

Common pests and diseases of Orange



Angular leaf spot (FUNGUS -Pseudocercospora angolensis)

- Leaf spots light brown or greyish, circular (up to 10 mm), mostly solitary, usually surrounded a prominent yellow halo
- Fruit spots circular to irregular. In young fruits the spots become hard and raised surrounded by a yellow halo. Centre of spots often cracked



Black spot (FUNGUS- Guignardia citrocarpa)

- Fruit spots small, round, sunken with gray centres and brick-red to chocolate brown margins. Green halos are often seen around the lesions.
- Fungal bodies appear as slightly raised black dots in the centre of lesions. They usually appear as fruit begins to colour



Citrus scab (FUNGUS - Elsinoe fawcetti)

- Leaf spots cream to tan wart-like outgrowths, circular or irregular with sunken centres, mostly along the main veins on the lower leaf surface.
- Leaves can become misshapen stunted or puckered
- Fruit spots circular to irregular raised corky areas or crater-like outgrowths





Citrus canker (BACTERIA -Xanthomonas citri subsp. citril)

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- Leaf spots young spots are small blisters surrounded by a yellow ring. Older spots turn tan to brown, and have a water-soaked margin surrounded by a yellow ring. The centre of the lesion becomes raised and corky.
- Fruit spots Young lesions are raised, blister-like, tan, surrounded by yellow halos, depending on fruit maturity Older spots are circular dark brown to black with brown to black sunken, corky centres



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Zinc deficiency (NUTRIENT DEFICIENCY – Zinc)

- Occurs first on new growth and remains on leaf as it matures. Early stages appear as small blotches of yellow between green veins on the leaf.
- Under severe deficiency, leaves become increasingly yellow except for the green venial areas
- Leaves will be small with narrow pointed tips on terminal growth.



Citrus greening (BACTERIA – Candidatus Liberibacter africanus)

- Leaf symptoms Blotchy mottle (random pattern of yellowing on leaves that is not the same on the right and left sides of the leaf, yellow veins, vein corking or green islands
- Fruit symptoms Lopsided, misshapen or small green fruit. Bitter taste with small aborted seeds
- Tree symptoms Yellow shoots, stunting, twig dieback



Citrus thrips (INSECT - Scirtothrips aurantii) © Eric Boa

- Citrus thrips are tiny (0.7 to 1 mm in length), orange yellow insects
- Thrips feeding causes brown circular rings of russet marks around the stem of the fruit



Orange dog fly (INSECT - Papilio demodocus)

- Young caterpillars are brownish with white patches and are spiny.
- Fully grown caterpillars are about 4.5 cm long green with light markings and eye-like spots towards the head of the body.