



Pia Scanlan DAFWA

Monitoring for TPP: a Zebra Chip vector

Cait Selleck - Agriculture Victoria entomologist



Department of
Primary Industries and
Regional Development

GOVERNMENT OF
WESTERN AUSTRALIA

Hort
Innovation

Zebra Chip and its vectors

- ▶ Candidatus *Liberibacter solanacearum* - CLso
- ▶ Affects many solanaceous plants - stunted, deform, poor quality fruit, **Zebra Chip**
- ▶ Vectored by psyllids (plant lice) - TPP, *T. apicalis* and *B. trigonica* (carrot psyllids)



TPP

Bactericera cockerelli

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Trioza apicalis

© Igor Malenovský, Masaryk University



Bactericera trigonica

© Diana Percy, Natural History Museum

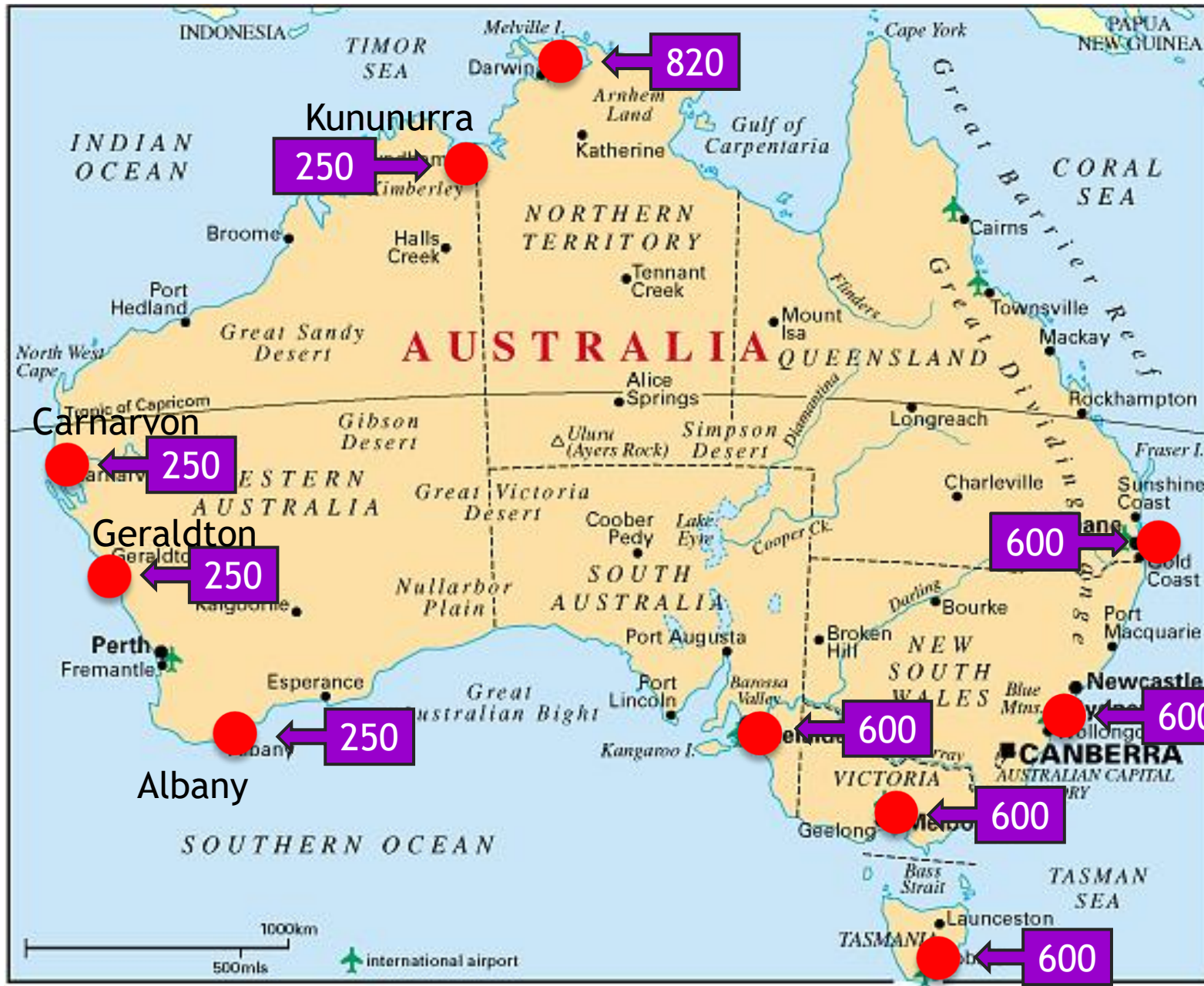


Learning from Western Australia

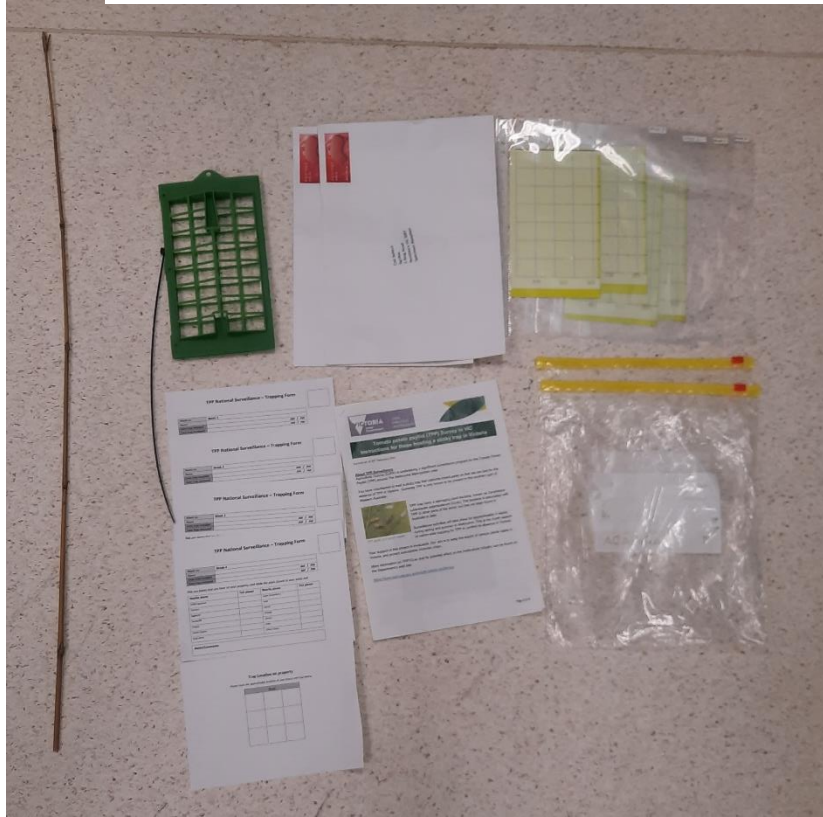


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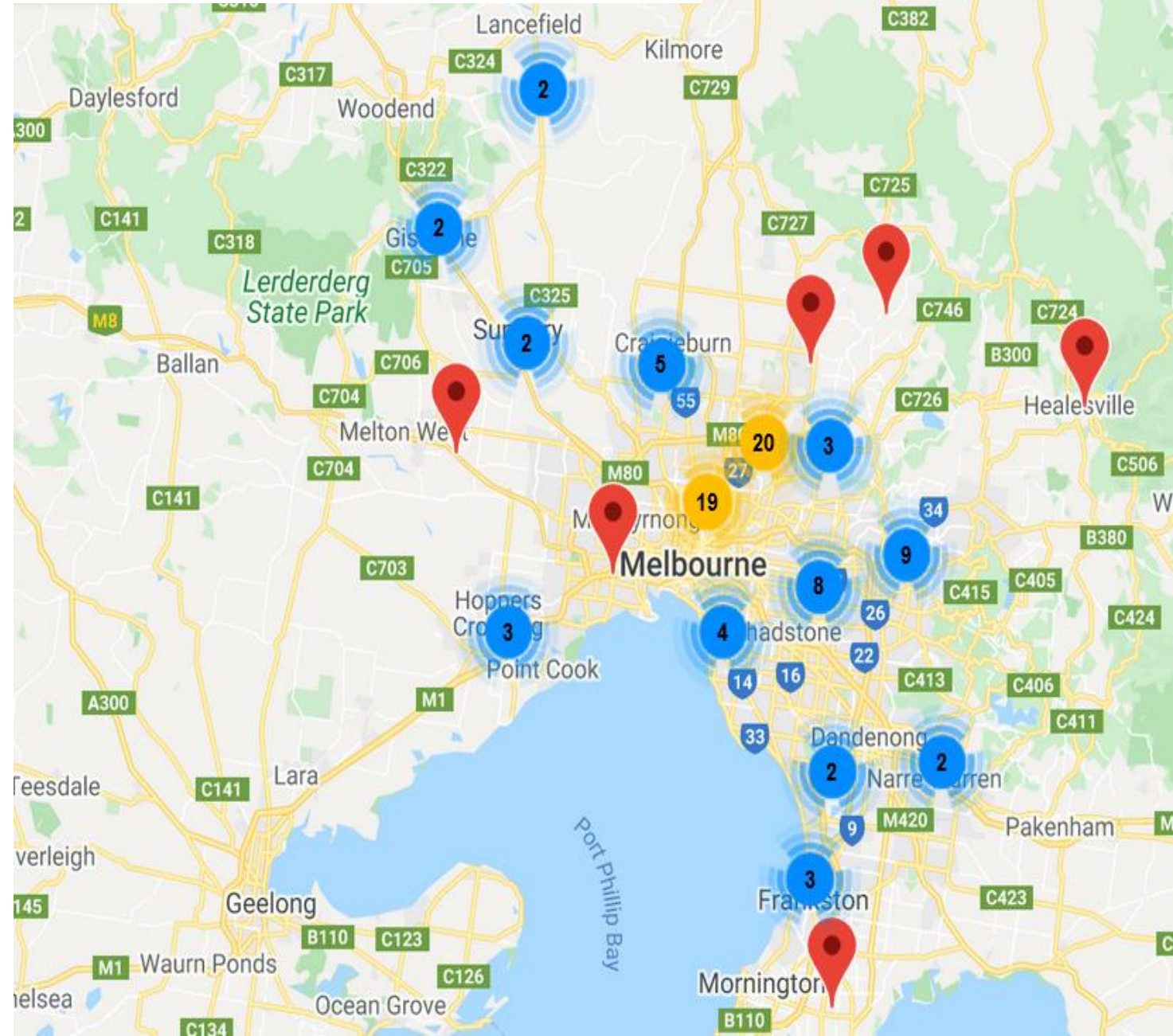
