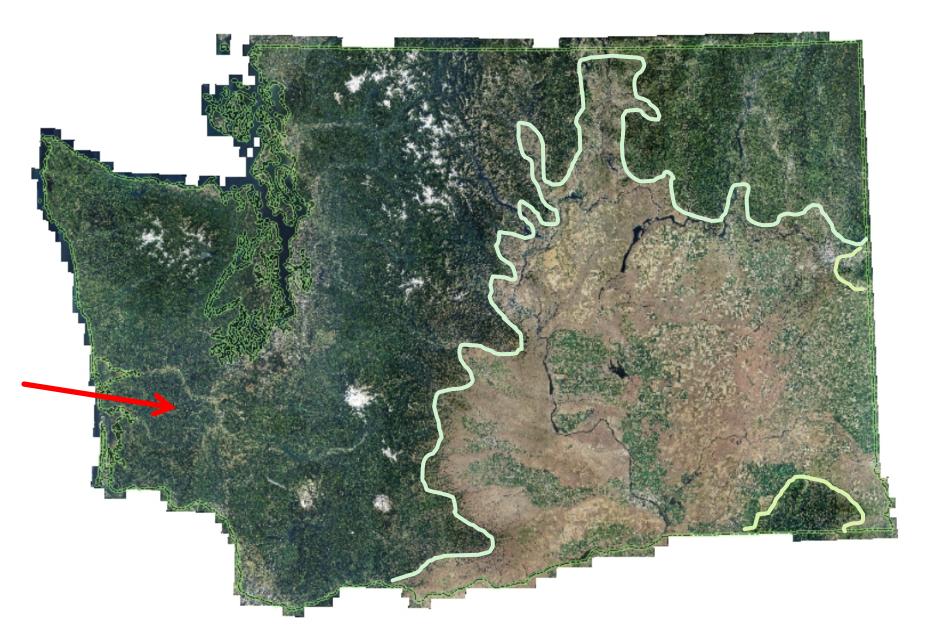
Western Washington Managed Forests -Wildlife Habitats

Ken Bevis Wildlife Biologist, Washington State Dept of Natural Resources

Dept. of Natural Resources Forest Stewardship Program

Ken Bevis, Julie Sackett, Boyd Norton and others
Landowner Assistance
Small Forest parcels – 5 to 2000+ acres



