







Technical Bulletin for: Pecan Nutcasebearer

Acrobasis nuxvorella (Neunzig) • Lepidoptera: Pyralidae • ACRNUXMx



DISTRIBUTION	Sonora, Chihuahua, and Durango in Northern Mexico to Texas, Georgia, and Oklahoma in the United States
HOSTS	Pecan
DESCRIPTION	
ADULT MOTH	Gray to dark gray, have a dark ridge of scales on the forewings, and are about 1/3 inch in length.
LARVAE	White to yellow in color and feed initially on buds. Full grown larvae are olive gray to jade green and reach about 1/2 inch in length.
EGGS	Eggs are white, small and oval shaped (0.36 X 0.65 mm). The eggs gradually turn to into a red color 3-5 days prior to hatching.
LIFE HISTORY	Mating and egg deposition occurs during the night, and female casebearers can deposit 50 to 150 eggs during their five to eight day life span. After pollination, the first generation of eggs are laid individually at or near the calyx lobes of nuts. Larvae feed initially on buds. As the larvae grow and move to developing nuts, they will bore into the base of one or more nuts. Black excrement (frass) and silk at the base of nuts indicates larval entry. They remain within the nut and feed for four to five weeks. Full-grown larvae will pupate inside the pecan and emerge 9 to 14 days later.

MONITORING INFORMATION

LURE ACTIVE INGREDIENTS, SUBSTRATE & FIELD LIFE	(E,Z)-9,11-Hexadecadienal and (E,Z)-9,11-Hexadecadienyl acetate on red rubber septum. Field life: four (4) weeks. 
TRAP TO USE	Paper or Plastic Delta   or Wing Trap 
MONITORING STRATEGY	As a general guide, three to five pheromone traps are sufficient in determining emergence patterns of moths. Three traps in orchards of 30 to 50 acres and five traps for orchards in excess of 50 acres should suffice. Separate traps at any given location by at least several trees. Place traps near the terminal of a nut-bearing limb at a convenient height. Place traps in the orchard three to four weeks before the expected spray date. This insures that the first moth captured represents the beginning of activity by adults. Check with Cooperative Extension or Master Gardener for local information and recommendations.
CULTURAL & PHYSICAL CONTROL	None reported.

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