

Pacific Coast Steelhead Management Meeting

Fort Worden - Port Townsend, WA

March 13-15, 2012

Monday, March 12, 2012 - USO Hall

2:00 - 5:00 pm	Registration
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Tuesday, March 13, 2012

7:00 - 8:00 am	Continental breakfast in the dining hall
7:00 - 8:00 am	Registration in the USO hall
8:00 - 8:10 am	Welcome, Introductions & Housekeeping Items Roger Harding, ADFG and Stephen Phillips, PSMFC
8:10 - 10:10 am	Session One - 20 Minute Presentations Steelhead Stock Status Review - Chair: Shivonne Nesbit, ODFW 8:10 California - Jonathan Nelson, CDFG 8:30 Oregon - Kevin Goodson, ODFW 8:50 Idaho - Alan Byrne, IDFG 9:10 Washington - Bob Leland and Anne Marshall, WDFW 9:30 British Columbia - Sue Pollard, BC MFLNRO 9:50 Alaska - Brian Marston, ADFG
10:10 - 10:25 am	BREAK
10:25 - 12 Noon	Session Two - 25 Minute Presentations Life History Updates - Chair: Alan Byrne, IDFG 10:25 Response of a steelhead population and stream habitat to wildfire in a central California chaparral watershed - David Boughton, NOAA 10:50 Contribution of resident <i>O. mykiss</i> to anadromous populations. Implications for VSP analysis - Rich Carmichael, ODFW 11:15 Effect of differing age structure in steelhead populations within an MPG on productivity estimates used in VSP analysis - Tim Copeland, IDFG Idaho - Alan Byrne, IDFG 11:40 Iteroparity in SE Alaska steams: Importance of repeat spawning to sustained production - David Love, ADFG
Noon - 1:15 pm	Lunch - Commons Dining Hall
1:15 - 2:30 pm	1:15 Natural stray rates - What's a stray and how can we measure it? Insights from Steelhead populations in the Copper River and Prince of Wales Island - Jeff Olsen, USFWS 1:40 How do we incorporate all this variation in a steelhead VSP analysis. Some insights using 'what-if?' modeling - Tom Cooney, NOAA

1:40 - 2:30 pm	<p>Session Two Life History Updates Continued:</p> <p>2:05 Panel/audience discussion on how steelhead life history variation affects VSP analysis and determining the viability status of populations and MPGs. Also, how and what should we measure to assess spatial structure and genetic diversity in steelhead populations.</p>
2:30 - 5:10 pm	<p>Session Three - 20 Minute Presentations Hatchery Issues - Chair: James Dixon, WDFW</p> <p>2:30 Ecologic and demographic costs of releasing non-migratory juvenile hatchery summer steelhead - Charlie Snow, WDFW</p> <p>2:50 Lower Snake River Compensation Plan Steelhead Program - A retrospective and program adaptive management - Mark Schuck & Joe Bumgarner, WDFW</p>
3:10 - 3:30 pm	BREAK
	<p>3:30 Is interbreeding of wild and hatchery winter steelhead prevented by divergent life history? - Todd Seamons, WDFW</p> <p>3:50 Effectiveness of alternative broodstock, rearing and release practices - Methow River Summer Steelhead - Bill Gale, Mathew Cooper and Chris Pasley - USFWS</p> <p>4:10 Variation in the effectiveness of alternative broodstock, rearing and release practices among three supplemented steelhead populations - Hood Canal, WA - Barry Berejikian, NOAA</p> <p>4:30 Strategies to maximize the efficiency of using parental based tagging as a tool to meet management and research objectives Carl Stiefel, IDFG</p> <p>4:50 Discussion and panel Q & A - 10 minutes, end at 5:00</p>
5:00 pm 6:00 pm	<p>Adjourn Reception - ‘Local Goods Café’ & Dinner in - Commons Dining Hall</p>
7:30 pm	<p>Poster Session in the USO Building - Chair: Carol Coyle, ADFG</p> <ul style="list-style-type: none"> • ESA coverage of steelhead harvest in Puget Sound salmon and steelhead fisheries - Amilee Wilson, NOAA • Genetic estimation of stock abundance and run-timing of Interior Columbia River steelhead passing Bonneville Dam - Jon Hess, CRITFC • Columbia River alternative gear studies: Preliminary survival estimates of steelhead caught and released in commercial purse and beach seines - Josh Holowatz, WDFW • A comparison of the nutritional and energetic status of kelts from the Snake River and coastal Situk River, AK using blood plasma metrics - Zachary Penney, University of Idaho

	<p>Poster Session Continued:</p> <ul style="list-style-type: none"> • Steelhead smolt survival in Oregon coastal rivers David Noakes, OSU • Diminished reproductive success of steelhead from a hatchery supplementation program (Little Sheep Creek, Imnaha Basin, Oregon) - Ewann Berntson, NWFSC • Restoring anadromy: Identifying historic fish passage beyond natural obstacles in the Oregon Cascades - Sierra Lewis, OSU • Steelhead monitoring program in California: Past, present and into the future - Jonathan Nelson, CDFG
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Wednesday, March 14, 2012

