



How to trap Tomato potato psyllid on your property

The Tomato potato psyllid (TPP) is a significant plant pest which has been detected in Western Australia.

TPP can affect a range of plants including potato, tomato, eggplant, capsicum, chilli, tamarillo, sweet potato, goji berry and solanaceous weeds.

TPP can carry the bacterium '*Candidatus Liberibacter solanacearum*', which causes yield loss and zebra chip disease in potato.

The Department of Agriculture and Food, Western Australia (DAFWA) offers an identification service for commercial growers who wish to monitor their crops for TPP using sticky traps.

This information sheet outlines how to:

- ✓ effectively trap TPP on your property using sticky traps, and
- ✓ send the traps to DAFWA for identification once they contain insects.

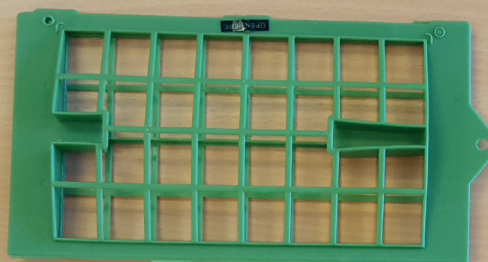


What you need to **install** a sticky trap



Yellow sticky trap insert

Sticky traps can be sourced from your local rural reseller or hardware store.



Protector cage

A protector cage is recommended to place over the sticky trap so only insects are caught on the trap.



2 cable ties
to close the
protector cage



2 bulldog clips
to attach sticky trap
to pole

Small pole
to attach trap to

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How to install the trap in the crop

Step 1. Remove covering from yellow sticky trap to expose the sticky layer.

Step 2. Place protective cage over trap

Step 3. Attach sticky trap to pole using 2 bulldog clips

Step 4. Place trap within 2 metres of edge of crop, one trap per side of crop (Fig 2).

Step 5. Place pole in crop so the bottom edge of trap is level with the top of crop canopy (Fig 1).

Step 6. Leave trap in location for 1 week.



Figure 1. Trap placement in crop so the bottom edge of trap is level with the top of crop canopy and the pole is clear of machinery.

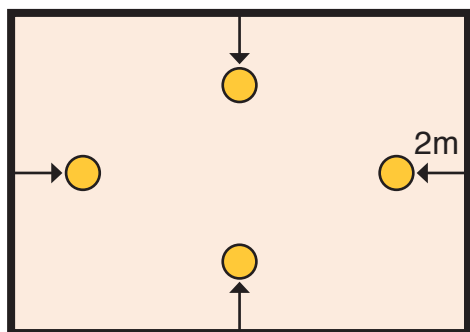


Figure 2. Trap placement within crop of 1-4 hectares

How many traps do I need on my property?

- The number of traps you need will depend on the size of your property and the distribution of TPP host crop plants on farm.
- If the property is 1-4 hectares and fully planted with host crops, 4 traps should be enough (Fig 2).
- If the property is larger and host crops are scattered across the property, additional traps may be useful.

What you need to collect a sticky trap

A4 plastic sleeve

Cut the plastic sleeve along the sealed edges so it opens like a book.

Plastic ziplock bag

Large enough to fit A4 plastic sleeve.

Permanent marker

MyPestGuide Report app

See overleaf to download the app for iPhone and Android



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How to collect sticky traps and send them for identification

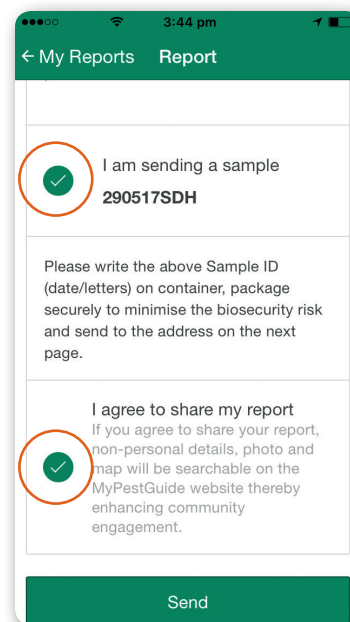
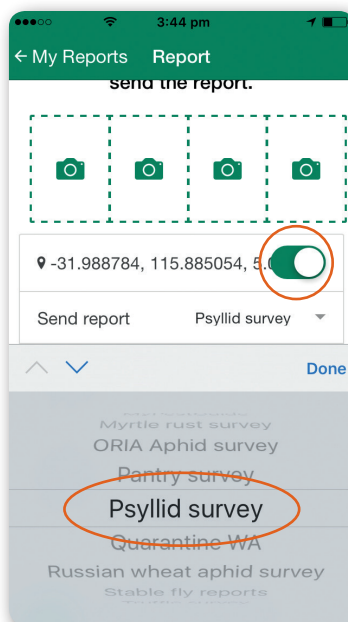
Use the MyPestGuide Reporter app to create a record and sample code for each group of traps sent to DAFWA.

For help using the MyPestGuide Reporter app please call 1800 084 881.

Alternatively deliver your samples to one of the DAFWA offices listed overleaf.



Download the MyPestGuide Reporter app here:



Your trap should look like the picture below when you have done these steps

Step 1. After 1 week, collect each sticky trap you installed on the property.

Step 2. Place the collected trap insert on one side of A4 plastic sleeve which has been cut to open. Two sticky traps should fit per plastic sleeve. Close the plastic sleeve over the traps carefully so you don't squash any insects on the trap.

Step 3. Use a black permanent marker to clearly write the MyPestGuide sample code and date of collection on each plastic sleeve, above the yellow inserts.

Step 4. Place the sleeve(s) with collected sticky traps in the ziplock bag.

Step 5. Place the ziplock bag in padded envelope or tough bag and mail to the address overleaf or drop the samples off at your local DAFWA office.

Step 6. Continue to monitor for TPP by replacing trap inserts weekly while host crops are present.

Trap ready to be sent for analysis with MyPestGuide sample code and date written on sleeve.



Department of Agriculture and Food, WA office locations:

TPP Samples Entomology

DDLS – Plant Pathology
Department of Agriculture and Food WA
3 Baron-Hay Court
South Perth WA 6151
Phone: +61 (0)8 9368 3721

Manjimup - 28527 South West Highway, Manjimup WA 6258
Phone: +61 (0)8 9777 0000

Albany - 444 Albany Highway, Albany WA 6330
Phone: +61 (0)8 9892 8444

Bunbury - Verschuer Place, Bunbury WA 6230
Phone: +61 (0)8 9780 6100

Carnarvon - South River Road, Carnarvon WA 6701
Phone: +61 (0)8 9956 3333

Geraldton - 20 Gregory Street, Geraldton WA 6530
Phone: +61 (0)8 9956 8555

How do I get my results?

Results will be provided via the MyPestGuide app once samples have been received and tested by the diagnostic laboratory in Perth.

The MyPestGuide Reporter app lets you quickly identify pests and report your observations instantly to DAFWA.

Good farm biosecurity procedures should be in place to prevent the entry, establishment and spread of pests and diseases. More information on biosecurity is available at the Farm biosecurity website farmbiosecurity.com.au