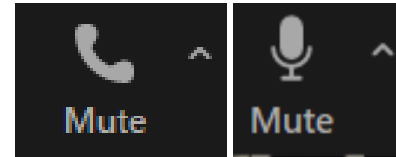


Columbia Basin Collaborative Hatcheries Subgroup

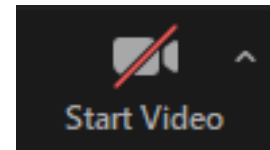
June 13th, 2023

Zoom Features

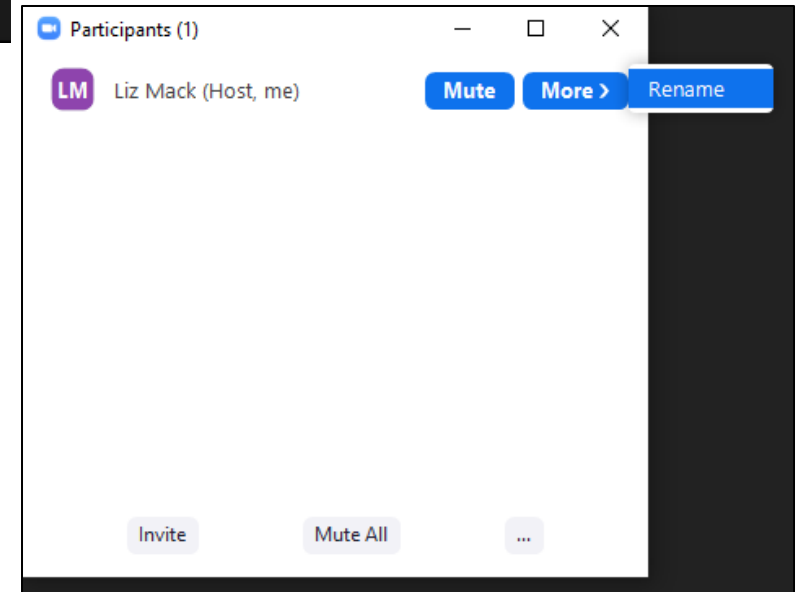
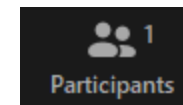
Keep yourself on mute when not speaking.



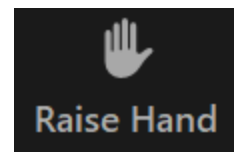
Use video, if possible, to promote face to face communication.



Please **rename yourself** in the participant panel to include your title and affiliation.

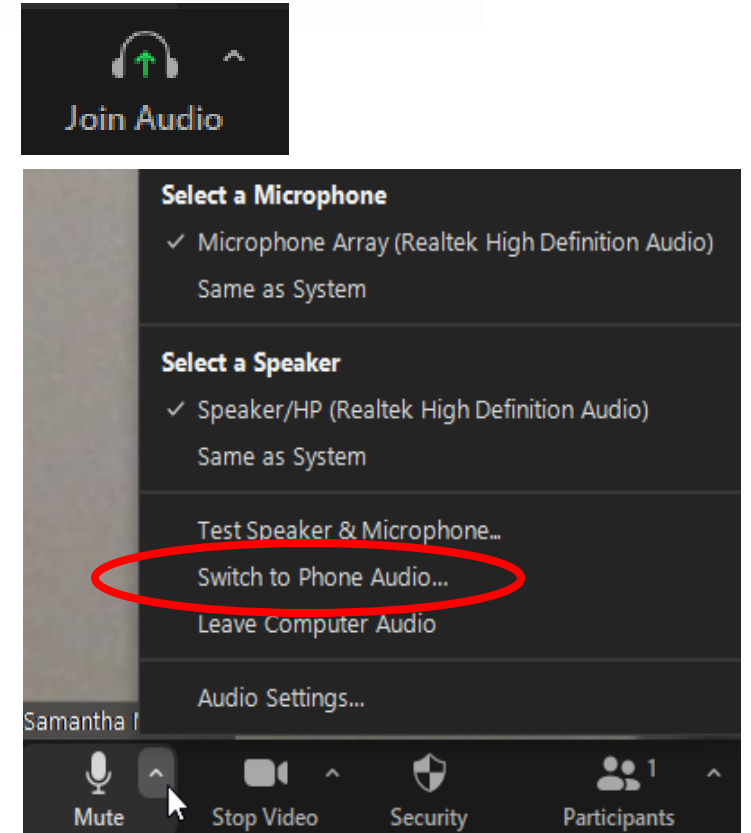


Find your **raise hand function** at the bottom of your screen



Zoom Features

- If you have not **connected your audio**, click on the “Join Audio” at the bottom left of your screen.
- To **switch to phone**, click the arrow next to the microphone icon and select “Switch to Phone Audio”.
- If you have joined by browser, please click “Audio Settings”

