

2024 PRESENTATIONS FOR WA-BC & IDAHO JOINT MEETING

ORAL AND POSTER PRESENTATIONS

FINAL LIST AS OF APRIL 23, 2024

SESSION	Order	Date	Time	TITLE	AUTHORS
Anglers	1	May 1	8:00 AM	Engaging Anglers to Support Fisheries Research and Management Through App Based Fishing Tournaments	Sean Simmons
Anglers	2	May 1	8:20 AM	Postrelease mortality of spring Chinook Salmon from a mark-selective recreational fishery in the Yakima River, Washington.	Anthony Fritts (presenter), Gabriel Temple, Cade Lillquist, Dan Rawding
Anglers	3	May 1	8:40 AM	Big Fjord Cutthroat Trout Project	Gregory Shimek, Executive Director, Coastal Cutthroat Coalition
Anglers	4	May 1	9:00 AM	Collaborating with Anglers to Monitor a Pelagic Fishery in Lake Pend Oreille	Jeff Strait, Ryan Hardy
Anglers	5	May 1	9:20 AM	An assessment from the intensive water temperature monitoring consortium in the Teanaway Community Forest	Gabriel M. Temple, William Meyer, Andrew Matala, Patricia Hesselgesser, David Bouta, and Eric Foch
Bull	1	May 1	8:00 AM	Completing the Bull Trout Species Status Assessment and next steps for Bull Trout Recovery	Dan Nolfi
Bull	2	May 1	8:20 AM	Collaboration in Bull Trout Recovery	Aimee Taylor
Bull	3	May 1	8:40 AM	Warm Creek Restoration Project: Is piscicide compatible with Bull Trout conservation?	Brett High and Bart L. Gamett
Bull	4	May 1	9:00 AM	Bull Trout biology and the importance of connectivity.	Judith Neibauer
Bull	5	May 1	9:20 AM	Open	Open
Bull	6	May 1	1:40 PM	The genomics of isolated lake bull trout	Alexandra Fraik
Bull	7	May 1	2:00 PM	Population Genetic Structure of an Isolated species assemblage of Bull Trout, Dolly Varden, and Rainbow Trout in the North Cascades.	Erin Lowery and Dan Bingham
Bull	8	May 1	2:20 PM	Population Demographics and Dynamics of Juvenile Bull Trout in a Montane Ecosystem	Sage Unsworth
Bull	9	May 1	2:40 PM	Assessment of the Potential Extirpation of a Bull Trout Population in the Wenatchee River Basin, WA	Jose Vazquez
Bull	10	May 1	3:00 PM	Predator-prey interactions between bull trout and sockeye salmon in Chilko Lake, British Columbia	Adam Kanigan, Nathan Furey, Scott Hinch, Andrew Lotto
Bull	11	May 1	3:40 PM	WHAT CONTROLS THE ABUNDANCE OF NONNATIVE BROOK TROUT IN CENTRAL IDAHO BULL TROUT STREAMS?	Nicholas S. Voss
Bull	12	May 1	4:00 PM	Spatiotemporal distribution of juvenile Bull Trout in Kachess Reservoir, Washington	Blake Hamilton
Bull	13	May 1	4:20 PM	Providing Bull Trout Passage Through Central Cascade Reservoirs	Danny Didricksen
Bull	14	May 1	4:40 PM	Nonlethal Methods of Assessing Bull Trout (<i>Salvelinus confluentus</i>) Reproductive Status and Life History Strategies in the Upper Salmon River Basin	Joe Hirsch
Bull	15	May 1	5:00 PM	Open	Open
Data	1	April 30	1:40 PM	Ack! How do I cite this? Data citation and attribution for dynamic natural resource databases	Katie A. Barnas (NOAA), Mari Williams (PSMFC), Jennifer M. Bayer(USGS), Sheryn Olson (CRITFC)
Data	2	April 30	2:00 PM	Data endurance: Documenting metadata and connecting to published data with MonitoringResources.org and large language models to preserve the data lifecycle	Samuel A. Cimino (US Geological Survey), Jennifer M. Bayer (US Geological Survey), Tom Bird (Fisheries and Oceans Canada), Minh Doan (Fisheries and Oceans Canada)
Data	3	April 30	2:20 PM	How large language models rich metadata can support greater interoperability of data and movement towards best practices.	Tom Bird
Data	4	April 30	2:40 PM	Salish Sea Initiative Interactive Map and Marine Survey Tool	Tom Bird
Data	5	April 30	3:00 PM	An ocean intelligence system for the North Pacific Ocean	Lara Erikson
Drones	1	April 30	1:40 PM	Monitoring Channel Response to Low-Tech Processed-Based Restoration Using UAV	Tulley Mackey
Drones	2	April 30	2:00 PM	Simulating riparian forest harvesting impacts on stream temperatures using RPAS-acquired LiDAR	Leanna Stackhouse
Drones	3	April 30	2:20 PM	Assessment of salmonid spawning habitat using Remotely Piloted Vehicles in a large river.	Jared G. Stieve; Alexander K. Fremier
Drones	4	April 30	2:40 PM	Developing a Drone-based Community Monitoring Program to Engage and Inspire Alaskan Tribal Communities in Fishery Science	Daniel Auerbach
Drones	5	April 30	3:00 PM	Eyes in the Sky: A case study evaluating the accuracy of UAS enumerations of Chinook salmon (<i>Oncorhynchus tshawytscha</i>) redds using orthomosaic models.	Cade Crookshanks
Drones	6	April 30	3:40 PM	Application of drones for Snake River fall Chinook Salmon redd surveys	Bill Arnsberg, Morgan Sublett
Drones	7	April 30	4:00 PM	Estimating Abundance of Chinook Salmon Redds Using Drones in Region 7	Noah Frost
Drones	8	April 30	4:20 PM	Monitoring and Analysis of River Corridors with UAV LiDAR	Cody Marschner
