

# Thousand Cankers Disease



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# History

- First discovered in western US in 1990's
- Since 2010 confirmed in: Tennessee, Virginia, Ohio and North Carolina
- Confirmed in Bucks County, PA 8/9/2011
- Both beetle and fungus confirmed in Chester County in 2014
- NOT established in PA to date

# How it Kills

- Walnut Twig beetles carry fungus (*Geosmithia morbida*)
- Beetles tunnel beneath bark
- Fungal infection leads to canker formation
- Repeated beetle attacks & cankers disrupt flow of water & nutrients
- Twigs and branches eventually dieback
- Very slow moving

# Walnut Twig Beetle



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# Signs and Symptoms

- Yellowing of leaves
- Foliage thinning in upper crown
- Evidence of the beetle
- Twig dieback
- Larger limbs are killed as the disease progresses
- Eventually the trunk will die ~10 years



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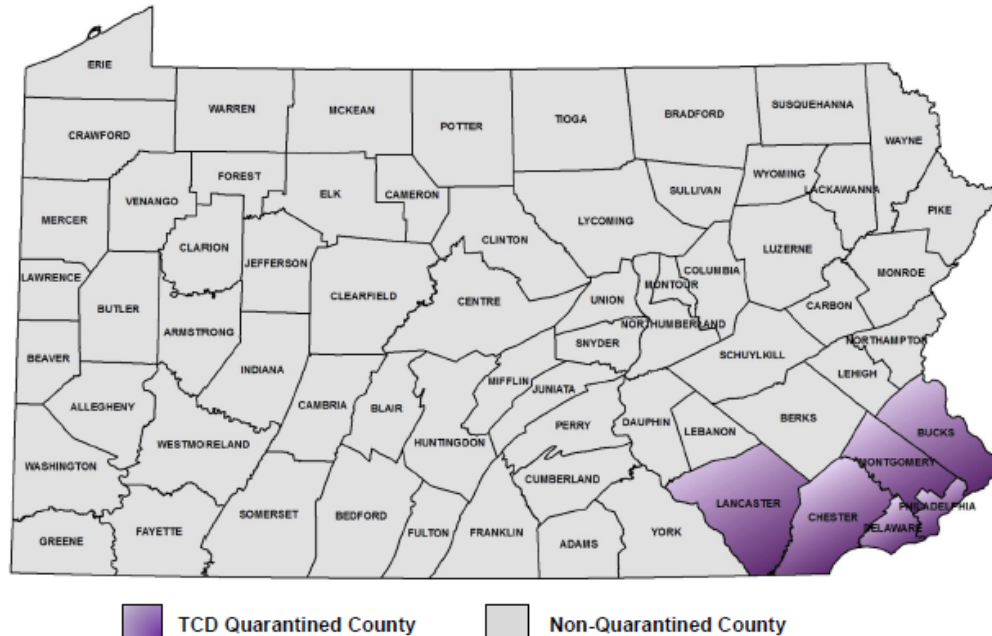


# Quarantine

- Designed to slow the spread
- Restricted movement of all walnut material in Bucks, Montgomery, Philadelphia, Delaware, Chester, and Lancaster
- Violations can result in penalties up to 90 days in prison or up to \$20,000

# Current Quarantine

Pennsylvania Department of Agriculture Map of Counties Quarantined for Thousand Cankers Disease as of November 01, 2014



# Questions?

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