



Chelan County Community Climate Resilience Conversation

May 7, 2020

Welcome

Ryan Anderson, WRCD



Tips for using Zoom

- This presentation is being recorded for note-taking purposes.
- All attendees are muted for now. You're welcome to have your video on or off.
- If you need to leave the meeting, click the red "Leave Meeting" in the bottom right corner of your screen.
- Ask questions using the **Chat** feature (in toolbar at the bottom of your screen). You can also use the "Raise Hand" feature in the **Participants** panel (in toolbar at the bottom of your screen).



Background and Purpose

- How we got to where we are today – recap of 2019 meetings
- Purpose of today



Today's Agenda

- Orientation
- Vision for Chelan County climate resilience strategy
- Local climate impacts
- WA DNR Resilience Plan and local-scale action
- *5 minute break*
- Breakout group discussion
- Reconvene around coordinated action
- Next steps & adjourn



Vision for Chelan County Climate Resilience Strategy

Commissioner Bob Bugert



Vision for Chelan County

- Effectiveness of partnerships in addressing this issue.
- Importance of proactive measures.
- Benefits to the citizens in developing a plan.



Local Climate Impacts

Amy Snover, UW Climate Impacts Group



Safeguarding our lands, waters, and communities



DNR's Plan for Climate Resilience

Chelan County Community Climate Resilience Conversation
May 7, 2020



SAFEGUARDING OUR LANDS, WATERS, AND COMMUNITIES:

FEBRUARY 2020

DNR'S PLAN FOR CLIMATE RESILIENCE



WASHINGTON STATE DEPT OF
**NATURAL
RESOURCES**

HILARY S. FRANZ
COMMISSIONER OF PUBLIC LANDS

“We must continue to innovate and rethink what it means to be public land stewards, with a focus on preserving and protecting our wonderful legacy of productive and beautiful lands and waters.”

- Commissioner Hilary Franz

Purpose

- Highlight DNR's high-priority climate-related risks and responses
- Foster collaboration among DNR, communities, and other entities in preparing for and adapting to the impacts of climate change



Definition of Climate Resilience

Definition in DNR's plan: Being prepared for, and adapting to, current and future climate-related changes

Achieving resilience means:

- For our lands and waters, increasing the health and integrity of our natural systems and enhancing their ability to absorb and recover from disturbance.
- For DNR and our partners, planning for change and projected impacts in order to maintain basic functions, minimize harm, respond effectively when impacts occur, and quickly recover to resume services following disturbances.



Contents

- Lays out steps to build resilience, minimize impacts and maximize opportunities. Examples include:
 - Increase the use of state lands for renewable energy to lessen carbon emissions and increase revenue for trust beneficiaries;
 - Restore the health of eastern Washington forests to limit the size and damage of wildfires and provide new work in the timber industry;
 - Reforest with tree varieties that can withstand changing climate regimes;
 - Restore eelgrass beds to provide localized refuges for shellfish in acidifying marine waters;
 - Design trails to accommodate changes in precipitation intensity; and
 - Launch an urban forestry strike team to plant more trees in towns and cities to capture stormwater and lower temperatures.



Contents

Agency-level responses:

- Incorporate climate resilience into authority structures
- Enhance capacity to address climate risks and resilience opportunities
- Incorporate climate resilience into knowledge and learning structures
- Incorporate climate resilience into motivation and accountability structures



COMMISSIONER'S ORDER

NUMBER 202006

STATE OF WASHINGTON
DEPARTMENT OF NATURAL RESOURCES

Hilary S. Franz, Commissioner of Public Lands

COMMISSIONER'S ORDER ON CLIMATE RESILIENCE

WHEREAS Washington is experiencing impacts related to a changing climate including health effects from wildfire and wildfire smoke; threats to salmon and orca and other wild stock; infrastructure damage from coastal flooding and changes in precipitation; impacts to agriculture and municipal drinking water from water shortages and drought; and threats to the coastal environment and livelihoods from sea level rise and ocean acidification; and