Drones	9	April 30	4:40 PM	Open	Open
Drones	10	April 30	5:00 PM	Open	Open
Escapement	1	May 1	1:40 PM	Integrating data on the Snake River steelhead fishery enhances reporting	Ryan Vosbigian, John Powell, Matthew R. Falcy
Escapement	2	May 1	2:00 PM	Using an integrated model to estimate Chinook Salmon spawner	Joshua L. McCormick, Luciano Chiamonte, Carli Baum,
Escapement	3	May 1	2:20 PM	Estimation of Adult Steelhead in a Coastal River Using SONAR	Kevin See
Escapement	4	May 1	2:40 PM	Reanalysis of lower Columbia winter steelhead spawning data using a spatio-temporal model	Jeremy Harris
Escapement	5	May 1	3:00 PM	Can mark-recapture methods improve redd based escapement estimates?	Dan Rawding
Escapement	6	May 1	3:40 PM	A method to compute adult anadromous salmonid abundance by PIT tagging juvenile outmigrants	Jason Neuswanger

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Escapement	7	May 1	4:00 PM	Estimating Aggregate Coho Salmon Terminal Run and Escapement to the Lower Fraser Management Unit	Steven Rossi*, Wendell Challenger, Michael Arbeider
Escapement	8	May 1	4:20 PM	Escapement Discussion: We will discuss, with both the audience and speakers, what new escapement estimation methodologies are being used around the Pacific Northwest, what some of the common challenges are, and the pros and cons of standardizing methods.	Neala Kendall will moderate the discussion
Escapement	9	May 1	4:40 PM		
Escapement	10	May 1	5:00 PM		
General	1	May 1	8:00 AM	Salmon and Climate Initiative: advancing a climate-resilient recovery approach for Pacific salmon throughout their North American range	Lucas Hall, Shaara Ainsley, Liz Duffy, and Jacques White
General	2	May 1	8:20 AM	How Do Management Goals for Wild Chinook Salmon Align with Feasibility?	Tim Copeland
General	3	May 1	8:40 AM	Integrating research, restoration, and hatchery supplementation to conserve and recover a Snake River Spring Chinook Salmon population	Brian Simmons
General	4	May 1	9:00 AM	A state-space model for estimating smolt abundance at rotary screw traps	Luciano V. Chiaramonte, Joshua L. McCormick
General	5	May 1	9:20 AM	Lasting Effects of Juvenile Life Histories: Freshwater Migratory Diversity and Long-term Consequences in a Population of Spring Chinook salmon (<i>Oncorhynchus tshawytscha</i>)	Sam Owens
General	6	May 1	1:40 PM	Impacts of lake elevation decline on spawning habitat of a critical, native forage species	Sarah Barnes
General	7	May 1	2:00 PM	Interactions Among Yellow Perch, Northern Pikeminnow, and Smallmouth Bass in Lake Cascade, Idaho	Bryce Marciniak
General	8	May 1	2:20 PM	Smallmouth Bass response to tournament displacement in a highland Idaho reservoir	Eli Felts, Ryan Hardy
General	9	May 1	2:40 PM	Abundance and density dependent survival of Burbot in the Kootenai River's hatchery-augmented fishery	Joshua Heishman
General	10	May 1	3:00 PM	Seasonal variation in small-bodied fish communities in side channel habitats before and after culvert removal	Eric Harmon, John Heckel, Eric Billman
General	11	May 1	3:40 PM	Shifting climate conditions affect recruitment in Midwestern stream trout, but depend on seasonal and spatial context	Bryan Maitland, Alex Latzka
General	12	May 1	4:00 PM	Notes from the field: Using MYX Brook Trout stocking and manual suppression to eradicate nonnative Brook Trout populations in alpine lakes and streams in Idaho	Jennifer Vincent
General	13	May 1	4:20 PM	Evaluation of using biological control to suppress Brook Trout populations in Idaho mountain lakes	Brett Kelly
General	14	May 1	4:40 PM	Fish population monitoring in response to the Quagga Mussel treatment in the mid-Snake River	Author-Mike Peterson and co-author-Eric Stark
General	15	May 1	5:00 PM	Open	
General	16	May 2	10:00 AM	A stunted Walleye fishery in a southern Idaho reservoir	Conor McClure and Mike Peterson
General	17	May 2	10:20 AM	Response of Macroinvertebrates to Changes in Water Supply and Temperature in the Henry's Fork Snake River	Rob Van Kirk (Henry's Fork Foundation), Brett Marshall (River Continuum Concepts), Jack McLaren (Henry's Fork Foundation), Melissa Muradian (Ecosa Consulting and Henry's Fork Foundation)
General	18	May 2	10:40 AM	The feasibility of Grandparentage testing to monitor genetic risks posed by straying hatchery steelhead in the Snake River Basin	Campbell, Matthew
General	19	May 2	11:00 AM	Exploitation and catch-and-release of salmonids in Idaho high mountain lakes	Kevin Meyer
General	20	May 2	11:20 AM	Open	
Genetics	1	May 2	8:00 AM	An improved genetic marker panel for conservation monitoring of Upper Kootenay River burbot	Audrey Harris, Katharine Coykendall, Heather Lamson, Ryan Kovach, James Dunnigan, Matthew Campbell