Washington state – forests

Wildlife: Big stuff only Part of the story

05/27/2014 09:46PM MOULTRIECAM

Over 400 species of wildlife live in Washington's forests



Most are Subtle and hidden



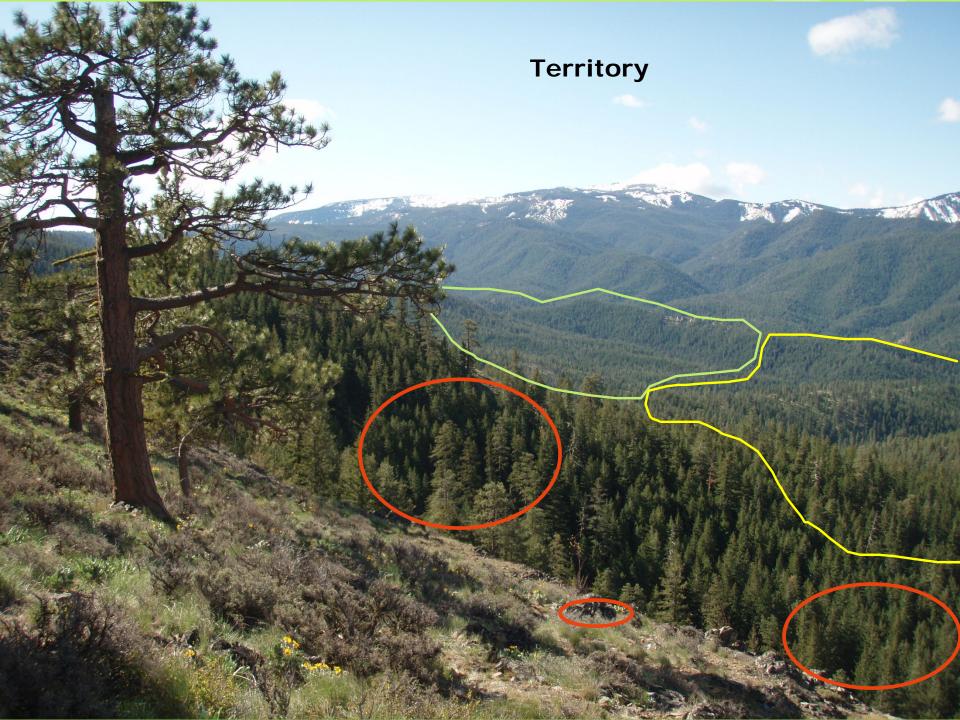


Wildlife has 4 basic needs – vary by species. Different limiting factors

Cover

Water

Food



Habitat Limiting Factors



Ex. Pileated needs enough big dead wood to occupy a territory



Forest Ecology

Moist Forests

Hemlock, Cedar Spruce, Doug fir, etc





Douglas fir - Biological Potential to Be big and Long lived



Dense Canopy

Variable canopies

All Forests are

Canopy

Complex Habitats Full of Niches

Stem

Understory

Ground

All forest ages can be beneficial to wildlife.

Different species Occur in changing Successional stages

Tall

grasses

Short

grasses

Time

Shrubs

Small trees Tall trees

Natural Forest Ecology



Disturbance events leave behind wood





Trees die and last

For a long time





Ecologically, Logging is a like a windstorm

Except some trees fly away!

No. of the second s

Life cycle of dead trees

Hard snag

Becomes a soft snag

Good Stuff!





Primary Cavity Excavators

Sapsucker



Pileated Woodpecker



It's Gotta stand long enough to get soft Enough for a woodpecker to dig it

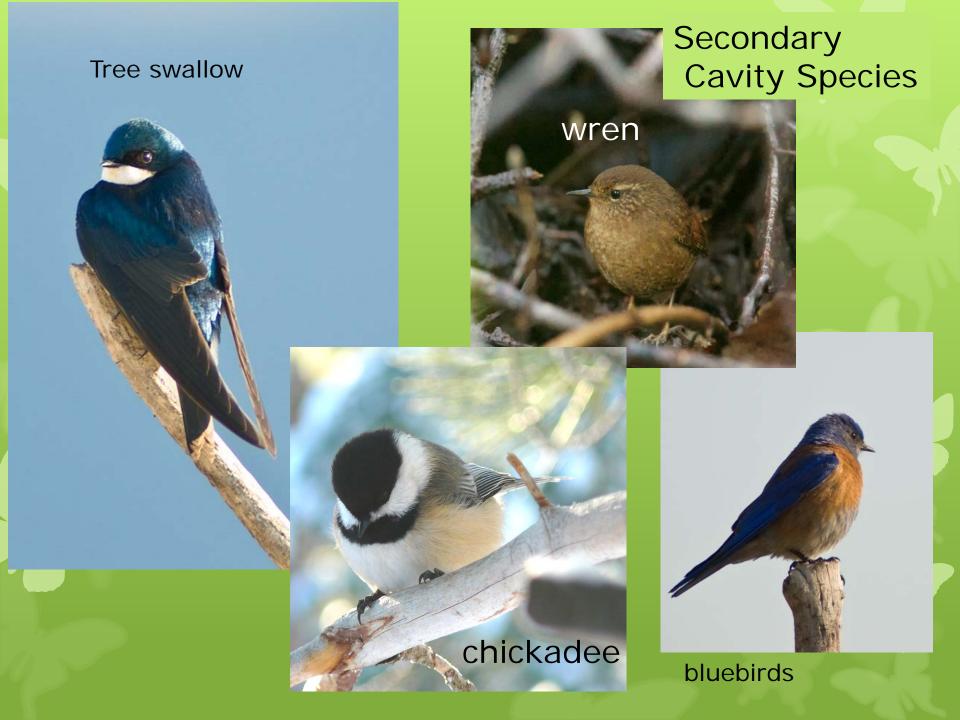
Nest Cavities





Pileated Woodpecker Nest Cavity





Barred owl



Secondary Cavity Species



Saw whet owl



Secondary Cavity Mammals

Flying squirrel Douglas squirrel & bats



Down Logs are Great habitat

Log down about 100 years

chipmunk





Eubber boa



Down wood Habitat denizens

salamanders

Garter snakes



About 40% of forest wildlife depend On dead wood for critical habitats!





