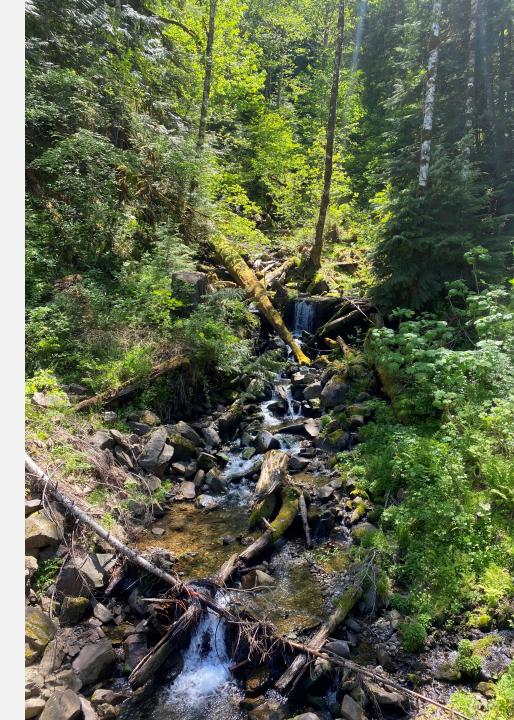
### FOREST PRACTICES COMPLIANCE MONITORING 2022-2023 BIENNIAL REPORT RESULTS

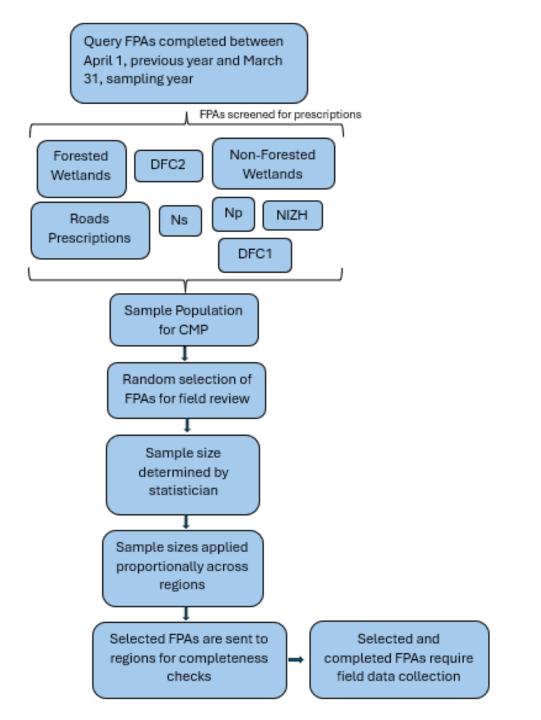
Mary Murdock Compliance Monitoring Program Manager

#### INTRODUCTION

- WAC 222-08-160(4): Are Forest Practices being conducted in compliance with the rules?
- Goal: Quantify the compliance rates of Forest Practices rules
- The 2022-2023 report involved field teams across the state consisting of Forest Practices staff, WDFW staff, Ecology staff and tribal biologist



## STUDY DESIGN



#### STUDY DESIGN

- We randomly select FPA/N across the state which contain sets of rules implementations, also known as prescriptions
- Compliance rates calculated by dividing total compliant rules by total rules evaluated for each prescription (48 compliant rules out of 50 yields 96%)





