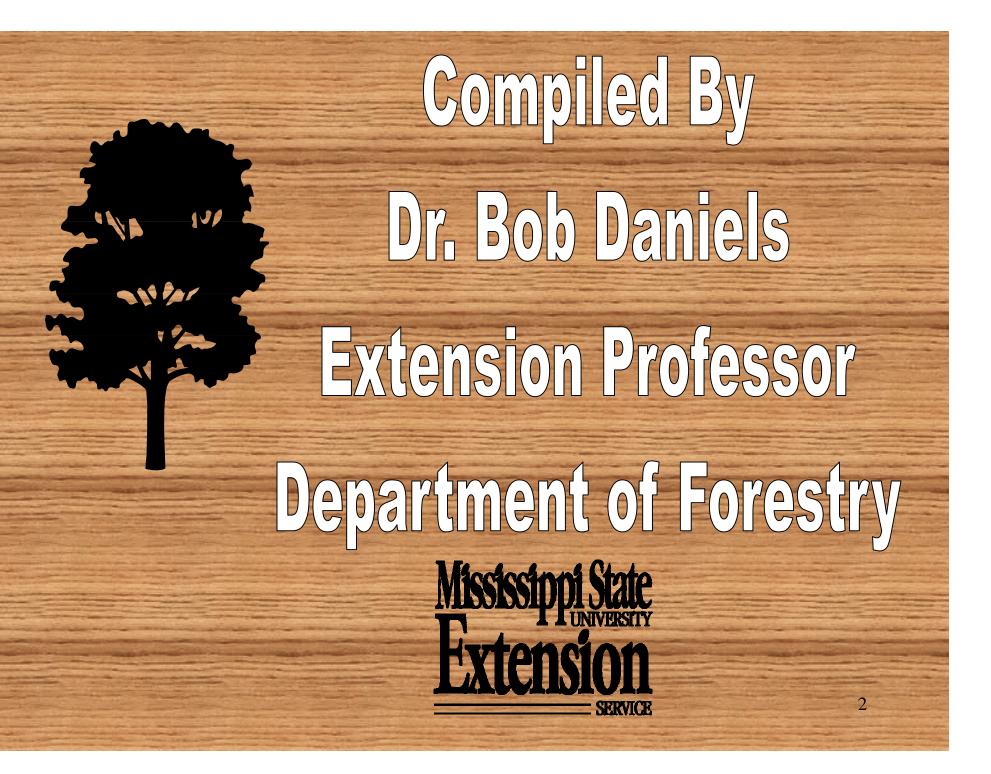
Mississippi 💸 Forestry 4-H **Insects and Disease** Identification PPB4-0001_00 Study Slide Set: Insects



Presentation Prepared by Kathy Nash MSU-ES Support Services AV Reference Room Manager/Information & Graphics Technician





3



Oak Leaf Caterpillar (VOLC)

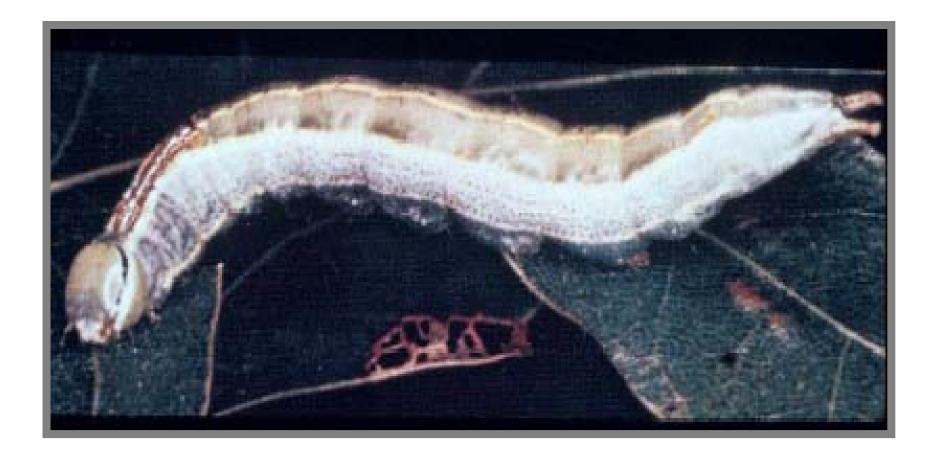
Variable



5

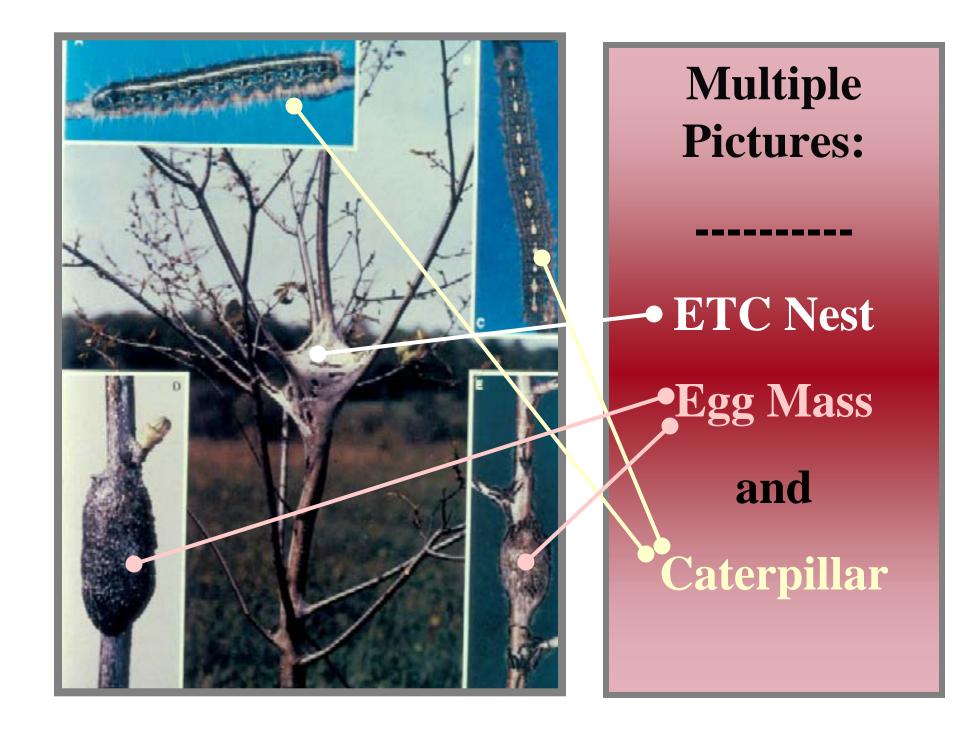


Variable Oak Leaf Caterpillar on Leaf



Close Up of Variable Oak Leaf Caterpillar (VOLC)