Genetics	2	May 2	8:20 AM	Efficient species identification for Pacific salmon genetic monitoring programs	Zachary Robinson*, Jeff Stephenson, Kim Vertacnik, Stuart Willis, Rebekah Horn, Jesse McCane, Katharine Coykendall, Shawn Narum
Genetics	3	May 2	8:40 AM	Preliminary results of population distribution, genetic structure and diversity of Coastal Cutthroat Trout (<i>Oncorhynchus clarkii</i>) throughout Washington and Oregon states	Amelia Loudon
Genetics	4	May 2	9:00 AM	How can the genomic history of introduced salmonids inform their native range conservation and management?	Morgan M. Sparks
Genetics	5	May 2	9:20 AM	Examining the evolutionary history of Rainbow Trout using mitochondrial sequences and nuclear single nucleotide polymorphisms	Tyler Breech
Genetics	6	May 2	10:00 AM	The Effect of YY Male Stocking and Concurrent Electrofishing Suppression on Two Brook Trout Populations in Central Idaho	Dan Schill, Matt Campbell, Bart Gamett, Curtis Roth, Jenn Vincent
Genetics	7	May 2	10:20 AM	Interspecific hybridization in a large-river population of Yellowstone cutthroat trout: a 20-year programmatic evaluation	John Hargrove
Genetics	8	May 2	10:40 AM	Introgression in native Redband Trout from a desert watershed	Kyle E Rufo
Genetics	9	May 2	11:00 AM	Genetic pedigree analyses reveal differences in movement and growth patterns for 'rescued' young-of-year steelhead	Haley Ohms, Carolina Lazari, Carlos Garza, Devon Pearse, David Boughton
Genetics	10	May 2	11:20 AM	Does habitat extent predict a decline in genetic diversity for fragmented populations of redband trout?	Adam Zambie
Hatcheries	1	April 30	1:40 PM	Reflections on a 30+ year career in Columbia and Yakima Basin salmon restoration	Bill Bosch
Hatcheries	2	April 30	2:00 PM	Columbia River Basin Hatcheries – Mitigation for hydrosystem operations and development of the basin	Maureen Hess
Hatcheries	3	April 30	2:20 PM	Using Hatcheries for Conservation: An Overview of the Integrated Chinook Program in Idaho	Darcy McCarrick, David Venditti, Craig Steele

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Hatcheries	4	April 30	2:40 PM	Evaluating Mitigation Objectives for Spring/Summer Chinook Salmon Hatcheries in the Snake River Basin	Jonathan D. Ebel*, Timothy Copeland, Christopher Sullivan, Joseph W. Feldhaus, Ian A. Tattam, and Joseph D. Bumgarner
Hatcheries	5	April 30	3:00 PM	Evaluating the success of Chinook Salmon and Steelhead hatchery mitigation programs in Idaho: a fishery and harvest perspective	Brian Leth
Hatcheries	6	April 30	3:40 PM	Anticipating and implementing changes in hatchery mitigation programs - Two examples from the Lower Snake River Compensation Plan.	Rod Engle
Hatcheries	7	April 30	4:00 PM	Deep River Net Pens- a multifaceted approach to the costs and benefits of bio-programming changes in a remote hatchery rearing site.	Kristopher J Warner
Hatcheries	8	April 30	4:20 PM	Snake Basin In-Season Management of Salmon, Steelhead, and Coho Tribal and State Fisheries	Jason V
Hatcheries	9	April 30	4:40 PM	Monitoring hatchery success and Chinook salmon recovery in the Nooksack watershed	Zoë Lewis
Hatcheries	10	April 30	5:00 PM	After the Sunset: A Case Example of the Outcome of Suspending Hatchery Propagation at a Large Regional Scale	Tom Chance
Hatcheries	11	May 1	8:00 AM	Genetic monitoring of hatchery salmonids with multi-generational pedigrees	Rebekah L Horn, Shawn R Narum
Hatcheries	12	May 1	8:20 AM	Effects of Supplementation in Upper Yakima River Chinook Salmon	Ilana J Koch
Hatcheries	13	May 1	8:40 AM	Genetic consequences of Chinook salmon strays from hatcheries in Southern British Columbia	Timothy Healy*, Jacob Weil, Mike Wetklo, Dave Willis, Wilf Luedke and Ruth Withler
Hatcheries	14	May 1	9:00 AM	Hatchery Practices can Increase the Effective Population Size of a Captive Broodstock	Craig Steele
Hatcheries	15	May 1	9:20 AM	Open	Open
Hatcheries	16	May 1	1:40 PM	Contribution of naturally and artificially reconditioned repeat spawning female steelhead to spawning above Lower Granite Dam: repeat spawning pathways and life histories	Laura Jenkins, Carli Baum, Corey Dondero, Neil Graham, Scott Everett, Lea Medeiros, James Nagler, Tim Copeland, Doug Hatch, Andrew Pierce
Hatcheries	17	May 1	2:00 PM	Living life on the straight-and-narrow or a merry-go-round: developing physiological tools to assess juvenile salmonid rearing in circular vessels	Dina Spangenberg
Hatcheries	18	May 1	2:20 PM	Developing methods to Improve the homing fidelity of hatchery-reared salmon	Andrew Dittman
Hatcheries	19	May 1	2:40 PM	A review of Chinook (<i>Oncorhynchus tshawytscha</i>) and Coho Salmon (<i>Oncorhynchus kisutch</i>) hatchery release practices in British Columbia	Sam James