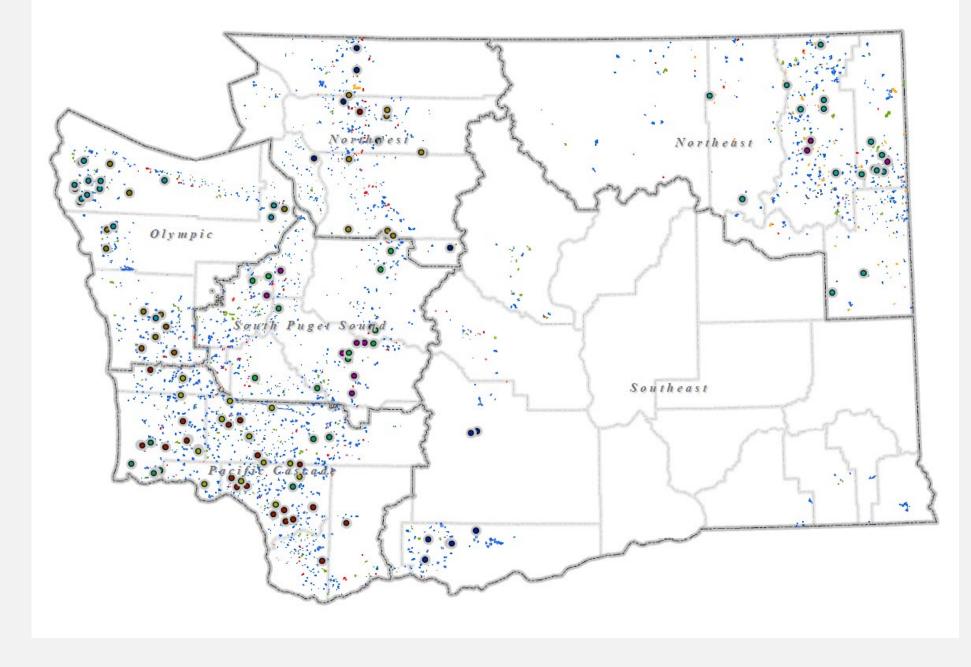
- Desired Future Condition Option I
- Desired Future Condition Option 2
- No Inner Zone Harvest
- Non-fish bearing Perennial streams
- Non-fish bearing Seasonal streams
- Type A & B Wetlands
- Forested Wetlands
- Roads
- Haul Routes for Sediment Delivery



#### 2022-2023 PERIODIC SAMPLES

- Potentially Unstable Slopes
- Aerial Spray

Dispersal of 2022-2023 field sites and FPAs



#### 2022-2023 STATEWIDE SAMPLE OVERVIEW

<b>Prescription Type</b>	Sites Assessed	FPA Population
Desired Future Condition Option I (DFCI)	11	51
Desired Future Condition Option 2 (DFC2)	9	332
No Inner Zone Harvest (NIZH)	19	1,788
Non-Fish Bearing Perennial Waters (Np)	33	1,998
Non-Fish Bearing Seasonal Waters (Ns)	33	2,050
Non-Forested (Type A and B) Wetlands	37	498
Forested Wetlands	27	436
Roads (construction/abandonment)	16	2,494
Haul Routes for sediment delivery	15	NA
Potentially Unstable Slopes	26	355

#### **REPORT HIGHLIGHTS**

- The highest rates of Rule compliance were found in non-forested wetlands (97.3%), roads (99.5%), and non-fish perennial stream (98.4%) prescriptions
- The highest rates of FPA compliance were non-forested wetlands (99.1%), non-fish seasonal streams (100%), and roads (100%)
- Trend analysis found evidence of increasing compliance trends for DFC1, DFC2, and No Harvest Inner Zone (NIZH) prescriptions



#### OVERVIEW 2022-2023 COMPLIANCE COMPARISON BY PRESCRIPTION

	<b>RMZ</b> Prescription	Rule Compliance Rate(%)	FPA Compliance Rate(%)
Statewide	No Inner Zone Harvest	96.8	94.7
	Type Np Prescriptions	98.4	96.6
	Type Ns Prescriptions	94.3	100.0
	Non-Forested Wetlands	97.3	99.1
	Forested Wetlands	98.3	97.0
	Roads	99.5	100.0
Western WA only	Inner Zone Harvest DFCI	96.7	95.0
	Inner Zone Harvest DFC2	93.8	89.2

## ROADS

Status of Compliance	Road Activities Rule Compliance
Total Number of Rules Sampled	187
Number Compliant Rules	186
Number Rules with Deviation	1.0
Bias-Corrected Compliance Percentage (%)	99.5

