Ad-hoc Coastal Steelhead Advisory Group: September 12 Meeting

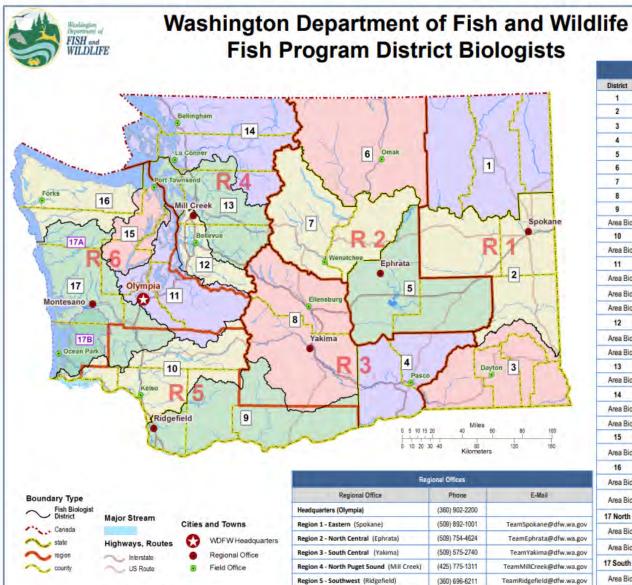
WDFW Fish
Management &
Triangle Associates



Welcome & Updates

- Meeting purpose and agenda
- Action item review
- Test fishery update
- Co-manager communications
- Public Input





Region 6 - Coastal (Montesano)

(360) 249-4628

Fish Program Biologists District Contact Counties/Rivers Phone			
1	Bill Baker	Ferry, Pend Oreille, Stevens	(509) 563-5499
2	Randy Osborne	Lincoln, Spokane, Whitman	(509) 892-1001 x302
3	Jeremy Trump	Walla Walla, Asofin, Columbia, Garfield, Snake R	(509) 382-1005
4	Paul Hoffarth	Benton, Franklin	(509) 545-2284
5	Michael Schmuck	Adams, Grant	(509) 398-7531
6	Ryan Fortier	Okanogan	(509) 997-0316
7	Travis Maitland	Chelan, Douglas	(509) 665-3337
8	Marc Divens	Kititas, Yakima	(509) 457-9301
9	Matt Gardner	Clark, Klickitat, Skamania	(360) 906-6746
Area Bio	(Vacant)	Same as above	(000) 000 0740
10	Josua Holowatz	Cowlitz, Lewis, Wahkiakum, except Chehalis R	(360) 906-6771
Area Bio	(Vacant)	Same as above	
11	Gabe Madel	Thurston, Pierce, E. Kitsap, S. Mason	(360) 902-2670
Area Bio	Bill Evans	Salmon / Steelhead stock assessment D11 & D15	(360) 902-2726
Area Bio	(Vacant)	Pierce, S Mason, E Kitsap, Vashon, Bainbridge Is	
Area Bio	Riley Freeman	Nisqually R, Thurston, S Sound tribs	(360) 810-0724
12	Aaron Bosworth	Green R. Cedar R. Sammamish R	(425) 775-1311 x10
Area Bio	Joe Short	Lake Washington	(425) 775-1311 x12
Area Bio	Nathanael Overman	Green R	(425) 775-1311 x11
13	Pete Verhey	Stillaguamish, Snohomish Basins, Whidbey Is	(425) 775-1311 x10
Area Bio	Catherine Morello	Stillaguamish, Snohomish Basins	(425) 775-1311 x30
14	Andrew Fowler	Skagit Basin N to Canada, San Juan Is	(360) 466-4345 x23
Area Bio	Julie Klacan	Nooksack R, drainages N to Canada	(360) 466-4345 x27
Area Bio	(vacant)	Skagit R	(300) 400-4343 X27
15	Mark Downen	Hood Canal, E Straits, E Jefferson, N Mason, W Kitsap	(360) 202-7005
Area Bin	Rick Freth	Skokomish R. Hood Canal	(360) 427-2003
16			(360) 302-3030 x32
	Jenni Whitney	Clallam, W Jefferson (Dungeness to Queets R) Same as above	
Area Bio	Kathryn Sutton	Same as above	(360) 878-4758 (360) 302-3030 ext.
Area Bio	Randy Cooper	Same as above	305
17 North	Mike Scharpf	Chehalis R. Grays Harbor to Queets R	(360) 870-9175
Area Bio	Curt Holt	Same as above	(360) 249-1212
Area Bio	Kim Figlar-Barnes	Same as above	(360) 249-4628 x 23
17 South	Jody Pope	Willipa Bay and tribs, Pacific	(360) 660-2978
Area Bio	Barbara McClellan	Same as above	(360) 249-1213
Area Bio	Lyle Jennings	Same as above	(360) 249-4628 x 27



