

## **SOUTHWEST CLIMATE CHANGE INITIATIVE (SWCCI)**

### **BEAR RIVER CLIMATE CHANGE ADAPTATION WORKSHOP**

**May 26 and 27, 2010  
Salt Lake City, Utah**

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#### **WORKSHOP GOAL:**

Identify management strategies that will help native plants, animals and ecosystems adapt to a changing climate and lay the groundwork for their implementation.

#### **WORKSHOP OBJECTIVES:**

1. Provide background information on climate change and its effects in the Bear River Basin.
2. Introduce a framework for landscape-scale climate change adaptation planning.
3. Assess the impacts of climate change on a set of high-priority species and ecosystems.
4. Identify strategic management actions that will reduce climate change impacts.
5. Identify opportunities for ongoing learning, collaboration, and implementation of on-the-ground climate change adaptation projects in the Bear River Basin.

#### **DESIRED OUTCOMES:**

1. Shared understanding of the known current and potential future effects of climate change, through development of conceptual models, for Bonneville cutthroat trout and Bear River wetlands.
2. Identification of strategic actions to promote conservation resilience and realignment for Bonneville cutthroat trout and Bear River wetlands in the face of climate change.
3. Identification of opportunities to facilitate successful implementation of strategic actions.
4. Statement of research and monitoring needs for climate adaptation in the Bear River Basin.
5. Recommended next steps to be taken by natural resource managers of the Bear River Basin.

#### **MAY 26: 8:30 AM -11:45 PM**

- 8:30-8:40      Welcome
- Dave Livermore, *State Director, The Nature Conservancy, UT*
- 8:40-8:50      Southwest Climate Change Initiative (SWCCI) Overview
- Patrick McCarthy, *Director, SWCCI, The Nature Conservancy*
- 8:50-9:10      Statement of the Problem and Rationale for Workshop
- Gregg Garfin, *Director of Science Translation and Outreach, University of Arizona (Workshop Facilitator)*

9:10-9:40 Overview of Regional Climate Change Impacts: the Known, the Unknown, and the Uncertain

- Linda Mearns, *Senior Scientist, National Center for Atmospheric Research*

9:40-10:15 Overview of Past and Potential Future Trends in River/Stream Flows in the Bear River Basin

- Joe Barsugli, *Western Water Assessment, University of Colorado*

**BREAK: 10:15 - 10:30 AM**

10:30-11:00 Overview of Ecological Consequences of Climate Change

- Dr. Frederic H. Wagner, *Professor Emeritus, Utah State University*

11:00-11:30 Overview of Conservation Adaptation Planning

- Molly Cross, *Climate Scientist and Adaptation Specialist, Wildlife Conservation Society*

11:30-11:45 Implementing a Framework for Adaptation Planning: Future Climate Scenarios, Goals & Logistics for Remainder of the Workshop

- Gregg Garfin & Molly Cross

**LUNCH: 11:45 – 12:45 PM (PROVIDED)**

**12:45 - 4:30 PM, w/ BREAK FROM 3:00 – 3:15 PM**

12:45-4:30 Conservation Target Break-out Groups (separate rooms): Session One

- Bonneville Cutthroat Trout Facilitator: Patrick McCarthy
- Wetlands Facilitator: Molly Cross

Objectives for the two groups include:

- *Identify management objectives*
- *Refine the conceptual ecological model*
- *Assess impacts of two future climate change scenarios*
- *Complete Table 1: Climate Change Impacts (in participant packet)*

**DAY ONE ADJOURN: 4:30 PM**

**HAPPY HOUR: 4:30 PM (AT THE SAME LOCATION AS THE WORKSHOP)**

**MAY 27, 2010, 8:30 AM -12:00 AM w/ BREAK FROM 10:15 – 10:30 AM**

8:30-12:00 Conservation Target Breakout Groups: Session Two

Objectives for two groups include:

- *Identify management intervention points*
- *Identify strategic actions for climate change adaptation*
- *Complete Table 2: Identification of Strategic Actions (in participant packet)*
- *Review management objectives*
- *Evaluate level of urgency/priority and identify opportunities for implementation*
- *List research and monitoring needs*

**LUNCH: 12:00 – 1:00 PM (PROVIDED)**

**1:00 – 4:30 PM**

1:00-2:00 Break-out Groups Re-assemble in Large Room and Report Back (Gregg)

- Each group presents/reviews their priority strategic actions
- Facilitated summary and synthesis

2:00-3:00 Opportunities for Strategic Action Implementation: Integrate and evaluate top priority actions considering barriers and key uncertainties, e.g., cost, social, political, regulatory, lack of knowledge, and opportunities for implementation.

Mini-breakout groups meet for 10 minutes to discuss barriers and opportunities, followed by report-out and whole-group discussion.  
Facilitator: Gregg Garfin

Outcomes:

- *Barriers to implementing strategic actions*
- *Opportunities for overcoming barriers to implement the actions*
- *Suggest lead agency and timeline*

**BREAK: 3:00-3:15 PM**

3:15-4:00 PM Facilitated Discussion on Emerging Themes, Implementation and Next Steps (Moderators: Joan Degiorgio and Joel Tuhy)

Outcomes:

- *What strategies might apply to all targets?*
- *What work planned or underway will be affected by climate change?*

4:00-4:20 Participant Feedback on Workshop Process and Outcomes

4:20-4:30 Closing Remarks: Joan Degiorgio and Patrick McCarthy

**PLEASE COMPLETE EVALUATION FORM!! THANK YOU!!**

**WORKSHOP ADJOURNS: 4:30 PM**