

Know your pests

II. Twig, shoot, and root feeders

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Overview

Conifer root aphid

White grub complex

Pales / white pine weevils

Evidence of conifer root aphid infestation



Conifer root aphid = Woolly ash aphid
Prociphilus americanus



Overwinters on *Abies* roots
Multiplies in spring
Most, but not all, migrate to ash
Winged forms return to *Abies*



Relationship with ants



Yellow ant (*Acanthomyops* spp.)
golden color and citronella odor
when crushed



Scarab adults



Important species in New England

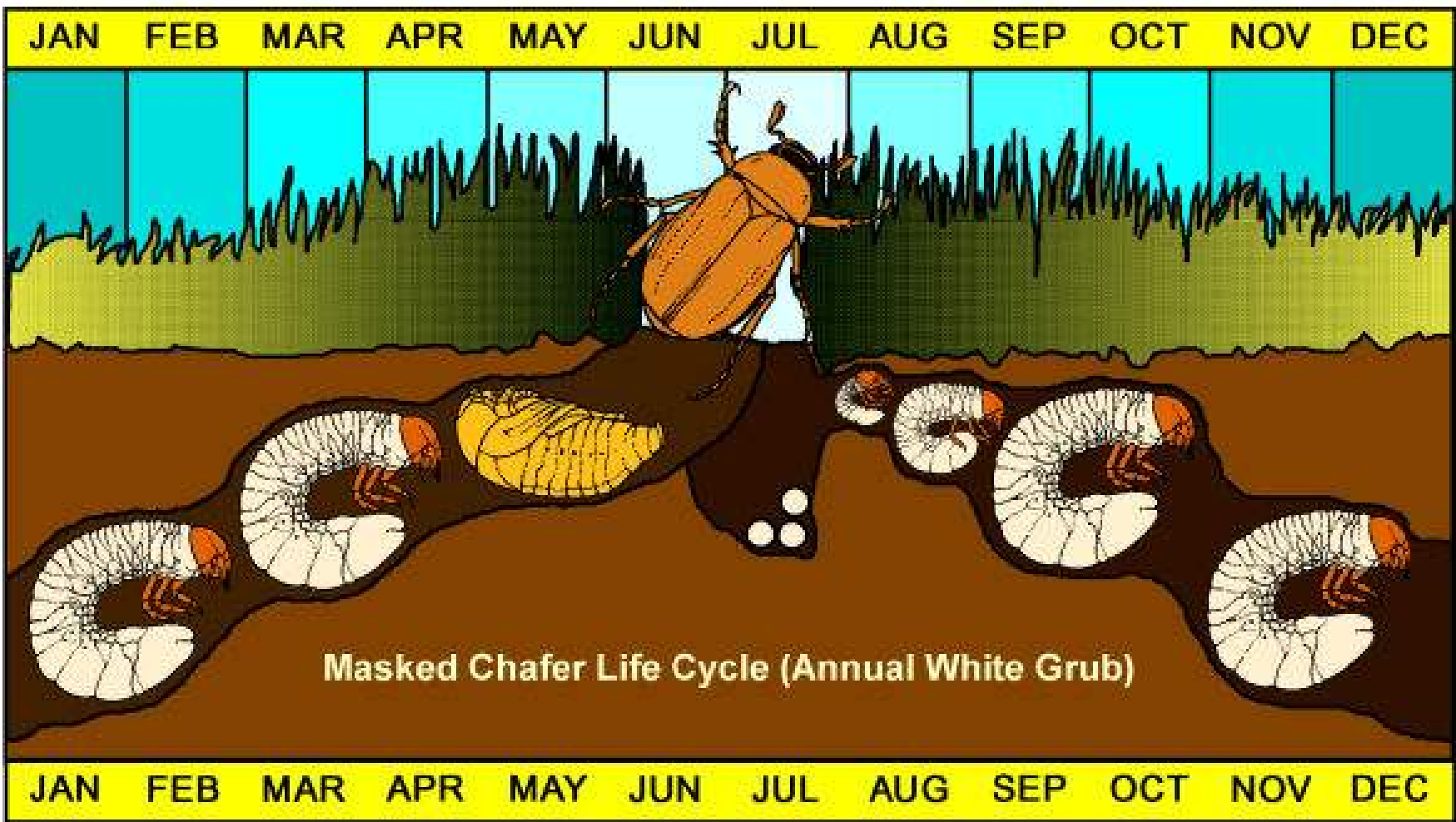


Asiatic garden beetle

European chafer

Japanese beetle

Oriental beetle



**White grubs
not only thin
the root system
but also will
directly kill
trees by
girdling them.**

Untreated

Protected





Untreated

Imidacloprid

Application of imidacloprid in the nursery can prevent extensive loss of plants and their roots from white grub feeding.