https://wdfw.wa.gov/sites/default/files/2021-11/wdfw fish district bios.pdf

TeamMontesano@dfw.wa.gov

Revision date: November 15, 2021



Larger Team

- District 16: Jenni
 Whitney, Kathryn
 Sutton, Randy Cooper
- District 17 North: Mike
 Scharpf, Curt Holt, Kim
 Figlar-Barnes
- District 17 South: Jody
 Pope, Barb McClellan
- Amy Edwards, Stock Assessment Biologist





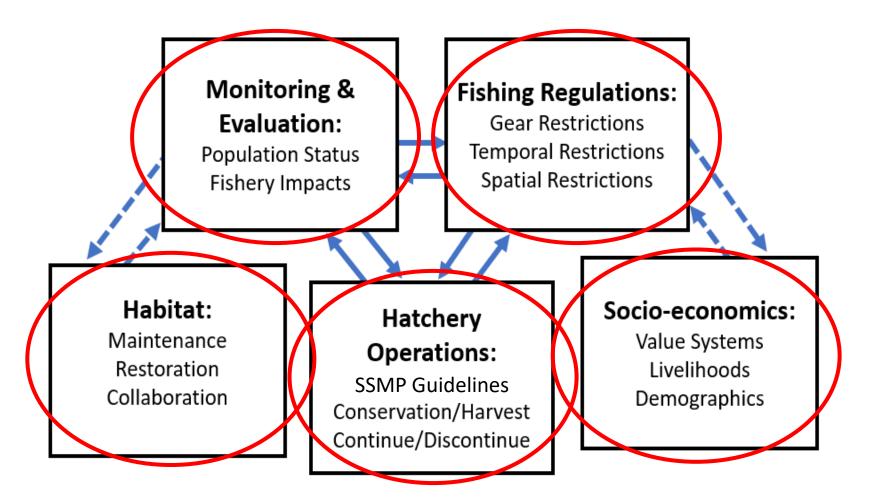
Larger Team

- Science Division:

 Fish Science,
 Quantitative
 Modeling, HEAT Unit
- Habitat Division
- Olympic National Park
- NOAA
- Communication w/
 Tribal Co-Managers



