Western Oregon State Forests HCP

July 13, 2020
Remote Participation Tips

- Use the webinar link to view and participate in the webinar. Use computer or phone for audio.
- Put yourself on mute when not speaking (phone & webinar platform)
- If you have a question or comment, use the “Raise Your Hand” button to get in the queue to speak
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- The meeting will include time for Q&A and input. You can provide comments verbally or by email to Jason.R.COX@oregon.gov
Participants (50)

- Sylvia Ci... (Me, participant ID: 58)
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- 12153272884
- adam saslow
- Ben Gettleman
- dnudelman
- Jack Hughes

Zoom Group Chat

From Me to Everyone:
Where can I find the agenda for the meeting?

To: Everyone
Type message here...
How to Rename Yourself

1) Choose
   SPEAKER VIEW or
   GALLERY VIEW

2) Adjust video and shared document size
Introductions and Welcome
1. Introductions and Welcome
2. Updates on HCP
3. Conservation Strategies
   1. Aquatic Modeling
   2. Terrestrial Modeling
4. Forest Management Modeling Update
5. Summary and Next Steps
6. Additional Discussion Time
HCP Program Update
• Oregon Coast coho
• Lower Columbia River coho
• Oregon Coast spring chinook*
• Upper Willamette River spring chinook
• Upper Willamette River winter
• Lower Columbia chum
• South Oregon/Northern California
• Lower Columbia chinook
• Eulachon

• Oregon slender salamander*
• Columbia torrent salamander*
• Cascade torrent salamander*

• Northern spotted owl
• Marbled murrelet

• Red tree vole*
• Coastal marten*

*Species that are not currently listed under the endangered species act
Does the process graphic with chapters work here?
Q&A on HCP Update

Please click “Raise Your Hand” in the webinar to ask a question or make a comment.

You may also email comments to Jason.R.COX@oregon.gov
Riparian Conservation Strategy

▪ Riparian Conservation Area
▪ Road System Management
▪ Restoration
Focus on Key Processes

- Instream habitat
  - Primarily wood recruitment
- Stream temperature
- Sediment delivery

Riparian Conservation Areas (RCA)

- Tiered buffering approach
  - Stream type
  - Minimum buffer widths
  - Horizontal distance
- Little to no management
  - Standard Practices
  - Exceptions (annually reported)
  - Meet and Confer
Horizontal Distance and Aquatic Zone

If the horizontal buffer is 120', the corresponding distance along a 70% slope will be 146'.
### Table 4-3. Minimum Buffer Widths (Horizontal Distance) for All Type F and Large and Medium Type N Streams

<table>
<thead>
<tr>
<th>Stream Type</th>
<th>Minimum Management Area Width (feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Type F</td>
</tr>
<tr>
<td>Large</td>
<td>120</td>
</tr>
<tr>
<td>Medium</td>
<td>120</td>
</tr>
<tr>
<td>Small</td>
<td>120</td>
</tr>
<tr>
<td>Seasonal(^a)</td>
<td>50</td>
</tr>
</tbody>
</table>

\(^a\) Seasonal: A stream that does not have surface flow after July 15.

### Table 4-4. Minimum Riparian Conservation Area Widths (Horizontal Distance) for Small Perennial and Seasonal Type N Streams

<table>
<thead>
<tr>
<th>Stream Type</th>
<th>Minimum Management Area Width (feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Within 500-foot Temperature Zone</td>
</tr>
<tr>
<td>Perennial Small Type N</td>
<td>120</td>
</tr>
<tr>
<td>Potential debris flow track (Seasonal Type N)(^a)</td>
<td>50</td>
</tr>
<tr>
<td>High energy (Seasonal Type N)(^b)</td>
<td>50</td>
</tr>
<tr>
<td>Seasonal other (Type N)(^c)</td>
<td>0</td>
</tr>
</tbody>
</table>

\(^a\) Potential debris flow tracks: Reaches on seasonal Type N streams that have a high potential of delivering wood to a Type F stream.

\(^b\) High Energy: Reaches on seasonal Type N streams that have a high potential of delivering wood and sediment to a Type F stream during a high-flow event.

\(^c\) Seasonal: A stream that does not have surface flow after July 15.
Objectives of Aquatic Modeling

- Biological goals and objectives focus on:
  - Instream habitat structure (wood recruitment)
  - Water quality and quantity (wood recruitment and stream temperature)

- Wood recruitment modeling by source
  - Adjacent riparian tree fall
  - Landslides and Mass wasting events

- Temperature sensitive stream reaches

- In both cases aim to determine if riparian conservation strategy achieves BGOs
  - RCA buffer widths (horizontal distance)
  - ODF forest inventory data, grown forward
  - Random tree fall
  - Calibrated to the 1996 flood event
Results of Aquatic Modeling

- **Wood recruitment**
  - RCAs captures 99% of available wood
  - 88% of from standing trees in Type-F buffers
  - 12% of total wood is recruited from debris flows
  - 45% of the non fish-bearing streams deliver wood to fish-bearing streams

- **Temperature**
  - Streams with a southern aspect
  - Maximum channel width of 36’
  - 67 stream miles (0.85% of total) within the permit are susceptible to warming
Terrestrial Conservation Strategy

Habitat Conservation Area

- Protecting
  - Known occurrences
  - Highly suitable habitats
  - Landscape connectivity

- Active management
  - Increase quantity and quality of habitat over the permit term
Boundaries of HCAs:

- Protecting most currently active sites
  - Northern spotted owl activity centers
  - Marbled murrelet occupied habitat
  - Red Tree Vole nests

- Protecting historic NSO sites
  - Record of reproduction
  - Record of consistent occupancy

