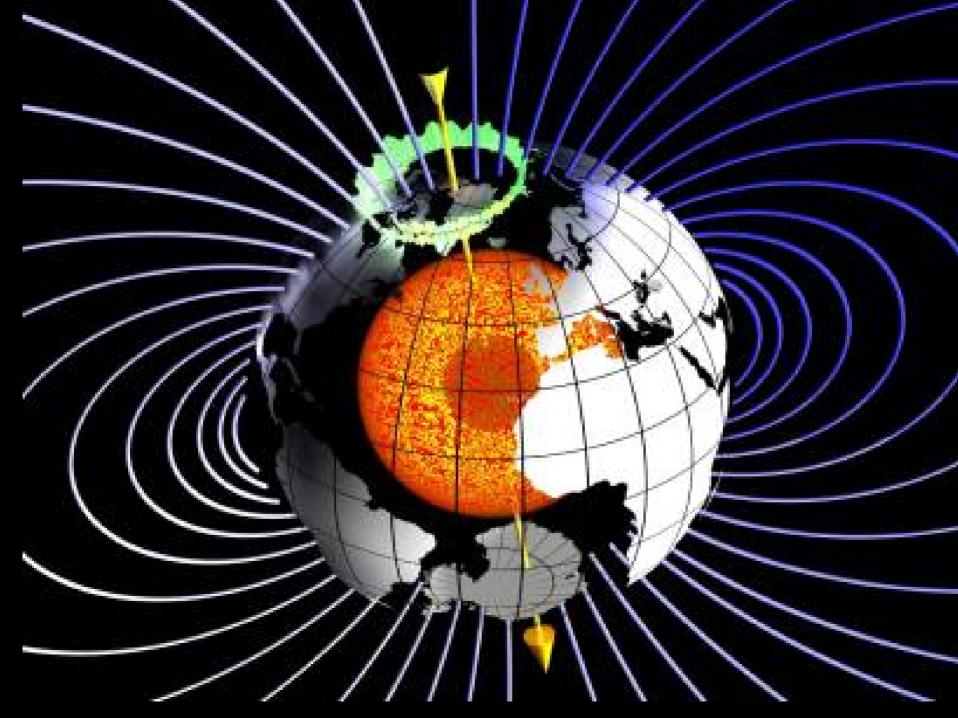
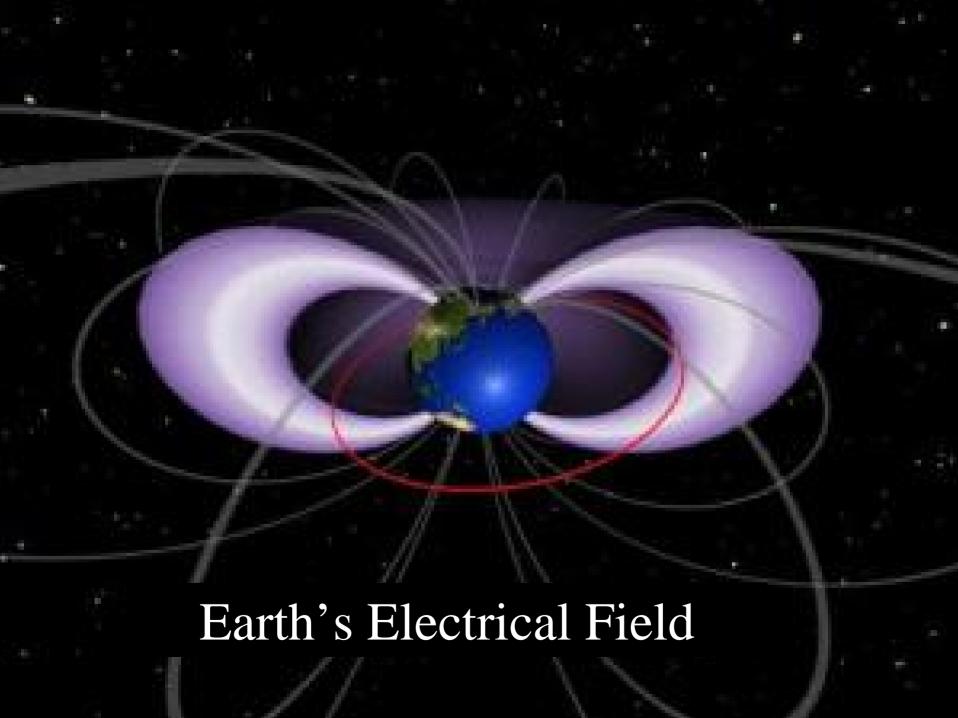
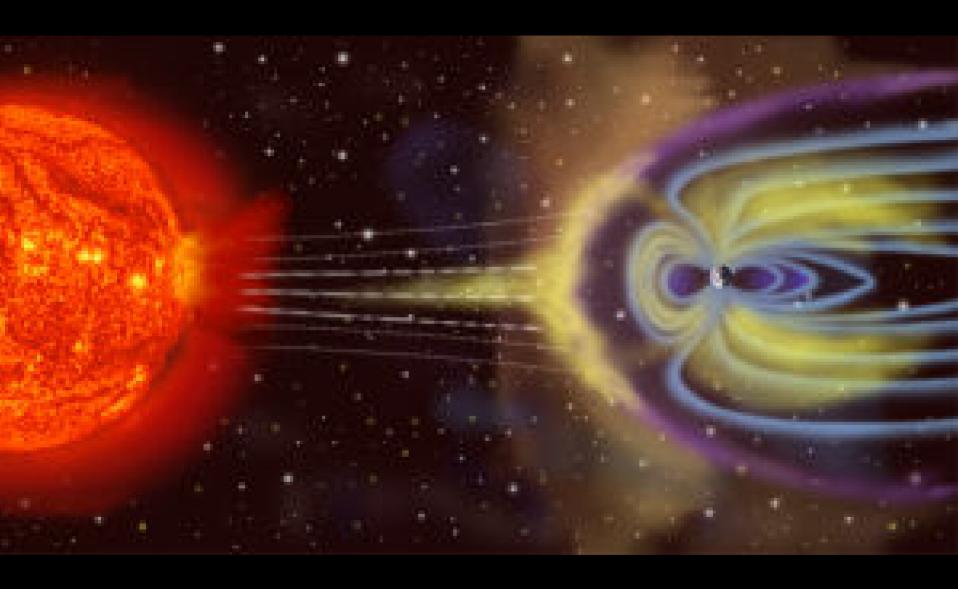
#### Federal Forest Advisory Committee May 15, 2007

