



Siskiyou Streamside Protections Review: Progress Report

Oregon Board of Forestry, 9 January 2018

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Outline

- **ODF:**
 - **Adaptive Management, Board Direction**
 - **Systematic Review (SR)**
 - **Outreach/Inclusion Efforts**
 - **Input on Protocol (SR), ODF Responses**
 - **Current Status**
 - **Next Steps & Timeline**
- **Contextual Information: DEQ**
- **Contextual Information: ODFW**
- **Public comment**
- **Board discussion & questions**

Monitoring 101



Foundation

- Forest Practices Act (FPA)
- Board policy

Guidance: Board-approved Monitoring Strategy

Why review streamside protections in the Siskiyou regions?



2016 Monitoring Strategy and Board Direction

- Develop riparian monitoring questions – E. Oregon and Siskiyou regions
- Estimate timelines and cost to address these questions
- Work with stakeholders and tribes



Why review streamside protections in the Siskiyou regions?



Oregon Board of Forestry direction (March 2018)

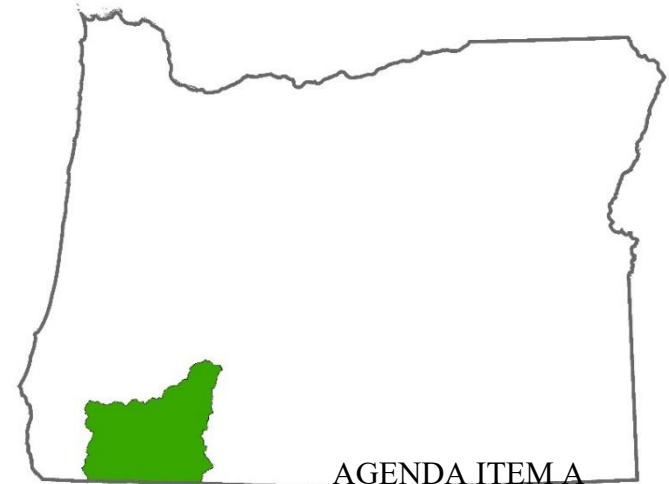
What: Effectiveness of streamside protections to achieve desired future condition (DFC) and stream temperature goals

Where: Siskiyou; small and medium Fish

How: Use literature review

Provide contextual info on:

- Fish status and trend (ODFW)
- Water quality evaluations (DEQ)



AGENDA ITEM A

Attachment 3

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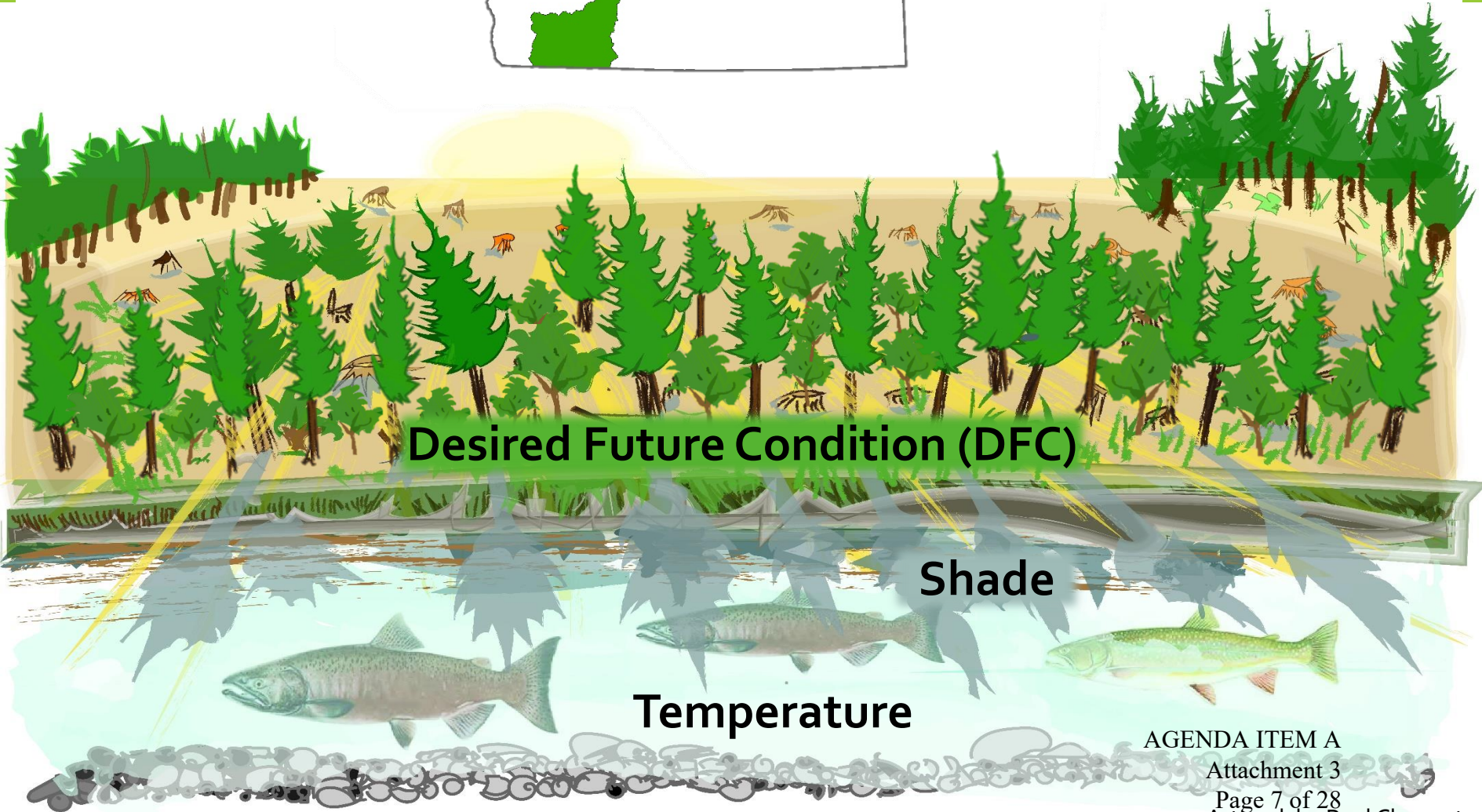
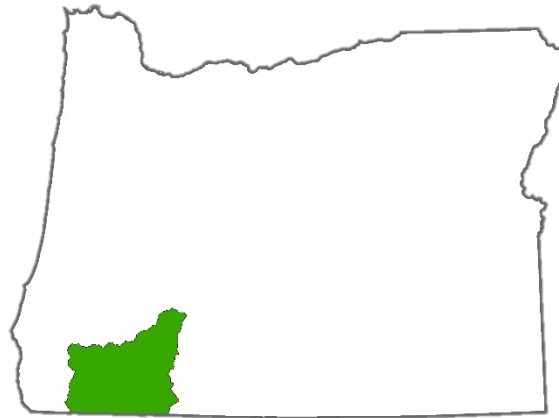


