

The SNAMP Project:
Learning how to apply adaptive management in the Sierra Nevada Forest Plan Amendment

Morning Meeting
Sacramento, CA
November 5 2008

Presentation Outline

9:00 Welcome – Kim

9:05 Overview from Science Teams
– Members of Science Team present initial results, and highlight products

Other SNAMP Material Available:

- Newsletters
- Team information

- FFEH (Scott)
- Water (Roger)
- PPT (Lynn)
- Spatial (Maggi)
- Fisher (Reg)
- Owl (Doug)

10:15 Neutrality Statement Discussion

10:30 Break

10:45 Interactive Session with Science Teams

11:45 Reporting Back

12:15 Lunch

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SNAMP Goals and Objectives

Purpose

- To evaluate the effects of forest fuels treatments done by the US Forest Service
- Studies focus on fire and forest health, water quality and quantity, wildlife (Pacific Fisher and California spotted owl) and public participation.

The study is designed to collect data using a BACI approach (Before and After treatment data collection in Control and Impact sites). It is designed to last seven years and includes:

- 2 years of pre-project data collection
- 2 years of implementation and data collection
- 1 year of ecosystem recovery and data collection
- 2 years of post-project data collection

We are in the pre-project data collection phase, although some teams have completed this phase. The USFS is currently planning project implementation.

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SNAMP Study Areas

These sites were chosen because: 1) Active USFS management plans in place; 2) Met a range of scientific criteria (including providing habitat for wildlife species and the potential for recruiting large tree structure), and 3) the sites were representative of typical Sierra landscapes.

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Science Team Overviews

Fire and Forest Ecosystem Health
• Scott Stephens, UCB

Water
• Roger Bales, UCM

Public Participation
• Lynn Huntsinger, UCB

Spatial
• Maggi Kelly, UCB

Fisher
• Reg Barrett, UCB

Owl
• Doug Temple, UM

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SNAMP Science Team: Forest Health & Fire

Fire & Forest Ecosystem Team Goals

- The Fire and Forest Health Team will investigate effects of strategic fuel treatments on fire behavior, tree morbidity and mortality, and forest health.

FFEH Team Members

Principal Investigators:

- John Battles, UCB
- Scott Stephens, UCB

Postdoctoral Researchers:

- Brandon Collins

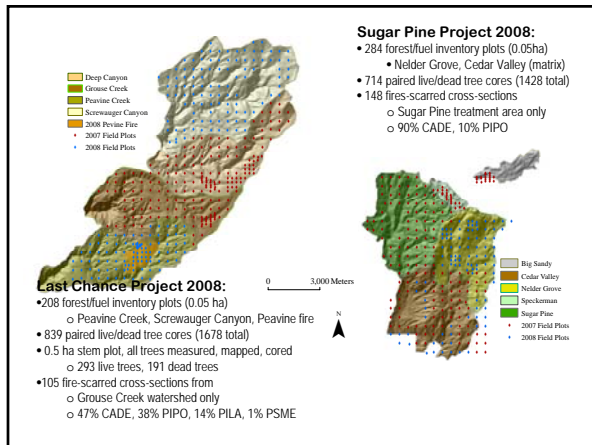
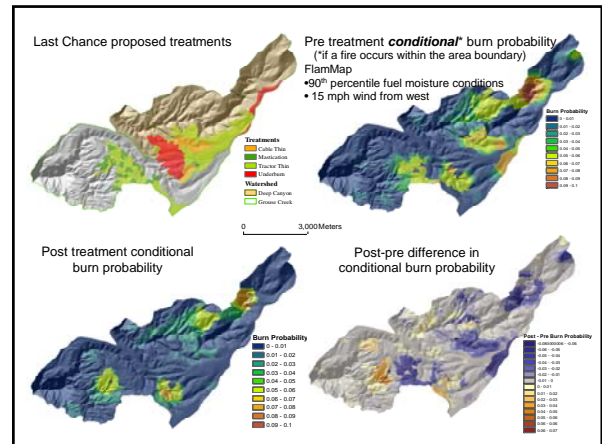
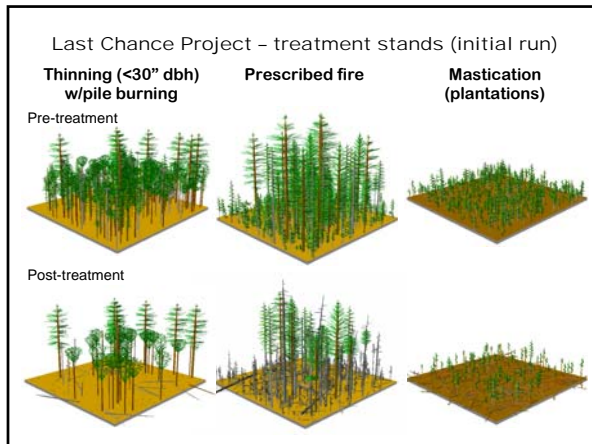
Field Team Leader:

- Gary Roller

FFEH Team Activities

- Preliminary Fire Modeling:
 - pre- and post-treatment scenarios
- Forest Health
- Pre-treatments Sampling Done

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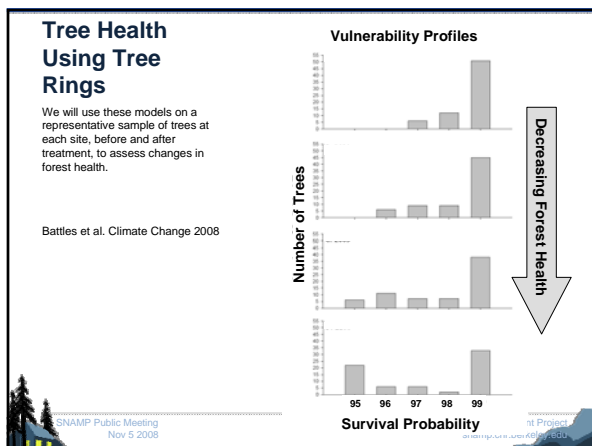


Tree Health Using Tree Rings

We are building models that effectively estimate tree health using tree rings.

Das et al. Canadian Journal of Forest Research 2007

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SNAMP Science Team: Water

Water Team Goals

- Water team members will be monitoring water quality and quantity across treatment and control catchments prior to, and after, treatments. They are investigating impacts of strategic fuel treatments in SNAMP study areas on water quantity and quality.

Water Team Activities

- Instrumentation
 - Meteorological tower & snow depth/soil moisture nodes
- Sediment, streamflow, snow depth/soil moisture & water chemistry
- Modeling
 - Distributed Hydrology-Soils-Vegetation Model: DHVSM

Water Team Members

Principal Investigators:

- Roger Bales
- Martha Conklin

Graduate Student:

- Sarah Martin

Staff

- Phil Saksa

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