Hatcheries	20	May 1	3:00 PM	How does varying age at maturation in hatchery fall Chinook affect evaluation of hatchery releases?	Brian Beckman
Hatcheries	21	May 1	3:40 PM	ABSTRACT FOR PANEL: At the 2024 WA-BC and Idaho Chapters joint AFS meeting we are initiating what we hope to be an on-going conversation surrounding the topic of hatchery evaluations. To stimulate this process we've invited from various regions and organizations to address: methods and analysis provide the most reliable and actionable information for hatchery evaluations, what topics lack reliable analytical tools and approaches, and how differences in species and/or regions interact to provide different answers about hatchery effectiveness. By comparing responses from the interior and lower Columbia River Basin, the Salish Sea and the BC/WA/OR coast we hope to gain perspective and insights into general issues, identify areas of consensus, and recognize novel approaches. We expect that discussion within and following the panel will provide guidance into the organization of the 2025 meeting and provide the foundation for our hatchery evaluations working group.	Moderators: • Brian Beckman and Phil Sandstrom Panelists: • Bill Bosch, Maureen Hess, Rod Engle, Sam James
Hatcheries	22	May 1	4:00 PM		
Hatcheries	23	May 1	4:20 PM		
Hatcheries	24	May 1	4:40 PM		
Hatcheries	25	May 1	5:00 PM		
Hatcheries	26	May 2	8:00 AM	Can reducing smolt size help adult returns? Comparing rearing strategies for a Chinook salmon hatchery program	Deborah Harstad1*, Dina Spangenberg1, Don Larsen1, Ryan Gerstenberger2,3, Shaun Montgomery4, Ryan Moon5, Brian Beckman1
Hatcheries	27	May 2	8:20 AM	Biotic and abiotic factors affecting adult survival of Snake River hatchery fall Chinook salmon	William Young and Ryan Kinzer
Hatcheries	28	May 2	8:40 AM	PBT and PIT tags: Lyons Ferry Hatchery M&E of Snake River Fall Chinook	Michael Herr
Hatcheries	29	May 2	9:00 AM	Relative post-release performance of Rainbow Trout fry stocked at two target lengths in alpine lakes of Idaho	Will Lubenau
Hatcheries	30	May 2	9:20 AM	MOBILE SPONTANEOUS AUTOPOLYPOIDY TESTING FOR DETERMINING AND REMOVING 12N HATCHERY KOOTENAI RIVER WHITE STURGEON	Mark E. Elliston JR.*, Brian R. Michaels JR, Nathan R. Jensen
Hatcheries	31	May 2	10:00 AM	Initial Results from a Chinook Mass Marking Pilot: Broodstock Management and Mark Selective Fisheries	Michael Thom (Salmonid Enhancement Program, DFO, Canada)
Hatcheries	32	May 2	10:20 AM	Use of feed rings in reduction of waste of feeding events	Kaleb Barclay
Hatcheries	33	May 2	10:40 AM	Evaluation of fall Chinook subyearling and yearling release strategies in Hood Canal	Devin West
Hatcheries	34	May 2	11:00 AM	Evaluation of alternative approaches to hatchery propagation of steelhead to minimize fitness loss.	Christopher Tatara*, Barry Berejikian, Don Larsen, Matt Cooper, Mollie Middleton, Penny Swanson
Hatcheries	35	May 2	11:20 AM	Age at release affects developmental physiology and sex-specific phenotypic diversity of hatchery steelhead trout (<i>Oncorhynchus mykiss</i>)	Don A. Larsen, Mollie Middleton, Christopher Tatara, Barry Berejikian, Chris Pasley, Jon Dickey, Penny Swanson
Infrastructure	1	May 2	8:00 AM	Design and Biological Testing of Two New Hydrotrubines Installed at Ice Harbor Dam	Bradly A. Trumbo, Jon F. Renholds, Karl Anderson, Cory Hoffman, Ashley Picker
Infrastructure	2	May 2	8:20 AM	RESTORATION ELEMENTS OF THE KLAMATH RIVER RENEWAL PROJECT (I.E. LOWER KLAMATH PROJECT)	AUTHOR: Daniel Chase, Resource Environmental Solutions (RES), dchase@res.us (Presenter). CO-AUTHORS: Gwen Santos, RES, gsantos@res.us; Dave Coffman, RES, dcoffman@res.us
Infrastructure	3	May 2	8:40 AM	RESTORATION ELEMENTS OF THE KLAMATH RIVER RENEWAL PROJECT (I.E. LOWER KLAMATH PROJECT)	AUTHOR: Daniel Chase, Resource Environmental Solutions (RES), dchase@res.us (Presenter). CO-AUTHORS: Gwen Santos, RES, gsantos@res.us; Dave Coffman, RES, dcoffman@res.us

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Infrastructure	4	May 2	9:00 AM	The More, the Merrier: Using Adult Pacific Lamprey Translocations to Increase Passage Rates at Wells Dam, Columbia River	Mariah Mayfield*, John Rohrback*, Dave Robichaud*
Infrastructure	5	May 2	9:20 AM	Native fishes and the Hells Canyon Complex Relicensing	Erin Kenison
THE SALMON PRIZE: SOCKEYE INTERNATIONAL COMPETITION					
