





# Technical Bulletin for: Western Pine Shoot Borer

*Eucosma sonomana* (Kearfott) • Lepidoptera, Tortricidae • EUCSON



<b>DISTRIBUTION</b>	N. California, Oregon, Washington, Idaho, British Columbia
<b>HOSTS</b>	Ponderosa, Lodgepole and Jeffrey Pine.
<b>DESCRIPTION</b>	
<b>Adult Moth</b>	With a wingspan of 14-16 mm, the forewings are colored coppery red with transverse gray bands. Hindwings are gray-brown.
<b>Larvae</b>	Can grow to 13 mm in length. Initially pale gray to tan, with yellow-brown heads with black dots in the center.
<b>Eggs</b>	Flattened and pale yellow, slightly circular to slightly elliptical in shape, and are typically 0.3 mm in diameter.
<b>LIFE HISTORY</b>	There is only one generation per year. Adults are nocturnal and emerge from late March to early May, concealing themselves between needles during the day. Males die shortly after mating, and females deposit eggs individually on main pine leader. The eggs hatch in 2 to 3 weeks. The larvae penetrate main bud and boring directly into the pith. The larvae feed in the pith for 45 to 55 days, constructing tunnels that extend 7 to 29 cm in diameter. Larvae rarely kills the leader misleading grower that tree is healthy.

## MONITORING INFORMATION

<b>LURE ACTIVE INGREDIENTS, SUBSTRATE &amp; FIELD LIFE</b>	E9-12Ac and Z9-12Ac in a Red Rubber Septum. Lure longevity: 30 days.	
<b>TRAP TO USE</b>	Plastic or paper delta trap.	
<b>MONITORING STRATEGY</b>	Hang traps in or nearby potential host trees starting in Spring, replacing lure as necessary through mating season. Check with Cooperative Extension or Master Gardener for local information and recommendations.	
<b>CULTURAL &amp; PHYSICAL CONTROL</b>	Check for damage on the shoots of host trees, including defoliated and/or dying shoots, and/or evidence of tunneling. Remove and dispose of infested regions as necessary.	

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