Eventual Board decision

- The FPA or rules are working as designed
- FPA or rules may not meet stated objectives
- Additional study is warranted
- No action is needed

Topics

Small & Medium Fish Streams



Desired Future Condition (DFC)

Shade

Temperature

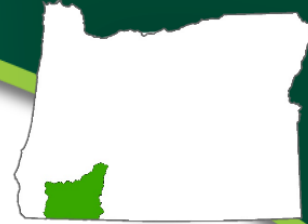
AGENDA ITEM A

Attachment 3

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Artwork by Paul Clements

Siskiyou Systematic Review



What is the effectiveness of FPA buffers to meet DEQ water quality standards for **stream temperature**?

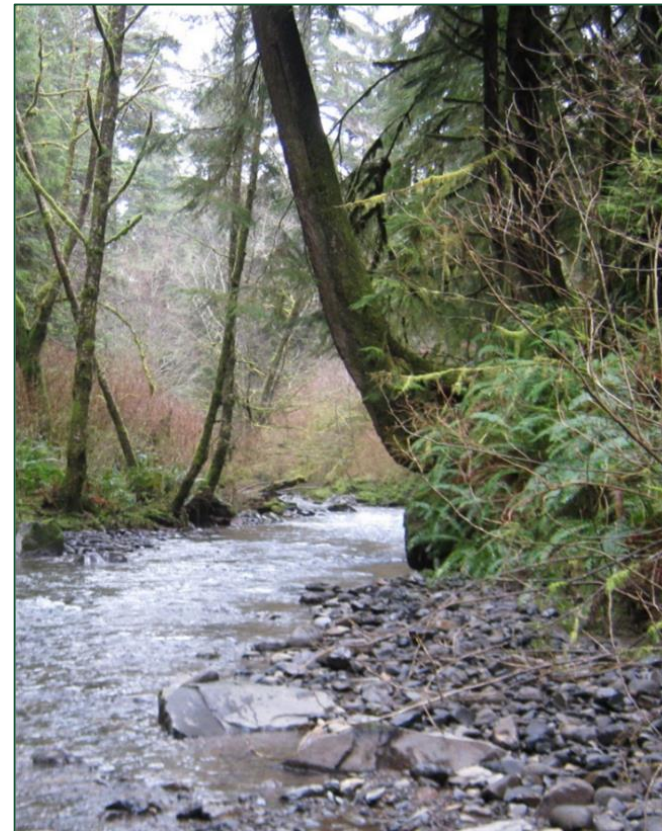
What is the effectiveness of FPA buffers in achieving the **desired future conditions** of streamside forests?