National TPP Surveillance Project 2019 - 2022



National TPP Surveillance Project 2019 - 2022



X 1800



Identification of TPP - in the field



Eggs



Adults

© Western Australian Agriculture Authority, 2017

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Identification of TPP - in the field



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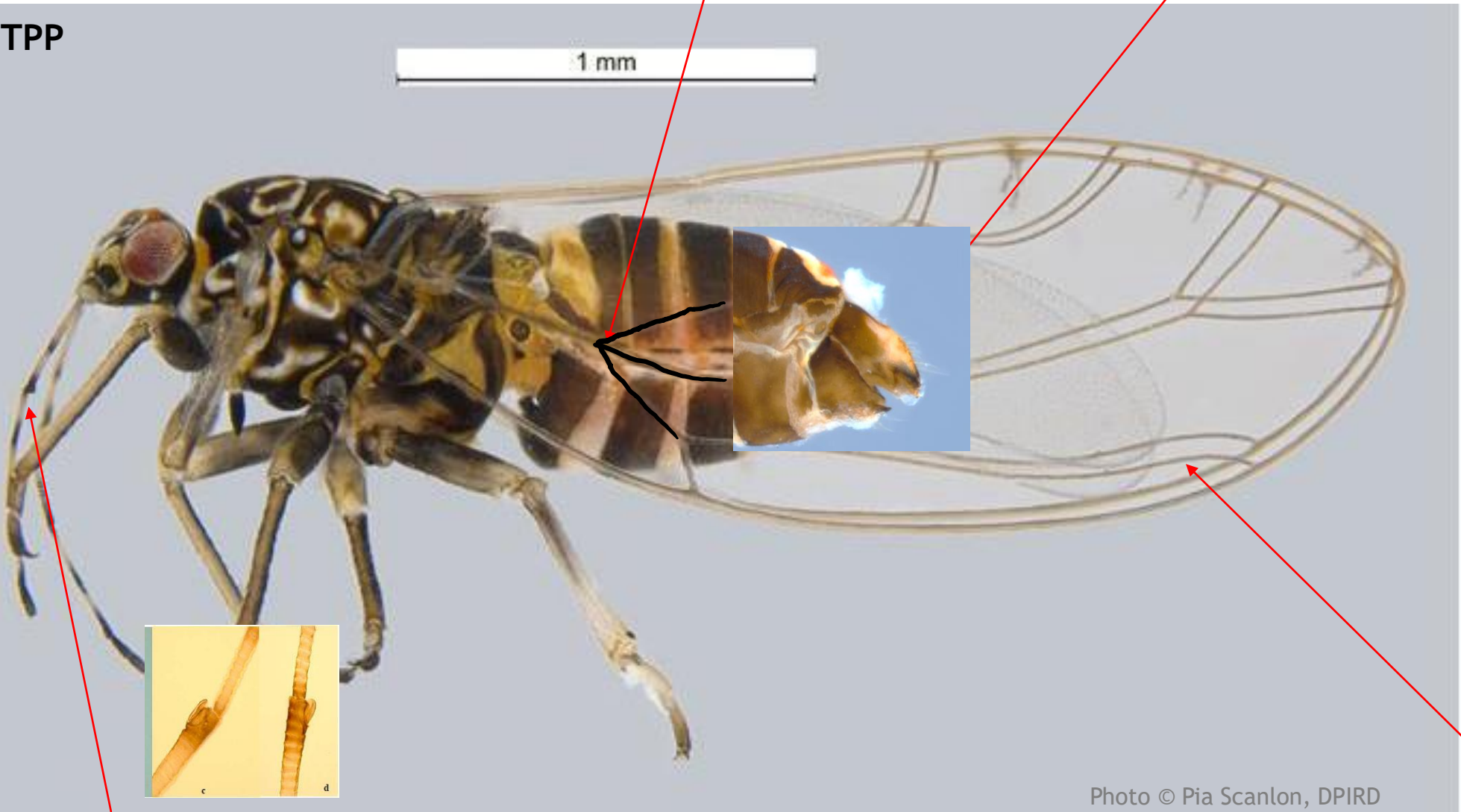
Identification of TPP - in the lab