- Thomas Sensenig, PhD.
  - 541 858-2319











## Roots grow toward (-)

Branches grow toward (+)

Germinations increases with positive charge

### Electromagnetic Fields

Weather Gravity

The earth's electromagnetic field is the primary driver effecting the strength of storms and their eventual movement



#### Lightning- Global Electrical Circuit

- The Earth loses and recharges its electrical charge every hour. 350,000 volts.
- 200,000 300,000 Amperes per bolt
- 60,000° F 10 X the surface temperature of the sun.

- 100 Lightning bolts per second.
- 8 Million bolts per day.





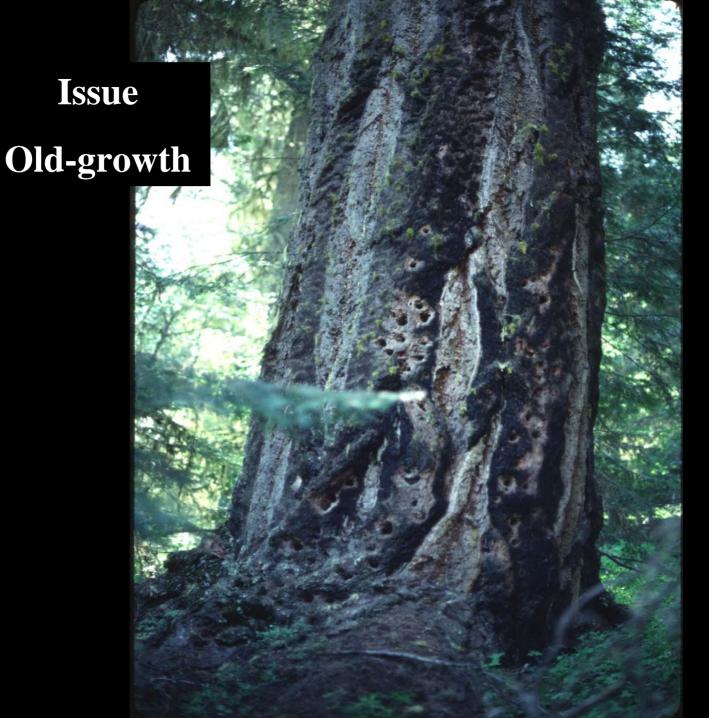




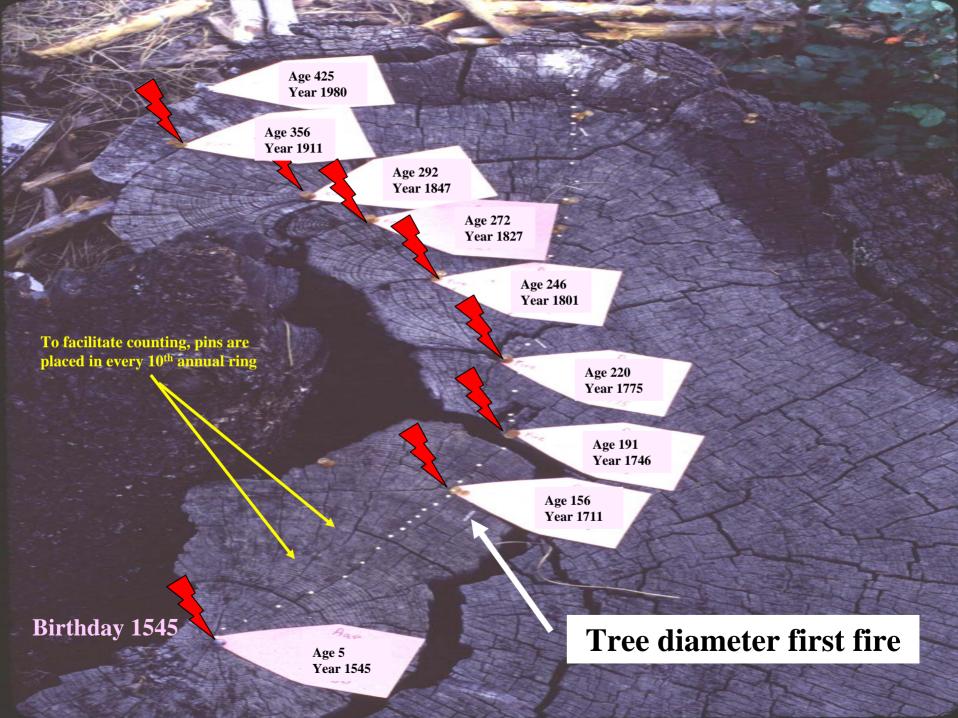
#### **Issue**

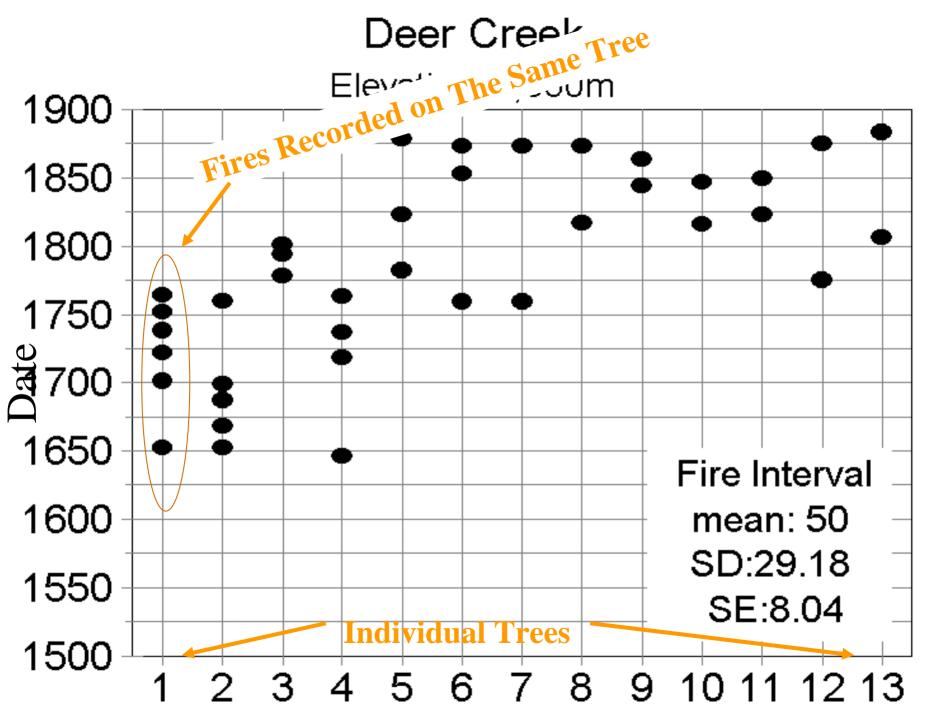
Dry Forest Ecosystems



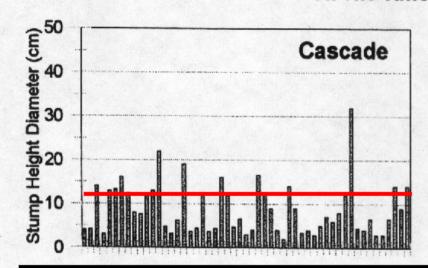


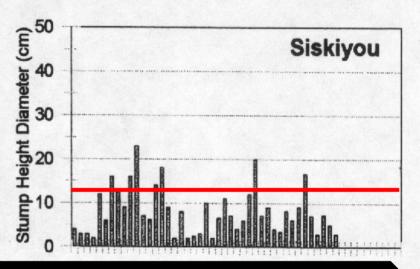




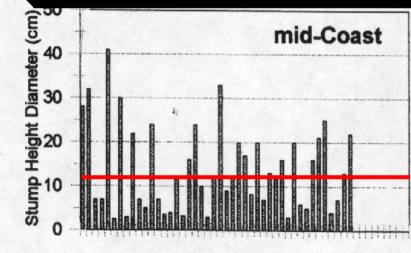


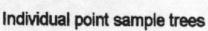
#### Size of Trees Surviving Multiple Fires At The Time Of First Fire

