



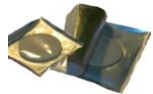

Technical Bulletin for: Pecan Weevil

Curculio caryae (Horn) • Coleoptera, *Curculionidae* • CURCAR



DISTRIBUTION	China, Republic of Georgia, Canada, Mexico, Florida, Georgia, New Mexico, South Carolina and Texas
HOSTS	Hickories, Pecans, walnuts
DESCRIPTION	
ADULT	Reach 9.5 mm in length. Hard-shelled, reddish-brown to gray in color.
LARVAE	Legless, creamy-white with reddish-brown head capsules, growing up to 15 mm in length
EGGS	Oval, flattened and 0.7-0.8 mm, initially white in color then yellowing with maturity
LIFE HISTORY	Adult weevils may emerge from the soil from late July into October, often after rain has softened the ground. As they emerge, the weevils begin to feed on the pecan nuts and mate. Egg laying begins when the weevils find nuts in the gel stage. The female drills a hole in the nut with her snout and then places one to four eggs within the developing kernel. Larvae hatch and feed on the kernel, maturing in about 30 days. Mature larvae chew a hole in the nut shell, fall to the ground, and burrow into the soil. They remain in the soil as larvae for one year. Some of the larvae pupate from early September to the middle of October the following year and change into adults about three weeks later. The remaining larvae spend another year in the soil. Those changing to adults remain in the soil until August or September of the following year before emerging. The larvae that spend two years in the soil pupate and remain in the soil as adults for a third year. One generation takes two or three years.

MONITORING INFORMATION

LURE ACTIVE INGREDIENTS, SUBSTRATE & FIELD LIFE	Grandlure II, Grandlure III & IV and Grandisol in a Coaster Lure Packet. Lure longevity: 30 days.	
TRAP TO USE	Red Paper or Plastic Delta Trap	
MONITORING STRATEGY	Check with Cooperative Extension or Master Gardener for local information and recommendations.	
CULTURAL & PHYSICAL CONTROL	Check for boreholes in mature nut cases, indicating potential presence of larvae. Remove infested nuts and dispose of them as necessary.	

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