Dead Wood = Great habitat!

Rotting wood Feeds the soil

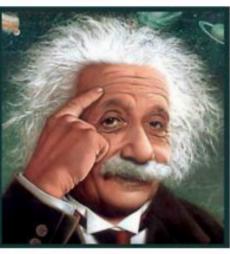




The best habitats in forests are structurally DIVERSE

HOW TO BEST MANAGE FOR WILDLIFE HABITAT AND THUS SPECIES, DIVERSITY?

Information For Your Brain



Habitat Management for diversity

First: Protect existing WATER features

Buffer streams And wetlands

Do good road maintenance

Toolbox:

Snags Logs Legacy Arrangement **Patches Piles Shrubs**





SNAGS





Leave safe snags

Keep old snags

N'AT



Keep Live hardwoods with heart rots

这些别的是不是什么少

A STATE OF STATES

Keep Live trees with broken tops



Protect Logs

Old Logs Contain valuable habitat





Old stump about 100 years old

Keep some Legacy big trees

St ak



Legacy trees For nest sites and Future snags



Arrangement – openings with edge



Arrangement – small openings; 1-5 acres with edge



Patches – vegetation intact





Patch retention around Feature habitats. Keeps soil intact



Piles are good habitat – also help deal with slash





Habitat Piles



Habitat Pile in use

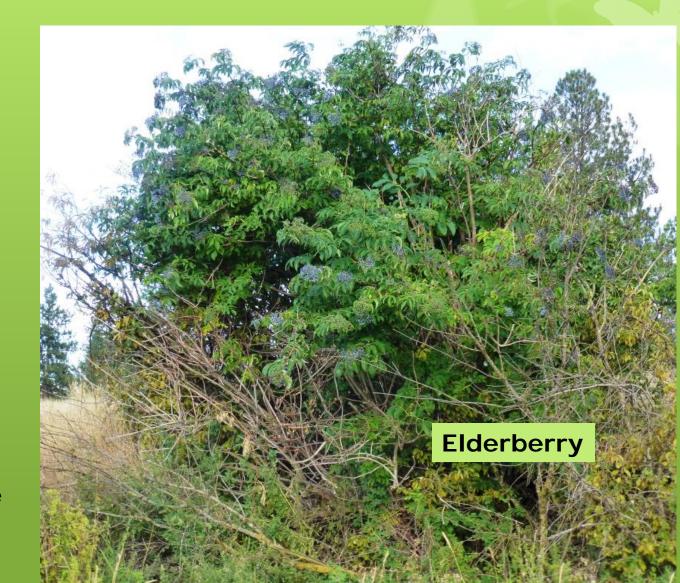




Cascara Currant Serviceberry Chokecherry Hawthorne

Wild Rose

Shrubs -*Manage for those that bear fruit*



Fruit bearing Shrubs

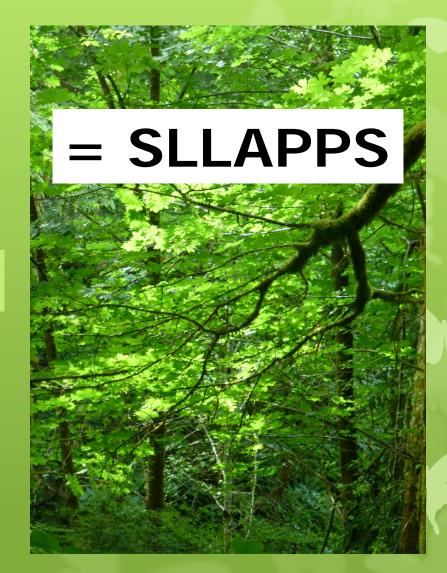






What was that agin?