TPP

1 mm

Trifurcating split of wing vein

Male genitalia



Baliotte et al. 2021

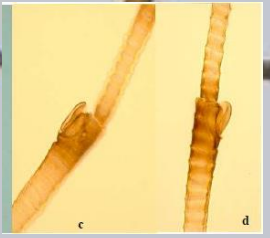


Photo © Pia Scanlon, DPIRD

Striped antennal segments with covered rhinarium (lump) - TPP specific

Rs wing vein - TPP specific

If you think you've found TPP

Call the Exotic plant pest hotline on [1800 084 881](tel:1800084881) or report online

Reporting an unusual pest or disease of plants or honey bees

Report any unusual plant pest or disease immediately using our online reporting system. Early reporting increases the chance of effective control and eradication. Please take good quality photos of the pests or damage to include in your report where possible.

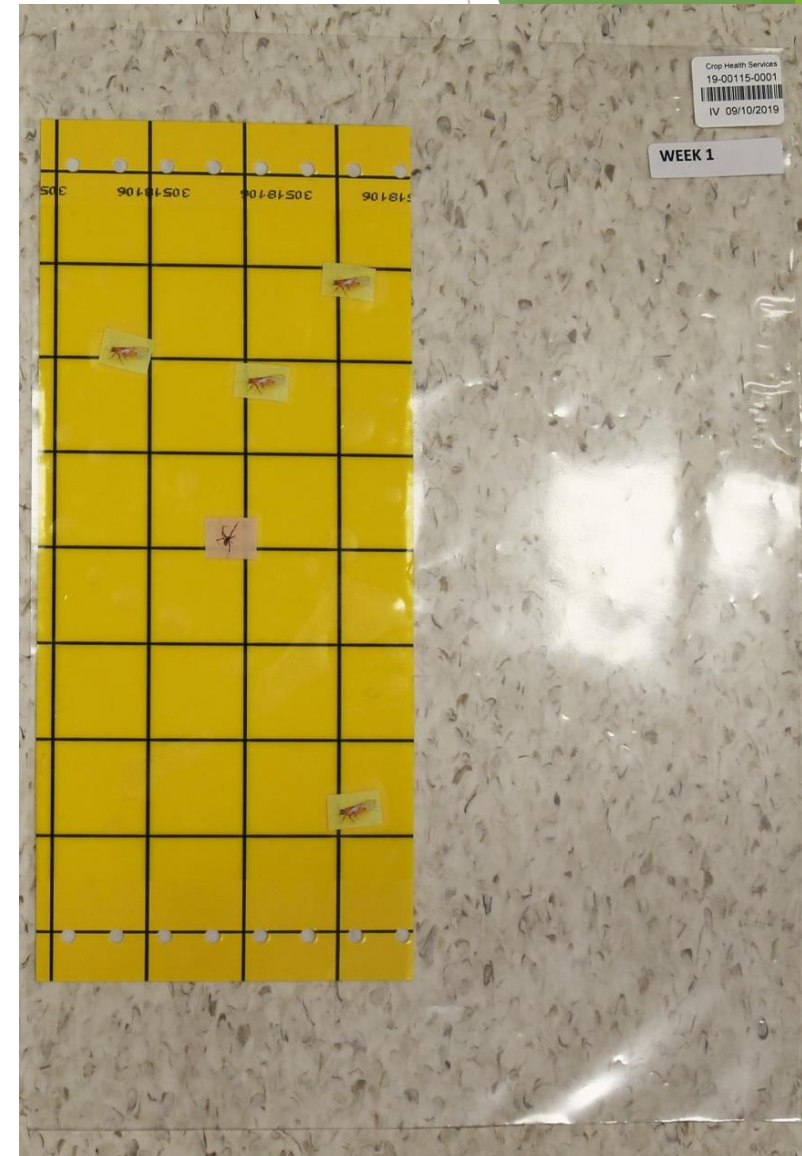
Alternatively, you can call the Exotic plant pest hotline on [1800 084 881](tel:1800084881).