7:00 - 8:00 am	Continental breakfast in the dining hall
7:00 - 8:00 am	Registration in the USO hall
8:10 - 12 Noon	<p>Session Four - 15 Minute Presentations Steelhead Data, Monitoring and Management: Approaches to Steelhead Monitoring and Management with Decreasing Budget - Chair: Dan Rawding, WDFW</p> <p>8:10 Mark-resight estimates using PIT and Floy tags to estimate adult steelhead responses to Hemlock Dam removal in SW Washington - Charlie Cochran, WDFW</p> <p>8:25 Decomposing Lower Granite Dam steelhead runs into tributary escapement estimates using instream PIT tag arrays - Chris Beasley & Jody White, QCI</p> <p>8:40 Comparisons abundance estimate based on PIT Tag detection and weir operations in Snake River tributaries - Jason Vogel, NPT</p> <p>8:55 Genetic based approach to steelhead population estimates above Lower Granite Dam - Matt Campbell, IDFG</p> <p>9:10 PIT/Genetic Abundance Discussion - 15 minutes</p> <p>9:25 Estimates of steelhead harvest rates based on PIT tag sampling in Columbia River Fisheries - Steve VanderPloeg, WDFW</p> <p>9:40 Examination of angler catch by stock composition of summer steelhead in the Deschutes River, OR 1977-2011: Why don't hatchery fish bite? - Jason Seals, ODFW</p> <p>9:55 Fisheries discussion - 10 minutes, end at 10:05</p>
10:05 - 10:25 am	BREAK
10:25 - 12 Noon	<p>10:25 Factors influencing redd observer efficiency in the Wenatchee Basin - Chad Herring, WDFW</p> <p>10:40 Estimating steelhead redd abundance and variance based on redd observer efficiency - Andrew Murdoch, WDFW</p>

	<p>Steelhead Data, Monitoring and Management Continued:</p> <p>10:55 Directed acyclic graphs: A tool to incorporate uncertainty in steelhead redd based escapement estimates - Danny Warren, WDFW</p> <p>11:10 Estimates of steelhead escapement from video counts - Ken Gates, USGS</p> <p>11:25 Redd/Video abundance discussion - 15 minutes, end at 11:40</p> <p>11:40 An approach for developing biological reference points for steelhead populations in the Lower Columbia River - Bryce Glaser, WDFW</p>
Noon - 1:15 pm	Lunch - Commons Dining Hall
1:15 - 1:40 pm	<p>1:15 Integrated Status & Trend (ISTM) Project: An overview of establishing, evaluating and modifying monitoring priorities for Lower Columbia River Steelhead - Jeff Rodgers, ODFW</p> <p>1:30 Discussion - 10 minutes, end at 1:40</p>
1:40 - 5:00 pm	<p>Session Five - 20 Minute Presentations</p> <p>Invited Papers - Part I - Chair: Nick Gayeski, Wild Fish Conservancy</p> <p>1:40 Puget Sound steelhead abundance near the turn of the 20th century estimated from commercial catch record data - Nick Gayeski</p> <p>2:00 Origin and run-timing of hatchery steelhead strays into the spawning grounds of two eastside tributaries of the Deschutes River, OR - Derrek Faber, ODFW</p> <p>2:20 Reduced recruitment performance in natural populations of anadromous salmonids associated with hatchery-reared fish - Kevin Goodson, ODFW</p> <p>2:40 Physical habitat characteristics contribute to life history variation among seven <i>Oncorhynchus mykiss</i> populations in Hood Canal - Lance Campbell, WDFW</p>
3:00 - 3:20 pm	BREAK
	<p>3:20 Life history responses of <i>Oncorhynchus mykiss</i> to selective processes in early life - Matthew Sloat, OSU</p> <p>3:40 The influence of sex and migration distance on the expression of anadromy in <i>Oncorhynchus mykiss</i> - Haley Ohms, OSU</p> <p>4:00 Sex reversal or selection against hatchery females does not explain differences in sex ratio between hatchery and wild steelhead, <i>Oncorhynchus mykiss</i> - Neil F. Thompson, OSU</p> <p>4:20 Update on development of a nomenclature for steelhead - Hal Michael, Retired WDFW</p>

4:40 pm	Adjourn
6:00 pm	BBQ in the USO Hall
7:30 pm	“Steelhead Wisdom & Humor” - Bob Hooton

Thursday, March 15, 2012

7:00 - 8:00 am	Continental breakfast in the dining hall
8:00 - 11:40 am	<p>Session Six - 20 Minute Presentations Invited Papers - Part II - Chair: Hal Michael, Retired WDFW</p> <p>8:00 Discussion of winter steelhead R/S and implications for management - Hal Michael, Salmonid Ecosystem Ecologist, Olympia, WA</p> <p>8:20 Synergistic impacts of climate change: Increased temperature and flooding and the persistence of endangered steelhead in southern California - Matthew Sloat, OSU</p> <p>8:40 Differential productivity for Coho-based on other species escapement - Leon Shaul and Harold Geiger (presenter Roger Harding), ADFG</p> <p>9:00 Friend or Foe: Influence of resident trout on steelhead production in the Yakima Basin - Ian Courter, Cramer Fish Sciences</p> <p>9:20 Maybe it wasn't hatchery fish; environmental possibilities to steelhead decline - Wes Hoppler, Steelhead Trout Club of WA</p> <p>9:40 The clean-water paradox: Impacts of Troy WWTP on juvenile steelhead habitat - Hal Michael, retired WDFW and Ricardo Sanchez-Murillo, University of Idaho</p>
10:00 - 10:20 am	BREAK
	<p>10:20 Western Washington winter steelhead stock structure - Todd Kassler and Ken Warheit, WDFW</p> <p>10:40 <u>Part 1:</u> Management and recovery implications of wild/hatchery steelhead interactions within a large complex watershed - Skagit River, WA - Dave Pflug and Ed Connor, Seattle City Light</p> <p>11:00 <u>Part 2:</u> Management and recovery implications of wild/hatchery steelhead interactions within a large complex watershed - Skagit River, WA - Dave Pflug and Ed Connor, Seattle City Light</p> <p>11:20 WRAP UP and closing remarks - Roger Harding, ADFG and Stephen Phillips, PSMFC</p> <p>11:30 <u>THE END</u></p>