

1. PaDIL Species Factsheet



Scientific Name:

Viteus vitifoliae (Fitch)
(Hemiptera: Aphididae)

Common Name

Grape phylloxera

Live link: <http://www.padil.gov.au:80/pests-and-diseases/Pest/Main/136106>

Image Library

Australian Biosecurity

Live link: <http://www.padil.gov.au:80/pests-and-diseases/>

Partners for Australian Biosecurity image library



Museum Victoria

<http://museumvictoria.com.au/>



CRC National Plant Biosecurity

<http://www.crcplantbiosecurity.com.au/>



Plant Health Australia

<http://www.planthealthaustralia.com.au/>



Department of Agriculture, Fisheries and Forestry

<http://www.daff.gov.au/>



Department of Agriculture and Food, Western Australia

<http://www.agric.wa.gov.au/>

2. Species Information

2.1. Details

Specimen Contact: Department of Primary Industries, Victoria -

Author: John Wainer and Mali Malipatil

Citation: John Wainer and Mali Malipatil (2007) Grape phylloxera(*Viteus vitifoliae*)Updated on 5/13/2009

Available online: PaDIL - <http://www.padil.gov.au>

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2.2. URL

Live link: <http://www.padil.gov.au:80/pests-and-diseases/Pest/Main/136106>

2.3. Facets

Status: Exotic Species Establishment in Australia

Group: Bugs

Commodity Overview: Horticulture

Commodity Type: Fresh Roots, Leaves, Viticulture

Distribution: Australasian - Oceanian, Cosmopolitan

2.4. Other Names

Dactylosphaera vastatrix (Planchon)

Dactylosphaera vitifoliae (Shimer)

grape leaf louse

grape phylloxera

Peritymbia vastatrix Fitch

Peritymbia vitifoliae (Planchon)

Peritymbia vitisana Westwood

phylloxera

Phylloxera pervastatrix Börner

Phylloxera vastatrix (Planchon)

Rhizaphis vastatrix (Planchon)

vine louse

Viteus vastatrix (Planchon)

2.5. Diagnostic Notes

Gallicolae form (leaf-feeding)Adult: globular aphid, 1.6-1.8 mm long and 1-1.2 mm wide; cephalothorax widened and its dorsal face rounded off; abdomen tapers off and is slightly frayed posteriorly; antennae composed of three segments, the third one being the most developed and provided with a large primary latero-external sensorium; the processus terminalis is short and broad, little differentiated at its base, having a length which is one-third in excess of that of the third segment (dimension taken from the base of the sensorium to the tip of the antenna, excluding the apiales); dorsal cuticle is rough, but entirely free from tubercles. The rostrum reaches the femora of the front legs.

Radicicolae form (root-feeding)Adult: general appearance similar to gallicolae form, but smaller, being about 1 mm long. Distinguished from gallicolae by presence of tubercles on dorsal surface - 12 on head, 28 on thorax and 30 on abdomen. Antenna with processus terminalis well differentiated and much finer than that in

gallicolae form.

Nymphs: have four stages, general external morphology as adult. In later stages, width of body increases more rapidly than length, thus body becomes rounded in outline. Size of legs and antennae does not increase at same rate as that of body; so appear smaller in later stages. From second stage onwards, tubercles on the dorsal surface become more obvious.

2.6. References

AICN (2007). Australian Insect Common Names. CSIRO. <http://www.ento.csiro.au/aicn/index.htm> Blackman, R.L. & Eastop, V.F. (2000). Aphids on the World's Crops. An identification and Information Guide, 2nd Edition. Wiley & Sons, England. 466pp. CPC (2007) Crop Protection Compendium. CAB International, Wallingford, UK. <http://www.cabicompendium.org/cpc/home.asp> Millar, I.M. (1990). The aphids (Homoptera: Aphidoidea) of South Africa, an identification guide. Entomology Memoir No. 78, Department of Agricultural Development, Republic of South Africa. 105pp.

2.7. Web Links

CSIRO Insect Common Names: http://www.ento.csiro.au/aicn/name_s/b_1272.htm

Fact Sheet, Bibliography, Newsletter (UC Davis): <http://entomology.ucdavis.edu/faculty/granett/phyphage.htm>

Fact Sheet, Images (Ohio State University) : <http://ohioline.osu.edu/hyg-fact/2000/2600.html>

Fact Sheet, Images (University of Kentucky): <http://www.uky.edu/Ag/Entomology/entfacts/fruit/ef222.htm>

Fact Sheet, Images (Washington State University) :

<http://cru.cahe.wsu.edu/CEPublications/eb1566/eb1566.html>

Fact Sheet, Links (Oregon State University) :

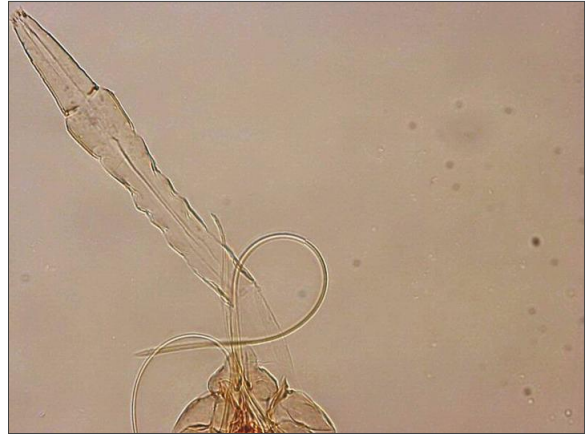
<http://berrygrape.oregonstate.edu/fruitgrowing/grapes/phybiol.htm>

PBT link: <http://www.padil.gov.au/pbt/index.php?q=node/46&pbtID=111>

3. Diagnostic Images



Brazil: Campinas, 1970, A.H. Camargo
Apterous vivipara - hindleg: Ken Walker
Museum Victoria



