



# 2014 Pacific Coast Steelhead Management Meeting – AGENDA

Skamania Lodge – Skamania, WA  
Tuesday-Wednesday – March 18-20, 2014

Monday, March 17, 2014

2:00 – 5:00 pm	<b>MEETING CHECK-IN</b>
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## Tuesday, March 18, 2014

7:00 - 8:00 am	<b>BREAKFAST – CASCADE DINING ROOM</b>
7:00 am - 5:00 pm	<b>MEETING CHECK-IN</b>
8:00 am	<b>Welcome, Introductions &amp; Housekeeping Items</b> Roger Harding, ADFG and Stephen Phillips, PSMFC
8:10 – 10:10 am	<b>Session One – 20 Minute Presentations</b> <b>Steelhead Stock Status Review – Chair: Shivonne Nesbit, ODFW</b> 8:10 – California – Jonathan Nelson, CDFW 8:30 – Oregon – Eric Brown, ODFW 8:50 – Idaho – Alan Byrne, IDFG 9:10 – Washington – Jeremy Cram, WDFW 9:30 – British Columbia – Mark Beere, BC Ministry of Forests, Lands & Natural Resource Operations 9:50 – Alaska – Bob Chadwick, ADFG
10:10 – 10:25 am	<b>BREAK</b>
10:25 am – 12:05 pm	<b>Session Two – 25 Minute Presentations</b> <b>Genetics &amp; Management Session – Chair: Alan Byrne, IDFG</b> 10:25 – Genetics 101 for Managers: A brief review of PBT and GSI technologies for wild and hatchery steelhead stock assessment – Craig Steele, IDFG 10:50 – Genetic Estimation of Stock Abundance and Run-timing of Interior Columbia River Steelhead Passing Bonneville Dam - Jon Hess, CRITFC 11:15 – Genomic signatures of domestication in two widely used hatchery strains – Sewall Young, WDFW 11:40 – Detecting Introgressive Hybridization between Segregated Hatchery and Wild Populations, Part II – Ken Warheit, WDFW
12:05 – 1:15 pm	<b>LUNCH – CASCADE DINING ROOM</b>
1:15 – 2:30 pm	<b>Genetics &amp; Management Session – Continued:</b> 1:15 – A collaboration of two innovative technologies for VSP Monitoring of the Snake River Steelhead DPS – Mike Ackerman, IDFG 1:40 – Jumping the Falls? Interactions Between Resident and Anadromous <i>O. Mykiss</i> Populations At a Putative Natural Barrier – Big Bear Falls – Potlatch River, ID – Brett Bowersox, IDFG 2:05 – A genetic analysis of the summer steelhead stock composition in Columbia River sport and tribal fisheries – Alan Byrne, IDFG 2:30 – Panel Discussion – Moderator: Alan Byrne, IDFG

2:50 – 3:10 pm	<b>BREAK</b>
3:10 – 5:10 pm	<p><b>Session Three – 20 Minute Presentations</b>  <b>Hatchery Issues – Chair: Russ Bellmer, CDFW</b></p> <p>3:10 – Insights into Oregon anglers: How angler opinions can help fisheries management – Kevin Goodson, ODFW</p> <p>3:30 – Alternative steelhead smolt rearing strategies for locally derived broodstocks – Chris Tatara, NOAA NWFSC</p> <p>3:50 – Elucidation of reproductive traits in California steelhead using intergenerational genetic tagging – Carlos Garza, NOAA SWFSC</p> <p>4:10 – Recommendations of the California Hatchery Scientific Review Group for California’s Steelhead Programs – Russ Bellmer, CDFW</p> <p>4:30 – Increased size at release of hatchery steelhead decreases tendency of Trinity River Steelhead to exhibit the half-pounder life history – Matt Peterson, Humboldt State Univ</p> <p>4:50 – Panel discussion – Moderator: Russ Bellmer, CDFW</p>
5:10 pm 5:10 - 7 pm	<p><b>ADJOURN</b>  <b>DINNER IN THE CASCADE DINING ROOM</b></p>
7:30 pm	<p><b>Poster Session – Chair: Russ Bellmer, CDFW</b></p> <ol style="list-style-type: none"> <li>1. Hatchery Steelhead Release Strategies Used at WDFW Hatcheries to Reduce Potential Risks Posed to Native ESA-listed Fish Populations. CHRISTINA IVERSON, WDFW</li> <li>2. Reproductive Development In Reconditioned Female Yakima River Steelhead Kelts: Evidence For Consecutive and Skip Spawning Life Histories. Andrew L. Pierce, CRITFC</li> <li>3. Salmon River steelhead population genetics with evidence of gene flow between headwaters. Eric LaHood, NWFSC</li> </ol>