Proviso Implementation Strategy

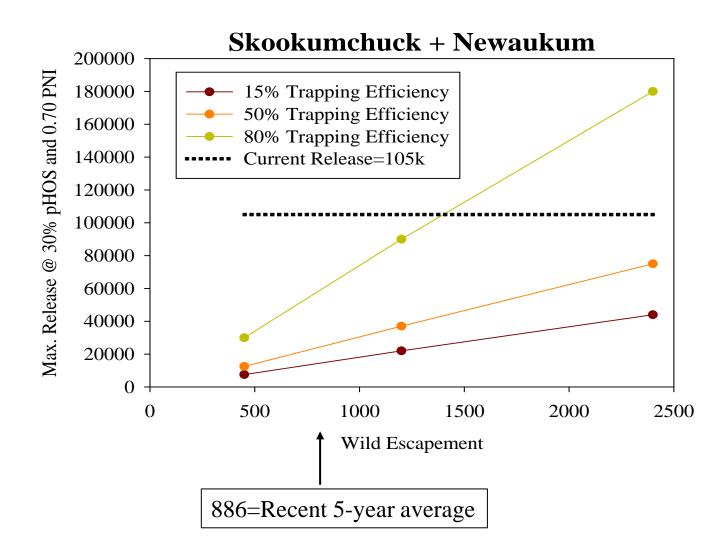






Hatcheries Wrap-Up

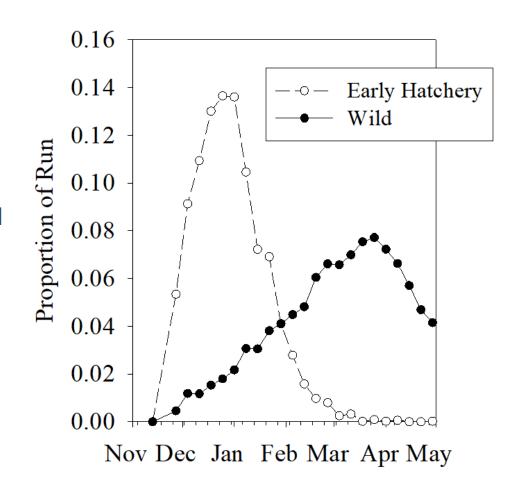
Hatchery Scaling





Additional Considerations

- Discontinue out-planting for segregated programs without trapping facilities
- Consider mandatory retention of hatchery fish, especially during years of low naturalorigin returns
- Prioritize research on short and long-term impacts of integrated ("broodstock") vs. segregated programs as well as risks and benefits
- Improve certainty around DGM and AHA model input parameters, including research on productivity to validate literature values
- Explore implementation of conservation – oriented hatchery programs





Wild Gene Banks (aka Wild Steelhead Management Zones)

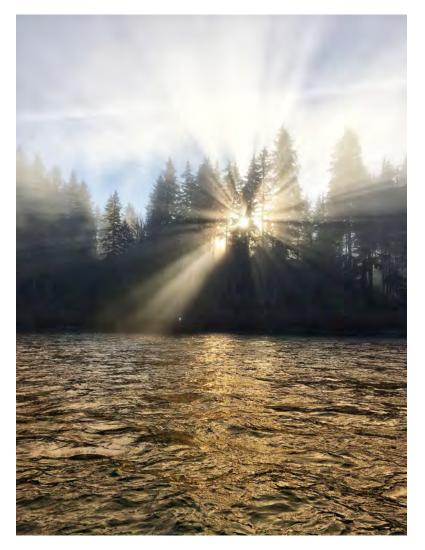
- SSMP calls for one WGB per major population group (MPG) in each distinct population segment (DPS) → at least one MPG per WRIA
- Sufficiently abundant and self-sustaining
- Fisheries permitted if management objectives are met
- Stakeholder & co-manager process



Areas must contain populations with relatively stable population abundance trends and a six-year average of >300 spawners







2. Areas may not contain on-station hatchery production or releases; however, they may contain streams that currently support offstation releases



3. Consider relative usefulness of given locations as control streams for research





4. Consider designation of given locations as WSMZs for other salmonid species



WDFW WSMZ Criteria Met

- North River/Smith Creek Winter Steelhead
- Nemah River Winter Steelhead
- Wishkah River Winter Steelhead
- Hoquiam River Winter Steelhead
- Chehalis River Winter / Summer Steelhead
- Clearwater River Winter/ Summer Steelhead
- Dickey River Winter Steelhead