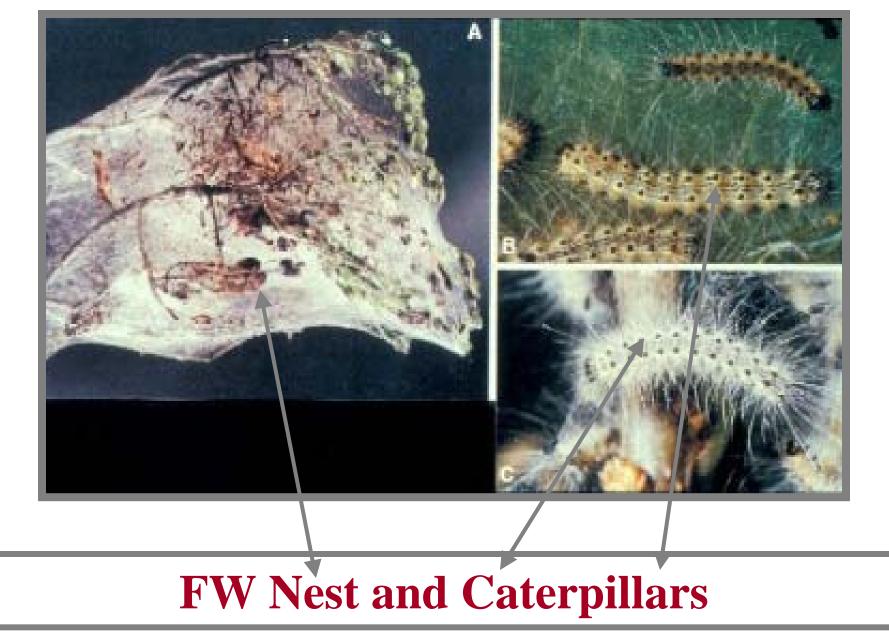


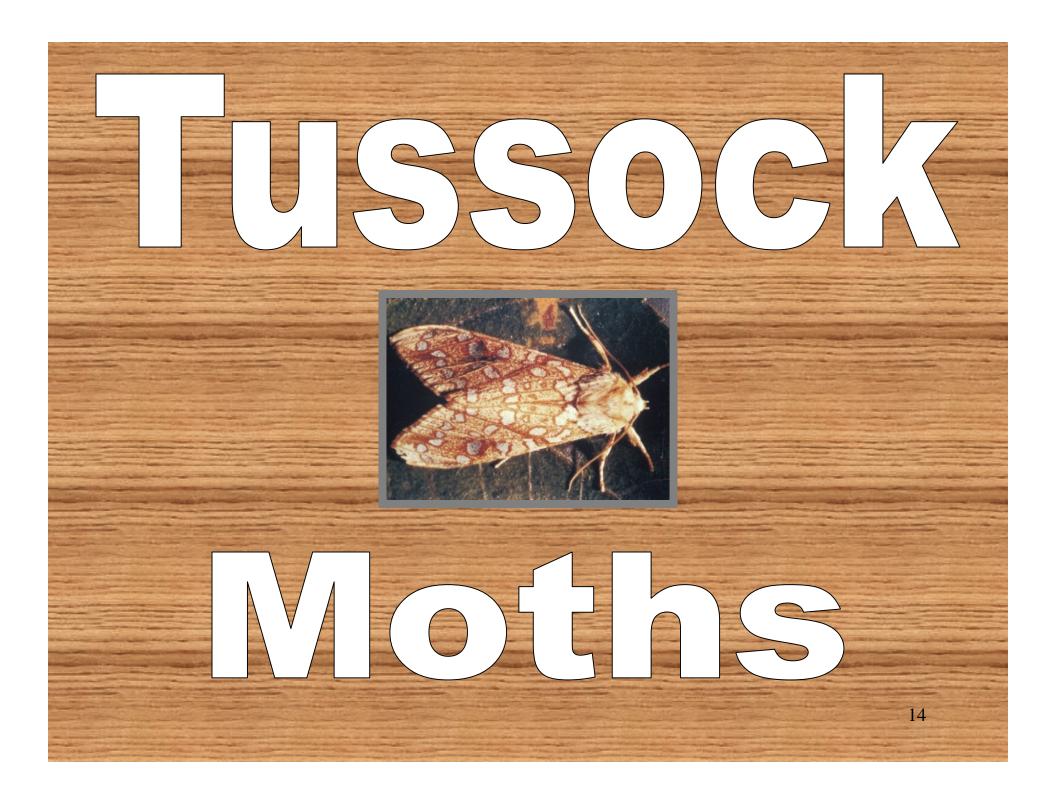


FW Caterpillar and Nest



FW Adult and Caterpillar



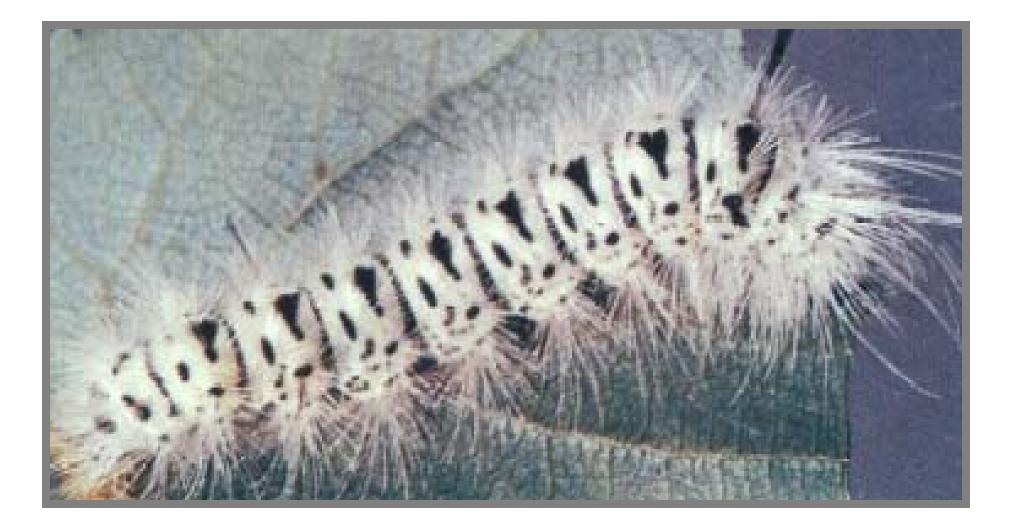




Hickory Tussock Moth Adult (HTM)₁₅



Hickory Tussock Moth Caterpillar 16



HTM Caterpillar



Sycamore Tussock Moth Caterpillar



Western Tussock Moth Caterpillar



Western Tussock Moth Adult

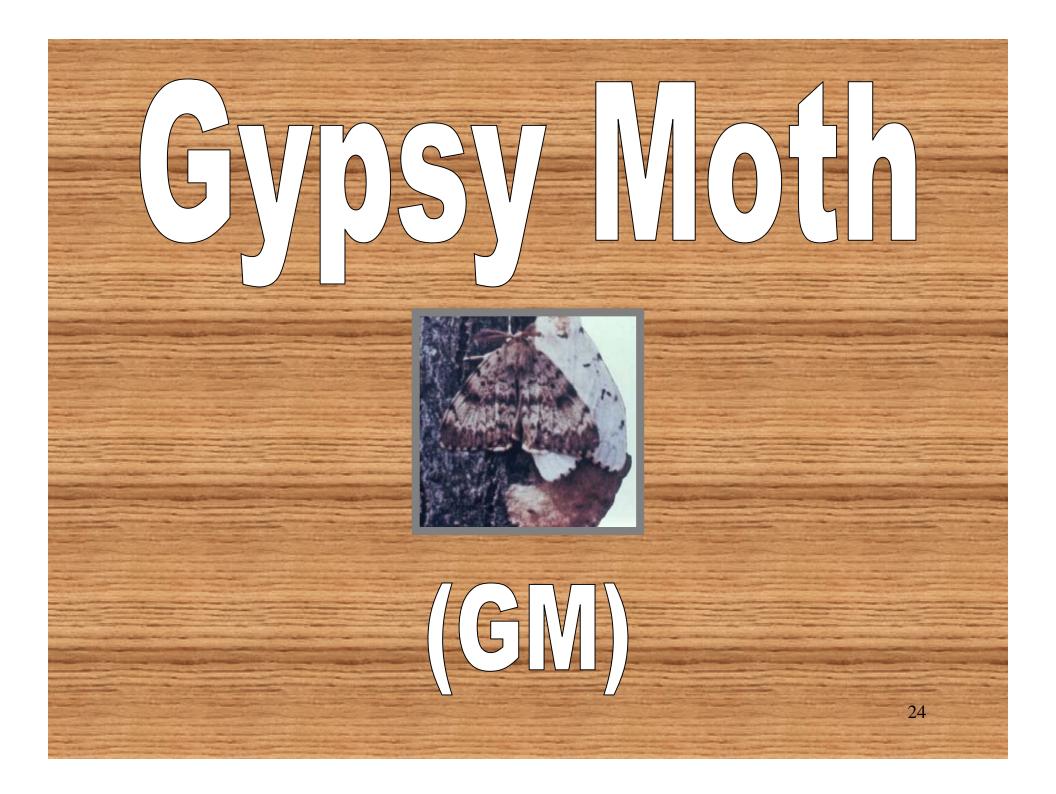




Spiney Elm Caterpillars (SEC)



SEC Adult (Mourning Cloak Butterfly)

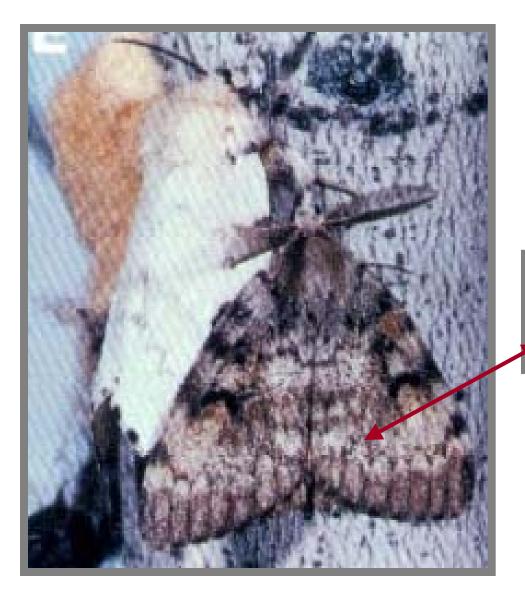




GM Caterpillar



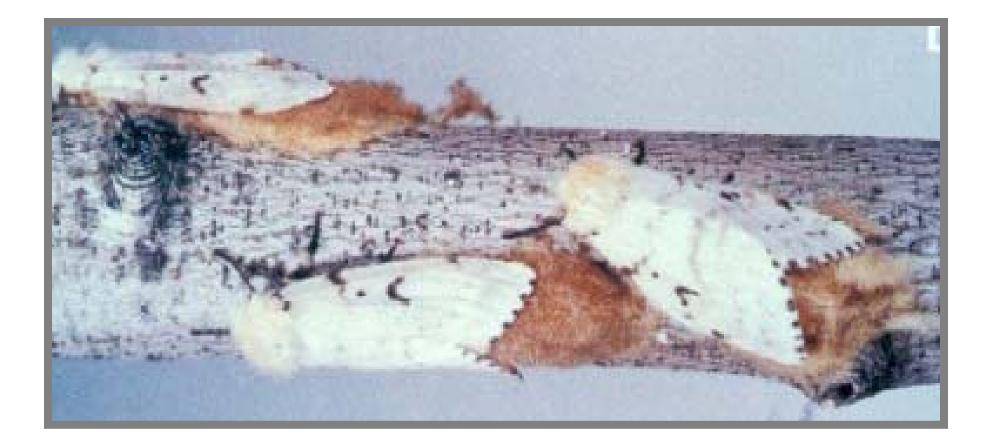
GM Caterpillar



GM Adults (Male is dark moth)