- Shade

Systematic Review



- Type of literature review
- Systematic methods
- Critically evaluate studies
- Extract and synthesize information



Systematic Review



Why use Systematic Literature Reviews?

Protocol: Rigorous & repeatable

- Search methods
- Literature inclusion criteria
- Data synthesis

Input from interested parties

Siskiyou Streamside Protections Review:

What's happened so far

- Developed & sent out protocol
- Received & incorporated feedback
- Literature search
- Filtering of literature
- Sent out inclusion list
- Reviewing response to inclusion list
- Outreach





Interested parties include:

- Association of Oregon Loggers
- Committee for Family Forestlands
- Freshwater Trust
- National Oceanic and Atmospheric Administration - Fisheries
- Oregon Dept. of Environmental Quality
- Oregon Dept. of Fish and Wildlife
- Oregon Forest and Industries Council
- Oregon Small Woodlands Association
- Oregon Stream Protection Coalition
- Regional Forest Practices Committees
- Rogue Riverkeeper
- Tribes
- US Environmental Protection Agency
- Watershed Councils *and more...*

Outreach Examples



- 2 days
- Weyerhaeuser
- ODF Southwest Stewardship Foresters
- Tour of Siskiyou Streams

Visit to Siskiyou

OSU Extension- Agency Open House



- Presented to local landowners

Webinar



The screenshot shows a video player on the left with two video thumbnails. The main slide content includes the Oregon Department of Forestry logo, a pine branch graphic, and the following text:

Oregon Dept. of Forestry
Streamside Protections Reviews:
Western Oregon and Siskiyou

Network of Oregon Watershed Councils Webinar, 6 December 2018

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The video player interface at the bottom shows a play button, a 10-second skip button, a progress bar at 03:04, and a 40:43 duration with a speaker icon.

- Network of Oregon Watershed Councils
- Dec 6th

Input on Systematic Review Protocol



Received comments from 18 entities – Thanks!
ODF responses aggregated by themes

<u>Stakeholder/Tribal Input</u>	<u>ODF response</u>
TMDLs should be included	Contextual info provided by DEQ
Fish should be focus	Contextual info provided by ODFW
Geographic scope should be different	Board policy decision

Input on Systematic Review Protocol



<u>Stakeholder/Tribal Input</u>	<u>ODF response</u>
Address impacts of Climate change	No policy in FPA, thus lack way to measure success
Address disturbance (fire, flood)	Analysis focuses on general R_x , not alternative R_x
Include functional outputs, especially large wood	-Out of scope (Board direction)

Note: text in red indicate changes to the protocol



Input on Systematic Review Protocol

<u>Stakeholder/Tribal Input</u>	<u>ODF response</u>
Confounding factors require rigorous analysis	-Rigorous analysis beyond scope -But, qualitative discussion
Restrict scope to FPA buffers	Non-FPA buffers bracket FPA buffers
Unmanaged stands skew assessment of DFC	Knowledge gaps; unmanaged stands bracket range of outcomes
How address "...on avg. over time and across landscape..."	-Added figure re: time -Across landscape= throughout Siskiyou

Note: text in red indicate changes to the protocol



Input on Systematic Review Protocol

<u>Stakeholder/Tribal Input</u>	<u>ODF response</u>
Define “similar” for managed vs. mature stands	Added criteria for comparison
Don’t use adaptive approach to modify SR protocol	-Any changes documented - Won’t change review scope, purpose
Peer-reviewed articles only	-Other types valid -Would restrict useful info -Address via quality & relevance

Note: text in red indicate changes to the protocol

Status of Systematic Review



Number of studies that meet criteria (1/9/2019)

Stream Temperature (Objective 1)	Mature Streamside Stands (Objective 2)	Managed Streamside Stands (Objective 3)
9	10	2 (0 for FPA)

Note: Some studies meet:

- multiple criteria
- have more than 1 paper meeting inclusion criteria

->Table represents 15 papers from 12 studies.



Next Steps & Timeline

Stakeholders and Tribes

- Feedback on which studies included in review (Jan. 2019)
- Feedback on draft Systematic Review report (late winter 2019)
- Public comment at Board meeting (spring/summer 2019)

Board

Decide on one of following (spring/summer 2019):

- The FPA or rules are working as designed
- FPA or rules may not meet stated objectives
- Additional study is warranted
- No action is needed



Board questions and discussion



Next:

Contextual Information: DEQ
Contextual Information: ODFW
Public comment
Board discussion & questions



Relationship between Commission & Board

- Oregon statutes create a unique cooperative relationship between the Board and the EQC that ensures water quality protection on forestland
- The EQC has primary responsibility for complying with the federal Clean Water Act (CWA), and
- The BOF has exclusive responsibility for regulating forest practices
- Providing each body with a formal process to request that the other consider its concerns





Oregon Department of Fish and Wildlife



Public Comment



Next Steps & Timeline

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Board discussion and questions