

Pest Profile



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Common Name: Zimmerman Pine moth

Scientific Name: *Dioryctria zimmermani*

Order and Family: Lepidoptera; Pyralidae

Size and Appearance:

	Length (mm)	Appearance
Egg		<ul style="list-style-type: none">• Creamy white in color but turn dark reddish-brown before hatching• Ovoid and wrinkled• Laid under bark near wounds
Larva/Nymph	18-25 mm	<ul style="list-style-type: none">• Dirty white in color• Occasionally pink or green in color, depending on food supply• Have small black spots at the base of the dorsal setae
Adult	Wingspan: 25-38 mm	<ul style="list-style-type: none">• Gray in color• Forewings are gray with mottled and zig-zag lines of red and gray• Hindwings are light tan with dark gray edges• Rarely seen due to coloration and being nocturnal
Pupa (if applicable)	~19 mm	<ul style="list-style-type: none">• Pupation occurs at the end of a tunnel beneath the bark• Pupal skin turns from light to dark brown

Type of feeder (Chewing, sucking, etc.): Larvae have chewing mouthparts and adults have siphoning mouthparts.

Host plant/s: Pine, particularly Scotch and Austrian pines.

Description of Damage (larvae and adults): The larval stage is the only stage that causes damage. The young larvae do not feed but rather spin silken chambers or dig a shallow pit in the bark to over winter in. After winter, the larvae will bore into the tree and feed for several months. In young trees, feeding is done near the top of the tree and damage will appear as wilting, curling, and/or browning of new growth and leaders. In older trees, feeding occurs further down the trunk. During summer months, entrance holes will become gummy and covered with white crumbs of frass. Mature larvae will create emergence sites by chewing away most of the bark, leaving only a thin outer layer.

References:

Cranshaw, W. (2004). *Garden insects of North America: The ultimate guide to backyard bugs*. Princeton, NJ: Princeton University Press.

Lehman, R. D. (n.d.). Zimmerman Pine Moth - *Dioryctria zimmermani* (Department of Entomology). Retrieved April 14, 2017, from <http://ento.psu.edu/extension/christmas-trees/information/pest-fact-sheets/zimmerman-pine-moth>

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