### HAUL ROUTES

-					Primary Cause	Mileage	Percentage of Deviation (%)
Complian	t	Deviation			Seep into ditches	0.19	33
99% (98	8-100%)	0.	77% (0-1.8%	6)	Inadequate erosion contro measures	0.16	29
No	De Minimis	Low	Medium	High	Sediment from stream- adjacent parallel roads	0.13	22
Delivery					Driven on/squashed berm	0.08	13
<b>96</b> %	2.7%	0.60%	0.18%	0.36%	Stream/spring intercepted water	0.01	3
					TOTAL	0.57	

#### POTENTIALLY UNSTABLE SLOPES

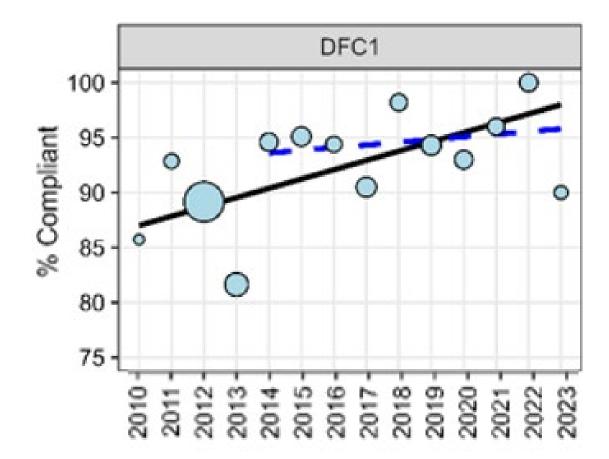
Potentially Unstable Slopes Prescription Totals	Results
Total FPAs Assessed	26
FPA Compliant Questions	73
FPA Deviation	3
Total Questions Assessed	76
<b>Bias-Corrected</b> Compliance	
Percentage (%)	96. I



### **TREND ANALYSIS**

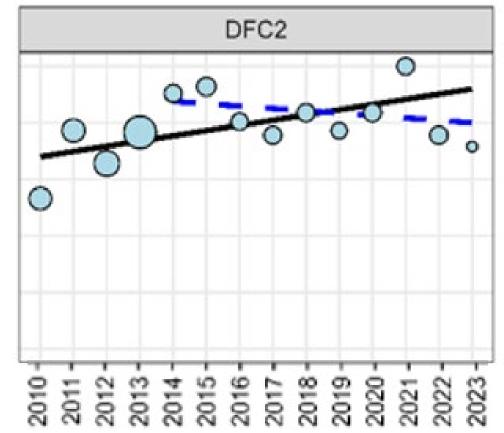
- There is evidence of increasing compliance trends in DFC1, DFC2 and NIZH prescriptions, with estimated average increases in compliance rates from 0.4 to
  0.9% per year over the 2010-2023 period.
- There has been no significant decrease in rates of compliance with FP rules





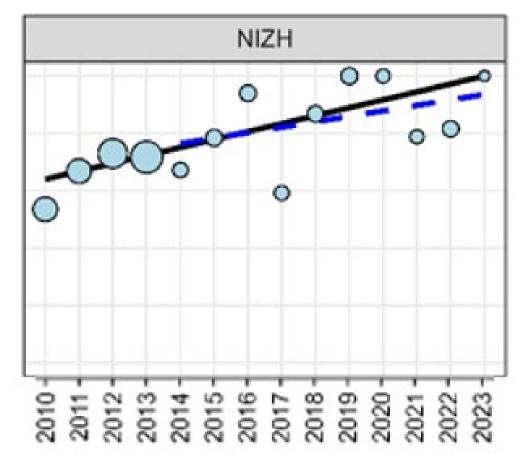












#### FOREST PRACTICES OPERATIONS USE OF THE RESULTS

- High compliance rates on rules
- Rule implementation and enforcement is working
- Operations productively and deliberately continue to make improvements



# RECOMMENDATIONS

- Provide learning opportunities for landowners and DNR staff about fish-associated wetlands
- Changes to Appendix G:Type Np RMZ Worksheet
- Inclusion of periodic samples in spring sampling
- Development of potentially unstable slopes sampling protocols by FP Science Team LEGs
- Comparative visitation to non-fish seasonal streams and wetlands in different seasons
- Sample a larger proportion of wetlands