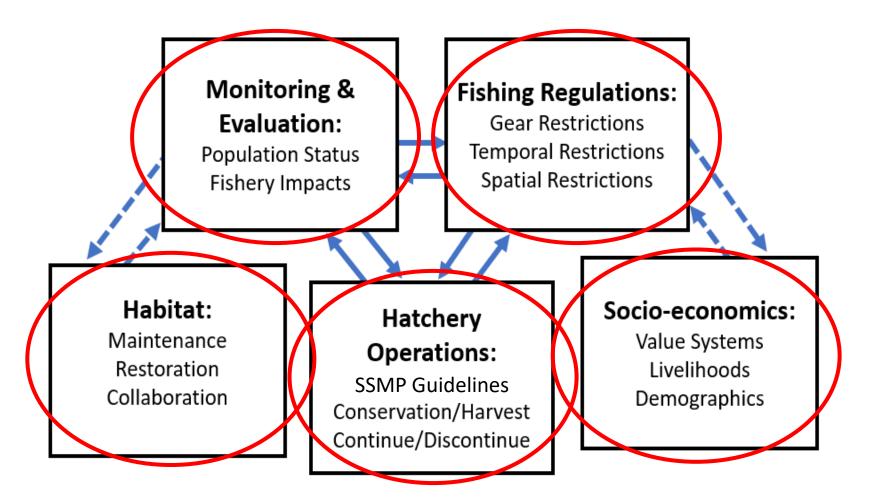






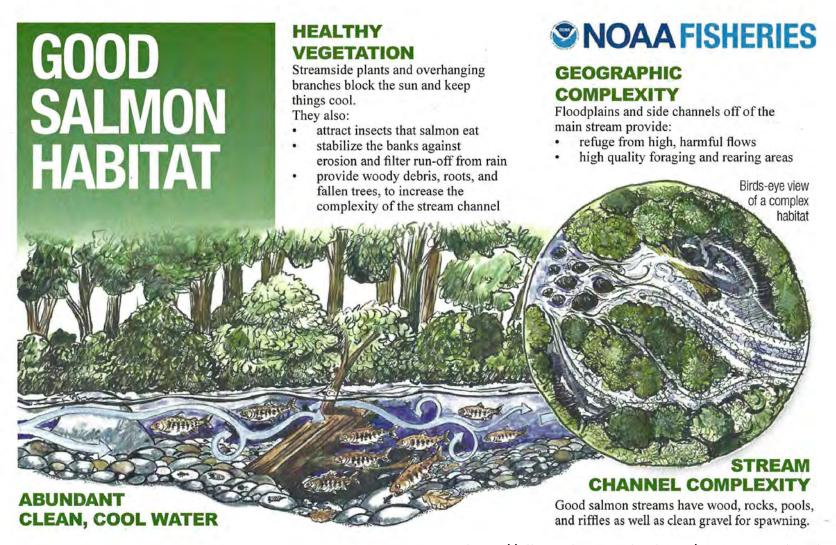
Habitat

Proviso Implementation Strategy



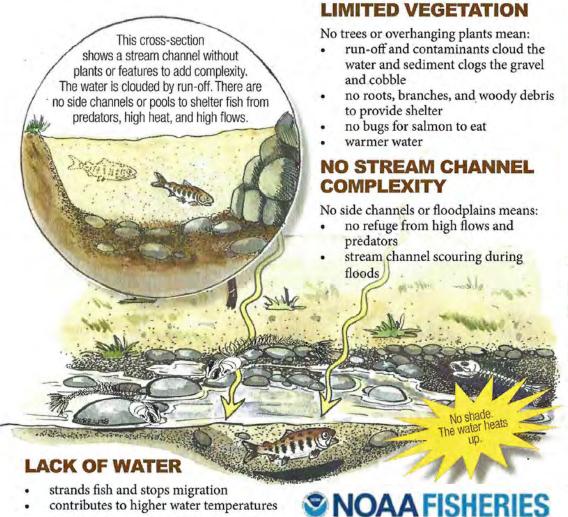


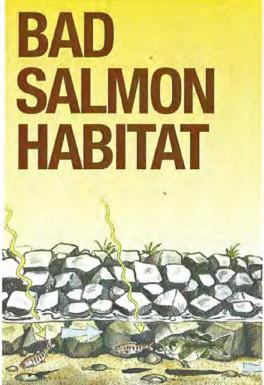
Steelhead Need Healthy Habitat!





