Thousand Cankers Disease, *Geosmithia morbida*

Clockwise from top left: early flagging symptoms on *Juglans nigra*. *Juglans nigra* showing more advanced dieback. Bark removed showing walnut twig beetle galleries and coalescing cankers. *Juglans nigra* branch with walnut twig beetle entrance and exit holes.

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Clockwise from top left: adult walnut twig beetle, *Pityophthorus juglandis*, in gallery on black walnut. *Pityophthorus juglandis* adult. *Pityophthorus juglandis*, walnut twig beetle larva in gallery. Adult walnut twig beetles with penny for scale. ***For more information visit www.npdn.org/first_detector***

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