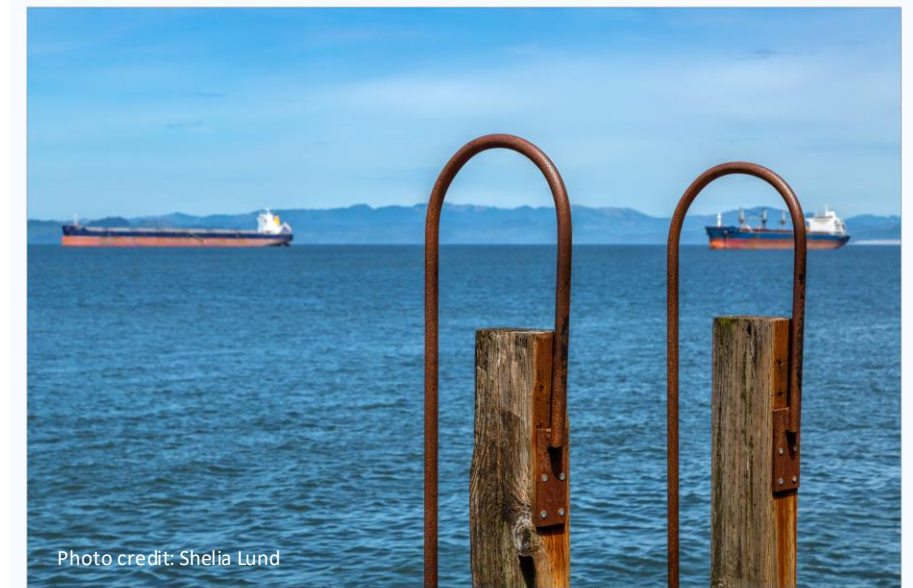


For technical support, please contact Grant Simmons, 831-331-7077

Welcome and Agenda Review

Meeting Guidelines

- Honor the agenda and be present
- Listen to understand and ask questions to clarify
- Balance speaking time and don't pile on
- Seek alignment and common ground wherever possible
- Focus on your interests, not positions
- Invent options for mutual gain
- Separate the people from the problem



Agenda Review

Time (PT)	Topic
3:30 – 3:35 pm	Welcome and Agenda Review
3:35 – 4:00 pm	Review Hatchery CBP Goals
4:00– 4:25 pm	Discussion of Hatcheries Recommendation in relation to CBP Goals
4:25 – 4:30 pm	Confirm Next Steps and Action Items

Review Hatchery CBP Goals

CBP Qualitative Goals

1. Restore salmon and steelhead in the Columbia Basin to healthy and harvestable/fishable levels.
2. Provide diverse, productive, and dependable tribal and non-tribal harvest and fishing opportunities for Columbia Basin salmon and steelhead in fresh and marine waters.
3. ***Produce hatchery salmon and steelhead to support conservation, mitigate for lost natural production, and support fisheries, in a manner that strategically aligns hatchery production with natural production recovery goals.***
4. Make decisions within a broader context that reflects and considers effects to the full range of social, cultural, economic, and ecosystem values and diversity in the Columbia Basin. Together the Goals recognize a sense of urgency to help Columbia Basin salmon

CBP Hatchery Qualitative Subgoals (pg. 34, Table 3)