http://elkcreekwatershed.org/restoration.html





INVASIVE SPECIES

- invasive aquatic species eat juvenile fish and compete for food, breeding and rearing habitat
- invasive plants change stream flow and affect migration

http://elkcreekwatershed.org/restoration.html





Statewide Salmon Recovery Strategy

- Addressed in Revised Code of WA (RCW) 77.85
- Written 1999, update
 2006 & 2021
- https://app.leg.wa.gov/r cw/default.aspx?cite=77
 .85
- Habitat projects carried out according to watershed-based & locally implemented projects under the direction of Lead Entities



Salmon Recovery Lead Entities

https://rco.wa.gov/salmon-recovery/managing-organizations/lead-entities/



Habitat Lead Entities

- North Pacific Coast Lead Entity (Water Resource Inventory Area (WRIA 20))
- Quinault Indian
 Nation Lead Entity
 (WRIA 21)
- Chehalis Basin Lead Entity (WRIAs 22&23)
- Willapa Bay Lead Entity (~WRIA 24)



Salmon Recovery Lead Entities

https://rco.wa.gov/salmon-recovery/managing-organizations/lead-entities/



Habitat Lead Entities

- "Lead entities coordinate projects that spur local and rural economic development by creating and maintaining family wage jobs." WA Recreation and Conservation Office
- Washington State's path to salmon recovery creates jobs for local communities. A \$1 million investment in watershed restoration directly results in 15 to 24 new or sustained jobsand has been shown tocreate \$2.2 million to \$2.5 millionin total economic activity.
- Eighty percent of grant money is spent in the county where the project is located, helping families and businesses. Restoration projects funded through the Salmon Recovery Funding Board and Recreation and Conservation Office have resulted in thousands of jobs.



Salmon Recovery Lead Entities

https://rco.wa.gov/salmon-recovery/managing-organizations/lead-entities/



What is WDFW's role?

WDFW currently supports the overall strategy in Region 6 through the following actions:

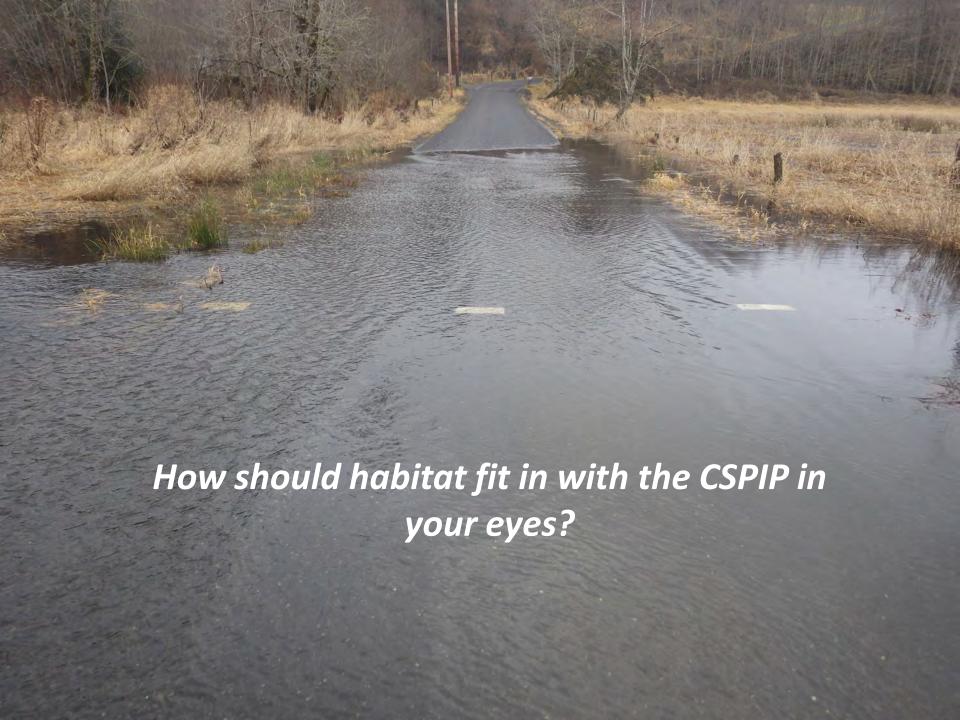
- 1. Administering funding to support the functions of Lead Entities
- 2. Facilitating the Hydraulic Permit Approval (HPA) permitting process
- Addressing fish passage through a statewide protocol for fish passage assessment and by hosting the Fish Barrier Removal Board
- 4. Providing oversight of large-scale habitat restoration projects and the Aquatic Species Restoration Plan in the Chehalis basin