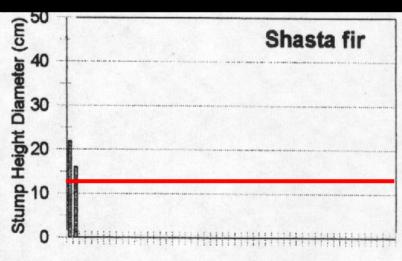




#### Trees <4in. Diameter That Survived a Fire



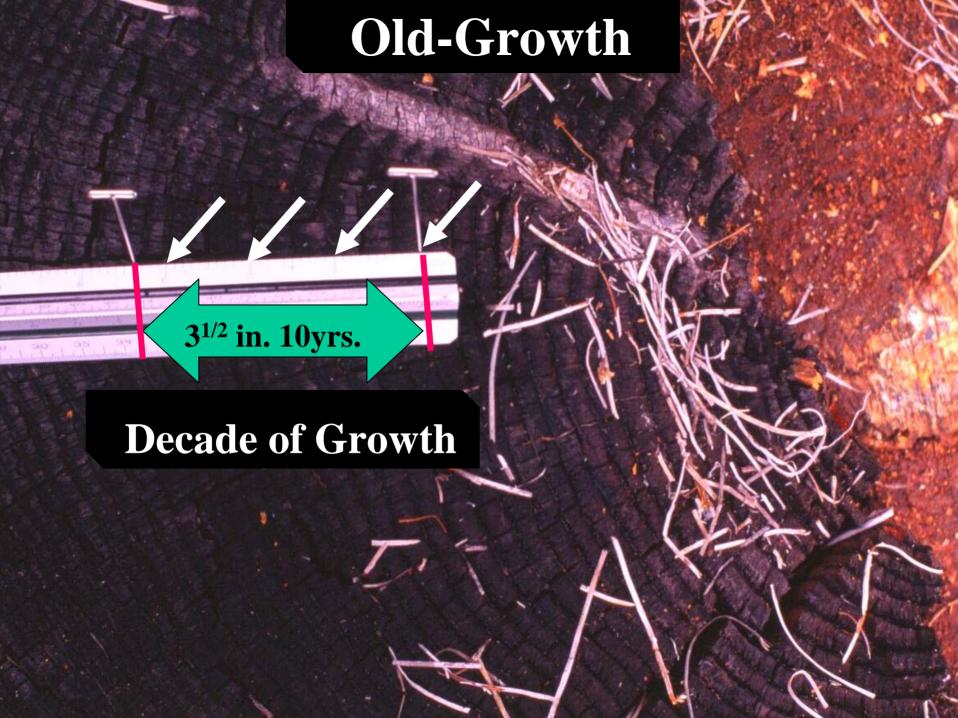




Individual point sample trees