International	1	May 2	8:00 AM	<p>Many Salmon stocks are facing imminent collapse, and we don't yet understand the mechanisms that are driving these changes in survival. The Salmon Prize is designed to address this challenge by recruiting teams of scientists to see who can best predict the number of returning fish. Through this competition, hypotheses and models will be tested against real return numbers to see which methods most accurately predict the returns. The goal is to begin teasing out the mechanisms that are driving Salmon survival by looking at the hypotheses, models and covariates that are used in the best predictions. Sockeye International is our third competition with \$5,000 up for grabs. It is being kicked off at the Washington-BC-Idaho AFS conference in Spokane April 29 to May 2. Interested teams will need to predict the 2024 Sockeye returns across 14 distinct runs covering three major systems — Bristol Bay, the Fraser River and the Columbia River. If you have what it takes, sign up at www.SalmonPrize.com and submit your predictions by June 15, 2024. The first five teams to complete their submission will win \$200 each. For more information, please contact Sean Simmons by email (sean@anglersatlas.com).</p>	Sean Simmons
International	2	May 2	8:20 AM		
International	3	May 2	8:40 AM		
International	4	May 2	9:00 AM		
International	5	May 2	9:20 AM		
Kokanee	1	April 30	3:40 PM	Deadwood Reservoir: Managing a kokanee fishery for multiple objectives	Timothy D'Amico
Kokanee	2	April 30	4:00 PM	A Razors Edge: The Balance of Predator and Prey in Lake Pend Oreille	Ryan Hardy
Kokanee	3	April 30	4:20 PM	KOKANEE POPULATION TRENDS IN AN EASTERN IDAHO RESERVOIR	John Heckel
Kokanee	4	April 30	4:40 PM	Improving the growth of kokanee using nitrogen addition: a case study of Dworshak Reservoir.	Sean Wilson
Kokanee	5	April 30	5:00 PM	Discussion	Discussion
Passage	1	April 30	1:40 PM	A quick look beyond habitat loss from dams and culverts in the PNW	Wayne Watne
Passage	2	April 30	2:00 PM	Aquatic Organism Passage (AOP) Solutions at Culverts and Fish Barrier Management in North America	Shane Scott
Passage	3	April 30	2:20 PM	Lower Boise River Fish Passage Study	Colin Custer and Dorene MacCoy
Passage	4	April 30	2:40 PM	A cost-effective approach to implement and monitor the effectiveness of a fish passage project in the Potlatch River basin in northern Idaho	Brian Knoth (IDFG)
Passage	5	April 30	3:00 PM	Potential Solutions to Thermal Barriers in the Lake Washington Ship Canal	Lucas Hall
Passage	6	April 30	3:40 PM	Assessing juvenile coho access to critical overwintering habitat through floodgates	Zachary Sherker
Passage	7	April 30	4:00 PM	New Solutions for Tide Gates, Fish Passage and Working Landscapes	Jason Nuckols
Passage	8	April 30	4:20 PM	Regulating Fish Passage in Washington State	Matt Curtis
Passage	9	April 30	4:40 PM	Squalicum Creek Barrier Removal and Estuary Restoration	Miah Whiteaker
Passage	10	April 30	5:00 PM	Lessons Learned from Forest Road Treatments with Applications to the PNW Transportation Network	Wayne Watne
Passage	11	May 1	8:00 AM	Resilient Waters - A systems thinking approach to fish passage and flood infrastructure for the Lower Fraser Watershed	Dan Straker
Passage	12	May 1	8:20 AM	Washington Department of Fish and Wildlife Fish Passage Resources	Kaylee Kautz
Passage	13	May 1	8:40 AM	Improving Fish Passage Through Flood Protection - Lessons Learned	Sarah Lawrie, P.Eng.
Passage	14	May 1	9:00 AM	Returning Home Within the Neighborhood – Understanding and Mitigating the Effects of Fragmentation in the Clark Fork - Pend Oreille Basin	Paul Spruell, Joe Cronrath, Collin J. Hendricks, Raymond Ostlie, Mark Paluch, CraigD. Wells, Allan T. Scholz, and Jason Connor
Passage	15	May 1	9:20 AM	Open	Open
Passage	16	May 1	1:40 PM	Fish Passage Improvement Structure (Fishway) Assessment & Maintenance	Danny Didricksen
Passage	17	May 1	2:00 PM	Fishes in Ditches: Fish Removal with the Skagit County Drainage and Irrigation Districts Consortium	Adam Crispin
Passage	18	May 1	2:20 PM	Audit of Remediated Culvert Barriers in the Fraser River Watershed	Patrick Zubick
Passage	19	May 1	2:40 PM	Understanding and Prioritizing Aquatic Organism Passage at Watershed Scales	Dan Dauwalter, Trout Unlimited, Boise, Idaho; Ethan Ellsworth, BLM Idaho, Boise, Idaho
Passage	20	May 1	3:00 PM	Open	Open
Passage	21	May 1	3:40 PM	<p>ABSTRACT: Since 1991, the Washington Department of Fish and Wildlife (WDFW) and the Washington Department of Transportation (WSDOT) have maintained a partnership to protect and restore salmon populations. WDFW has conducted inventories of fish passage barriers at state, county, and city road crossings and associated habitat assessments to prioritize barrier correction. These efforts helped prioritize barrier corrections and resulted in habitat improvement projects throughout the state. In 2001, 21 Western Washington Tribes filed a suit against the State claiming that culverts were blocking substantial amounts of salmon habitat, reducing the salmon available for harvest. This landmark trial US</p>	<p>Moderators: Adam Crispin and Zach Sherker</p> <p>Panelists: Tom Jameson, Fish Passage and Screening Division Manager, Chair FBRB (WDFW Habitat Program) Susan Kanzler, Environmental Services/Stream Restoration Program Manager (WSDOT) Fish Passage and Chronic Environmental Deficiencies) Wayne Watne, Senior Fisheries Biologist (Herrera</p>
