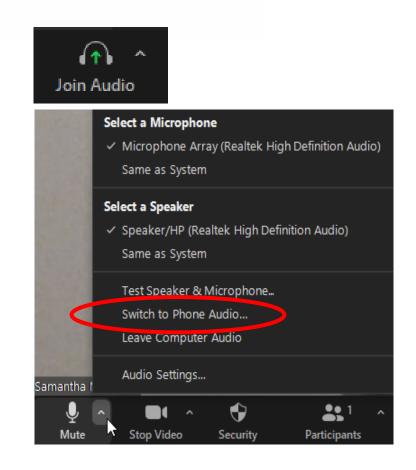
Columbia Basin Collaborative Estuary and Tributary Work Group

September 20th, 2022

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 Colin Johnson

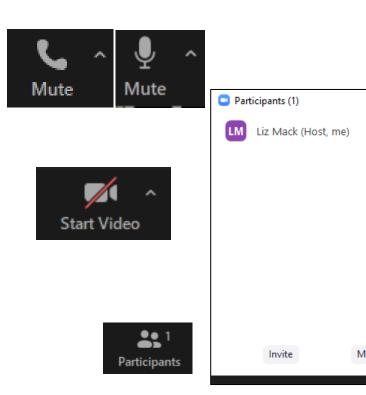
Zoom Features

Keep yourself on mute when not speaking.

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

If needed **rename yourself** in the participant panel.

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

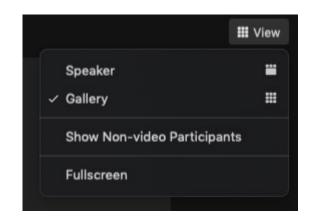


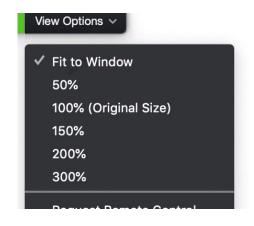


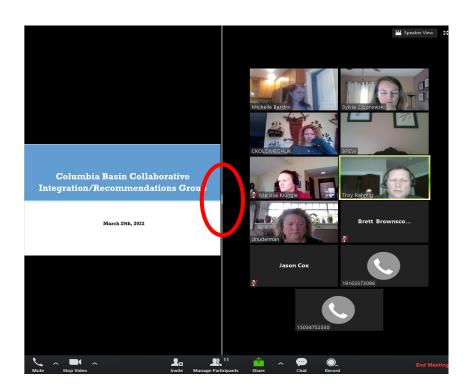
More > Rename

Zoom Features

Adjust view options







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Welcome, Ground Rules, and Proposed Agenda

Collaboration

Focus on your interests, not positions

Positions are a particular stance, "What I want"

Interests are the intangible motivation underlying your stance,

"<u>Why</u> I want what I want"



Collaboration

Invent options for mutual gain

- Work for creative solutions
- Increase the size of the pie



Collaboration

Separate the people from the problem

- Put yourself in others' shoes
- Recognize and understand others and your own emotions
- Build a working relationship
- Be hard on the problem, soft on people!



Meeting Guidelines

- Honor the agenda
- Listen to understand and ask questions to clarify
- Balance speaking time
- Don't pile on
- Be hard on the problems, soft on the people
- Seek alignment and common ground wherever possible
- Be present