Habitat in the CSPIP

- Sharing of steelhead status with Lead Entities
- Habitat ←→ Fish
 Divisions
- Research relating
 habitat quality and
 quantity to
 management (Critical
 Research Section)

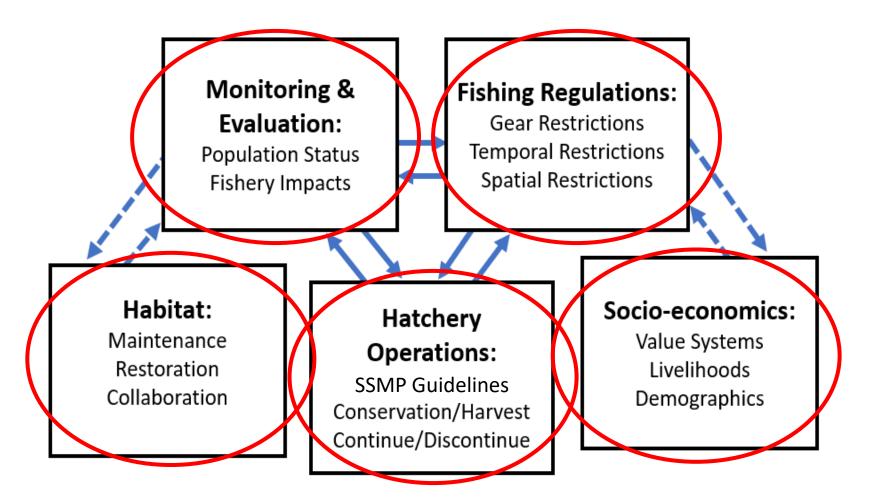






5 Minute Break

Proviso Implementation Strategy







Human Dimensions

Human Dimensions

- Recognize significance to local communities
- Strategies to better understand human dimensions
 - Surveys
 - Creel questions
 - Guide logbooks
 - Catch record cards
- Collaborative process