Passage	22	May 1	4:00 PM		

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Passage	23	May 1	4:20 PM	vs. Washington State, also known as the "Culvert Case", stemmed from Treaties in the 1850's (Stevens Treaties) and lead to the 1974 Boldt Decision that determined Tribes were entitled to their fair share of salmon, while ensuring salmon habitat (WSDOT, 2020). In 2013, a permanent injunction was issued for the State of Washington to accelerate the correction of state-owned barriers, and this shifted the focus of state agencies, WSDOT, WDFW, WDNR, and Parks. The injunction stipulated that barrier culverts under state roads must be corrected in the "case area" (Puget Sound watersheds west of the Cascades). As of 2023, WSDOT has corrected 114 injunction barriers resulting in 502 miles of potential habitat (WSDOT, 2023). To better understand the successes and challenges of Washington's Fish Passage programs, this panel will address the following questions and discuss their various perspectives in Washington's fish passage legacy.	Environmental), former Timber, Fish & Wildlife Biologist managing Road Maintenance and Abandonment Plan (RMAP), WDFW Danny Didricksen, Fish Screening Section Manager (WDFW)
Passage	24	May 1	4:40 PM		
Passage	25	May 1	5:00 PM		
Physiology	1	April 30	3:40 PM	Influence of egg size and parental genetics on the metabolic rate of Chinook and pink salmon embryos	Alexander "Tad" Iritani
Physiology	2	April 30	4:00 PM	Managing Smoltification for Improved Outcomes for Anadromous Fish	Jesse Trushenski
Physiology	3	April 30	4:20 PM	Analysis of changing gene expression across semelparous migration illuminate phenotypes driving end of life histories in Pink salmon gorbuscha	Max Butensky
Physiology	4	April 30	4:40 PM	Predicting the likelihood of gas bubble trauma in fishes exposed to elevated total dissolved gas in the lower Clark Fork River, Idaho	Paul Kusnierz
Physiology	5	April 30	5:00 PM	Sex Reversal of Brown Trout Exposed to Differing Estradiol Treatments	Elizabeth R. J. M. Mamer
Pinnipeds	1	April 30	1:40 PM	Participatory modeling to evaluate pinniped management as a tool for salmon recovery in Puget Sound	Liz Allyn
Pinnipeds	2	April 30	2:00 PM	Columbia River pinniped predation: A summary of information gained from a decade-long study	A. Michelle Wargo Rub
Pinnipeds	3	April 30	2:20 PM	Long-term Tracking of California Sea Lions Using Flipper-mounted SPOT Tags	Sarah Colosimo
Pinnipeds	4	April 30	2:40 PM	Lower River and Estuary Pinniped Monitoring Program	Sam James
Pinnipeds	5	April 30	3:00 PM	Open	Open
Piscivory	1	May 2	8:00 AM	Population dynamics of Walleye in Lake Roosevelt	Danny Garrett
Piscivory	2	May 2	8:20 AM	Comparison of Pectoral Fin Rays and Lapilli For Estimating Age of Northern Pikeminnow	Caleb M. Wilson
Piscivory	3	May 2	8:40 AM	Interannual and seasonal diet patterns of sympatric non-native predatory fish inferred through DNA metabarcoding	John Winkowski, Dr. Julian Olden
Piscivory	4	May 2	9:00 AM	Northern Pikeminnow and Non-Native Predator Fishes in Anadromous Waters	Marika Dobos
Piscivory	5	May 2	9:20 AM	Biological Trends for Three Piscine Predators During 33 Years of Reward Based Recreational Fisheries for Northern Pikeminnow (Ptychocheilus oregonensis)	Grant Waltz, Art Martin
Piscivory	6	May 2	10:00 AM	Insights from Recent Studies of Smallmouth Bass Predation on Juvenile Fall Chinook Salmon in the Lower Snake River	Ken Tiffan and John Erhardt
Piscivory	7	May 2	10:20 AM	A collaborative effort to control the spread of invasive Northern Pike in the upper Columbia River Basin.	Charles Lee, Holly McLellan, and Marc Terrazas
Piscivory	8	May 2	10:40 AM	Not all those who wander are lost: leveraging PIT tag data to better understand northern pikeminnow movement	Jessica Diallo
Piscivory	9	May 2	11:00 AM	Food Habits and Growth of Walleyes in Lake Pend Oreille, Idaho	Susan Frawley
Piscivory	10	May 2	11:20 AM	Suppression and Management of an Introduced Walleye Population	Eric Geisthardt
Poster	NA	May 1	10:00 AM	Western Division American Fisheries Society and You!	Laura Burckhardt and Timothy Copeland
Poster	NA	May 1	10:00 AM	Using a Shiny App and PTAGIS Data to predict salmon returns to facilitate improved in season harvest and brood stock management	Flora Gibbs, Hayley Muir, Matt Cooper
Poster	NA	May 1	10:00 AM	Defining Thermal Thresholds for Bull Trout and Brook Trout in Glacial Headwaters.	Nichole Ring
