

THOUSAND CANKERS DISEASE and WALNUT TWIG BEETLE Identification Guide



Walnut twig beetle attacks only species of Juglans; the fungus, Geosmithia morbida, is transported by walnut twig beetle

Field diagnosis: Flagging/yellowing foliage, leaf wilt, canopy thinning, branch dieback, epicormic shoots





Adult walnut twig beetle: a) female - dorsal view, b) male - dorsal view, c) female - lateral view, and d) male - lateral view (Photos: 5. Valley, Valley, Oregon Dept. Agric).

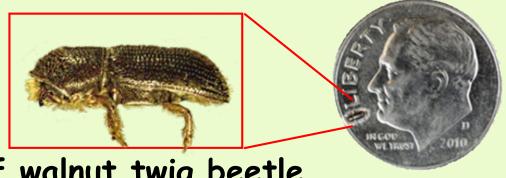
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Walnut twig beetle (Pityophthorus juglandis)



Life cycle of walnut twig beetle

Adults emerge in spring; seek feeding sites on the bark, where they enter and form galleries as they feed. Beetles deposit conidia and the fungus grows within the galleries forming small cankers.

Entrance hole	Beetle galleries	Egg in gallery	Larva in gallery	Pupa in gallery	Teneral adult

Fungal development in black walnut



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