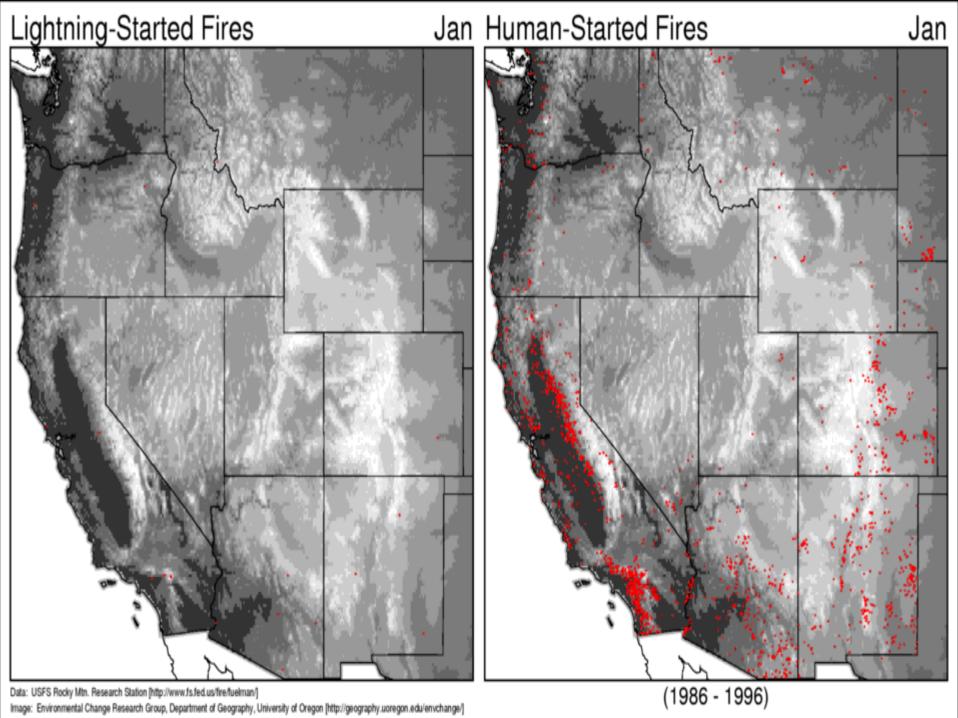


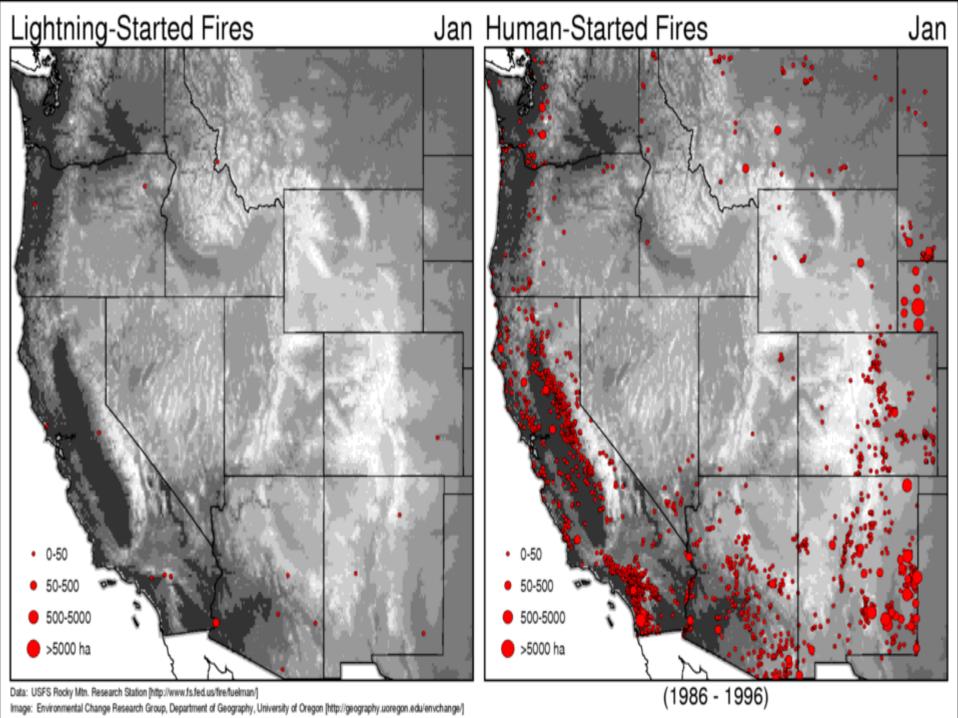






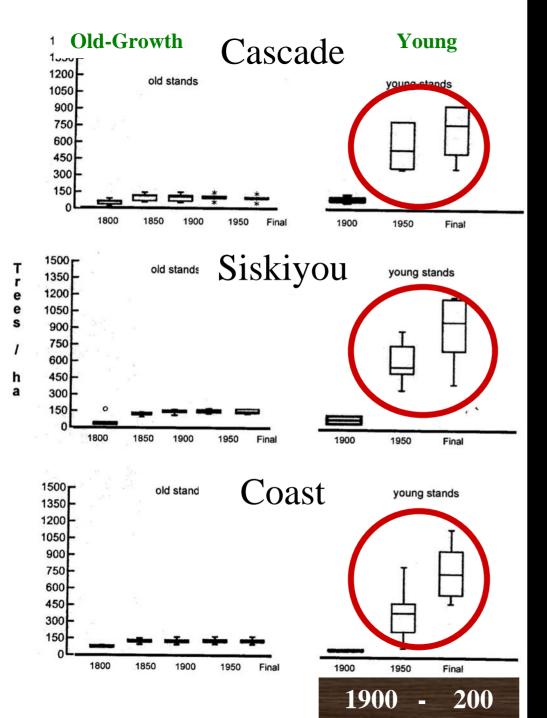








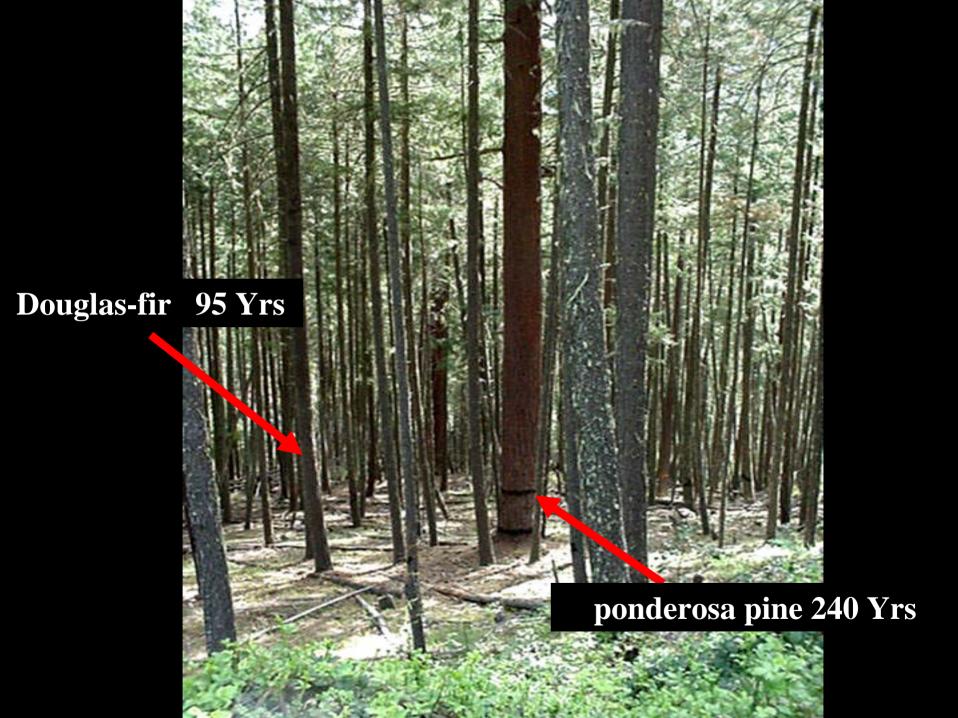




