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OFFICE OF THE COMMISSIONER OF PUBLIC LANDS

Washington State Department of Natural Resources

Adaptive Management Program

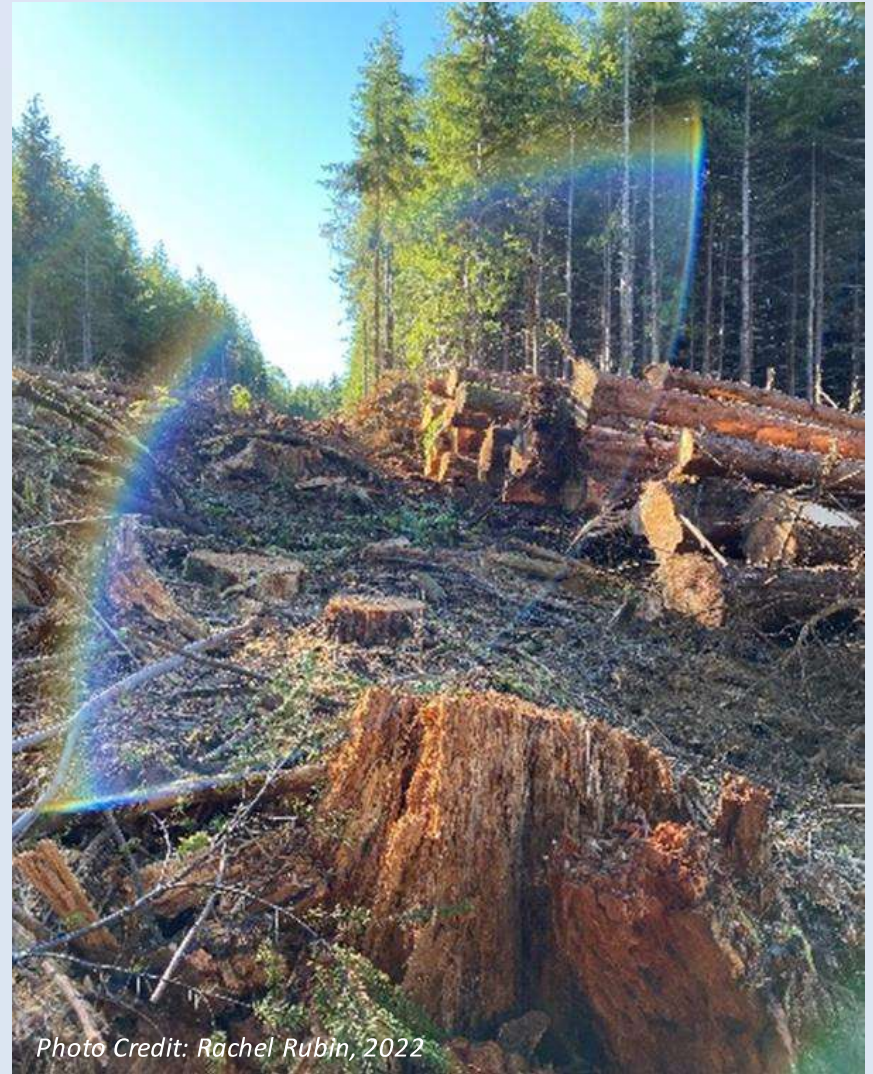
Lori Clark

Adaptive Management Program Administrator
Washington State Department of Natural Resources



Timber/Fish/Wildlife Agreement

- Stakeholders work together to develop statewide forest practice rules
- Representatives from Tribes, government agencies, environmental organizations, and logging industry
- Decisions are consensus based
- Relies upon best available science and robust research



Goals of the Forests and Fish Agreement

- Provide compliance with the Endangered Species Act for aquatic and riparian-dependent species
- Restore and maintain riparian habitat to support a harvestable supply of fish
- Meet the requirements of the Clean Water Act
- Keep the timber industry economically viable in the state of Washington



Forest Practices Habitat Conservation Plan (HCP)

- 9.3 million acres
 - 60,000 miles of streams
 - 6.1 million acres are located west of the crest of the Cascade Range
 - 3.2 million acres in eastern WA
- State and private forest lands
- All fish at all life stages
- Relies heavily upon robust Adaptive Management Program



Adaptive Management Program

WAC 222-12-045 states in part the adaptive management program is...to provide science-based recommendations and technical information to assist the board in determining if and when it is necessary or advisable to adjust the rules and guidance for aquatic resources to achieve resource goals and objectives. The board may also use the program to adjust other rules and guidance.



What is Adaptive Management?

- Iterative process of robust decision making in the face of uncertainty, with an aim to reduce uncertainty via monitoring.
- Systematic approach for improving resource management → 'learning by doing'



Cooperative, Monitoring, Evaluation and Research Committee (CMER) Participants

- Industrial private timber landowners
- Nonindustrial private timber landowners
- County governments
- Western Washington tribal governments
- Eastern Washington tribal governments
- State Department of Natural Resources
- State departments of Ecology and Fish & Wildlife
- Federal departments of Fish and Wildlife, Marine Fisheries Service, and Environmental Protection
- Environmental community



Desired Outcomes of the Forest Practices AMP

- **Certainty of change** as needed to protect targeted resources
- **Predictability and stability** of the process of change so that landowners, regulators, and interested members of the public can anticipate and prepare for change
- Application of **quality controls** to study design and execution and to the interpreted results



