4-H Forestry Judging

Insects

3 types of tree pests

- Defoliators
- Sucking Pests
- Borers

The defoliators...

• Feed on leaves aka "foliation"



Gypsy moth

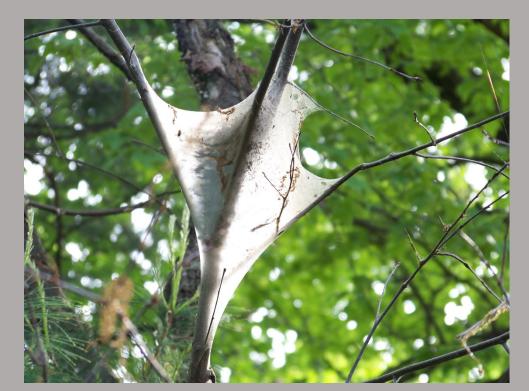
- Feeds on oak leaves
- White or brown moth
- Caterpillar is fuzzy with blue and red dots





Eastern tent caterpillar

- White line down the center
- Make webs in the crotch angles of trees





forest tent caterpillar

- Larvae has blue lines with white spots on back
- Moth has brown stripe across back





fall webworm

- Brown stripe on the back with spots down the side
- Fuzzy
- Moth is white with a fuzzy head
- Make webs on the ends of branches or limbs







white marked tussock moth

- Brown moth with white dot on each wing
- Caterpillar has 4 tussocks





European pine sawfly

• Lays eggs under pine





red headed sawfly

• Red head and shoulders



Japanese beetle

 Brown back with green head and shoulders



Locust leafminer

• Brown with black band down the center of back



Sucking Pests...

balsam wooly adelgid

- Red color
- Secrete wool around egg sacks
- On bark and trunk of balsam fir





hemlock wooly adelgid

 Lays white wooly eggs around base of hemlock needles





periodical cicada

- Large, translucent wings
- Cuts slits in tree limbs and lays eggs in it



pine needle scale

- Frosty white scales
- Insect is tiny and brown





The borers ...

Asian longhorn beetle

 Bores straight thru trees and lays eggs





red oak borer

- Brownish camo color
- Long antennas



bronze birch borer

- Metallic bronze color
- Bores thru birch trees





emerald ash borer

- Emerald green color
- Killing all ash trees
- Winding S galleries







two-lined ash borer

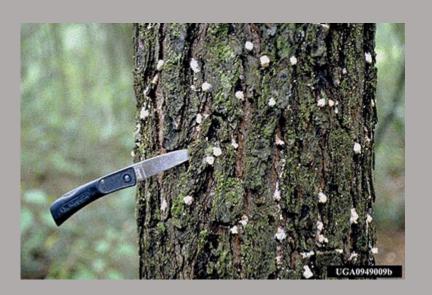
• Two lines on back



southern pine beetle

- Small black insect
- Bores thru southern pine trees
- White sap marks on bark
- Winding galleries







ips engraver beetle

• Y and H galleries





locust borer

• Black with yellow stripes