WHEREAS Average annual Northwest temperatures have increased 1.5°F compared to the first half of the last century (1901–1960). By mid-century in Washington state, average annual temperature is projected to increase 4.3°F to 5.8°F (relative to 1950–1999) for a low and high greenhouse gas scenario; much higher warming is possible after mid-century (Snover, et al. 2013); and

WHEREAS The primary cause of this global warming trend—increasing atmospheric carbon dioxide (CO₂) and other greenhouse gases—continues to rise, from about 280 parts per million (ppm) of CO₂ in 1750 (pre-industrial) to more than 410 ppm in 2019 (a 50 percent increase) (NOAA data accessed 2019). With the current global greenhouse gas trajectory pointing upward, local impacts are expected to become more frequent and severe (Snover, et al. 2019); and

WHEREAS As climate impacts mount, already highly impacted communities and vulnerable populations will face increasing risks; and


WHEREAS DNR's Plan for Climate Resilience identifies and prioritizes the ways in which climate change impacts our mission and responsibilities, and articulates priority responses for each program, across the agency, and at a statewide level to achieve climate resilience; and

WHEREAS For many climate resilience responses, DNR can take action within our existing resources and authorities;

NOW, THEREFORE, I hereby direct Department leadership and all staff to take all practicable steps within our existing authorities and as guided by DNR's Plan for Climate Resilience to incorporate climate change considerations into all relevant decisions, policies, procedures, and operations including, where relevant, into legal, policy, and guidance documents.

Approved on this 20th day of February, 2020.

STATE OF WASHINGTON
DEPARTMENT OF NATURAL RESOURCES


HILARY S. FRANZ
COMMISSIONER OF PUBLIC LANDS

"I hereby direct Department leadership and all staff to take all practicable steps within our existing authorities and as guided by DNR's Plan for Climate Resilience to incorporate climate change considerations into all relevant decisions, policies, procedures, and operations including, where relevant, into legal, policy, and guidance documents."

- Commissioner Hilary Franz

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Statewide systems-level needs and opportunities:

1. Establish an interagency climate resilience leadership structure
2. Provide state-supported climate impacts projections to support risk assessment, planning, and regulatory systems
3. Establish mechanisms for funding and financing resilience investments
4. Support and facilitate community-level resilience planning and implementation
5. Enhance education, outreach, and engagement on resilience needs and opportunities



Next steps

- Complete program-specific strategies
- Prepare for 2021 legislative session and budget needs
- Participate in and advance partner efforts





Local Scale Action

Tracy Yount, Chelan PUD

Mike Kaputa, Chelan County Natural Resources Dept.

Amy Snover, UW CIG



Breakout Groups

If you don't see your name, or if you want to change your topic, use the chat feature to write which topic you want to join!

WILDFIRE

Todd Welker
Kelli Scott
Mick Lamar
Patrick Haggerty
Tracy Yount
Sara Rolfs
Alexis Flores

FLOODS

Dan Sutton
Kevin Overbay
Steve Croci
Jason Detamore
Josh Jorgensen
Ben Silver

SNOWPACK LOSS

Brian Brett
Curt Soper
Joan Qazi
Ryan Rodruck
Scott Bailey
Mike Cushman

INSTREAM FLOWS

| | |
|-------------------|---------------|
| Amelia Marchand | Rufus Woods |
| Carl Florea | Sharon Waters |
| Carmen Andonaegui | Lisa Grueter |

WATER SUPPLY

| | |
|----------------|---------------|
| Brandt Cappell | Bob Bugert |
| Jim Brown | Mike Kaputa |
| Lilith Vespier | Keith Goehner |



5-minute Break



Breakout Groups



Addressing Climate Risks

- Wildfire
- Floods
- Snowpack
- Instream flows
- Water supply (potable and irrigation)



Key Questions

- **What are the key resilience initiatives** that everyone in the community should know about and that would most benefit from county-wide coordination?
- **Is anything being done** about it, and if so, what should everyone in the community know about?
- **What is needed** to advance these key initiatives?



Join Breakout Group

- When you see the prompt on your screen, click to **Join Breakout Room**



Reconvene & Discuss



Poll



Next Steps





Thank you!