Snags Logs Legacy Arrangement **Patches Piles Shrubs**



Active management Techniques





Thinning can benefit wildlife

Carlos Carlos

() STATE

Closed canopy plantations are not Good habitat – lack diversity

Carefully thin to avoid blowdown

Create Snags With Mechanical Harvesters

Feller Buncher machine

Snag Creation with Hot Saw





Bluebird nesting in Snag created by felling machine (13 years prior)

A Tall stump is A short snag

(6-8' minimum please)



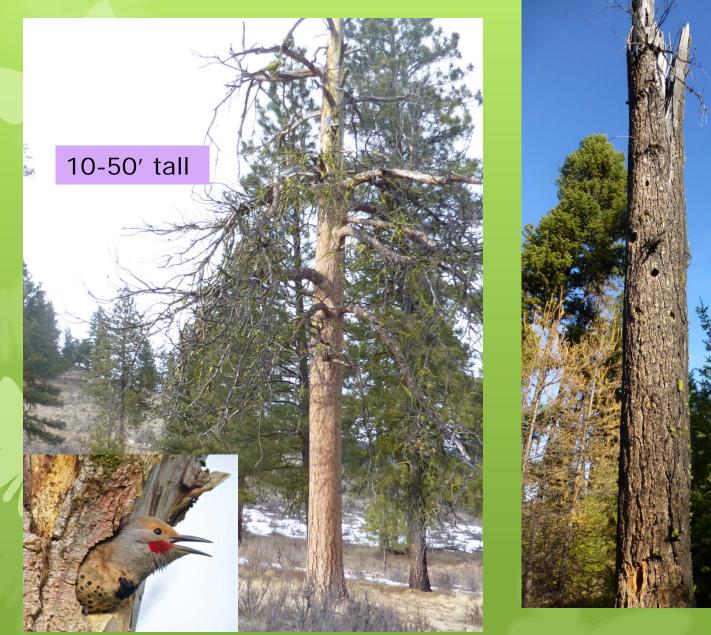


Kill some trees (but leave em standing!)