#### Trees per Hectare

# When Did The Forests Become So Dense?





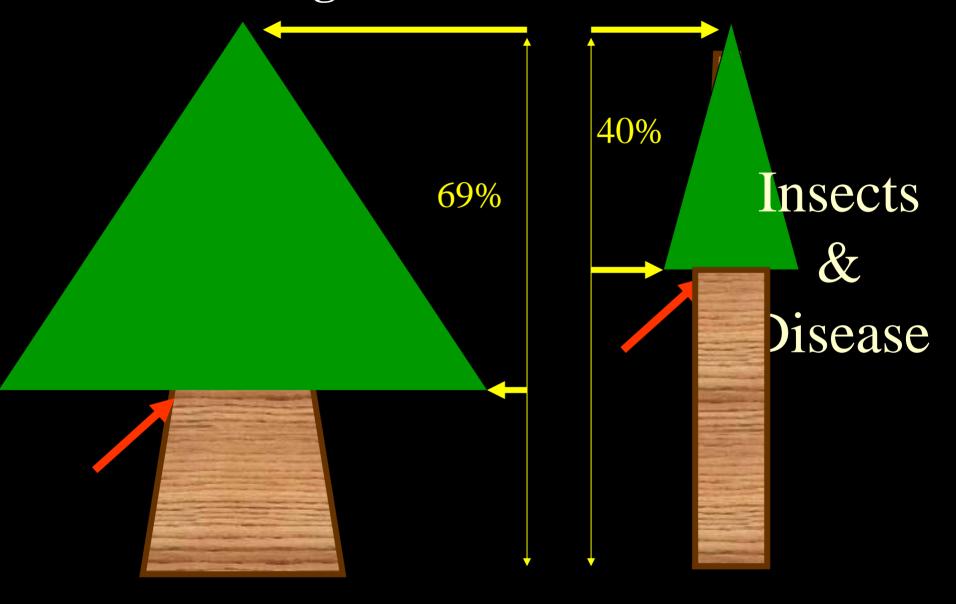
#### Problem

Or,

is there a Problem?