Poster	NA	May 1	10:00 AM	Effects of Euryhelmis cotti on Shorthead Sculpin in Birch Creek, Idaho	Logan Thompson, McKay Curriden, Eric Billman
Poster	NA	May 1	10:00 AM	Revisiting karyotype counts of Mountain Whitefish	Emily Underwood
Poster	NA	May 1	10:00 AM	Fish Distribution in Brush Creek	Shaelyn Haberman, Christine Stewart
Poster	NA	May 1	10:00 AM	Collaborative efforts to increase in-hatchery rearing survival and adult-return success of threatened Upper Columbia summer steelhead at Winthrop National Fish Hatchery	C.J. Smith
Poster	NA	May 1	10:00 AM	Distribution of Brook Trout and Yellowstone Cutthroat Trout in Moody Creek, ID	Dylan Bair, McKinley Harris, Nathan Tillotson, Brett High, and Eric Billman
Poster	NA	May 1	10:00 AM	Making their home in Idaho: status of Least Chub in the upper Snake River	Eric Billman, Michael Terribilini, Cody Smith, Trevor Williams, Chance Broderius, Paul Thompson
Poster	NA	May 1	10:00 AM	Spatiotemporal Variability of Trace Elements in the Skagit River, WA	Nikhil Amin
Poster	NA	May 1	10:00 AM	Can you tell me where your home is? Using rotary screw trap fry capture data and degree days to estimate the location of spring-run Chinook Salmon redds in Clear Creek, Redding, CA.	Chelsey Hand, Ryan Schaefer, Sam Provins
Poster	NA	May 1	10:00 AM	Density and distribution of snails, the first intermediate hosts of Euryhelmis cotti, in Birch Creek, Idaho	Daniel Rosso and Eric Billman Department of Biology, Brigham Young University, Idaho
Poster	NA	May 1	10:00 AM	Rostral Teeth of Endangered Sawfish Hold Important Life History Information in Their Internal Structure and Chemical Makeup.	Linh Truong

2024 PRESENTATIONS FOR WA-BC & IDAHO JOINT MEETING

ORAL AND POSTER PRESENTATIONS

FINAL LIST AS OF APRIL 23, 2024

SESSION	Order	Date	Time	TITLE	AUTHORS
Poster	NA	May 1	10:00 AM	Changes in fish habitat resulting from the Eightmile Creek Stream Restoration Project	Ashton Buma, Andre Kohler, Bart Gamett, Caselle Wood, Jim Gregory
Poster	NA	May 1	10:00 AM	Assessing spatial and temporal changes in stream fish communities of the upper Salmon River headwaters	Luke Anderson, Brett Kelly
Poster	NA	May 1	10:00 AM	Comparison of Genetic Preservation Methods for Fish Tissue Samples in the Columbia River Basin	Janae F. Cole, Rebekah L. Horn, PhD.
Poster	NA	May 1	10:00 AM	Precocial Chinook Salmon in the Lemhi River, Idaho	Ian Mott, Stacey Meyer, and Amber Young
Poster	NA	May 1	10:00 AM	Upper Thermal Tolerance of native Cottus spp. from the Blue Mountains of Washington and Oregon.	Rachael Valeria
Poster	NA	May 1	10:00 AM	Analysis of Chinook Salmon Otoliths to Examine Early Life History	Julia Grams
Poster	NA	May 1	10:00 AM	Investigating the relationships between biotic and abiotic factors that affect migratory behavior in Westslope Cutthroat Trout (<i>Oncorhynchus clarkii lewisi</i>) within the Priest River system.	Kyle Keenan
Poster	NA	May 1	10:00 AM	Burbot At The College of Southern Idaho	Avery DeWit and Ethan Helmer
Poster	NA	May 1	10:00 AM	Fish Passage Barriers and Stranding Associated with Irrigation Diversions	Jenni Novak
Poster	NA	May 1	10:00 AM	The Influence of Ecoregions and Land Use and Land Cover on Fish Assemblages in Southern Minnesota	Masaki Hara
Poster	NA	May 1	10:00 AM	Factors influencing bull trout populations on the Salmon Challis National Forest	Patrick Catalano, Elizabeth Jossie, Christopher Kopack
Poster	NA	May 1	10:00 AM	Efforts toward development of a standardized visual survey protocol for western North American freshwater mussels	John Erhardt
Poster	NA	May 1	10:00 AM	Seasonal dynamics of <i>Contracaecum multipapillatum</i> infection in brook stickleback (<i>Culaea inconstans</i>) Turnbull National Wildlife Refuge	Sarah Flores
Poster	NA	May 1	10:00 AM	Juvenile salmonids surprisingly swap streams separated by saltwater shorelines	Stuart Munsch
Poster	NA	May 1	10:00 AM	Length and Fecundity of Yellow Perch	Crystal Alexander, Jordan Messner, Anthony Dangora, and Amber N. Young
Poster	NA	May 1	10:00 AM	Pacific Salmon Data Discovery Tool	Katie Barnas (NOAA), Monica Diaz (PFMFC), Damon Holzer (NOAA), Mary Hunsicker(NOAA), Chris Jordan(NOAA), Nancy Leonard (PSMFC), Eric Ward (NOAA), Mari Williams (NOAA)
Predictions	1	May 1	1:00 PM	Introducing a Novel Stock-Specific Indicator of Salmon Survival in the Marine Environment	Brian J Burke
Predictions	2	May 1	1:20 PM	Winter ichthyoplankton community composition and predicting Columbia River spring Chinook salmon adult returns for 2024	Elizabeth A. Daly and Toby D. Auth
Predictions	3	May 1	1:40 PM	Assessing the Impacts of Environmental and Ecological Variables on the Performance of Fraser Sockeye Salmon Forecast	Yi Xu, Qi Liu, Caihong Fu, John Holmes