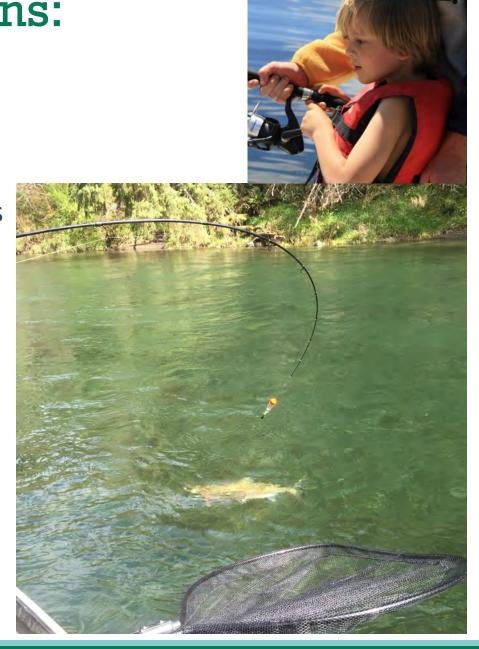


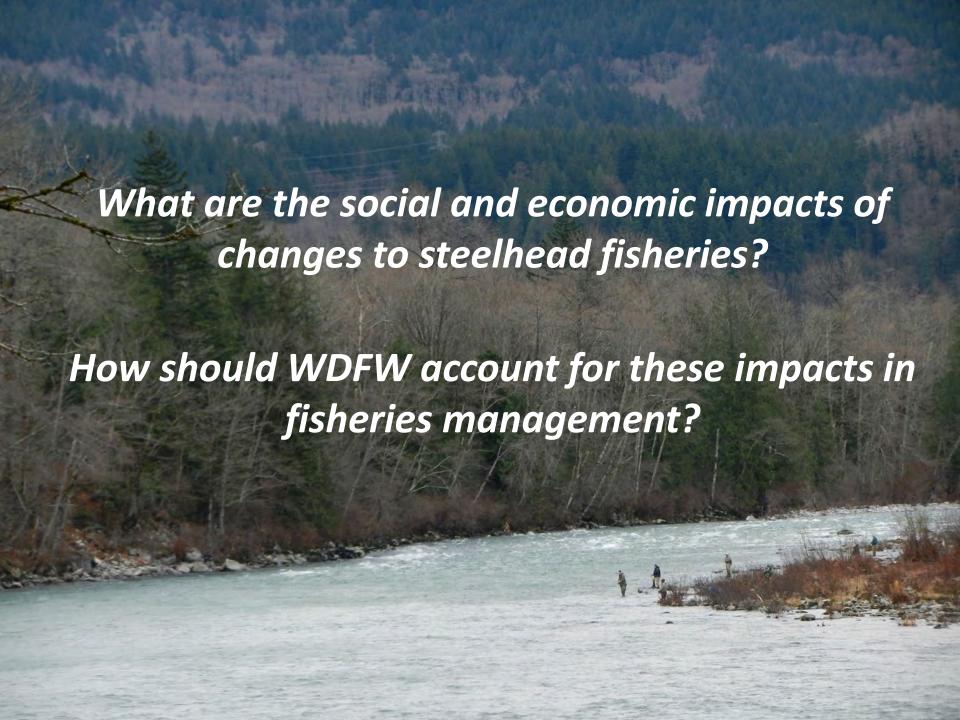




Human Dimensions: Topics of Interest

- 1. Shifts in effort
- 2. Angler regulation preferences
- 3. Fishery demographics
- 4. Local economic impacts of shifts in fishery regulations
- 5. Non-consumptive resource valuation
- 6. Indirect effects of healthy steelhead populations
- 6. Other human dimensions questions





Wrap-up & Next Steps

Post-Meeting Materials:

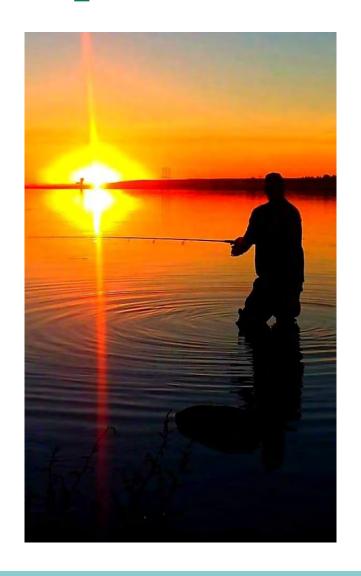
CSPIP Draft to date, sent out on September 23

Homework:

Read CSPIP draft & comment

Next Meeting:

November



Zoom reminders for public comments

- You can type a question through the Q&A function or ask a question by "raising your hand." If you're calling in you can raise a hand by dialing *9 on your phone, or if you're calling from a computer, you can find the hand icon at the bottom of your screen.
- To speak you will need to unmute yourself by using the mute button on your computer or mobile device or enter *6 if you're calling from a land line.
- If you have a technical issue, please drop us a note in the Q&A and we will help you through it.
- You can also submit general feedback on coastal steelhead management at wdfw.wa.gov/coastal-steelhead