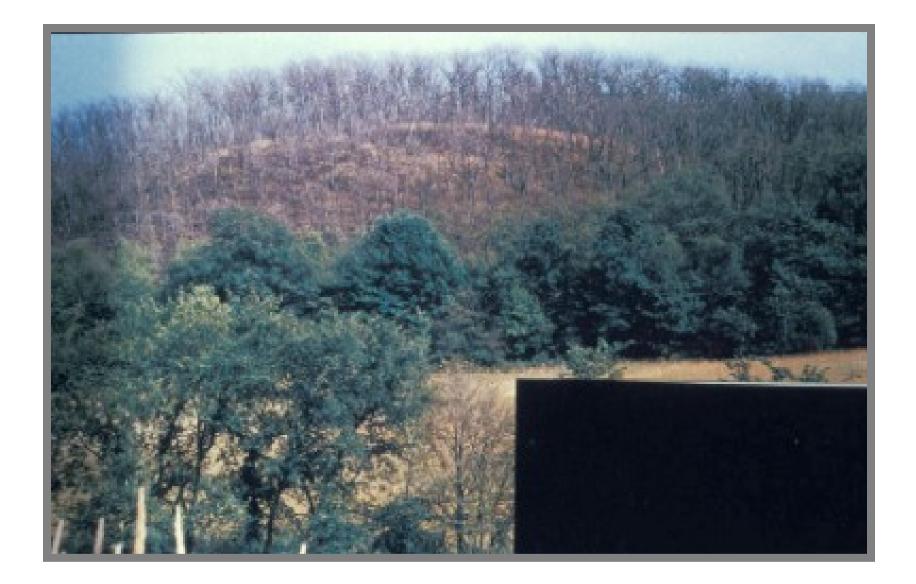




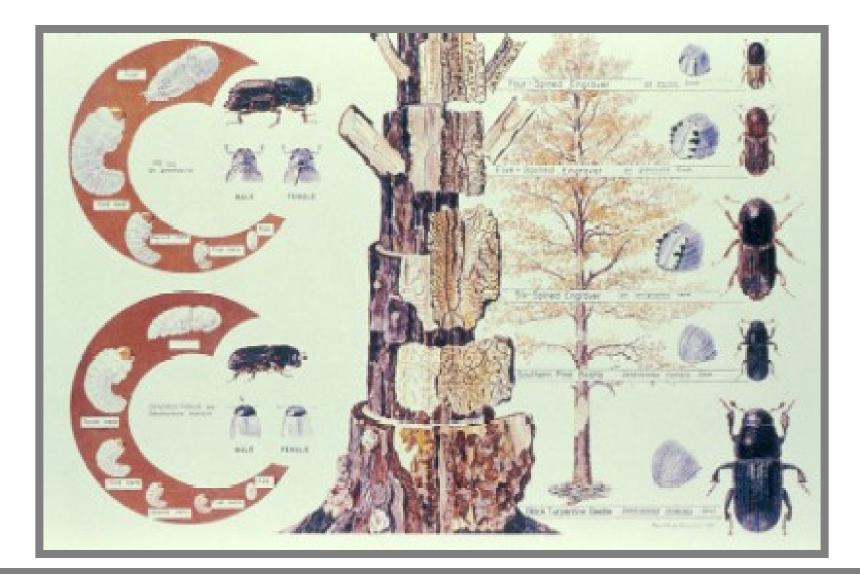
GM Adult Females Laying Eggs



GM Larvae On Partly Devoured Oak Leaves



Trees On Hilltop Defoliated By GM

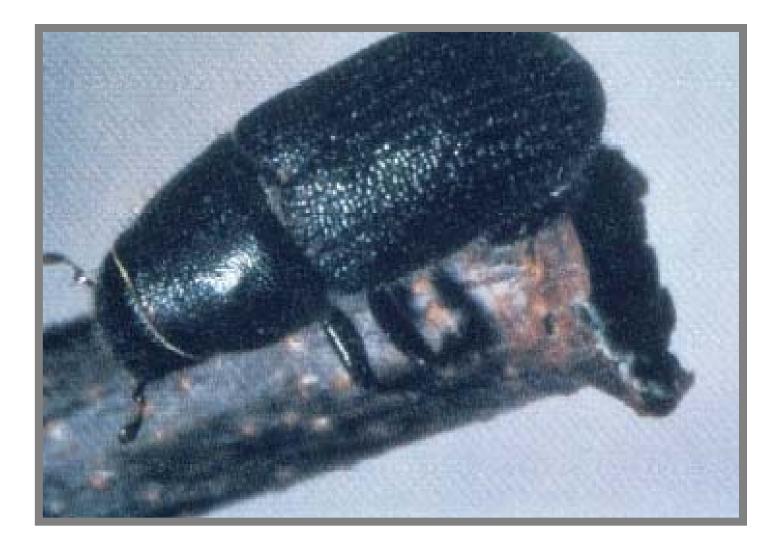


Life Cycle & Picture of Southern Pine Bark Beetle: IPS Species, Southern Pine Beetle & Black Turpentine Beetle³²

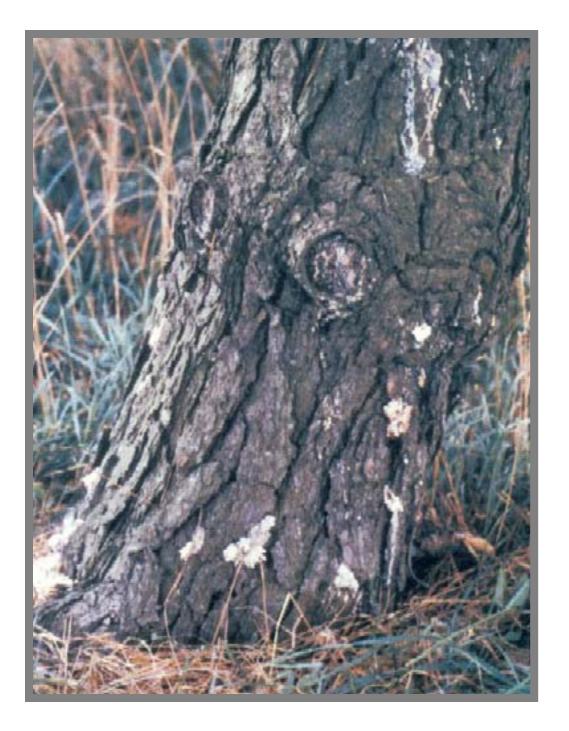




BTB Pitch Tube (entry into host tree)

