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

Network of Oregon Watershed Councils Webinar, 6 December 2018

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Presentation Outline

• Who we are and what we do
• Topics of projects
• Western Oregon
• Siskiyou
• Timelines and Next steps
• Questions/Discussion
Oregon Department of Forestry

- Administers Forest Practices Act (FPA)
- Works with landowners and operators
- Actively manages State Forests
- Fire Protection program
- J.E. Schroeder Seed Orchard
- Effectiveness and implementation monitoring
ODF Monitoring Unit:
Who we are

Terry Frueh
Marganne Allen
Ariel Cowan
John Hawksworth
Adam Coble
Why Monitor?

- Expectations
  - Forest Practices Act (FPA)
    - Statute, policy
    - ORS 527.710 (7)
- Emphasis
  - Collaboration
  - Continuous learning
  - Adapting to new science
Potential Board of Forestry responses:

- FPA rules work as designed
- FPA rules may not meet stated objectives
- Additional study warranted
- No action needed
Monitoring

• **Implementation**
  – Reforestation Study

• **Effectiveness**
  – Western OR streamside protections review
  – Siskiyou streamside protections review
Background on Desired Future Conditions

• Desired Future Condition (DFC):
  “...to grow and retain vegetation so that, over time, average conditions across the landscape become similar to those of mature streamside stands.”

• Mature streamside stands
  – Often conifer dominated
  – Age: 80-200 yrs old
  – Provide multiple functions
Western OR Streamside Protections Review:
Are FPA rules effective in achieving the goals for desired future conditions and large wood?

Western Oregon

Desired Future Conditions
Large Wood

Systematic review
Field data analysis
Modeling analysis

W. Oregon Desired Future Conditions
Systematic review
Field data analysis
Modeling analysis - TBD
Western OR
Streamside Protections Review

Why use Systematic Literature Reviews?

Protocol: Rigor & repeatability
  • Search methods
  • Literature inclusion criteria
  • Data extraction and synthesis

Methodical input from interested parties
Western OR Streamside Protections
Review: *Systematic Review*

**DFC**
- Forest management and desired future condition (DFC)
- Range of DFC conditions
- Species composition
- Regeneration

**Large Wood**
- Forest management and large wood recruitment
- Range of large wood
- What is considered ‘abundant large wood’?
Western OR Streamside Protections

Review: *Field Data Analysis*

**ODF ‘RipStream’ Protocol Questions**

1. Trends in overstory & understory
2. Trends in regeneration
3. Large wood recruitment to streams & riparian areas

**ODF ‘RipStream’ study**

- 33 sites (Coast Range), Small & Medium F streams
- Pre- and post-harvest data
Western OR Streamside Protections Review: *Modeling*

- Scope and role of modeling analysis *(In progress)*
  - Stand growth, mortality, and regeneration
  - Large wood recruitment?

- Obtain more information (Request for Information):
  - What models? Timeline? Cost?
  - Help Board to make decision about modeling
Western OR:

• **Completed Items**
  – Timelines developed
  – Outreach: stakeholders and tribes, partner agencies
  – Field Data Analysis: Overview of methods and analysis
  – Revised based on stakeholder and tribal feedback

• **Next Steps**
  – Complete Data Analysis (Spring 2019)
  – Compile stakeholder feedback from RFI (Spring 2019)
  – Present findings to the Board and options for modeling (Fall 2019)
Harvest type (% of harvest notifications)
Siskiyou Streamside Protections Review

Desired Future Condition

Temperature & Shade

Siskiyou Region

Contextual Info:
- Fish status/trend
- Water quality eval.

Temp./Shade Science Review

Desired Future Condition Science Review
Are FPA rules effective in achieving the goals for **stream temperature and shade**?

- Meets DEQ water quality standards?

- Shade similar to that of mature streamside stands?
Are FPA rules effective in achieving the goals for desired future conditions of riparian forests?

- Range of DFC conditions in Siskiyou mature streamside stands
- Understory & overstory comparison
- Regeneration composition
Siskiyou Streamside Protections
Review: *Contextual Information*

- **DEQ**
  - Total Maximum Daily Load (TMDL)
  - Temperature, shade, riparian forest information

- **ODFW**
  - Fish status & trend
  - Shade, riparian forest information
Siskiyou:

• **Completed Items**
  – Timelines developed
  – Outreach: stakeholders and tribes, partner agencies
  – Systematic review protocol (Siskiyou)
  – Revised based on stakeholder and tribal feedback
  – Initial searching and filtering

• **Next Steps**
  – Update to Board of Forestry with contextual information: Jan 9 2019
  – List of studies included/request for studies
  – Present findings to Board: April 2019
Send us studies to consider for the Siskiyou Review!

Criteria we use for including studies in systematic literature review:

- In Siskiyou or nearby part of N. California
- Setting: forests next to small, medium streams
- Methods are written up
- Data on streamside forest conditions, shade, or stream temperature

Can be unpublished as long as it meets criteria.
Questions?

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