Predictions	4	May 1	2:00 PM	Incorporating marine climate indicators to predict Chum Salmon <i>Oncorhynchus keta</i> returns in south Puget Sound, Washington	Matthew R. Bogaard*, Mickey Agha
Sockeye	1	May 2	10:00 AM	Life-cycle model reveals sensitive life stages and evaluates recovery options for a dwindling sockeye salmon population	Neala Kendall
Sockeye	2	May 2	10:20 AM	Bringing the salmon home – Evaluating the feasibility of sockeye salmon reintroduction to historic habitat in the Columbia River upstream of Grand Coulee Dam	Patrick Zubick
Sockeye	3	May 2	10:40 AM	Snake River Sockeye Salmon Captive Broodstock and Springfield Hatchery Smolt Program: a 10-year perspective	Eric Johnson1, Dan Baker1, Chris Tataro2, Kurt Tardy3, and David Venditti1
Sockeye	4	May 2	11:00 AM	40 years of Sockeye Salmon Research at Bonneville Dam	Jeffrey K. Fryer
Sockeye	5	May 2	11:20 AM	Open	Open
Sturgeon	1	April 30	3:40 PM	POPULATION DYNAMICS OF WHITE STURGEON IN THE UPPER SNAKE RIVER, IDAHO: EVALUATION OF MANAGEMENT OPTIONS FOR A HARVEST FISHERY	Donavan K. Maude
Sturgeon	2	April 30	4:00 PM	Validation of techniques for estimating the age and growth of known-age White Sturgeon	Courtne Ghere
Sturgeon	3	April 30	4:20 PM	Failing to Thrive – Can translocation help rebuild White Sturgeon populations?	Jacob Hughes
Sturgeon	4	April 30	4:40 PM	An evaluation of the White Sturgeon population and sport fishery at C.J. Strike Reservoir in response to an acute, localized mortality event	Philip Branigan
Sturgeon	5	April 30	5:00 PM	15 Years of Shovelnose Sturgeon Monitoring in the Missouri River, Montana: River Discharge and Water Temperature Cue Different Stages of Movement Including Tributary Entrance	Brian Tornabene
Tech	1	May 1	8:00 AM	Juvenile Anadromous Fish Utilization of Side Channels in the Lemhi River, Idaho	Michael Hall
Tech	2	May 1	8:20 AM	Modular, adaptive, mechanistic evolution of Whoosh Technologies: How they Work	Redwood Stephen, Cole Andrus, Janine Bryan, Marc Bommarito, Leonardo Matamoros, Whitney Goodwin
Tech	3	May 1	8:40 AM	Utilizing the Spotting Patterns of Bull Trout to Identify Individuals in Photo Identification Software	Lonnie Parry-Gillis
Tech	4	May 1	9:00 AM	Automating Fish Passage Counting Using AI/ML	James Joslin and Sam Haffey
Tech	5	May 1	9:20 AM	Metrics for Estimating Strike Injuries During Fish Passage through Kaplan Turbines	Tao Huang
Tech	6	May 1	1:40 PM	Technology modifications to extend application potential: Eel to Pacific Lamprey	Janine Bryan Whitney Goodwin
Tech	7	May 1	2:00 PM	Next-Generation Miniature Transmitter Development for Fish Passage Monitoring	Daniel Deng

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SESSION	Order	Date	Time	TITLE	AUTHORS
Tech	8	May 1	2:20 PM	Bottlenecks to Survival for Chinook, Coho, and Steelhead	Jamieson Atkinson
Tech	9	May 1	2:40 PM	Detection of Environmental DNA using CRISPR-Cas12 Technology	Tholen Blasko
Tech	10	May 1	3:00 PM	Acoustic Telemetry Techniques and Applications for Assessing Juvenile Salmon Passage Behavior at Pacific Northwest Hydroelectric Facilities	Drew Stang
Tech	11	May 1	3:40 PM	Effectiveness of Tools used to Evaluate Bull Trout Capture at the Cabinet Gorge Dam Fish Passage Facility	Tyler Zumwalt, Shana Bernal
Tech	12	May 1	4:00 PM	Low head, bidirectional, self-energy generating, continuous passage technology	Mike Messina Redwood Stephens Janine Bryan
Tech	13	May 1	4:20 PM	Using visual recognition technology to automate sonar counts of salmonids returning to spawn	Erik Young
Tech	14	May 1	4:40 PM	Use of an Acoustic Telemetry Pressure Tag to Evaluate Behavior and Approach Depth of Juvenile Salmonids at Yale Dam	Leah Nagel, Lindsey Leyzac, Lucius Caldwell, Rohan Adla, Sam Haffey, Chris Karchesky, and Mark Weiland
Tech	15	May 1	5:00 PM	Local hydraulics influence habitat selection and swimming behavior in adult California Central Valley Chinook salmon at a large river confluence	Sean Luis
Tribal	1	April 30	1:40 PM	Traditional Ecological Knowledge at Work: Adapting Indigenous Practices to Inform Ecosystem-Based Management Decisions for Herring and Salmon in Puget Sound	Jayde Essex
Tribal	2	April 30	2:00 PM	Aquatic Invasive & Non-Native Species: An Indigenous Perspective	Anthony Capetillo
Tribal	3	April 30	2:20 PM	RECENT ADAPTATIONS OF THE KOOTENAI RIVER NATIVE FISH CONSERVATION AQUACULTURE PROGRAM TO RESTORE WHITE STURGEON AND BURBOT	Brian Michaels
Tribal	4	April 30	2:40 PM	Benewah Watershed Stream and Floodplain Restoration: Building Climate Resilience for Native Trout	Stephanie Hallock
Tribal	5	April 30	3:00 PM	Towards a Prioritization Approach for Aquatic Habitat Restoration Projects that Incorporates Indigenous Interests	Eric Berntsen