Photo taken August, 2000, 1 year post-treatment

Root aphid and white grub management

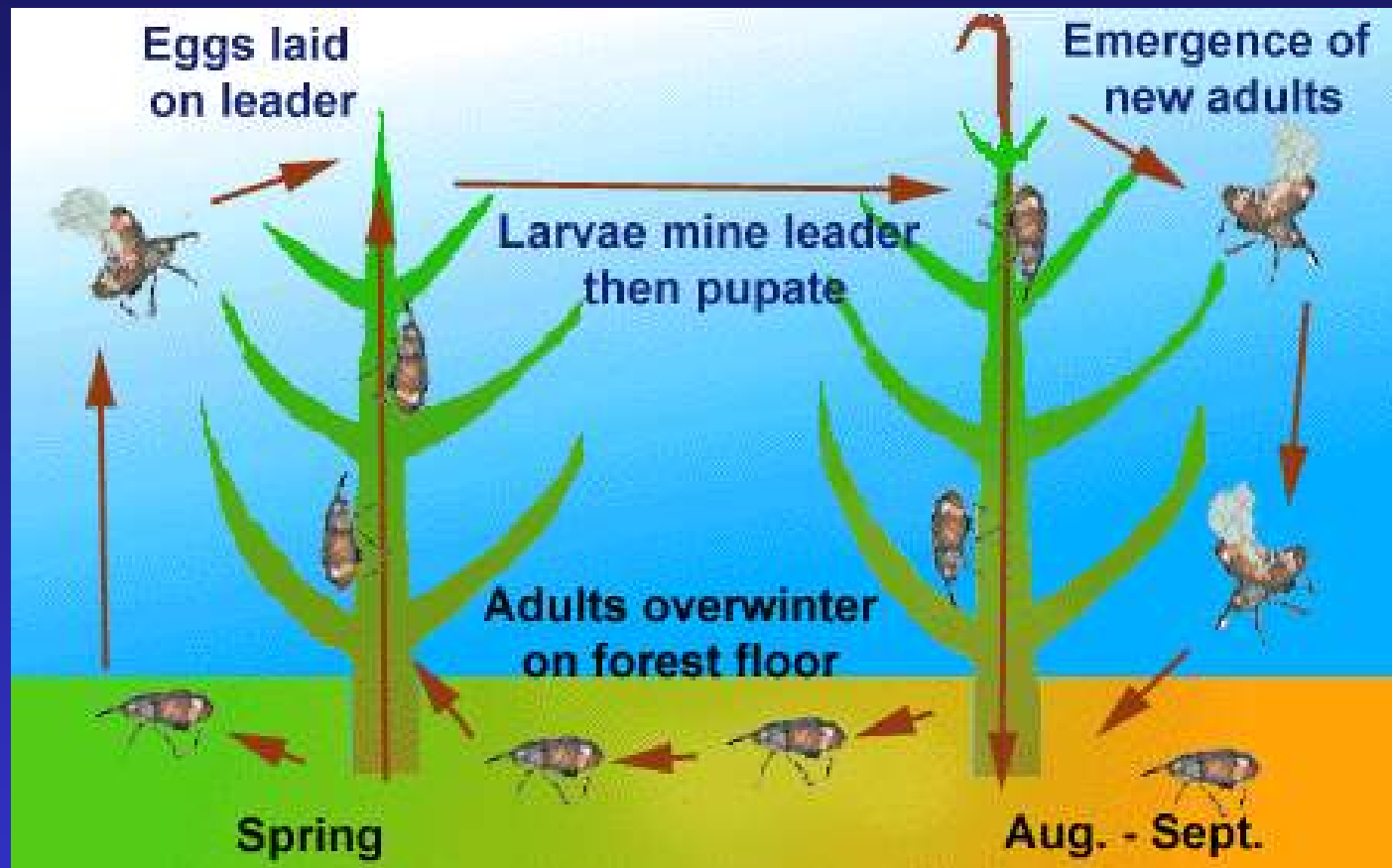
Use Talstar F, 1 fl oz per gallon, in a root dip at the time of planting

For established trees, apply Admire Pro in a banded application in the spring immediately before or during a rain event

Pales and white pine weevils



White pine weevil life cycle



Natural Resources
Canada

Ressources naturelles
Canada





Photos: Whitney Cranshaw



**Photo: Dave Powell
USDA Forest Service**

Forsythia as an indicator plant:

Look for first sign of yellow on buds





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PYRAMID TRUNK TRAP (Tedder's Trap)

New design helps increase effectiveness of catching first emergence of plum curculio and pecan weevils. This 4 foot high stand alone trap for the pecan weevil, works without bait to give you early warning of pest emergence. Works best when placed near target trees that have trunks painted white. When baited with ethyl alcohol and gum turpentine, these traps capture white pine weevil.

*NEW-Mini Pyramid trap stands 2 feet high. Used for monitoring citrus weevil.

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Infested tissue must be removed below the point where any feeding larvae remain, or else damage will continue.



Pales weevil







**Pales weevil adults
feed after emergence
(mid-August - Sept.)
and the next spring.**

1 year-old damage

**Seedlings interplanted
among stumps are
most susceptible.**

**Feeding can girdle and
kill leaders**

Fresh damage

Effective insecticides

Pyrethroids,

bifenthrin =	Talstar, Onyx Pro, Biflex
lambda-cyhalothrin =	Scimitar
cyfluthrin =	Tempo
esfenvalerate =	Asana

diflubenzuron = Dimilin (IGR, disrupts egg laying)

The pales and white pine weevil spray should be applied at the same timing.

One walk-through before forsythia bloom would be sufficient for control.