


## Plum Curculio

*Conotrachelus nenuphar*



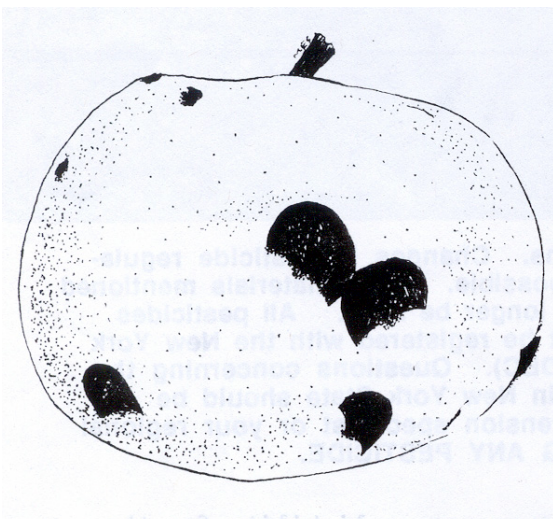
Adult Plum Curculio

Actual size = 

**Injury.** The plum curculio (PC) is a serious pest of plums, prunes, cherries and apple in New York. It also attacks apricot, nectarine, pear and quince as well as wild plum, hawthorn and native crabapples. This insect is most abundant in orchards adjoining hedgerows and woodlands that offer shelter or overwintering adults. Both feeding and egg laying scars result in russeted areas on the surface of the fruits. The crescent-shaped scar from oviposition is useful in diagnosing damage from this pest. Severely injured fruits become misshapen. Infested fruits often drop early and with smaller fruits, such as cherry, the entire fruit may be ingested by the larva.

**Description.** The adult PC is a small 1/5 inch (6mm) snout beetle mottled with black, gray and brown. The beak or snout is 1/4 the body length and sharp biting jaws are located at the tip of the snout. The larva is a grayish-white, legless, slightly curved grub, about 1/3 inch (8mm) long. Larvae are found inside fruits.

**Life history.** The adults pass the winter hidden under leaves, along fence rows, in brush piles, rock walls and in other protected places. In spring when the weather warms up (mean temperature 60° F. or maximum temperature above 75° F.), about the same time apples are blooming, the adults become active.



Damaged apple  
Small feeding scars  
Large oviposition scars

Emerging from overwintering quarters they feed on buds, blossoms and newly set fruit. The beetles attack the fruits as soon as they appear, usually at the shuck split in stone fruit. Some feeding injury occurs consisting of small round openings in the skin extending about 1/8 inch into the pulp. The oviposition damage occurs as the female cuts through the skin and deposits a tiny white egg in the opening that she pushes to the bottom of the cavity with her snout. In front of the egg cavity she cuts a crescent-shaped slit that extends obliquely under the egg to leave it in a flap of flesh. Each female is capable of depositing from 100 to 500 eggs. The larvae develop in the fruits where they feed for several weeks before reaching maturity. Infested fruits may drop from the tree early. Mature larvae leave the fruit and crawl into the soil to a depth of several inches where they construct earthen pupal cells. During July and August, the new brood of adults begins to emerge. They feed on developing fruits until low fall temperatures force them into hibernation. There is one generation of this insect in New York State each year.