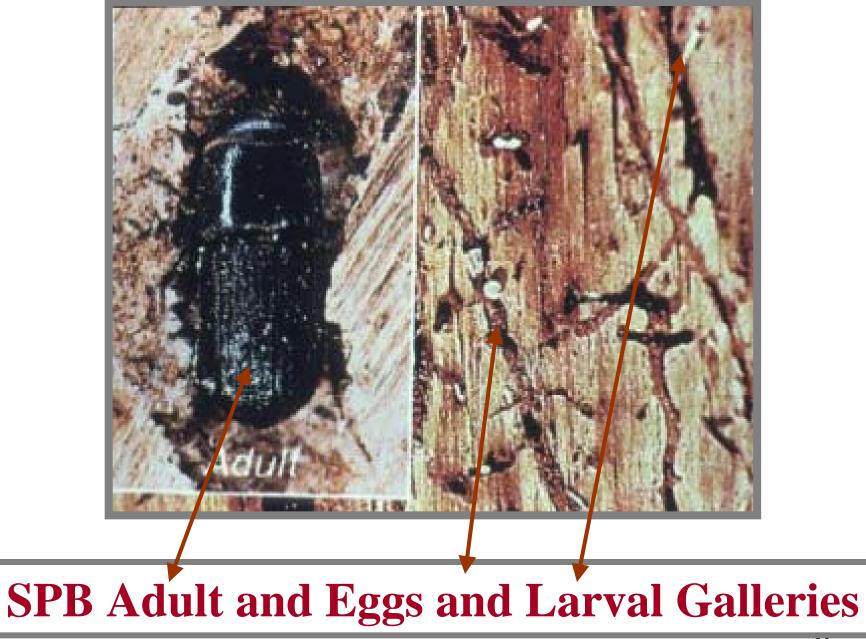


BTB Adult



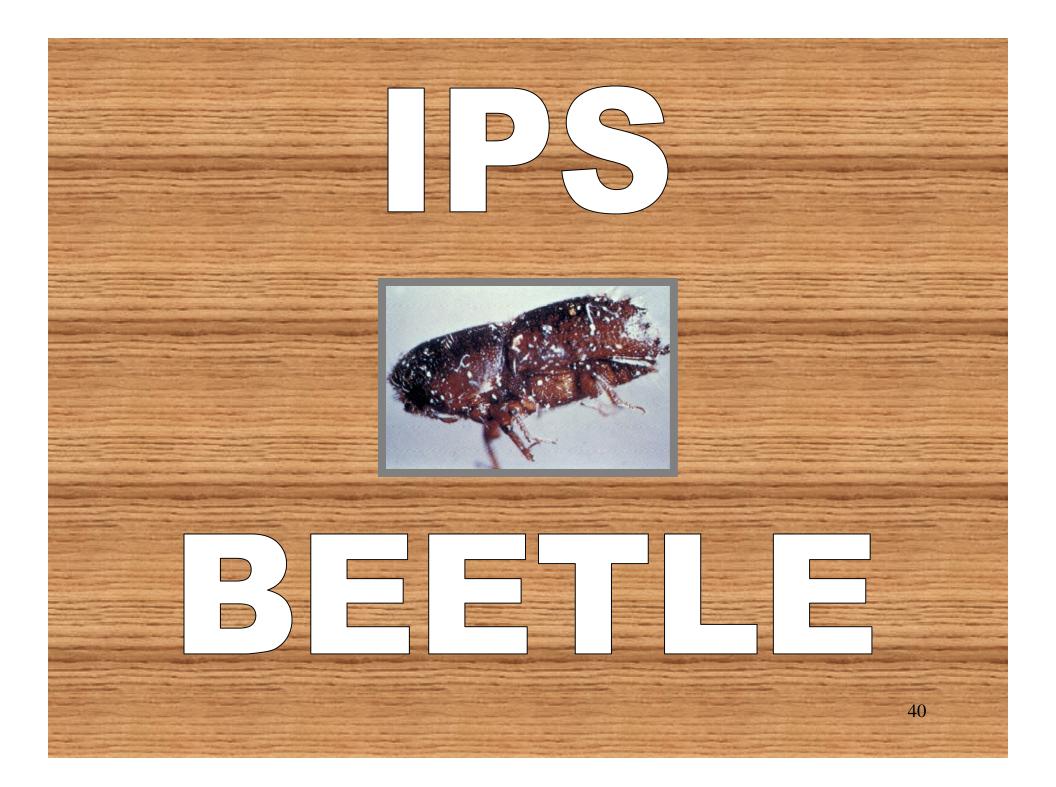
Tree with BTB Pitch Tube







SPB Pitch Tubes On Bark





IPS Adult



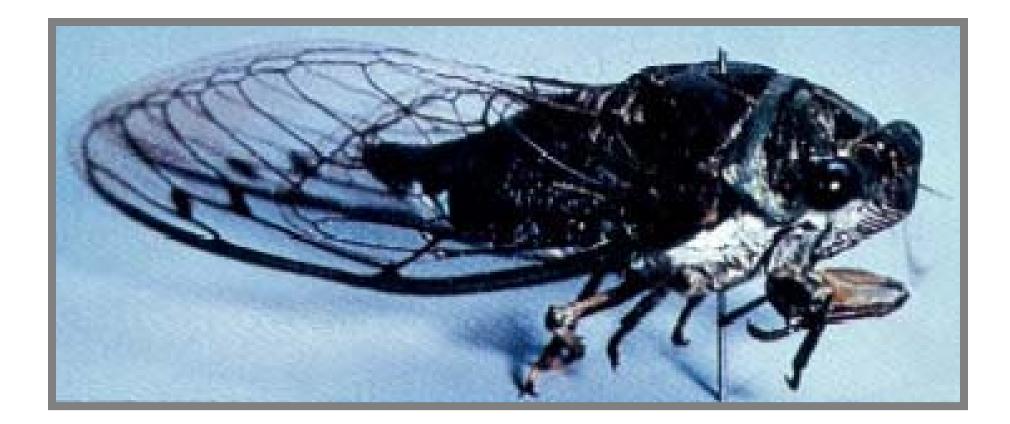
IPS Larval Galleries



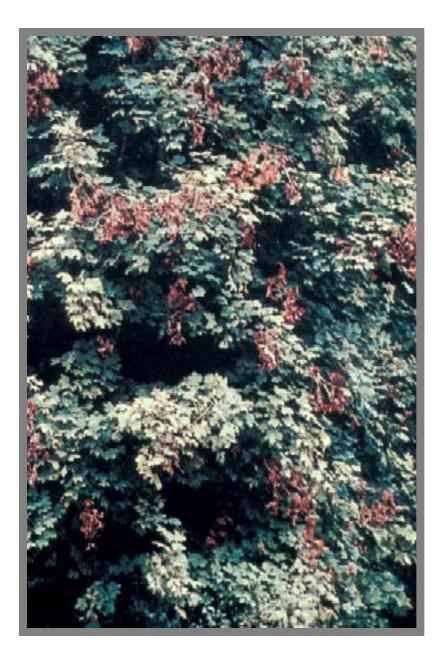


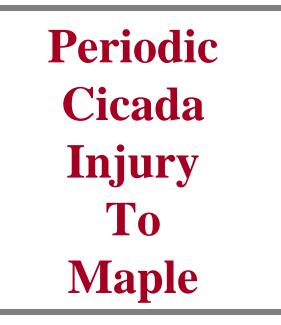
Texas Leaf Cutting Ant

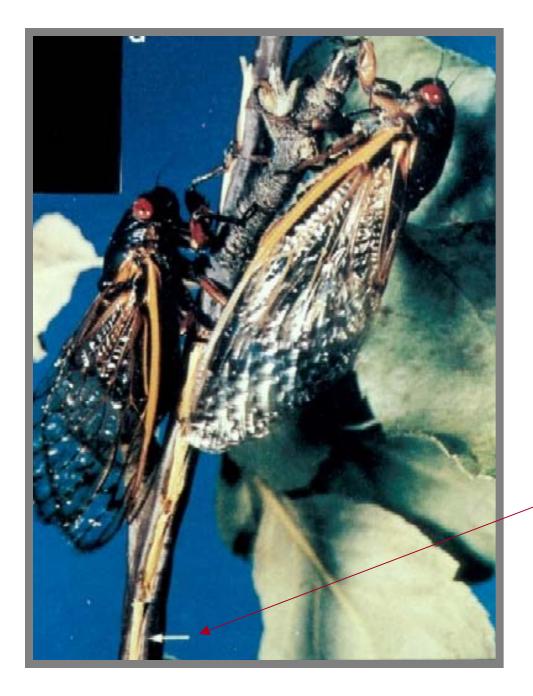




Periodic Cicada







Periodic Cicadas (note arrow where eggs have been laid)





