





Technical Bulletin for: **Pandemis Leafroller**

Pandemis limitata (Robinson) • Lepidoptera: Tortricinae • PANLIM



DISTRIBUTION	Southern Canada and in the United States, primary range is the East Coast to the Rocky Mountains. Also found in Arizona.
HOSTS	Fruit trees, berry crops, native and ornamental trees and shrubs including hawthorn, poplar, willow, rose, locust, English walnut and box elder.
DESCRIPTION	
ADULT	Brown with gray and white hind wing. Males are 7 to 9mm long while females are 9-12mm in length.
LARVAE	Mature larvae are green and about 22mm in length.
EGGS	Green masses of up to 150 eggs.
LIFE HISTORY	Larvae overwinter in bark crevices or under bark scales. Larvae feed on flower parts, leaves and young fruit. Moths of the summer generation emerge from early June to late July. Females lay egg masses on leaves and other objects, and young larvae first feed on terminal growth and may later tie a leaf to a fruit and feed beneath the leaf or between two fruits. Moths of the second generation are active from late August to October and lay eggs on leaves.

MONITORING INFORMATION

LURE ACTIVE INGREDIENTS, SUBSTRATE & FIELD LIFE	Z11-14Ac and Z9-14Ac on red rubber septum. Field life: four (4) weeks. 
TRAP TO USE	Paper or 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. Check with Cooperative Extension or Master Gardener for local information and recommendations.
CULTURAL & PHYSICAL CONTROLS	Pruning will remove many egg masses. Prune older, low-density trees to open up the canopy and improve spray penetration and coverage, especially into the upper canopy. Thinning fruit to singles where practical will help reduce the risk of fruit damage.

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