



# Technical Bulletin for: Emperor Moth

*Saturnia albofasciata* (Johnson) • Lepidoptera: Saturniidae • SATURN



<b>DISTRIBUTION</b>	North and Central America, including a range from Northern California and Mexico.
<b>HOSTS</b>	Mountain Mahogany
<b>DESCRIPTION</b>	
<b>ADULT MOTH</b>	Males and females differ. Females are larger than males. Upperside of female is gray-brown with distinctly darker areas at the wing bases, yellowish margins, and a well-developed eyespot on each wing. Upperside of male is orange to light brown with a weak eyespot on each wing and a partial black submarginal band on the hindwing. Both sexes have a white band on the forewing running from the eyespot to the trailing edge of the wing, although this band may be weak in the male. Wingspan is 50-64 mm
<b>LARVAE</b>	Green throughout, with white lateral bands and tufts of orange hairs.
<b>EGGS</b>	
<b>LIFE HISTORY</b>	Adults emerge in early morning and fly during the day. Females lay eggs singly or in small bunches on the host plants. Eggs hatch in 11-30 days and the young caterpillars feed singly or in small groups on the underside of host leaves. Loosely-woven mesh-like cocoons are spun on the host plant. There is only one brood per year that normally flies in March-April, but that depends on the weather. Both males and females are diurnal, and mating is very quick, sometimes lasting only a few minutes.

## MONITORING INFORMATION

<b>LURE ACTIVE INGREDIENTS, SUBSTRATE &amp; FIELD LIFE</b>	E4,Z9-14Ald in a Red Rubber Septum. Lure Longevity: 30 days.
<b>TRAP TO USE</b>	Red Paper or Plastic Delta Trap 
<b>MONITORING STRATEGY</b>	Contact your local forester for more information on forest management practices.
<b>CULTURAL &amp; PHYSICAL CONTROLS</b>	None reported.

**Alpha Scents, Inc.**  
insect monitoring systems

Alpha Scents, Inc., 1089 Willamette Falls Drive, West Linn, OR 97068  
TEL: 503-342-8611 • FAX: 314-271-7297 • sales@alphascents.com • www.alphascents.com



# Technical Bulletin for: Emperor Moth

*Saturnia mendocino* (Behrens) • Lepidoptera: Saturniidae • SATURN



<b>DISTRIBUTION</b>	North America, including western and southwestern Oregon and California
<b>HOSTS</b>	Manzanita and Madrone
<b>DESCRIPTION</b>	
<b>ADULT MOTH</b>	Forewing length 27-30 mm, with a wingspan of 54-60 mm. Orange-brown in color with large dark spots and sub marginal bands on the hindwing, which is also a lighter orange. Head is white, abdomen is gray and brown.
<b>LARVAE</b>	Yellow during last instar, covered with orange hair tufts and longer white hair.
<b>EGGS</b>	
<b>LIFE HISTORY</b>	Adults fly in the daytime with a fast and erratic flight. Newly-emerged females fly only after they have mated. Females lay eggs singly or in bunches of 2-6 on the leaves of the host plants. Eggs hatch 1 to 7 weeks later. Loose mesh-like cocoons are attached to stems or branches of the host plants.

## MONITORING INFORMATION

<b>LURE ACTIVE INGREDIENTS, SUBSTRATE &amp; FIELD LIFE</b>	E4,Z9-14Ald in a Red Rubber Septum. Lure Longevity: 30 days.	
<b>TRAP TO USE</b>	Red Paper or Plastic Delta Trap	
<b>MONITORING STRATEGY</b>	Contact your local forester for more information on forest management practices.	
<b>CULTURAL &amp; PHYSICAL CONTROLS</b>	None reported.	

**Alpha Scents, Inc.**  
insect monitoring systems

Alpha Scents, Inc., 1089 Willamette Falls Drive, West Linn, OR 97068  
TEL: 503-342-8611 • FAX: 314-271-7297 • sales@alphascents.com • www.alphascents.com



# Technical Bulletin for: Emperor Moth

*Saturnia walterorum* (Hogue & Johnson) • Lepidoptera: Saturniidae • SATURN



<b>DISTRIBUTION</b>	North and Central America, including Southern California and Mexico.
<b>HOSTS</b>	Manzanita, Laurel-leaf sumac, and Lemonade Berry, among others
<b>DESCRIPTION</b>	
<b>ADULT MOTH</b>	Upperside is brownish orange to yellow-orange with an eyespot on each wing. Spot at the tip of the forewing is well-developed in both sexes. Black submarginal line on the hindwing is solid throughout its length. Female has distinct darker areas at the wing bases and a black submarginal line on the forewing. Wingspan is 64-94 mm.
<b>LARVAE</b>	Pale yellowish-green in color, with orange tufts of hair and longer black hairs.
<b>EGGS</b>	
<b>LIFE HISTORY</b>	Adults emerge in early morning and fly during the day. Females lay eggs singly or in small bunches on the host plants. Eggs hatch in 11-30 days and the young caterpillars feed singly or in small groups on the underside of host leaves. Loosely-woven mesh-like cocoons are spun on the host plant. There is only one brood per year that normally flies in March-April, but that depends on the weather. Both males and females are diurnal, and mating is very quick, sometimes lasting only a few minutes.

## MONITORING INFORMATION

<b>LURE ACTIVE INGREDIENTS, SUBSTRATE &amp; FIELD LIFE</b>	E4,Z9-14Ald in a Red Rubber Septum. Lure Longevity: 30 days.
<b>TRAP TO USE</b>	Red Paper or Plastic Delta Trap 
<b>MONITORING STRATEGY</b>	Contact your local forester for more information on forest management practices.
<b>CULTURAL &amp; PHYSICAL CONTROLS</b>	None reported.

**Alpha Scents, Inc.**  
insect monitoring systems

Alpha Scents, Inc., 1089 Willamette Falls Drive, West Linn, OR 97068  
TEL: 503-342-8611 • FAX: 314-271-7297 • sales@alphascents.com • www.alphascents.com