





Technical Bulletin for: Raspberry Crown Borer

Pennisetia marginata (Harris) • Lepidoptera, Sesiidae • PENMAR



DISTRIBUTION	Throughout North America.
HOSTS	Raspberry, blackberry, loganberry and other native cane fruits.
DESCRIPTION	
ADULT MOTH	Clear wings, moth resembling a yellow jacket in color and size, with a wingspan of about 25 mm.
LARVAE	White with brown heads, 1st instar larvae are about 6-7 mm long. At maturity, larvae are 25-38 mm long.
EGGS	Reddish-brown, usually found in late summer on the underside edges of leaflets.
LIFE HISTORY	Studies have shown that the life cycle takes one year in its southern range and two years in the North. Moths emerge from July through September and lay their eggs individually on the undersides of the leaves. The eggs hatch in one to two months and the larvae crawl down the cane to tunnel under the soil line. They form a blister-like overwintering site on the side to the cane. The following spring, they begin tunneling into the cane. The second winter is passed as a larva while in the roots. They pupate within the canes during the second summer.

MONITORING INFORMATION

LURE ACTIVE INGREDIENTS, SUBSTRATE & FIELD LIFE	(E,Z)-3,13-Octadecadien-1-ol in a White Rubber Septum. Field life: four (4) weeks.	
TRAP TO USE	White Plastic Delta Trap	
MONITORING STRATEGY	In smaller fields, use one trap every 1 to 1 ½ acre. A minimum of two traps should also be used for fields of uneven topography. For larger fields (10 acres or greater) use 1-2 traps per five acres. Traps should be placed at approximately the same height as the crop. Traps should be checked weekly or more frequently, depending on pest population. DO NOT use White Delta Traps in areas where bees are present. Check with Cooperative Extension or Master Gardener for local information and recommendations.	
CULTURAL & PHYSICAL CONTROLS	Remove wild brambles in the vicinity of the planting. During pruning and cane removal activities, look for 6 mm tunnels in the base of canes, this is sure sign of cane borer activity. Within the planting, infested canes and crowns should be identified, removed, and destroyed.	

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