Snag creation w/ Girdling

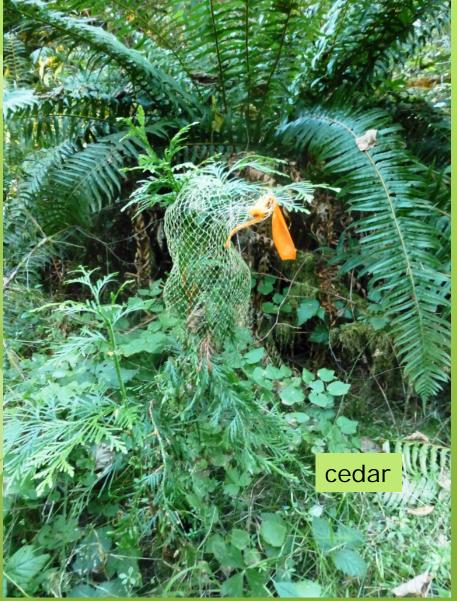


The Best Snags





Planting for diversity



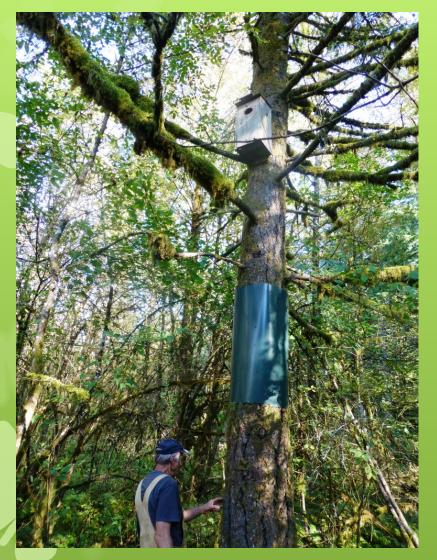




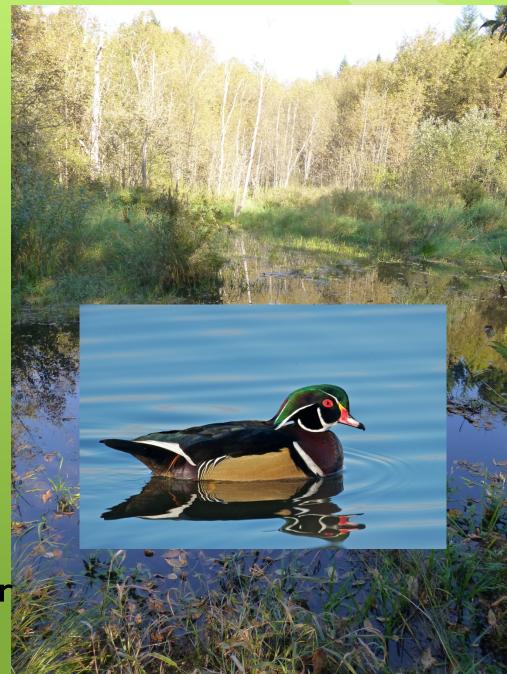
Nest Boxes work



Tree swallow



Wood duck boxes near Small wetland



Ask yourself: Where is your Stand going? What do I want?

Diverse stands = best habitats

Imagine the next forest

.

Mostly, Enjoy your forest!

Thank you



King of the Woods

I'm a woodpecker King of the trees I've got padded brains I do as I please Hey Hey I'm the King of the woods

I'm a crazy red hammer I make cavities Homes for you And homes for me Hey Hey I'm the king of the woods

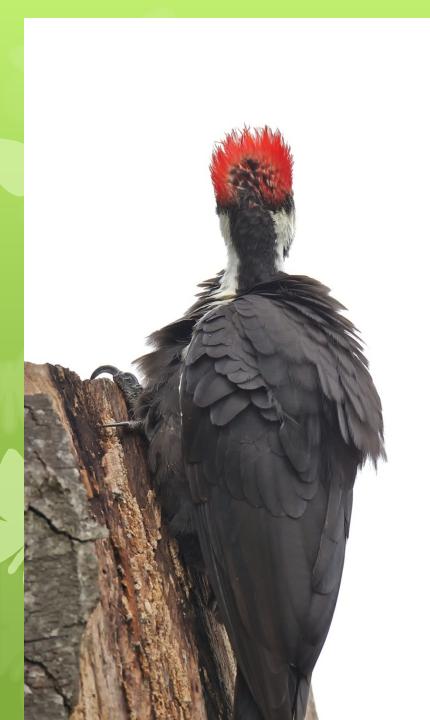


I climb up the trees Tappin' tappy tap Listenin' for an insect cave When I find that hollow sound I ax my way in And slip in my sticky Sticky tongue Yum!



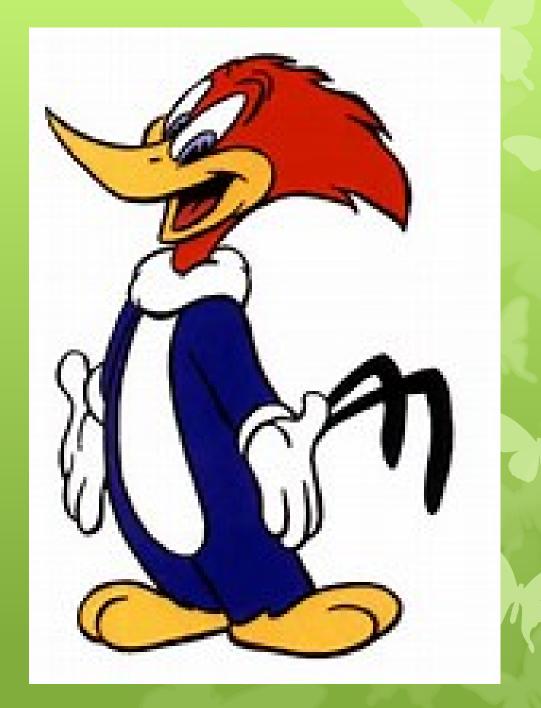
I'm a woodpecker King of the trees I've got padded brains I do as I please Hey Hey I'm the King of the woods

I'm a crazy red hammer I make cavities Homes for you And homes for me Hey Hey I'm the king of the woods



I got rhythm in my bones I'm synchronized I bang on the highest Place I find I play my licks I do my tricks I whack on my tree drum, And sometimes I sing Just for fun! Hey!