**Wednesday, March 19, 2014**

7:00 - 8:00 am	<b>BREAKFAST - CASCADE DINING ROOM -</b>
7:00 am - 5:00 pm	<b>MEETING CHECK-IN</b>
8:00 – 10:15 am	<p><b>Session Four – 20 Minute Presentations</b>  <b>“Life History” Session – Chair: Dan Rawding, WDFW</b></p> <p>8:00 – Yakima River adult steelhead life history – Chris Frederiksen, Yakima Nation</p> <p>8:20 – Emigration timing and morphology of adult steelhead in the Situk River, Alaska – Brian Marston, ADFG</p> <p>8:40 – Potential influence of pink salmon on steelhead smolts in Puget Sound – Matt Klungle, WDFW</p> <p>9:00 – Skagit River juvenile steelhead abundance and diversity – Clayton Kinsel, WDFW</p> <p>9:20 – Using physiological tools to forecast male life-history types to aid in management of hatchery and wild <i>Oncorhynchus mykiss</i> – Donald Larsen, NOAA NWFSC</p> <p>9:40 – Panel Discussion – Moderator: Dan Rawding, WDFW</p>
10:15 – 10:30 am	<b>BREAK</b>
10:30 am – Noon	<p><b>“Life History” Session - Continued – Continued</b></p> <p>10:30 – Use of PIT tags to estimate adult steelhead straying in the Columbia/Snake River – Joe Bumgarner, WDFW</p> <p>10:48 – Wind River steelhead: an example of significant iteroparity in the Columbia River Hydrosystem – Thomas Buehrens, WDFW</p> <p>11:06 – Columbia River steelhead life cycle modeling based on PIT tags – Dan Rawding, WDFW</p>

	<p>11:24 – Life-cycle models for the diverse and plastic <i>Oncorhynchus mykiss</i>: Challenges and Opportunities – Neala Kendall, WDFW</p> <p>11:42– Panel Discussion – Moderator: Dan Rawding, WDFW</p>
Noon – 1:15 pm	<b>LUNCH - CASCADE DINING ROOM -</b>
1:20 – 3:00 pm	<p><b>Session Five – 20 Minute Presentations</b>  <b>Climate Change and Ocean Ecology of Steelhead Session</b>  <b>Chair: Sue Pollard – BC Fisheries, Victoria, BC</b></p> <p>1:20 – An overview of steelhead juvenile ecology and survival when they first enter the ocean in relation to projected climate change – Rick Brodeur, NOAA NWFSC</p> <p>1:40 – Potential effects of climate change on the high seas life history and ecology of steelhead in the North Pacific Ocean – Kate Myers – Retired, University of Washington</p> <p>2:00 – Early marine survival of Puget Sound steelhead and how it may explain departure of abundance trends between Puget Sound and coastal populations – Barry Berejikian, NOAA NWFSC</p> <p>2:20 – Summarizing catch/timing and distribution results of steelhead from ocean survey in the California portion of the California current, including diet information – Sean Hayes, NOAA SWFSC</p> <p>2:40 – Post-smolt growth effects on the pattern of marine survival of Keogh River steelhead – Kevin Friedland, NOAA NEFSC</p>
3:00 – 3:20 pm	<b>BREAK</b>
3:20 – 5:00 pm	<p><b>Climate Change and Ocean Ecology of Steelhead Session – Continued:</b></p> <p>3:20 – Diversity and resilience – planning ahead – Jonathan Moore, Simon Fraser University, BC</p> <p>3:40 – A brief summary of climate change and related management challenges for steelhead – Nate Mantua, NOAA SWFSC</p> <p>4:00 – Panel discussion Part 1: Panelists address moderator’s question (5 minutes each)  Moderator: Nate Mantua, NOAA SWFSC</p> <p>4:30 – Panel discussion Part 2: Open Discussion &amp; Question/Answer</p>
5:00 pm 6:00 pm 7:00 pm	<p><b>ADJOURN</b>  <b>RECEPTION &amp; BANQUET – CASCADE BALLROOM A</b>  <b>ENTERTAINMENT</b></p>

**Thursday, March 20, 2014**

7:00 - 8:00 am	<b>BREAKFAST - CASCADE DINING ROOM</b>
8:00 – 10:00 am	<p><b>Session Six – 20 Minute Presentations</b>  <b>Invited Papers – Chair: Bob Leland, WDFW</b></p> <p>8:00 – Somatic lipid content of winter and summer steelhead trout returning to the Kalama River, WA – Jamie Lamperth, WDFW</p> <p>8:20 – Energetics and physiology of Columbia/Snake Steelhead – Christine M Moffitt, USGS University of Idaho</p> <p>8:40 – Comparisons of snorkeling and electrofishing methodologies for monitoring juvenile steelhead on large spatial scales – Ron Constable, ODFW</p> <p>9:00 – Evaluation of spatial designs to estimate steelhead abundance using redd surveys – Martin Liermann, NOAA NWFSC</p> <p>9:20 – Spatial Ecological Processes and Local Factors Predict the Distribution and Abundance of Spawning by Steelhead (<i>Oncorhynchus mykiss</i>) across a Complex Riverscape –</p>

	<p>Jeff Falke, USGS AK Cooperative Fish &amp; Wildlife Research Unit</p> <p>9:40 – Density dependence, hatchery releases, and environmental conditions explain annual variation in productivity of Skagit River wild steelhead – Joe Anderson, WDFW</p>
10:00 – 10:20 am	<b>BREAK</b>
10:20 – 11:20 am	<p><b>Invited Papers – Continued:</b></p> <p>10:20 – Sex biased survival and differences in migration of wild steelhead (<i>Oncorhynchus mykiss</i>) Smolts from two coastal Oregon rivers – Neil Thompson, OSU</p> <p>10:40 – Estimating residency and anadromy using sex ratio estimates – Haley Ohms, OSU</p> <p>11:00 – Genetic evaluation of <i>O. Mykiss</i> in Rock Creek – Andrew Matala, CRITFC</p> <p>11:20 – Influence of resident rainbow trout on steelhead populations in the Columbia Basin – Ian Courter, Mount Hood Environmental</p>
11:40	<p><b>WRAP UP &amp; Closing Remarks</b></p> <p>Roger Harding, ADFG &amp; Stephen Phillips, PSMFC</p>