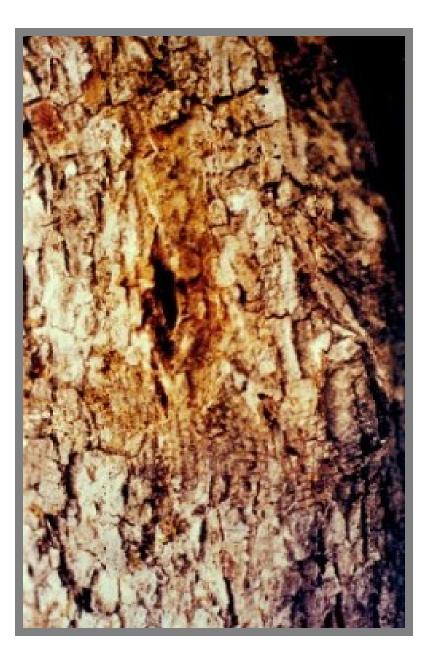
WOB Adult



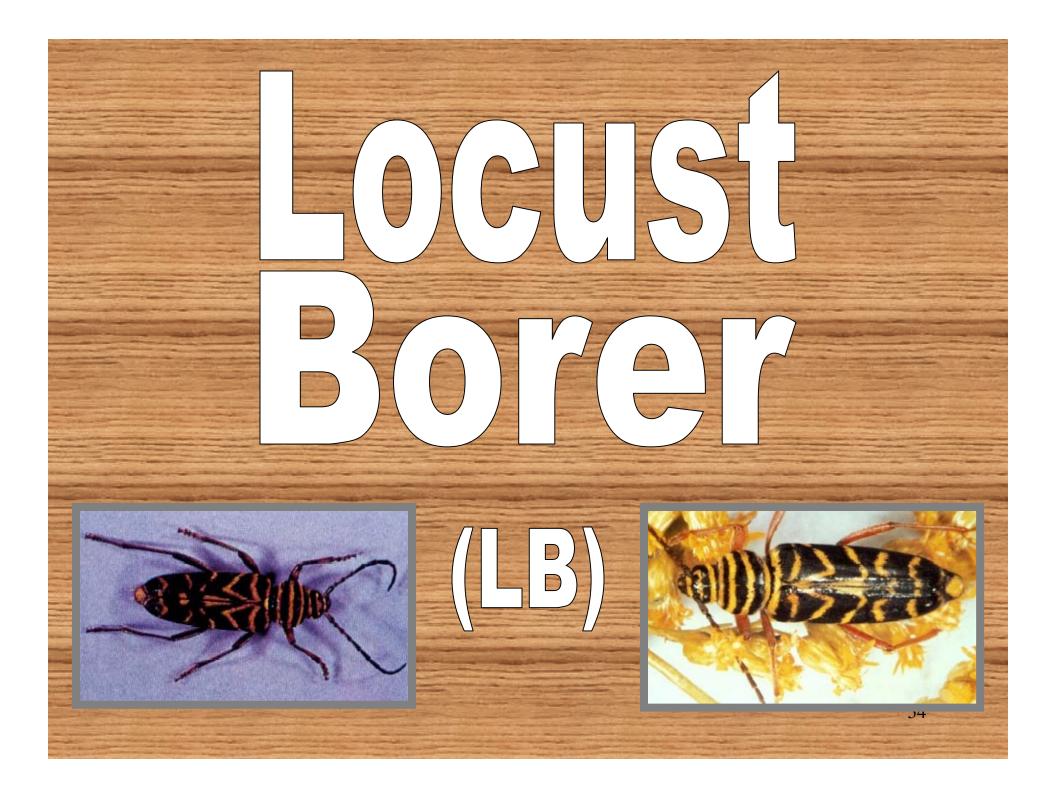
WOB Adult



Borer Injury









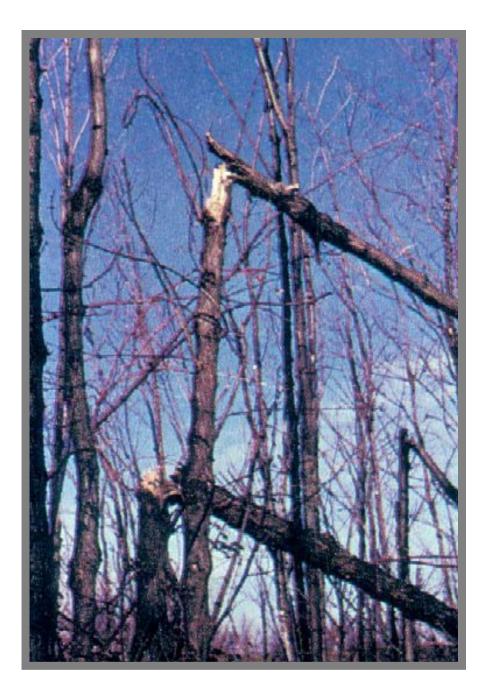
LB Adult



LB Adult







Trees
Damaged
By
Locust
Borer

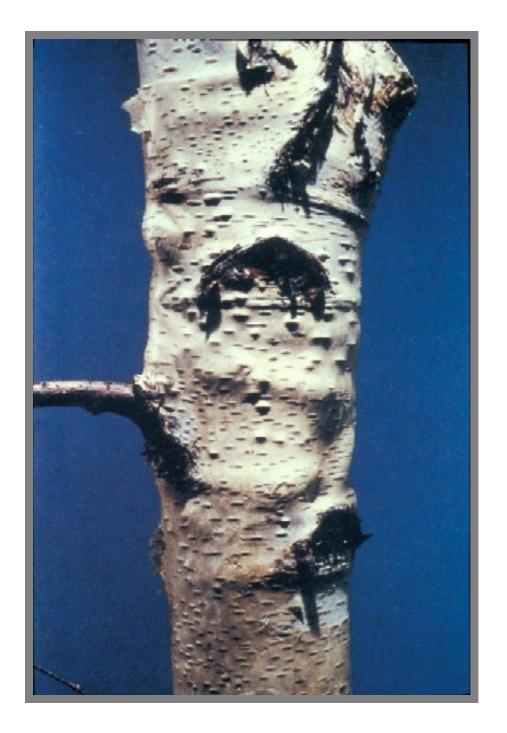




BBB Adult

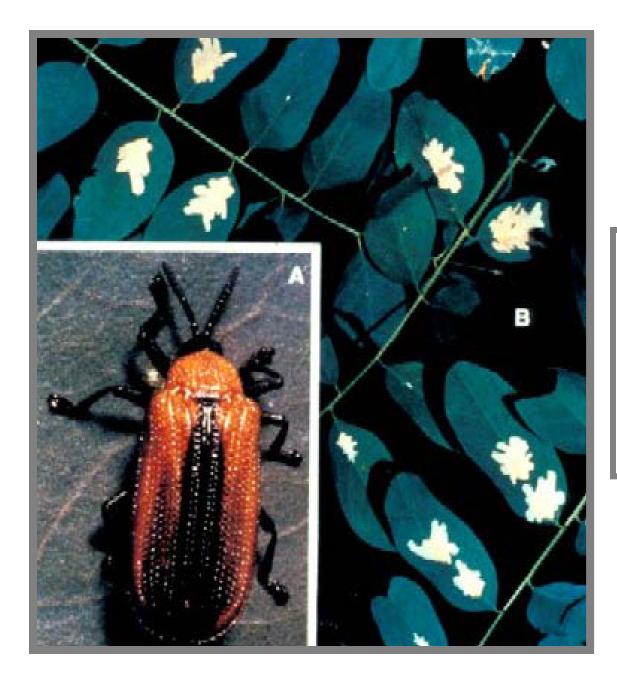


BBB Larvae



BBB Injury To Paper Birch





LLM Adult And Leaf Injury

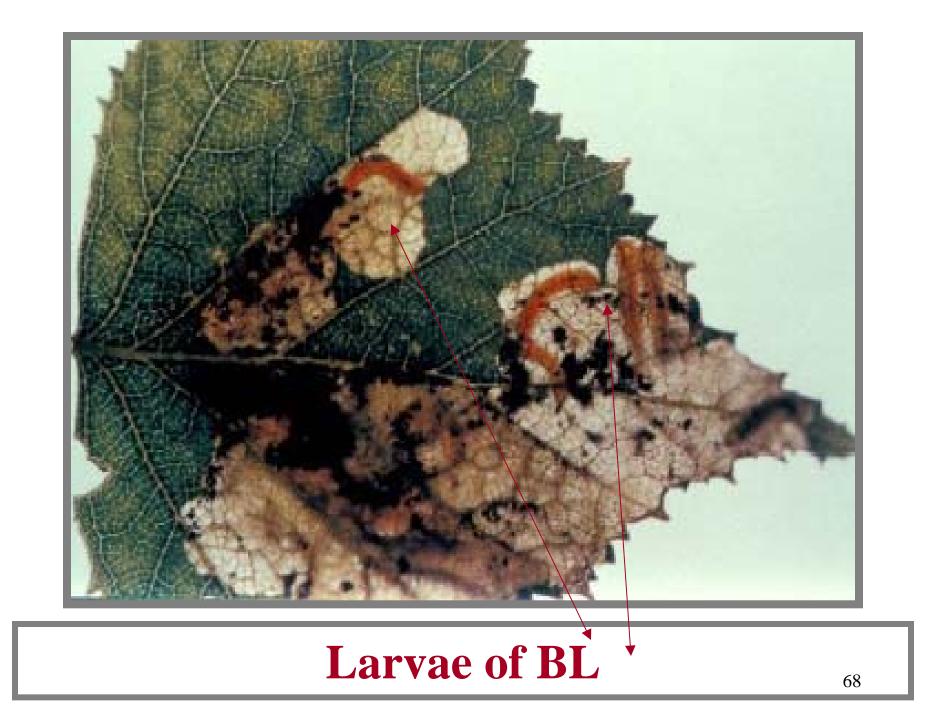


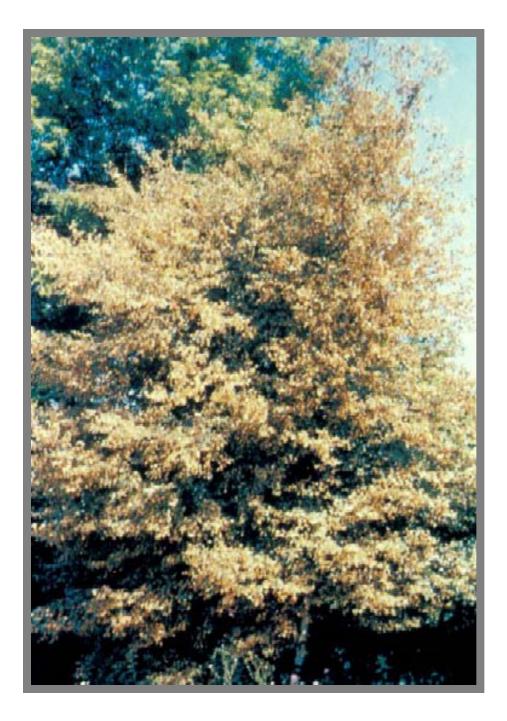
LLM Adult Defoliation And Injury





Adult BL





BL Damage

