Leaf Symptoms - Defoliation

Parts missing

Skeletonization (all veins remain)

Complete defoliation (all leaf tissue consumed)

Leaf Symptoms - Leaf notching

Irregular pattern

Circular pattern

Skeletonization
Defoliation by European Pine Sawfly, Neodiprion sertifer

Adult European Pine Sawfly

First Instar European Pine Sawflies
Pupal cases of European Pine Sawfly

How to Distinguish Between a Caterpillar and a Sawfly?

How to Distinguish Between a Caterpillar and a Sawfly? II
White Pine Sawflies

Red-headed Pine

Pentatomid Plant Bug Predator Feeding on Pine Sawfly
Dogwood Sawfly Injury and Larval Size

Skeletonization (all veins remain)

Complete defoliation (all leaf tissue consumed)

Complete Defoliation By Late Stage Dogwood Sawfly

Poplar Leaf Beetle
Adult and Pupa of Elm Leaf Beetle

Linden Skeletonized by Japanese Beetle

Japanese Beetle; *Popillia japonica*
Transportation of Japanese Beetles in Cargo Planes

Black vine weevil; Otiorhyncus sulcatus

Weevil Life Cycle