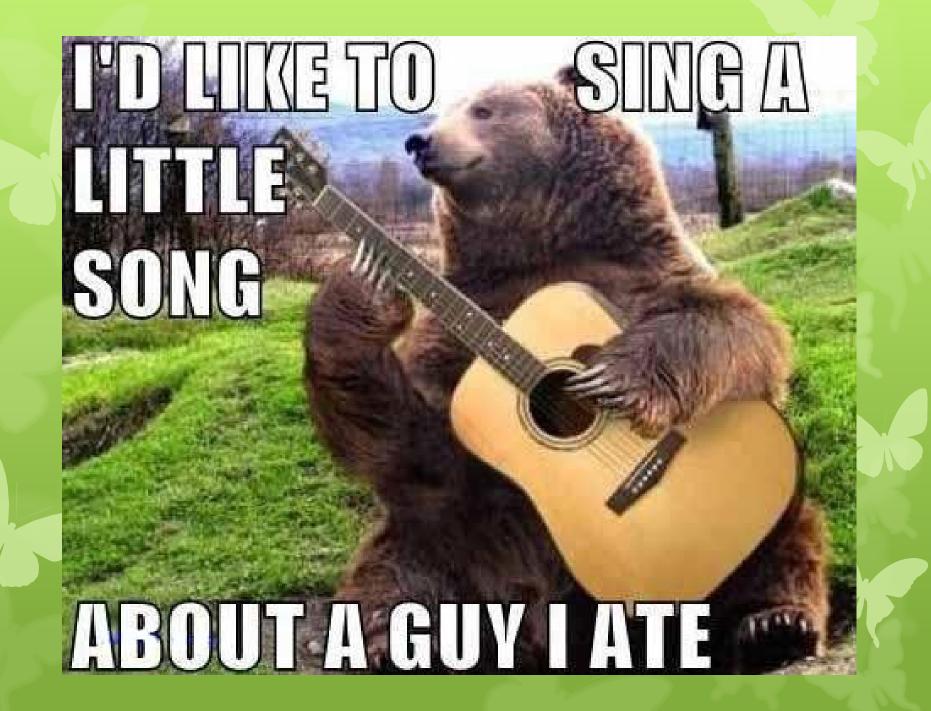
(Break!)





I'm a woodpecker King of the trees I've got padded brains I do as I please Hey Hey I'm the King of the woods





True Bear

I been sleepin' For four months Man, I'm kind of a mess Gotta get above ground Gotta find somethin' to eat I'm hungry Hungry as a bear



Got little round Eyes and ears A sleek Shiny black coat

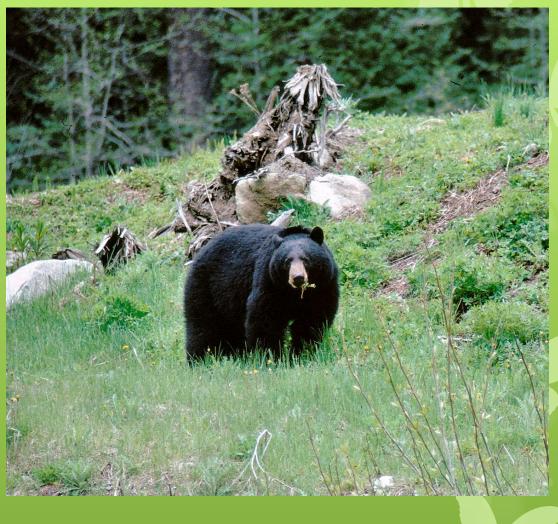
Yeah I look kinda cute But I'm really ornery And mostly I keep to myself



Cuz I'm a bear A black bear The American bear The True Bear

Ursus americana I ain't no horribilis Don't eat no bamboo Don't sleep on the ice Don't do no circus tricks

Cuz I'm a bear A black bear The American bear The True Bear





Ya'll got Yogi and Smokey I don't look nuthin like them They're in cartoons Yeah, I go in the woods, (It's true) Cuz I'm a bear And I don't care

Crusin in the autumn sunshine Lookin for something to eat Old rotten carcass Dry choke cherries I don't care Cuz I'm a bear Ursus americana I ain't no dang grizzly bear Don't eat no bamboo Don't sleep on the ice Don't do no circus tricks

Cuz I'm a bear A black bear The American bear The True Bear