[Report online](#)

Send samples to us at AgriBio:

<https://agriculture.vic.gov.au/support-and-resources/services/diagnostic-services>

Crop Health Services



Crop Health Services

Crop Health Services (CHS) is the commercial plant pest and disease diagnostics service operated by the department. CHS offers a broad range of diagnostic tests.

Our clients are:

- growers
- crop consultants
- agronomists
- chemical resellers
- agents
- nurseries
- Australian Department of Agriculture, Fisheries and Forestry (DAFF)
- other state and federal agriculture departments
- home gardeners.

To have samples examined by CHS, download the specimen submission form:

- [Specimen submission form \(WORD - 135.9 KB\)](#)

Further information

- [Terms and conditions for Diagnostic Services \(PDF - 144.9 KB\)](#)
- [Terms and conditions for Diagnostic Services \(WORD - 34.2 KB\)](#)

Contact us

Phone: (03) 9032 7515

Fax: (03) 9032 7604

The following address is both our physical and postal address:

AgriBio Specimen Reception
Main Loading Dock
5 Ring Road
La Trobe University
Bundoora VIC 3083

Agriculture Victoria DA FORM 13 CHS Specimen Submission Form

AgriBio AgriBio – Crop Health Services
SAMPLE RECEPTION - MAIN LOADING DOCK
5 Ring Rd, La Trobe University Campus,
Bundoora, Victoria, 3083
Phone: 03 9032 7323 Fax: 03 9032 7604
Email: chs_reception@agriculture.vic.gov.au

AGRICULTURE VICTORIA

LAB USE ONLY
AgriBio
Submission No.

CHS SPECIMEN SUBMISSION FORM

Date specimen received (Office use):

CLIENT INFORMATION

Title: Name: Email:

Business name: Grower name:

Sample location:

Postal address:

Postcode: State: Phone: Fax:

SPECIMEN DETAILS

Date specimen collected: Date specimen forwarded:

Accession no.: Location/Grid ref.: PO no.:

TYPE OF SPECIMEN SUBMITTED

PLANT	SOIL	INSECT	OTHER (please specify):	Commercial crop	Garden	Nursery	Other (please specify)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Plant affected: Part(s) affected: Leaves Stems / Branches Trunk Roots Fruit Flowers Whole Plant

Symptoms:

Symptom pattern:	Middle	Edges	Patches	Scattered	Along rows	Random	Whole crop
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Investigation requested:

BACKGROUND INFORMATION

Percentage crop affected: % Age of plants Problem evident previously?

Yes No

Drainage: Good Fair Poor If Yes, when?

Soil type: Sand Loam Clay Potting media Hydroponic media

Spray & Fertiliser applications:

Client signature:

NOTE: Should you wish to cancel tests recommended by CHS after receiving your Interim Report, please contact us within 24 hours to do so. If tests are cancelled, a minimum fee may apply.

Authorised by: Ayfer Kocak
Version: 1.0 Date: 17/01/2020
Control Status: Current

Group: Diagnostic Accessions
Doc ID#: 20839
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