

1. PaDIL Species Factsheet



Scientific Name:

Fusilaspis phymatodidis (Maskell, 1880)

(Hemiptera: Diaspididae)

Common Name

Fern Scale (New Zealand)

Live link: <http://www.padil.gov.au/maf-border/Pest/Main/141283>

Image Library

New Zealand Biosecurity

Live link: <http://www.padil.gov.au/maf-border/>

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Manaaki Whenua
Landcare Research

Landcare Research — Manaaki Whenua

<http://www.landcareresearch.co.nz/>

Biosecurity New Zealand

Tiakitanga Pūtaiao Aotearoa

MPI (Ministry for Primary Industries)

<http://www.biosecurity.govt.nz/>

2. Species Information

2.1. Details

Specimen Contact: New Zealand Arthropod Collection - nzac@landcareresearch.co.nz

Author: Henderson, R. C. & Crosby, T. K.

Citation: Henderson, R. C. & Crosby, T. K. (2011) Fern Scale (New Zealand) (*Fusilaspis phymatodidis*)

Updated on 3/31/2014 Available online: PaDIL - <http://www.padil.gov.au>

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2.2. URL

Live link: <http://www.padil.gov.au/maf-border/Pest/Main/141283>

2.3. Facets

Commodity Overview: Horticulture

Commodity Type: 1 Other

Groups: Bugs

Status: NZ - Endemic

Pest Status: 0 Unknown

Distribution: Australasia

Host Family: Asclepiadaceae, Dicksoniaceae, Polygonaceae, Pteridaceae, Blechnaceae, Cyatheaceae, Dryopteridaceae, Gleicheniaceae, Grammitidaceae, Hymenophyllaceae, Marattiaceae, Oleandraceae, Schizaeaceae

2.4. Other Names

Fusilaspis phymatodidis (Maskell, 1880) MacGillivray, 1921

Lepidosaphes phymatodidis (Maskell, 1880) Fernald, 1903

Mytilaspis phymatodidis Maskell, 1880

Pseudaulacaspis phymatodidis (Maskell, 1880) Deitz, Tocker, 1980

Trichomytilus phymatodidis (Maskell, 1880) Lindinger, 1933

2.5. Diagnostic Notes

****Source:** Henderson (2011) [See Web Links tab]**

****Live Appearance and Habitat****

Female scale cover pyriform, white to creamy white, with golden brown terminal exuvia; when on underside of fronds of silver fern (*Cyathea dealbata*) the scale covers are more silver-grey and blend with the colour of the substrate; female body bright yellow, eggs pale yellow. Male scale covers are similar but smaller, not carinated. On underside of fronds of its fern host.

****Diagnosis****

Adult female, measurements taken from 30 specimens. Body oval to fusiform, length 0.56–1.25 mm, width 0.34–0.67 mm, widest at about abdomen I, lateral abdominal lobes weakly developed; pygidium shape oval,

median deeply notched. L1 yoked, free margin always dentate, median cleft usually wide, sometimes more narrow; with a pair of setae in medial space; L2 bilobed, rounded, the medial lobule with fine basal sclerites extending onto venter, the lateral lobule smallest, sometimes dentate or notched, L3 bilobed, rounded, or notched, lateral lobule sometimes a point, L4 a marginal serration. Pygidium gland spines long, pointed, 1 pair on each segment. Marginal macroducts barrel-shaped, 7 pairs, their openings oval and slightly asymmetric to margin. Submedian and submarginal pygidial dorsal ducts about same size as marginal macroducts, in 2–4 short rows of 1–4 ducts each side usually on segments IV–VI; prepygidial dorsal ducts small, about 1/2 size of pygidial macroducts, distributed mostly on dorsal submargins and occasionally present on ventral submargins. Anal opening round, about 12.5–17.5 µm, positioned 60–100 µm from posterior margin. Ventral ducts, microducts, and gland tubercles as for genus. Antenna with 1 long seta and usually 2 or more short stubs. Anterior spiracles each with a group of 7–22 trilocular pores; posterior spiracles each with 0–12 trilocular pores. Perivular pores in 5 distinctly well separated, often rounded groups, a total of 55–82 pores on each female. Vulva positioned beneath level of anal opening.

2.6. References

- Henderson, R. C. (2011). Diaspididae (Insecta: Hemiptera: Coccoidea). *Fauna of New Zealand 66*, 275 pp. [See Web Links tab]

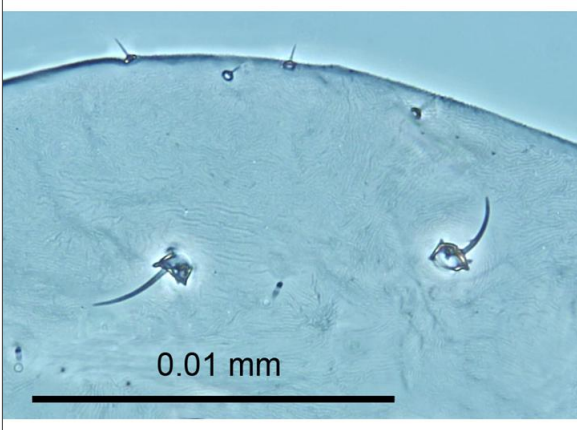
2.7. Web Links

Scale Net: <http://scalenet.info/validname/Fusilaspis/phymatodidis/>

Henderson (2011):

