

ASCC

ADAPTIVE SILVICULTURE FOR CLIMATE CHANGE

Adaptive Silviculture for Climate Change One-Day Workshop Flathead National Forest June 28, 2016

Scientists and outreach specialists from Colorado State University and the USDA Forest Service are offering a one-day workshop to provide training on the topic of incorporating climate change into natural resource management.

This Workshop Will Include:

- Introduction to conceptual tools and resources designed to help integrate climate change considerations into natural resource management planning and decision-making.
- Discussion of regional climate change projections, impacts, and ecosystem vulnerabilities.
- Opportunity to apply concepts from the workshop in a scenario-based breakout activity.
- Overview of a long-term climate change adaptation study to be implemented at Coram Experimental Forest.

8:00-8:30

Date and Location:

Tuesday, June 28, 2016 8:00 am – 5:00 pm Flathead National Forest Supervisor's Office 650 Wolfpack Way Kalispell, MT 59901

To Attend:

If interested in attending this climate change workshop, please follow this link to register: goo.gl/forms/el6JdOS9KS

There is no fee for the workshop, but space is limited. Please indicate your interest in attending no later than **Friday, June 10**. Feel free to share this invitation with others in your organization who could benefit from attending. There will be 7 CFE Category 1 credits available for on-site attendees.

The 8am-2:15 portion of this training will also be broadcast live via AdobeConnect, as well as recorded and posted for later viewing. Space on the live webinar is also limited; use this link to register for the live webinar, and to receive further login details: goo.gl/forms/Ld9t8aqV11|SF3TE2

Workshop Agenda:

8:30-9:15	Climate science basics (C. Swanston)
9:30-10:00	Climate change trends for the northern Rocky Mountains
	(J. Halofsky)
10:00-10:30	Considerations for silvicultural decision- making (Nagel)
10:45-11:15	Ecology & silviculture of Northern Rockies forests
	(M. Jenkins)
11:15-12:00	Climate change impacts and vulnerabilities for Northern
	Rockies forests (R. Keane)
12:00-1:00	Lunch (not provided)
1:00-2:15	Incorporating climate change adaptation into silvicultural
	planning and decision-making (L. Hoang, Nagel)
2:15-5:00	Breakout activity: Developing climate change adaptation
	strategies for Northern Rockies forests

Welcome and overview (L. Nagel)

For more information, please contact:

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A Highly Collaborative Project Among:

- US Forest Service Research and Development (NRS, PNW, PSW, RMRS, SRS)
- US Forest Service National Forest System
- Universities (CSU, MTU, UMN, UVM)
- Northern Institute of Applied Climate Science
- Non-governmental partners
 (J.W. Jones Ecological Research Center, GA)

Adaptive Silviculture for Climate Change One-Day Workshop Agenda Flathead National Forest June 28, 2016

Location: Supervisor's Office in Kalispell

8:00-8:30 Introductions and ASCC Project Overview (Linda Nagel)

Welcome & Introductions

8:30-9:15 Climate Science Overview (Chris Swanston)

- Climate science overview, including uncertainty and variability in models
- Observed and projected trends (global/national)

9:15-9:30 Break

9:30-10:00 Climate change for the Northern Rocky Mountains (Jessica Halofsky, Dave Peterson)

- Observed and projected climate trends for the Northern Rockies, including temperature, precipitation, hydrology, forest pests, etc. (NRAP)
- Intro to impacts and vulnerabilities

10:00-10:30 Climate change considerations for silvicultural decision-making (Linda Nagel)

 Activity #1: What additional or changing considerations does CC bring to the process of making silvicultural decisions and developing strategies?

10:30-10:45 Break

10:45-11:15 Ecology & Silviculture of Northern Rockies forests (M. Jenkins, E. Sutherland, T. Jain, and B. Bollenbacher)

- Silvics, vegetation dynamics, forest structure, fire ecology and fire history of forest types
- Silviculture typically implemented by Flathead NF and neighboring public lands

11:15-12:00 Climate change impacts and vulnerabilities for Northern Rockies forests (NRAP summaries) (Bob Keane)

- Vulnerabilities related to vegetation, disturbance and water use dynamics
- Impacts to vegetation functional groups, forest types
- Impacts on fire and frequent-fire ecosystems
- Forest health considerations

12:00-1:00 Lunch

1:00-1:45 Climate change in the Forest Service; Big-picture silviculture considerations in the context of climate change (Linh Hoang)

- Forest Service climate change policies and initiatives, Planning Rule
- Practical applications for translating today's presented information into climate-informed planning
- (Optional) NFs or units in the region who are implementing Planning Rule with climate change considerations

1:45-2:15 Overview of adaptation and mitigation (Linda Nagel)

- Definitions of adaptation and mitigation
- Range of adaptation strategies
- Activity #2: Developing Adaptation Actions for Forests

2:15-4:45 Breakout Exercise: Developing Adaptation Approaches & Tactics (Linda Nagel & Molly Roske)

• Small-group work to develop adaptation actions

3:45-4:30 Each small-group reports back to the larger group

4:45-5:00 Wrap-up (Linda Nagel, others)