hemiberlesia rapax (Comst.).
- Camellia japonica* L.
Lindingaspis rossi (Mask.).
- Cassia* sp.
Aspidiotus hederæ (Vallot), *Fiorinia* sp. near *acaciae* Mask.
- Casuarina stricta* Ait.
Ancepsaspis sp., *Coccomytilus* sp. (b).
- Casuarina* sp.
Aspidiotus hederæ (Vallot).
- Casuarina littoralis* Salisb.
Coccomytilus sp. (b), *Phenacaspis* sp. (c).
- Ceanothus* sp.
Aspidiotus hederæ (Vallot), *Hemiberlesia rapax* (Comst.).
- Cotoneaster* sp.
Lindingaspis rossi (Mask.).
- Crataegus* sp.
Aulacaspis rosae (Bouché), *Quadraspidotus ostreaeformis* (Curt.).
- Cupressus* sp.
Carulaspis juniperi (Bouché).
- Cupressus macrocarpa* Hartw.
Carulaspis juniperi (Bouché).
- Cymbidium* spp.
Aspidiotus hederæ (Vallot), *Diaspis boisduwali* Signoret, *Eucornuaspis machili* (Mask.).
- Davesia ulicina* Sm.
Parlatoria pittospori Mask., *Poliaspis exocarpi* Mask.
- Dianella tasmanica* Hook.
Hemiberlesia rapax (Comst.).
- Diplarrena moraea* Lab.
Mytilaspis sp.
- Dodonaea viscosa* Jacq.
Aspidiotus hederæ (Vallot).
- Epacris impressa* Lab.
Phenacaspis sp. (b), *Poliaspis* sp.
- Erica* sp.
Aspidiotus hederæ (Vallot).
- Eucalyptus amygdalina* Lab.
Ancepsaspis anomala (Green), *Mytilaspis* sp. near *eucalypti* Froggatt.
- Eucalyptus rubida* Deane and Maiden.
Chrysomphalus trifasciculatus Brimblecombe.
- Eucalyptus* sp.
Chrysomphalus trifasciculatus Brimblecombe.
- Eugenia* sp.
Phenacaspis australis Laing.
- Evonymus* sp.
Lindingaspis rossi (Mask.).
- Exocarpos cupressiformis* Lab.
Aspidiotus hederæ (Vallot), *Mytilaspis* sp. near *eucalypti* Froggatt, *Parlatoria* sp., *Poliaspis exocarpi* Mask.
- Exocarpos stricta* R. Br.
Parlatoria pittospori Mask., *Poliaspis exocarpi* Mask.
- Hedera helix* L.
Lindingaspis rossi (Mask.).
- Howia* sp.
Aspidiotus hederæ (Vallot).

- Ilex aquifolium* L.
Hemiberlesia rapax (Comst.).
Kentia sp.
Aspidiotus hederæ (Vallot).
Lauris nobilis L.
Aspidiotus hederæ (Vallot), *Hemiberlesia rapax* (Comst.).
Leptospermum lanigerum Sm.
Alioides sp.
Leptospermum scoparium Forst.
Aspidiotus hederæ (Vallot).
Ligustrum vulgare L.
Hemiberlesia rapax (Comst.).
Lomandra longifolia Lab.
Phenacaspis xerotidis (Mask.).
Macadamia tetraphylla F. Muell.
Aspidiotus hederæ (Vallot).
Melaleuca ericifolia Sm.
Phenacaspis sp. (a).
Melaleuca squarrosa Sm.
Hemiberlesia rapax (Comst.).
Myoporum serratum R. Br.
Hemiberlesia rapax (Comst.).
Nerium oleander L.
Lindingaspis rossi (Mask.).
Olea europæa L.
Aspidiotus hederæ (Vallot).
Phoenix spp.
Aspidiotus hederæ (Vallot), *Phenacaspis australis* Laing.
Pittosporum bicolor Hook.
Monaonidiella sp.
Prunus avium L.
Quadraspidiotus pyri (Licht.).
Prunus domestica L.
Quadraspidiotus ostreaeformis (Curt.), *Quadraspidiotus pyri* (Licht.).
Prunus persica L.
Quadraspidiotus pyri (Licht.).
Prunus serrulata Lindl.
Quadraspidiotus ostreaeformis (Curt.).
Quadraspidiotus perniciosus (Comst.).
Prunus triloba Lindl.
Quadraspidiotus pyri (Licht.).
Psoralea pinnata L.
Aspidiotus hederæ (Vallot).
Pultenaea juniperina Lab.
Poliopsis exocarpi Mask.
Pyrus communis L.
Hemiberlesia rapax (Comst.), *Lepidosaphes ulmi* (L.), *Quadraspidiotus ostreaeformis* (Curt.), *Quadraspidiotus perniciosus* (Comst.), *Quadraspidiotus pyri* (Licht.).
Pyrus malus L.
Aspidiotus hederæ (Vallot), *Aulacaspis rosae* (Bouché), *Hemiberlesia rapax* (Comst.), *Lepidosaphes ulmi* (L.), *Quadraspidiotus ostreaeformis* (Curt.), *Quadraspidiotus perniciosus* (Comst.), *Quadraspidiotus pyri* (Licht.).
Rhododendron sp.
Hemiberlesia rapax (Comst.).
Ribes nigrum L.
Aspidiotus hederæ (Vallot).
Rosa spp.
Aulacaspis rosae (Bouché).
Sarothamnus scoparius (L.).
Aspidiotus hederæ (Vallot).
Telopea truncata R. Br.
Aspidiotus hederæ (Vallot).
Tulipa sp.
Aspidiotus hederæ (Vallot).

FAMILY INDEX TO HOST PLANTS
(Cited as genera)

- Apocynaceae.
Nerium.
 Aquifoliaceae.
Ilex.
 Araliaceae.
Hedera.
 Cactaceae.
Cactus.
 Casuarinaceae.
Casuarina.
 Celastraceae.
Evonymus.
 Compositae.
Bedfordia.
 Cupressaceae.
Callitris, *Cupressus*.
 Dennstaediaceae.
Blechnum.
 Epacridaceae.
Astrolooma, *Epacris*.
 Ericaceae.
Arbutus, *Erica*, *Rhododendron*.
 Euphorbiaceae.
Amperea.
 Hippocastanaceae.
Aesculus.
 Lauraceae.
Lauris.
 Leguminosae.
Acacia, *Cassia*, *Davesia*, *Psoralea*, *Pultenaea*, *Sarothamnus*.

- Liliaceae.
Asparagus, Dianella, Diplarrena, Lomandra, Tulipa.
- Monimiaceae.
Atherosperma.
- Myoporaceae.
Myoporum.
- Myrtaceae.
Boronia, Eucalyptus, Eugenia, Leptospermum, Melaleuca.
- Cleaceae.
Ligustrum, Olea.
- Orchidaceae.
Cymbidium.
- Palmaceae.
Howia, Kentia, Phoenix.
- Pittosporaceae.
Pittosporum.
- Proteaceae.
Banksia, Macadamia, Telopea.
- Rhamnaceae.
Ceanothus.
- Rosaceae.
Cotoneaster, Cratageus, Prunus, Pyrus, Ribes, Rosa.
- Rubiaceae.
Bouvardia.
- Santalaceae.
Exocarpos.
- Sapindaceae.
Dodonaea.
- Saxifragaceae.
Anopterus.
- Ternstroemiaceae.
Camellia.

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