#### Percentage of Tree in Live Crown



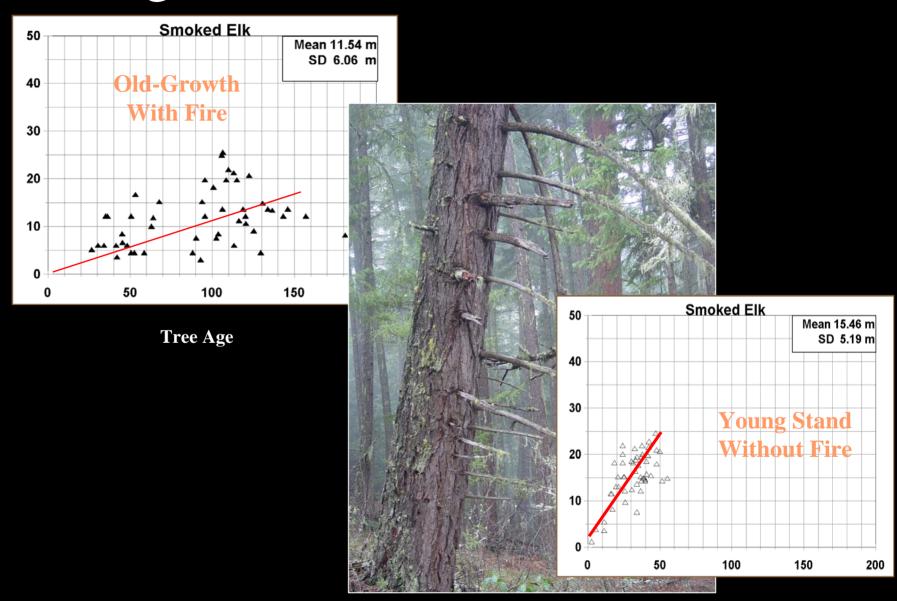
Old-Growth

Young-Growth



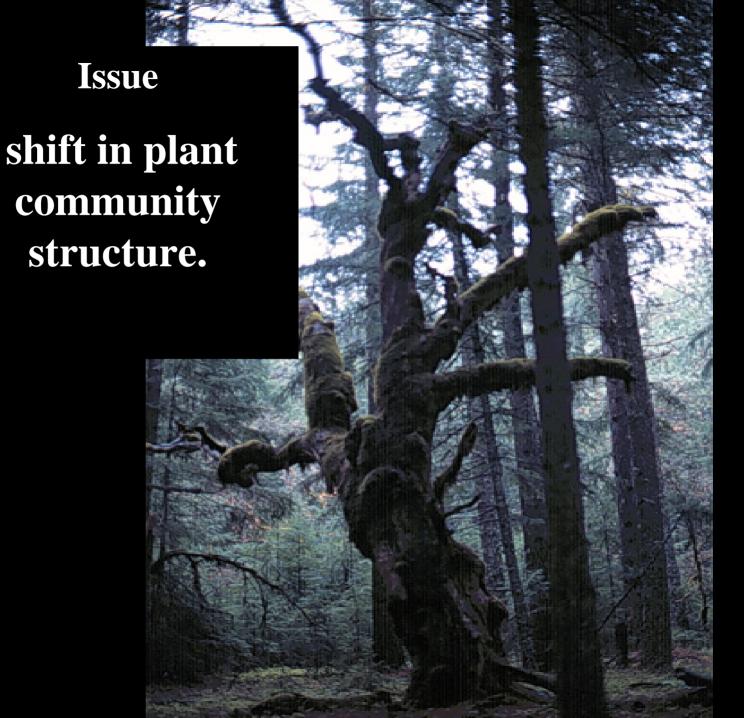


### Height of the Lowest Live Limb



Tree Age















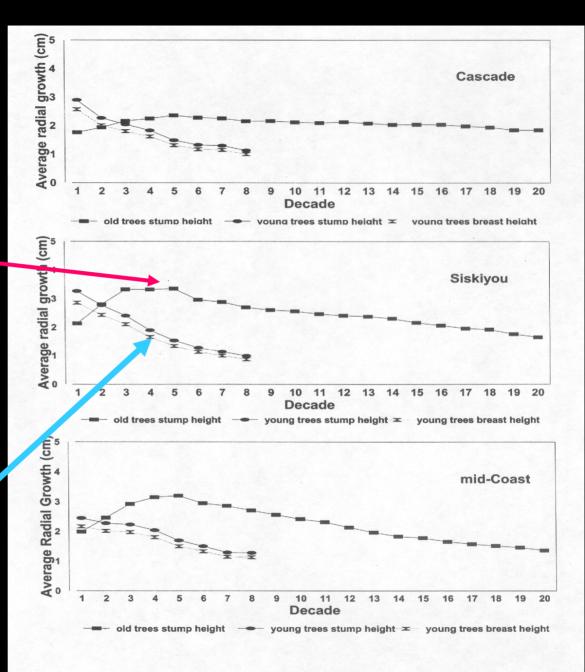




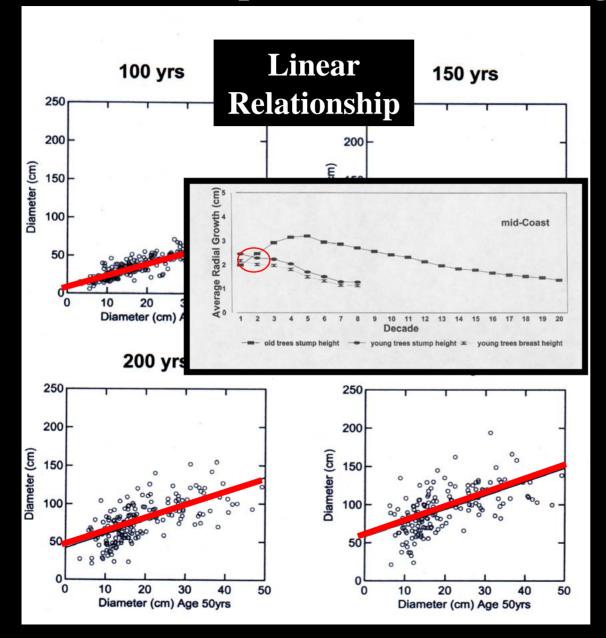
#### Historic Radial Growth of Old-Growth Trees

**Old-Growth Trees** 





#### Relationship of Tree Size From Age 50yrs – 250yrs



The likelihood of a tree becoming an old-growth tree is generally determined early in the tree's life.







### Barriers

#### Scale

- Scale of the ecological situation
- Advancing ecosystem
- Cost
- Commitment

## Federal Acres of Fire Regime Condition Classes in Northwest Forest Plan

Land Use Allocation	Condition	Condition
	Class II	<b>Class III</b>

Matrix and Adaptive
Management Areas (AMA) 4,987,928 2,389,823

Late-Successional Reserves
4,460,361 2,279,756

Withdrawn and Wilderness 4,609,743 1,831,299

Total (14,058,032) (6,500,878)

### Acres of Wildland Urban Interface **Fire Regime Condition Classes**

Wildland Urban Interface

**Condition** Condition

Class III Class III

WUI communities at risk

99,934

78,778

WUI communities at risk buffer

5,561,626 2,444,721

Total

5,661,560

**Additional 8 Million Acres of Private Land** 



#### **Barriers**

- Species Specific Management
- Values Land Use Objectives
- Disagreement on Management Objective
- Species Specific Management
   Uncertainty Risk
- Litigation