Vic, 20km E of Averal via Upton Rd. 5 May
200, ex. grapevine root *Vitis* sp. det. J.
Wainer 2005
Apterous vivipara - Rostrum: Alice Ames
Department of Primary Industries, Victoria



Brazil: Campinas, 1970, A.H. Camargo
**Apterous vivipara 3rd antennal segment and
apex:** Ken Walker Museum Victoria



Brazil: Campinas, 1970, A.H. Camargo
Apterous vivipara cauda: Ken Walker
Museum Victoria



Brazil: Campinas, 1970, A.H. Camargo
Apterous vivipara cauda: Ken Walker
Museum Victoria



Brazil: Campinas, 1970, A.H. Camargo
Apterous vivipara head profile: Ken Walker
Museum Victoria

4. Other Images



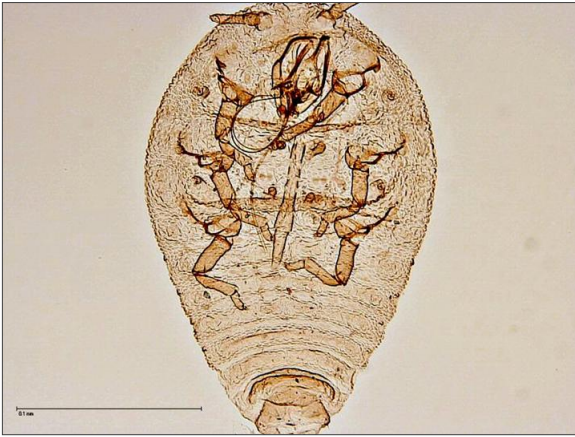
Vic, 20km E of Averal via Upton Rd. 5 May 200, ex. grapevine root *Vitis* sp. det. M. Malipatil 2000

Apterous vivipara - Abdomen: Alice Ames
Department of Primary Industries, Victoria



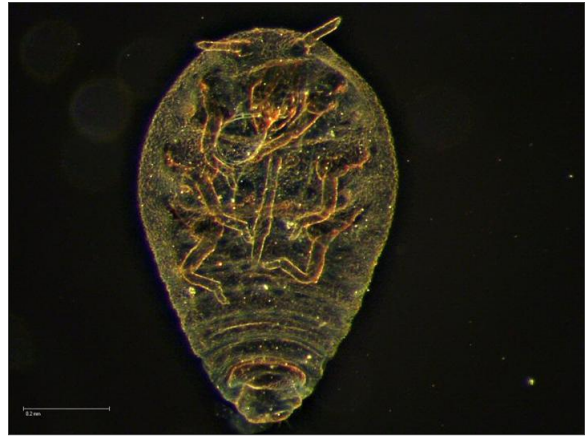
Vic, 20km E of Averal via Upton Rd. 5 May 200, ex. grapevine root *Vitis* sp. det. J. Wainer 2005

Apterous vivipara - Antennae: Alice Ames
Department of Primary Industries, Victoria



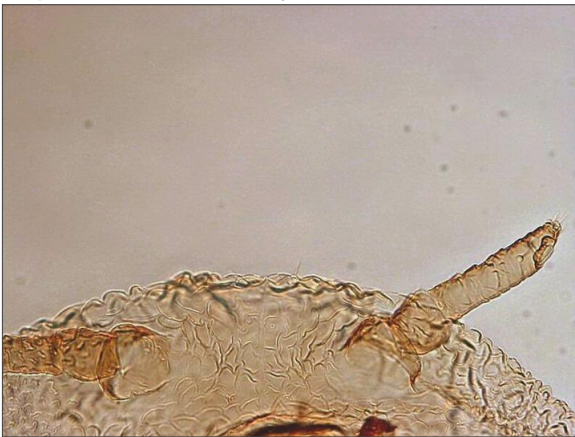
Vic, 20km E of Averal via Upton Rd. 5 May 200, ex. grapevine root *Vitis* sp. det. M. Malipatil 2000

Apterous vivipara - Dorsal: Alice Ames
Department of Primary Industries, Victoria



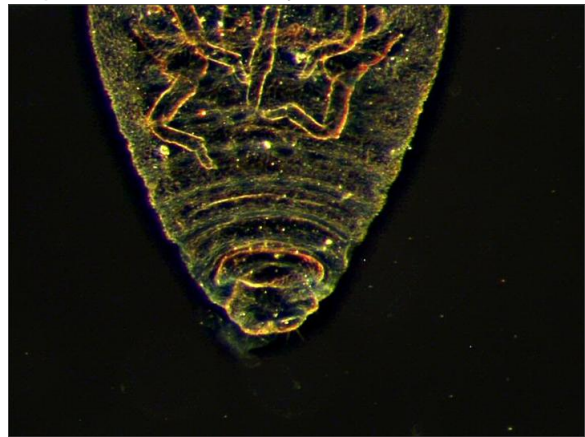
Vic, 20km E of Averal via Upton Rd. 5 May 200, ex. grapevine root *Vitis* sp. det. M. Malipatil 2000

Apterous vivipara - Dorsal: Alice Ames
Department of Primary Industries, Victoria



Vic, 20km E of Averal via Upton Rd. 5 May 200, ex. grapevine root *Vitis* sp. det. M. Malipatil 2000

Apterous vivipara - Head profile: Alice Ames
Department of Primary Industries, Victoria



Vic, 20km E of Averal via Upton Rd. 5 May 200, ex. grapevine root *Vitis* sp. det. M. Malipatil 2000

Apterous vivipara - Posterior: Alice Ames
Department of Primary Industries, Victoria

Results Generated:

Wednesday, April 1, 2020