Subgoals	Within 25 years	Within 50 years	Within 100 years
<p>3-A. Support Natural Production: Utilize hatcheries to maintain, support, and restore natural production where appropriate</p>	<p>As appropriate, continue to utilize hatcheries to maintain, support, and restore at-risk populations, including those affected by climate change.</p>	<p>Use conservation hatchery strategies as needed to proactively address future threats, including climate change.</p>	<p>Achieve a future where conservation hatcheries are not necessary unless unforeseen natural events require an emergency response.</p>
<p>3-B. Mitigate for Lost Production and Support Fisheries: Produce hatchery fish to support tribal treaty/trust responsibilities and meaningful fishery opportunities to mitigate for historical losses due to development and to enhance fisheries</p>	<p>Make progress in reducing reliance on hatchery production for mitigation consistent with improvements in natural production.</p>	<p>Consider changes in hatchery objectives and production levels as overall fishery opportunities are maintained through increased fish abundance.</p>	<p>Achieve a future where the Basin relies less on hatchery production for mitigation and fishery enhancement only when natural production has increased.</p>
<p>3-C. Fish Protection: Strategically align hatchery production with natural production recovery goals, consistent with tribal treaty/trust responsibilities, and with other legal and mitigation requirements.</p>	<p>Continue to implement changes in hatchery practices and programs based on best available science (including, in some cases, changes in stocks or species produced) to minimize adverse effects of hatchery-origin salmon and steelhead on naturally produced salmon and steelhead.</p>	<p>Continue to refine hatchery production, strategies, and practices based on assessments of effectiveness and technology advances to minimize hatchery impacts on natural salmon and steelhead.</p>	<p>Reduce long-term hatchery impacts by rebuilding abundance, productivity, diversity, and distribution of natural salmon and steelhead.</p>

CBP Quantitative Goals

TABLE 8. Aggregate stock-specific abundance values for natural-origin escapement under current and historical conditions, and low, medium, and high goal ranges.

Stock	Current	Historical	Low goal	Med goal	High goal	High as % of historical
L Col R Spring Chinook	2,240	101,700	9,800	21,550	33,300	33%
L Col R Fall (tule) Chinook	12,329	169,700	28,050	54,100	82,000	48%
L Col R Late Fall (bright) Chinook	10,800	33,000	11,100	16,700	22,200	67%
L Col R Fall (bright) Chinook	11,000	0	11,000	11,000	11,000	-
L Col R Coho	31,524	301,900	67,925	129,550	191,400	63%
Col R Chum	11,762	461,300	16,500	33,000	49,500	11%
SW WA Winter Steelhead	3,252	19,100	4,650	5,850	6,950	36%
L Col R Winter Steelhead	5,989	41,900	19,000	27,900	36,400	87%
L Col R Summer Steelhead	10,594	61,200	21,100	29,800	38,100	62%
M Col R Spring Chinook	11,600	246,500	17,750	40,425	114,500	46%
M Col R Summer/Fall Chinook	11,500	17,000	4,000	13,000	16,000	94%
M Col R Coho	6,324	75,000	5,300	11,600	19,900	27%
M Col Sockeye	1,036	230,000	7,500	45,000	107,500	47%
M Col R Summer Steelhead	18,155	132,800	21,500	43,850	69,150	52%

U Col R Spring Chinook	1,430	259,450	11,500	19,840	30,135	12%
U Col R Summer Chinook	16,920	733,500	9,000	78,350	131,300	18%
U Col R Fall Chinook	92,400	680,000	9,200	62,215	87,835	13%
U Col R Coho	392	44,500	7,500	15,000	26,000	58%
U Col R Sockeye	40,850	1,800,000	31,500	580,000	1,235,000	69%
U Col R Summer Steelhead	1,480	1,121,400	7,500	31,000	47,000	4%
Snake R Spring/Summer Chinook	6,988	1,000,000	33,500	98,750	159,500	16%
Snake R Fall Chinook	8,360	500,000	4,200	10,780	23,360	5%
Snake R Coho	100	200,000	8,900	26,600	44,100	22%
Snake R Sockeye	100	84,000	5,500	15,750	26,000	31%
Snake R Summer Steelhead	28,000	600,000	22,500	75,000	131,500	22%
U Will R Spring Chinook	4,278	312,170	28,900	47,850	66,800	21%
U Will R Winter Steelhead	2,816	220,000	16,290	27,805	39,320	18%
Totals	352,119	9,446,120	441,165	1,572,265	2,845,750	30%