# Argumentum ad Ignorantiam "argument from ignorance."

The fallacy that a proposition is true simply on the basis that it has not been proven false

or

That a proposition is false simply because it has not been proven true.

# Argumentum ad Ignorantiam "argument from ignorance."

If a writer is trying to argue that something must be or might be real simply because there is no evidence to the contrary, then the writer is using argumentum ad ignorantiam.

This fallacy asserts the truthfulness of a proposition simply on the basis that there is no evidence to the contrary:

# Argumentum ad Ignorantiam "argument from ignorance."

ie. There is no scientific proof that a fuel reduction treatments will be 100% effective in reducing fire severity, therefore, fuel reduction treatments do nothing to reduce fire severity and are necessary.

No treatment should be undertaken unless you know with absolute certainty that.....



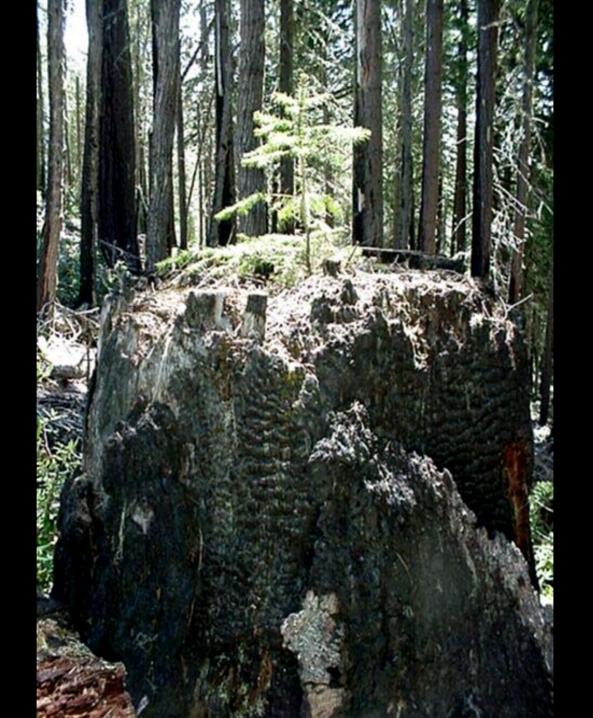
#### **Barriers**

• Willingness to accept consequences of no action management

Management by inaction







#### **Solutions**

- Prioritize to Temporal Scale
- Aggressive Young Stand Management (Funding)
- Old-Growth Management Task Force
- Large Scale Prescribed Burning Effort
- Resource Practitioners Continuity
- Education Awareness
- Federal Forest Advisory Committee's





### Consequences

Species Habituate Shifts

Winners and Losers

• Dry Forest Ecosystems and Spotted Owls Mutually Exclusive?