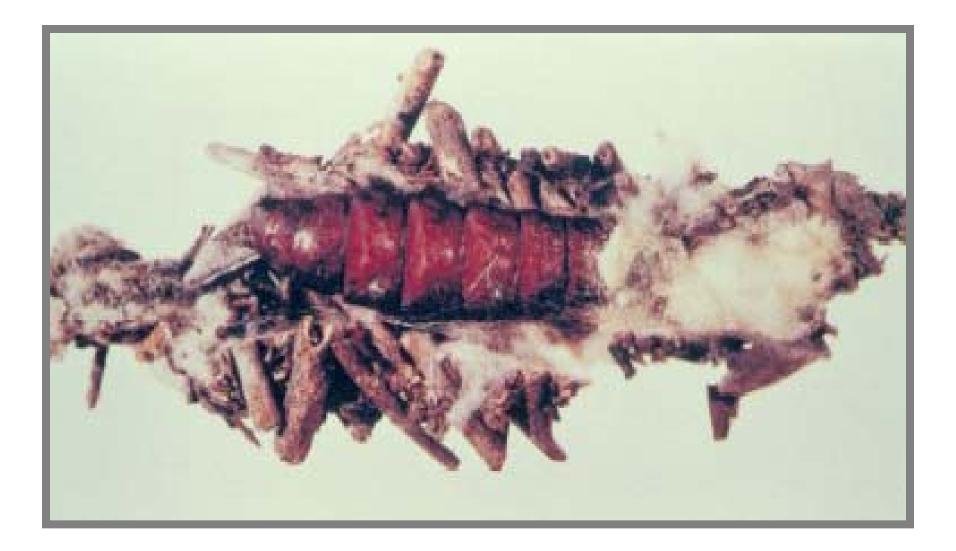




Bagworm Pupal Cases

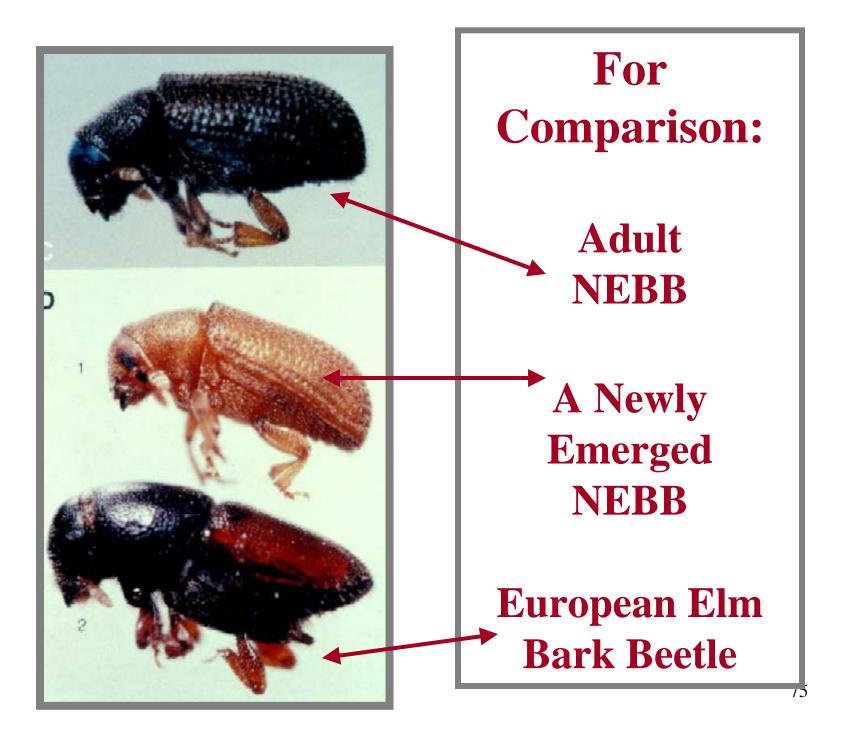


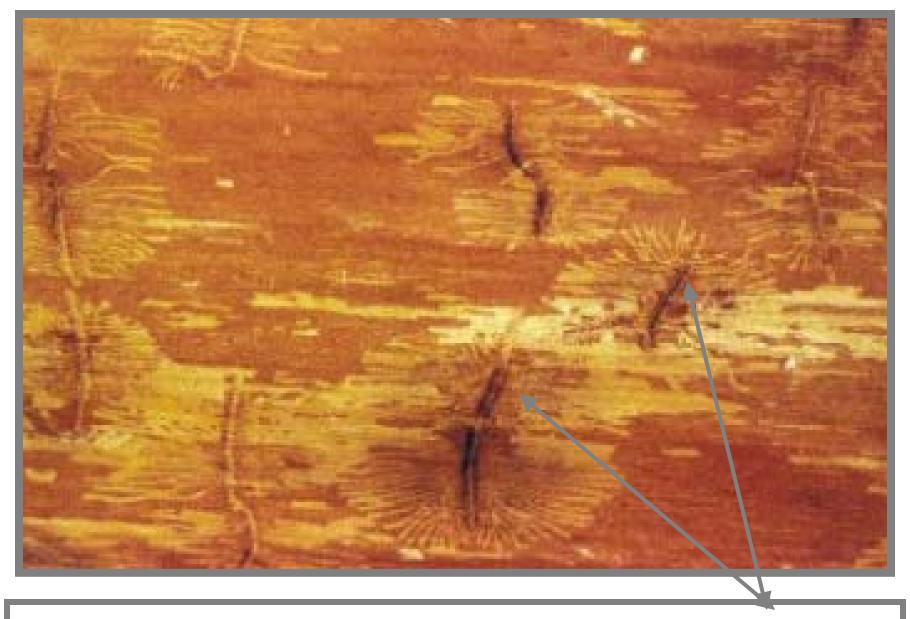
Bagworm Pupal Case



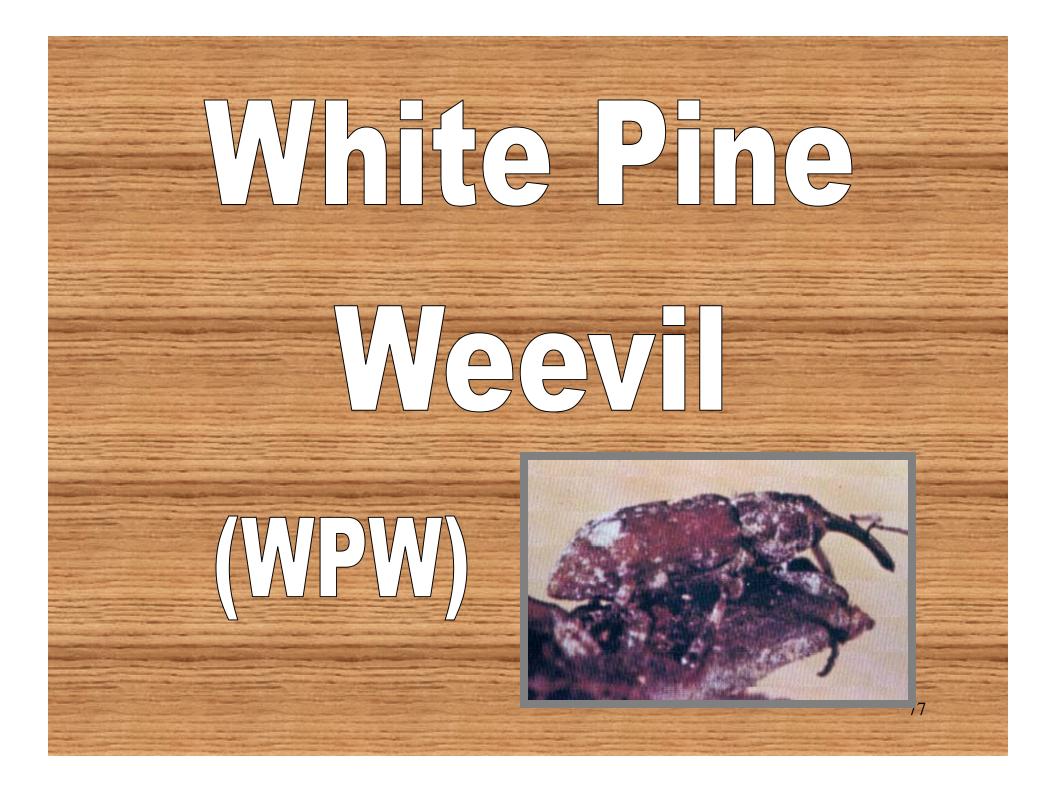
Bagworm Pupal Case Opened To Show Pupa

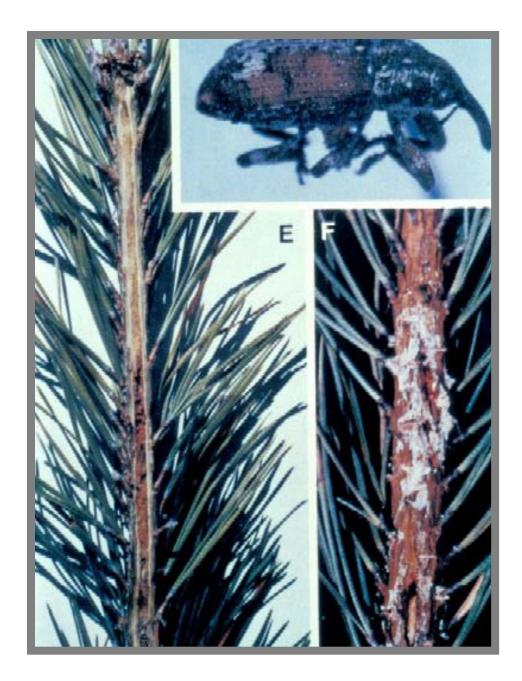


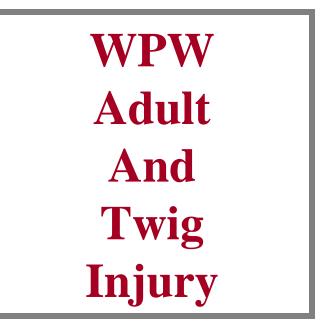




Brood Galleries of NEBB





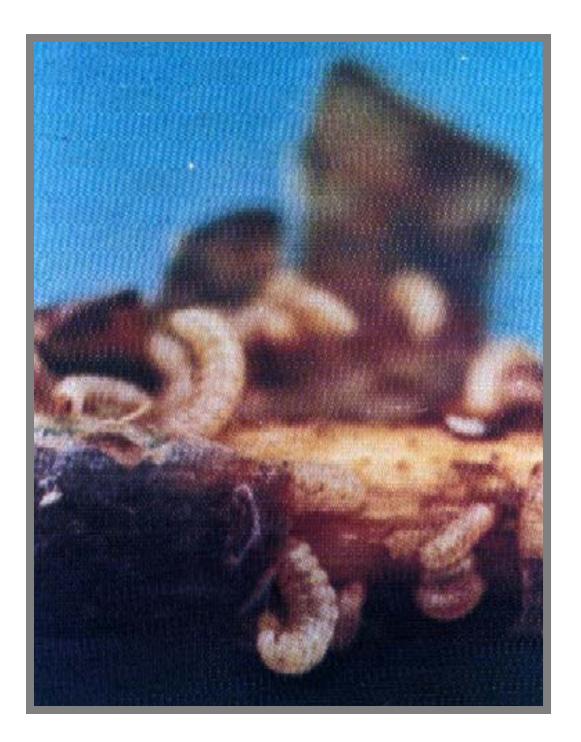




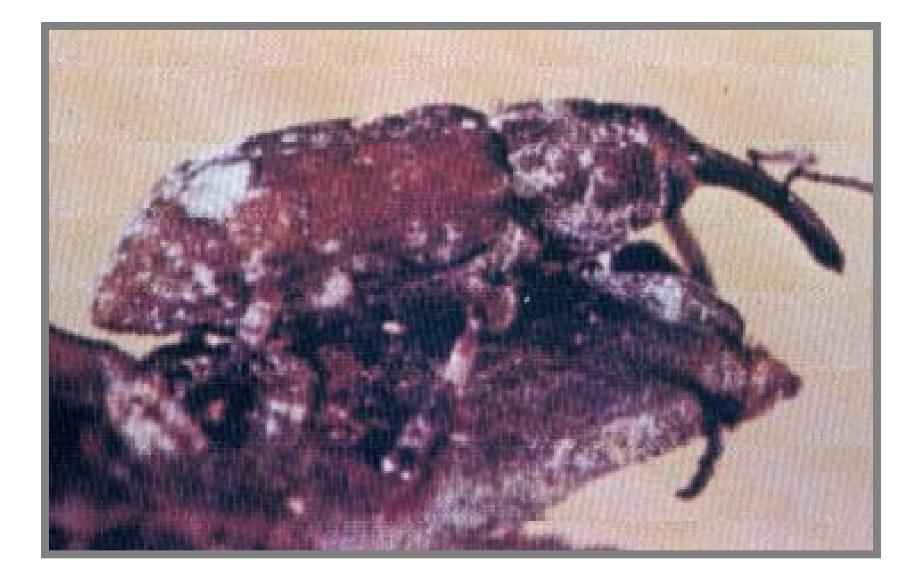




WPW Damage



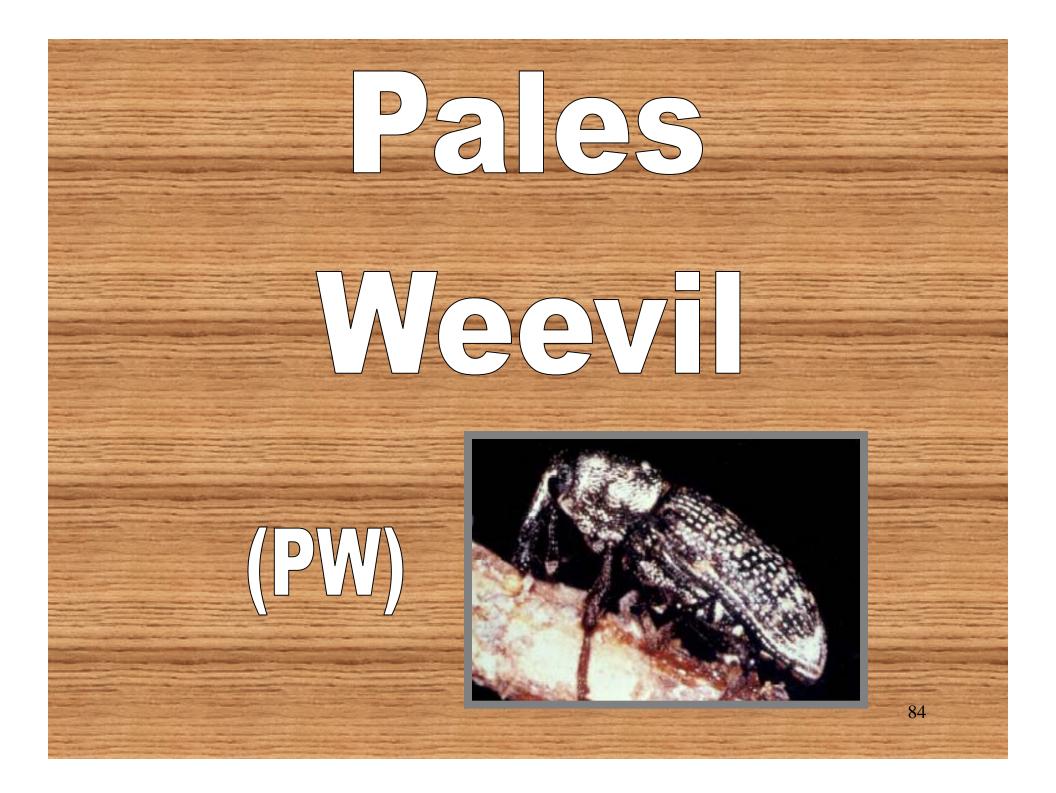
WPW Larvae



WPW Adult (note long snout)