Table 8 of Columbia Basin Partnership Task Force Phase II Report

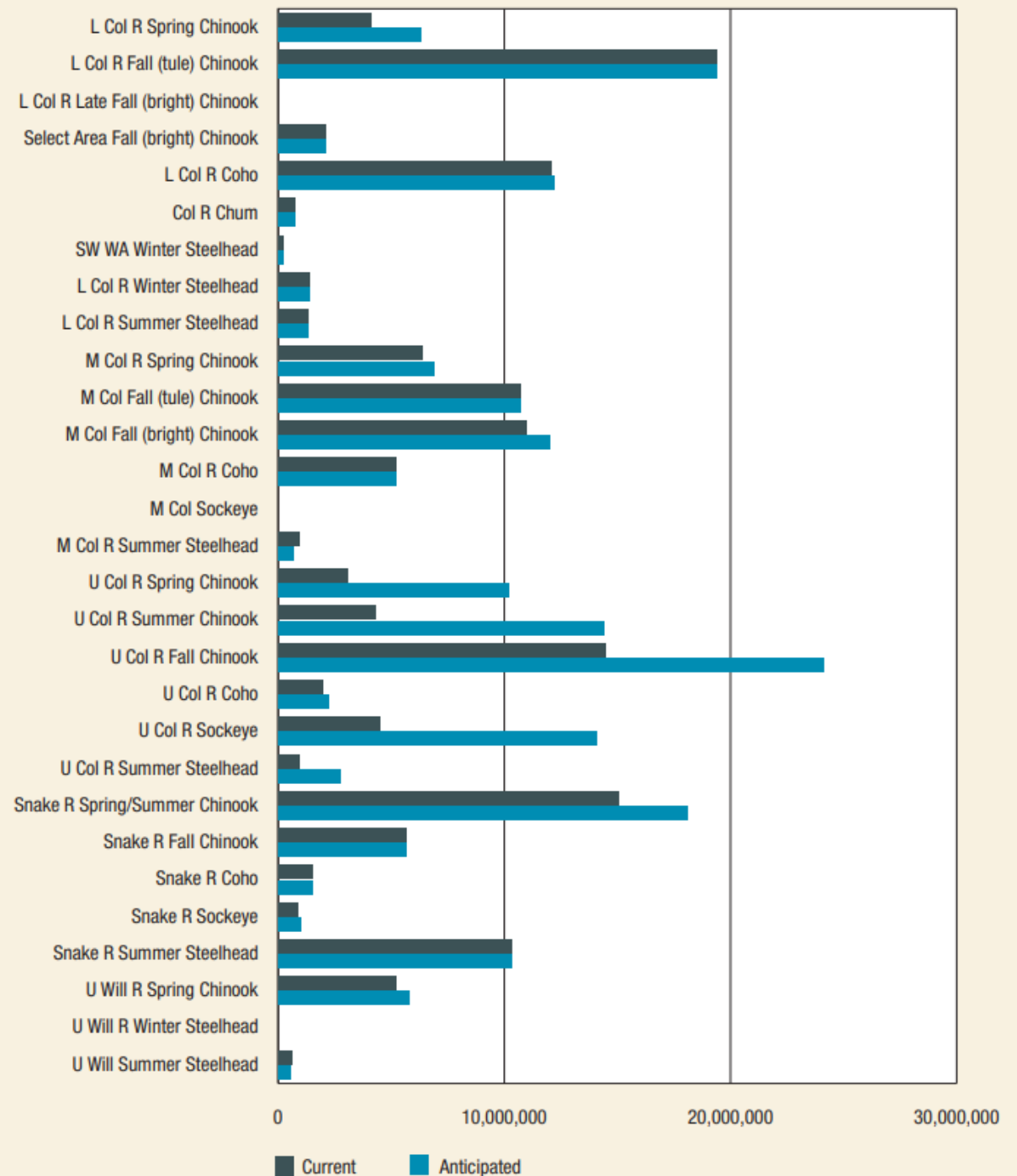
Current and Anticipated Hatchery Production

TABLE 9. Current and anticipated hatchery juvenile production and adult returns to the Columbia River of hatchery-origin salmon and steelhead.