- Suitable habitat
  - Incorporates majority of highly suitable habitat

- Connectivity
  - Areas that provide for movement across the landscape
  - Improving areas of current low suitability to create larger suitable patches
Management Activities

▪ Management focus
  o Aligned with Biological Goals and Objectives
  o Management increases the quantity and quality of habitat over the permit term

▪ Silvicultural Treatments
  o Density management to promote growth in young stands – large trees, canopy diversity
  o Selective harvests employing variable retention to promote horizontal diversity and patch dynamics
    – Treatments localized disease (e.g. *Phellinus weirii*)
  o Regeneration of stands with low potential to develop habitat for covered species
    – Swiss Needle Cast infected stands
    – Hardwood stands that lack conifer

▪ Implementation of Activities
  o Pace and scale of activities being determined
  o Primarily early in permit term
HCA Size and Distribution

- Exact configuration of HCAs still being evaluated and refined

<table>
<thead>
<tr>
<th>Permit Area Acres</th>
<th>273,000 to 289,000</th>
</tr>
</thead>
<tbody>
<tr>
<td>North Coast</td>
<td>214,000 to 226,000</td>
</tr>
<tr>
<td>Willamette Valley</td>
<td>34,000 to 36,000</td>
</tr>
<tr>
<td>Southern Oregon</td>
<td>25,000 to 27,000</td>
</tr>
</tbody>
</table>

- Size of HCAs vary across Permit Area

### Summary of HCA Acres

<table>
<thead>
<tr>
<th>Number of HCA by Size Class (Acres)</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt; 50</td>
</tr>
<tr>
<td>50-100</td>
</tr>
<tr>
<td>100-500</td>
</tr>
<tr>
<td>500-1,000</td>
</tr>
<tr>
<td>1,000 - 5,000</td>
</tr>
<tr>
<td>5,000 - 10,000</td>
</tr>
<tr>
<td>&gt; 10,000</td>
</tr>
</tbody>
</table>
HCA Suitable Habitat

- Habitat suitability models
  - Used existing published models for:
    - Northern spotted owl
    - Marbled murrelet
    - Red tree vole
    - Oregon slender salamander
  - Adapted to inventory metrics
  - Reviewed by model authors

- Current Suitable Habitat in HCAs:

<table>
<thead>
<tr>
<th>Species</th>
<th>Highly Suitable</th>
<th>Suitable</th>
</tr>
</thead>
<tbody>
<tr>
<td>NSO</td>
<td>97%</td>
<td>59 – 63%</td>
</tr>
<tr>
<td>MM</td>
<td>96 – 97%</td>
<td>69 – 74%</td>
</tr>
<tr>
<td>RTV</td>
<td>76 – 81%</td>
<td>59 – 65%</td>
</tr>
<tr>
<td>OSS</td>
<td>65 – 69%</td>
<td>40 – 43%</td>
</tr>
</tbody>
</table>
HCA and RCA

- HCA and RCA are complimentary
- All covered species benefit from both
  - 12% of Permit Area in HCA
  - 46% of RCA is within HCA

Total Combined HCA and RCA (to nearest 1,000 acres)

<table>
<thead>
<tr>
<th>Permit Area</th>
<th>315,000 to 331,000</th>
</tr>
</thead>
<tbody>
<tr>
<td>North Coast</td>
<td>250,000 to 261,000</td>
</tr>
<tr>
<td>Willamette Valley</td>
<td>38,000 to 41,000</td>
</tr>
<tr>
<td>Southern Oregon</td>
<td>27,000 to 29,000</td>
</tr>
</tbody>
</table>
Q&A and Discussion on Conservation Strategies

Please click “Raise Your Hand” in the webinar to ask a question or make a comment.

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Policy-level Forest Management Modeling
▪ Used to support decision making by ODF and Board of Forestry

▪ Enough detail to understand anticipated HCP outcomes

▪ Informs effects analysis on species

▪ Modeled across all ODF Managed lands in the permit area, using sub-geographic area
Model Outputs to be Evaluated

- Timber Harvest Volume
- Revenue Generated
- Forest Inventory Over Time
- Covered Species Habitat Quantity & Quality
- Carbon Storage
Anticipated Outcomes for Timber Harvest

- Harvest volumes are avg. over permit term (70 years)

<table>
<thead>
<tr>
<th>Permit Area</th>
<th>196 to 206 MMBF</th>
</tr>
</thead>
<tbody>
<tr>
<td>North Coast</td>
<td>146 to 153</td>
</tr>
<tr>
<td>Willamette Valley</td>
<td>30 to 32</td>
</tr>
<tr>
<td>Southern Oregon</td>
<td>20 to 21</td>
</tr>
</tbody>
</table>

- Final modeling includes final HCA configuration and refinements to the forest management model
Q&A
Forest Management Modeling

Please click “Raise Your Hand” in the webinar to ask a question or make a comment.
Summary and Next Steps
• Working with Scoping Team on HCP Technical Elements

• Refining effects analysis
  ▪ Policy-level forest management modeling
  ▪ Terrestrial species habitat quality

• Refining Conservation Actions

• Discussing Monitoring, Adaptive Management, and Implementation

• Refining iterations of policy-level forest management modeling
County Engagement

- Forest Trust Land Advisory Committee
- ODF & HCP Project Team continues to engage County Commissioners
Upcoming Stakeholder Engagement

- Early August – Joint Stakeholder Meeting
- September 16 from 1-4pm – Meeting Open to the Public
- Late September – Joint Stakeholder Meeting
Discussion

This is an opportunity for further discussion on any topics presented at today’s meeting.

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Western Oregon State Forests HCP

More Information
https://www.oregon.gov/ODF/AboutODF/Pages/HCP-initiative.aspx

Contact
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Thank You!