WPW Damage To Young White Pine

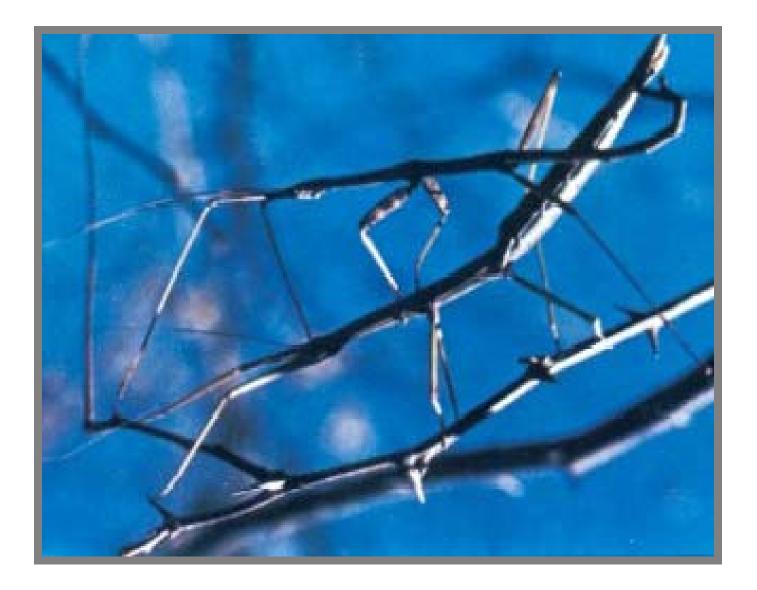


PW Adult

PW Adult With Injury

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WS Adults

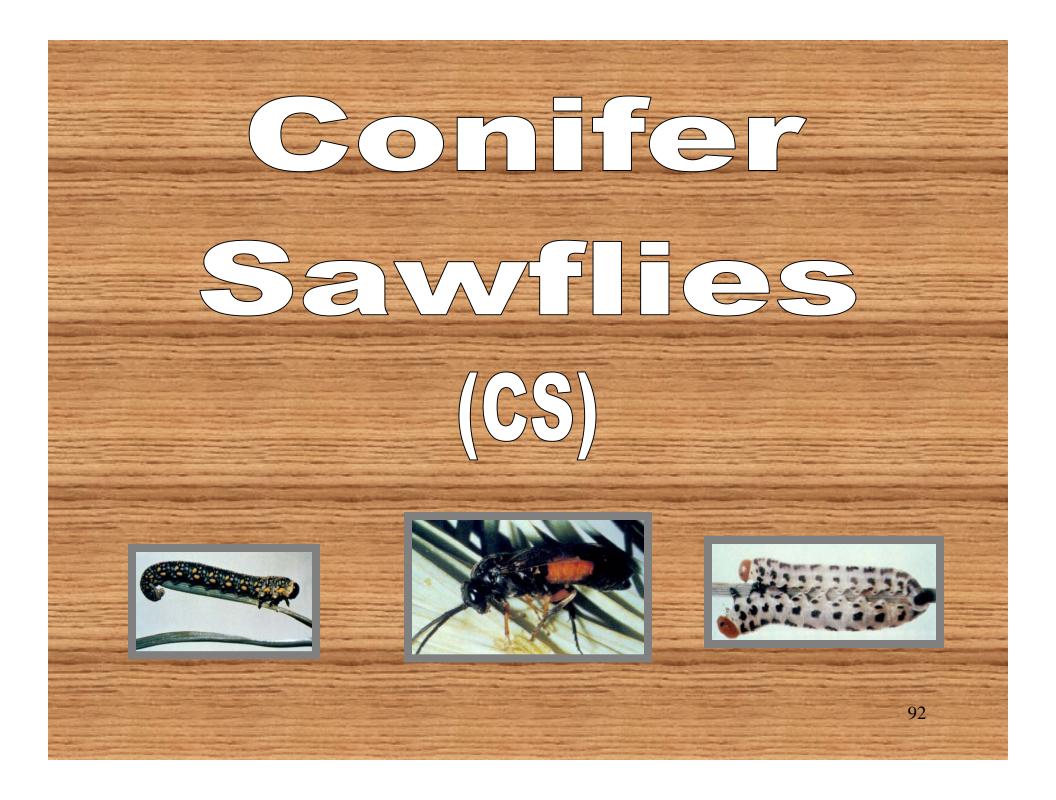




SOS Larvae And Injury



SOS Damage

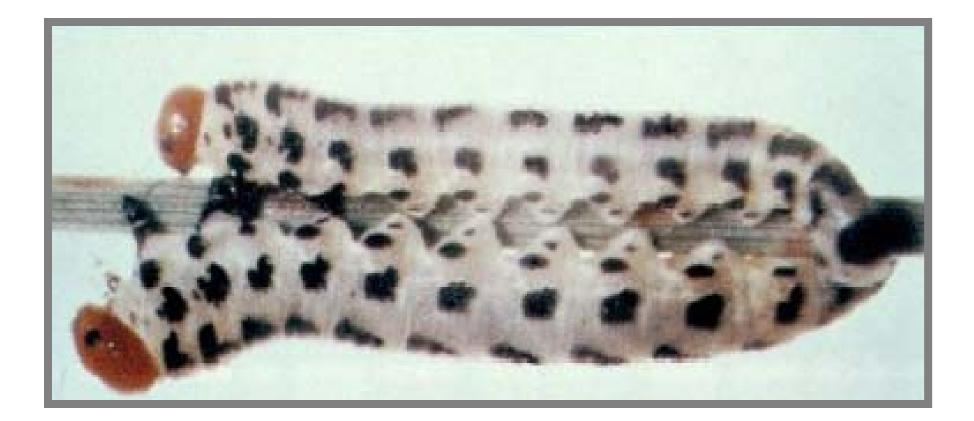




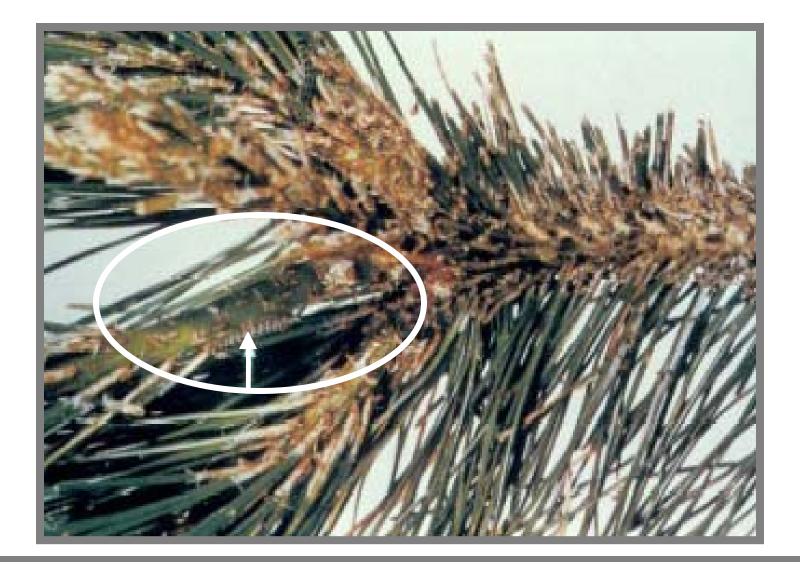
Adult Larch Sawfly



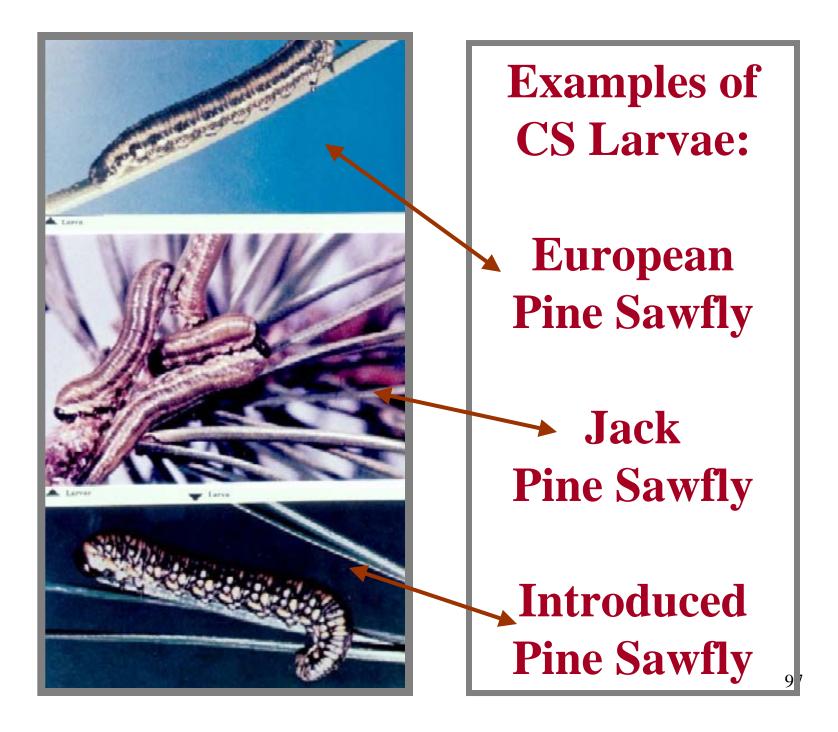
Mature Larvae of Introduced Pine Sawfly

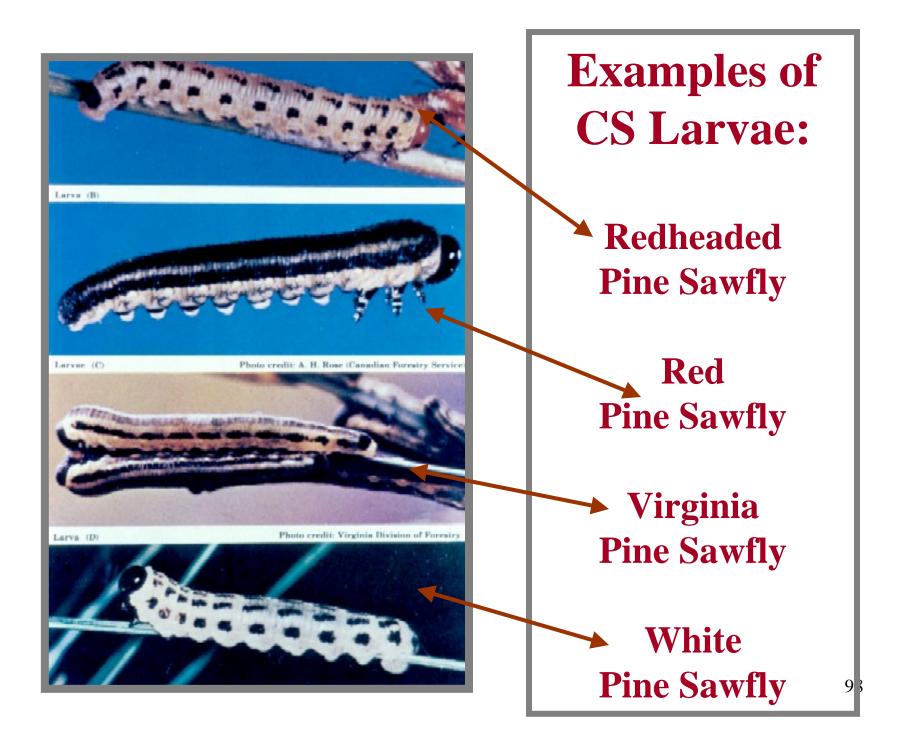


Redheaded Pine Sawfly Larva



Redheaded Pine Sawfly Damage (larva at arrow)







Black-headed Pine Sawfly