Species	Current Production (Avg.)			Anticipated production		
	Yearlings	Subyearlings	Total	Adult returns	Total	Adult returns
Spring Chinook	31,870,500	2,055,000	33,925,500	217,100	47,402,500	301,800
Summer Chinook	3,102,000	1,184,000	4,286,000	45,000	14,400,000	140,000
Fall Chinook	900,000	62,366,500	63,266,500	456,300	73,956,500	564,300
Chum	0	770,000	770,000	300	770,000	300
Coho	20,350,000	508,600	20,858,600	374,000	21,239,000	377,600
Sockeye	900,000	4,500,000	5,400,000	34,070	15,100,000	101,300
Winter Steelhead	1,604,000	0	1,604,000	28,000	1,604,000	28,000
Summer Steel-head	12,780,300	1,350,000	14,130,300	344,700	15,645,000	365,000
Total	71,506,800	72,734,100	144,240,900	1,499,470	190,117,000	1,878,300

Current and Anticipated Hatchery Production

Figure A-3 of Columbia Basin Partnership Task Force Phase II Report (above left) and continued (above right)



Discussion of Hatcheries Recommendation in relation to CBP Goals

Draft Hatchery Recommendation

Repair, maintain, and build improvements to existing infrastructure and find sources of funding for deferred maintenance and system upgrades, including new equipment (capital investments). Enhance infrastructure to be climate change resilient. Utilize summary of Infrastructure needs and associated costs for Columbia basin federally funded hatcheries developed by state, federal, and tribal managers.

Next Steps

KW: Draft meeting summary; schedule next meeting



Thank you

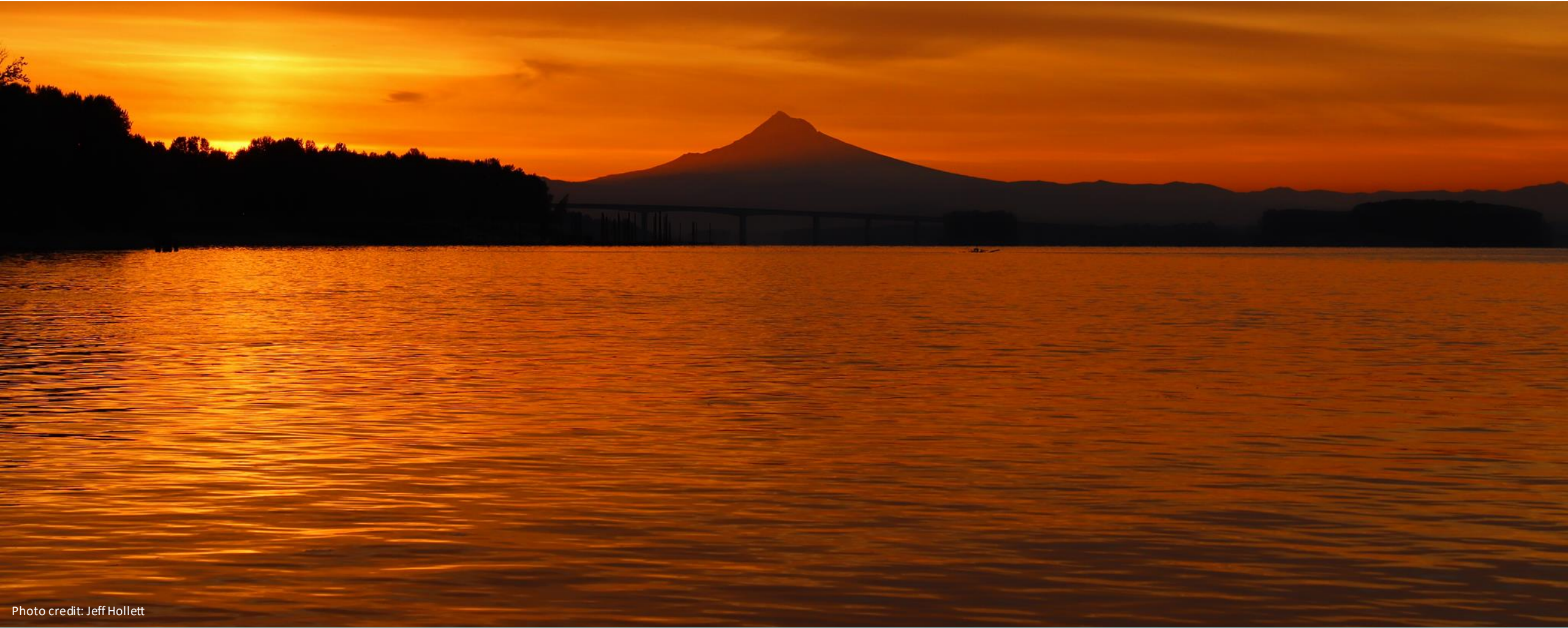


Photo credit: Jeff Hollett