Projects completed July 2001-May 2023 by Rule Group

■ Type N Riparian

■ Type F

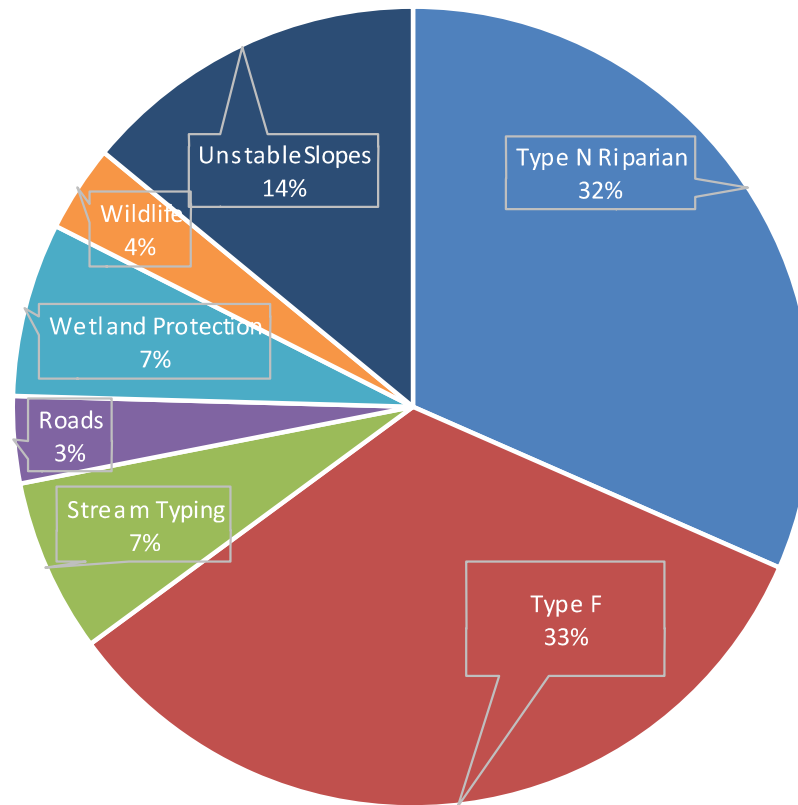
■ Stream Typing

■ Roads

■ Wetland Protection

■ Wildlife

■ Unstable Slopes



Scoping

Study Design

Implementation

Water Temperature and Amphibian Use in Type Np Waters with Discontinuous Surface Flow Project

Eastside Forest Health Strategy

Extensive Riparian Status and Trends Monitoring- Vegetation and Stream Temperature, Type F/N- Westside and Eastside

Wetlands Management Zone Effectiveness Monitoring

(Photo credit: R. Peters)



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**Unstable Slope Criteria Empirical
Evaluation of Shallow Landslide
(1) Susceptibility, Frequency, and
(2) Runout by Landform projects**

**Deep-Seated Landslide Research
Strategy Landslide Mapping and
Classification Project**

**Evaluation of physical
features that define fish
habitat in forested
landscapes (PHBs)**

**Default Physical Criteria (DPCs)
Assessment Project**

**Eastside Timber Habitat
Evaluation (ETHEP)**



Scoping

Study Design

Implementation

**Type Np Hard Rock Phase III – Amphibian
Demographics**

Forested Wetlands Effectiveness Project

**Eastside Type N Riparian Effectiveness
Project (ENREP)**

Road Prescription-Scale Effectiveness Monitoring Project

Riparian Characteristics and Shade Response Study (RCS)



A lush green forest scene with tall trees and a dense carpet of ferns on the forest floor. The lighting is soft, suggesting a shaded forest environment.

Riparian Literature Synthesis

**Westside Type F Riparian
Effectiveness Prescription
Monitoring Project**

**Unstable Slope Criteria Project
Object-Based Landform Mapping
with High-Resolution Topography
Report**



Enjoy the 2023 CMER Conference!

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<https://www.dnr.wa.gov/programs-and-services/forest-practices/adaptive-management>



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The screenshot displays the AMP Dashboard interface. The top navigation bar includes 'AMP Dashboard', 'Last updated: 8/24/2023', a search bar, and 'Help Tips'. The main content area is divided into several sections:

- ACTIVE PROJECTS:** A list of projects including 'Hard Rock Phase III', 'Extensive Monitoring', 'Riparian Literature Synthesis', 'Westside Type F', and 'Hard Rock Phase III'.
- PROJECT: EXTENSIVE MONITORING:** A detailed view of the selected project, showing its status as 'ON TRACK', current phase as 'PROJECT INITIATION', and milestones.
- DOCUMENT LIBRARY:** A section for managing project documents.
- PROJECT TIMELINE:** A vertical timeline showing the project schedule from 'JAN 1, 2022' to 'JUN 30, 2023'. Key roles listed include 'OWNER SCIENTIST: JANELLE BLACK', 'PROJECT MANAGER: ALEXANDER PRESCOTT', and 'SAG: STORMWATER AG, WETLANDS SAG'.
- PROJECT DESCRIPTION:** A section for project details and notes.
- PROJECT TEAM:** Profiles of team members: JONATHAN DEGLAND (Program Manager), JANE SMITHSON (Project), and JANE SMITHSON (Development Adaptive Management Project).
- TIMELINE:** A horizontal timeline showing the project phases: PROJECT INITIATION, SCOPING, STUDY DESIGN, IMPLEMENTATION, DATA ANALYSIS, and OTHER. An 'Associated Document' section shows 'PROJECT CHARTER', 'SCOPING DOCUMENT', and 'PROSPECTIVE QUESTIONS'.
- Phase + Milestone Timeline:** A Gantt-style chart showing the duration of various phases and milestones.
- PROJECT STATUS DETAILS:** A section for project status and details.
- BUDGET:** A section for budget management, showing 'Project Status Details' with a progress bar for 'TOTAL BUDGET TO DATE' (75%) and 'PLANNED BUDGET' (\$0.00).

At the bottom, there are 'Quick Links' for 'Policy Member Voting History', 'Project ID References', and 'Phases/Milestones Key'.