Adult EPSM



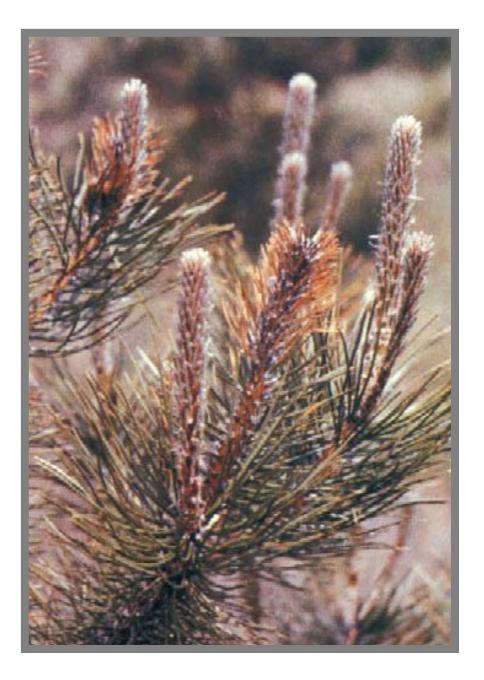
EPSM Pupa In A Tunneled Twig

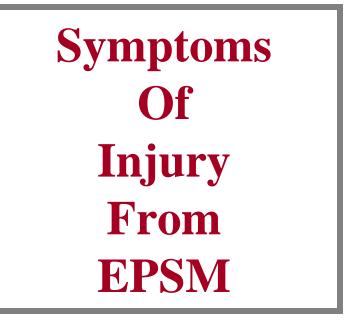


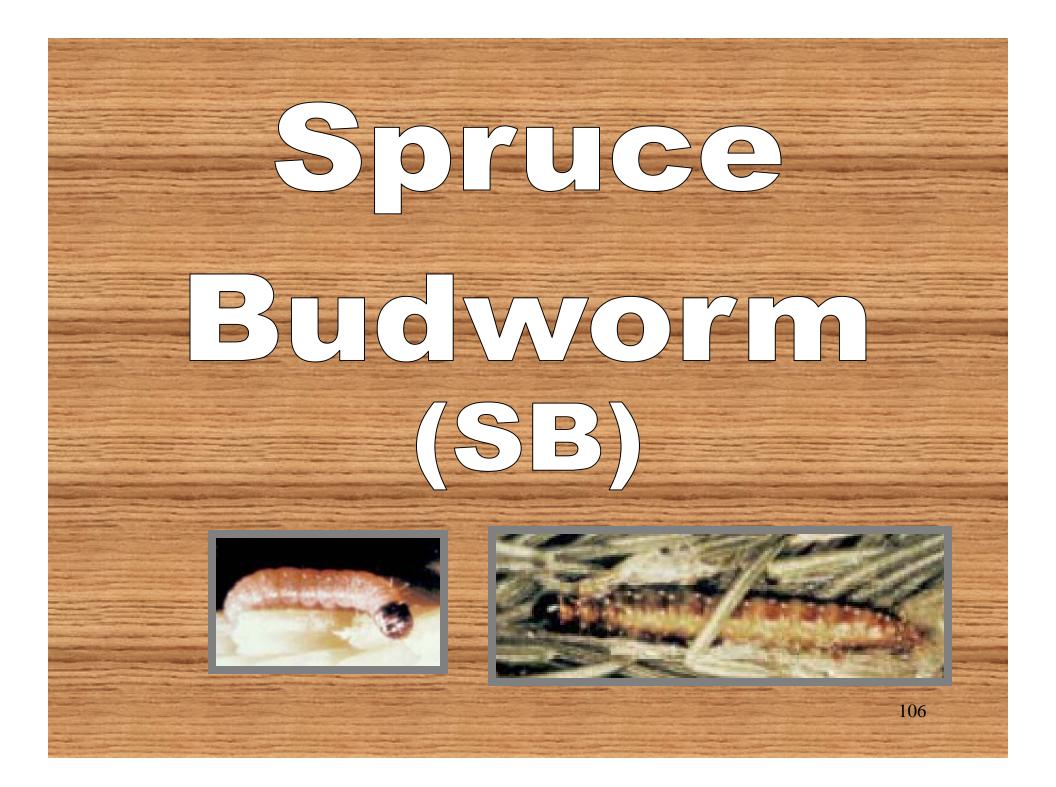
EPSM Damage On Pine Twig



Pitch Accumulation Where EPSM Larva Is Feeding









Adult Female SB

SB Larvae

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SB Damage On Balsam Fir



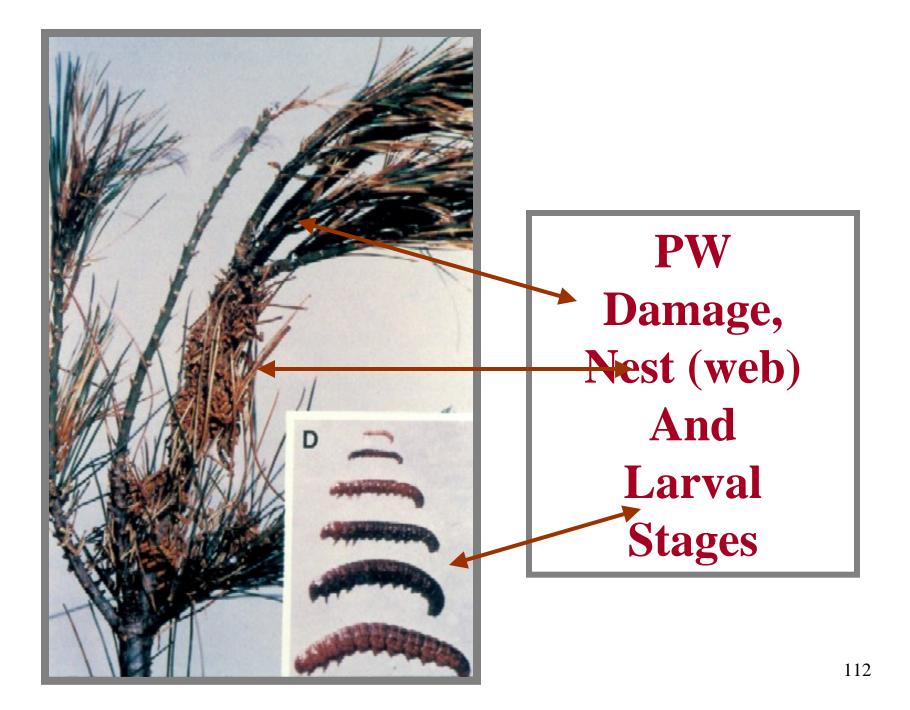
Pine Webworm



110



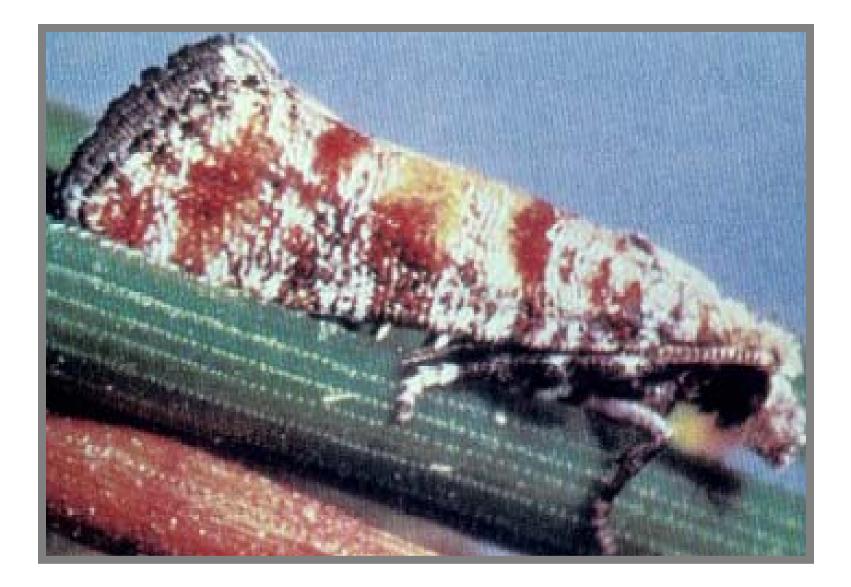




Nantucket Pine Tip Moth

(NPTM)





NPTM Adult

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Typical NPTM Damage To Pine Shoot

