Pacific Pests, Pathogens, Weeds & Pesticides - Online edition

Tomato red spider mite (477)

Summary

- Worldwide distribution. In Australia, New Zealand, but NOT in Pacific island countries.
- Serious pest, mainly Solanaceae. White speckling of leaves; later, as populations increase, webbing on undersides and leaves turn yellowish then brown and fall. Females about 0.5mm, oval, orange-red; males smaller.
- Spread: carried on wind, water, clothing and tools, and via domestic and international trade in plants. When food depleted, mites congregate at tops of plants awaiting
- Biosecurity: guarantines for trade in fresh fruit and living plants.
- Natural enemies: ladybird beetles, lacewing larvae, pirate bugs, big-eyed bugs, and predatory thrips.
- Cultural control: weed, especially potato family; check nursery plants before replanting showing red eggs of tomato red spider mite, out; avoid water-stressed plants; use mulches; avoid planting next to mite-infested crops or planting downwind from those infested; plough in or collect and burn debris
- Chemical control: (i) use soap, white or horticultural oils; (ii) sulphur; or (iii) abamectin. Avoid organophosphates and synthetic pyrethroids.

Common Name

Tomato red spider mite

Scientific Name

Tetranychus evansi; previously known as Tetranychus takafujii. Note, it is similar to the two spotted mite, Tetranychus urticae (see Fact Sheet no. 024).



Photo 4. Heavy infestation of tomato red spider mite, Tetranychus evansi, with copious production of webbing holding the young leaves together preventing expansion.



Photo 5. Russeting of tomato caused by feeding of tomato red spider mite, Tetranychus evansi.



Photo 1. Underside of Solanum aviculare Tetranychus evansi, laid in furrows left (possibly) by leaf-eating insect.



Photo 2. Adult tomato red spider mite, Tetranychus evansi.



Photo 3. Heavy infestation of tomato red spider mite, Tetranychus evansi, on tomato. Note, the gathering of spider mites at the top of the plant.



Photo 6. White speckling of the top of tomato leaves by the feeding of the tomato red spider mite, Tetranychus evansi, on the underside.



Photo 7. Gathering of tomato red spider mite, Tetranychus evansi, at the top of tomato leaves ready for spread on the wind.



Photo 8. Tomato red mites, Tetranychus evansi, migrating to the tip of a root of Solanum americanum (nightshade) that has become the highest point on a pulled-up plant by bush regenerators unaware of the infestation.

AUTHOK Grahame Jackson
Information from Tomato red spider mite (2019) Business Queensland. Queensland Government. (https://www.business.qld.gov.au/industries/farms-fishing-forestry/agriculture/crop-growing/priority-pest-disease/tomato-red-spider-mite#:--text=Tomato%20red%20spider%20mite%2

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