<http://www.landcareresearch.co.nz/research/biosystematics/invertebrates/faunaofnz/Extracts/FNZ66/FNZ66ind.asp>

3. Diagnostic Images



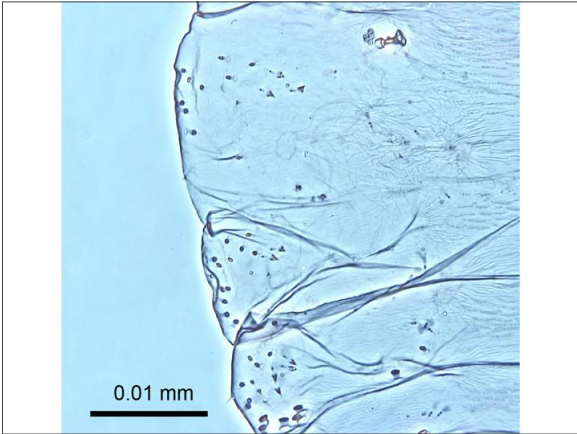
Slide mounted
Antenna - Female: Rosa Henderson
 Landcare Research



Slide mounted
Full body - Female: Rosa Henderson
 Landcare Research



Adult females, one with eggs, scale cover removed
Full body and eggs - Female In life: Rosa Henderson
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Slide mounted
Lateral Abdomen - Female: Rosa Henderson
 Landcare Research

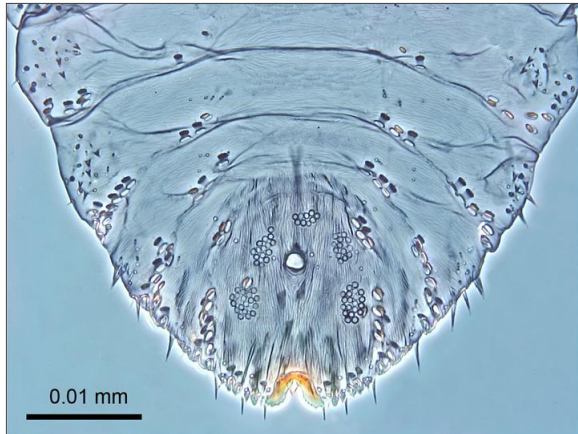


Slide mounted
Mouth and Spiracle - Female: Rosa Henderson
 Landcare Research

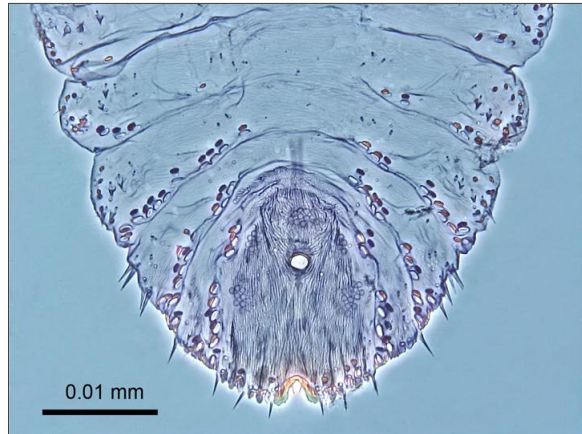


Slide mounted
Pygidium - Female: Rosa Henderson
 Landcare Research

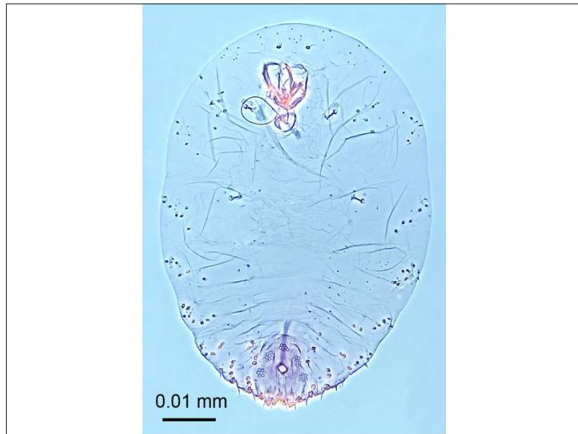
4. Other Images



Slide mounted
Abdomen - Female: Rosa Henderson
Landcare Research



Slide mounted
Abdomen Long - Female: Rosa Henderson
Landcare Research



Slide mounted
Full body - Female: Rosa Henderson
Landcare Research



Adult females on Dicksonia
In life - Image: Rosa Henderson Landcare
Research

Results Generated:

Wednesday, August 10, 2022