Agenda Review

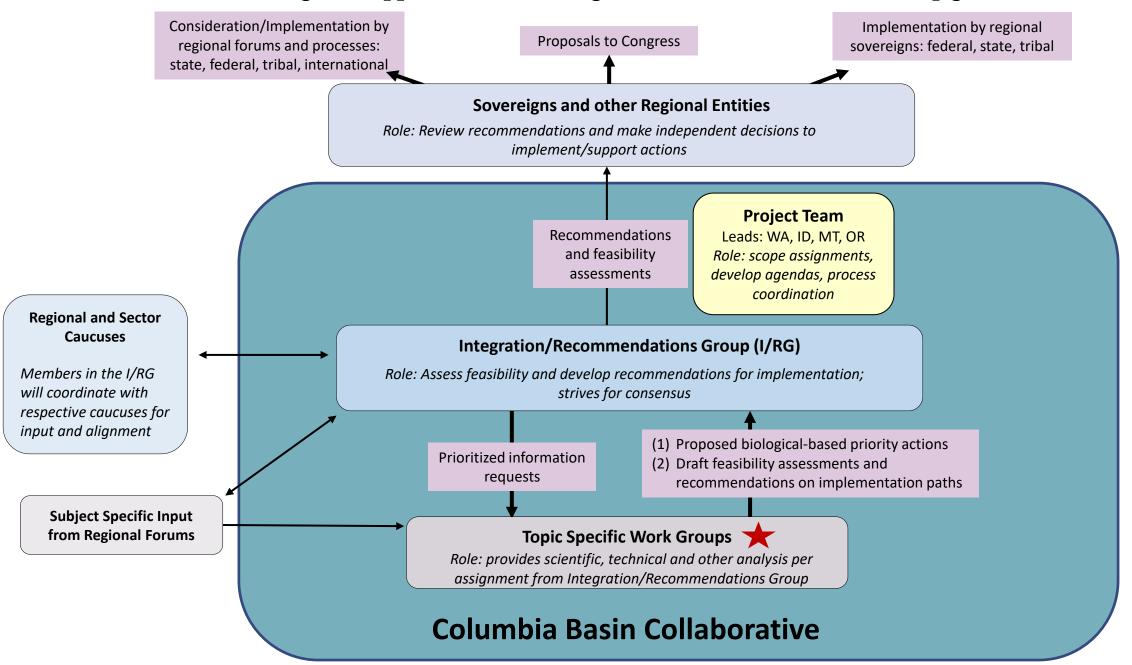
Time (PT)	Topic
9:00 – 9:15 am	Welcome, Opening Remarks, and Agenda
9:15 – 9:30 am	Overview and Context
9:30 – 9:40 am	Columbia Basin Partnership Data
9:40 – 10:15 am	Estuary Habitat Discussion of Resources and Gaps
10:15 – 10:25 am	Break
10:25 – 11:20 am	Tributary Habitat Discussion of Resources and Gaps
11:20 – 11:45 am	Work Plan and Next Steps
11:45 am – 12:00 pm	Confirm Next Steps, Upcoming Meeting Topics, and Summary

Introductions

- Name
- Affiliation and expertise
- Hope to accomplish or bring into the discussion
- Favorite fall activity put it in the jamboard!

Columbia Basin Collaborative Overview

A regional approach to achieving the Columbia Basin Partnership goals



Integration/Recommendations Group Membership

Tribe
Burns Paiute Tribe
Coeur d'Alene Tribe
Confederated Tribes of the Colville Reservation
Confederated Tribes of the Grand Ronde
Confederated Tribes of the Umatilla Indian Reservation
Confederated Tribes of Warm Springs
Cowlitz Indian Tribe
Fort McDermitt Paiute and Shoshone Tribe
Nez Perce Tribe
Shoshone-Paiute Tribes
Spokane Tribe of Indians
Yakama Nation
*Invited but not confirmed

Federal entity	States		
NOAA National Marine Fisheries	State of Idaho		
	State of Montana		
Federal action agencies: BPA, Army Corps, and/or Bureau of Reclamation	State of Oregon		
Columbia Basin Federal Caucus	State of Washington		

Sector	Primary Representative	Alternate Representative		
Utilities	Seattle City Light	Western Montana G&T		
Utilities	Benton PUD	Idaho Consumer-Owned Utilities Association		
Non-tribal fisheries	Coastal Trollers Association	Commercial Salmon Fisherman		
Non-tribal fisheries	Northwest Sportfishing Industry Association	Idaho Wildlife Federation		
River Economies	Idaho Water Users	Kittitas Reclamation District		
River Economies	Port of Lewiston	Wheat Farmer		
Conservation	Salmon Safe	American Rivers		
Conservation	Trout Unlimited	Northwest Energy Coalition		

Topic Specific and Science Integration Work Groups

Work Groups

- Estuary/Tributary Habitat
- Hatcheries/Harvest
- Hydrosystem (mainstem and blocked areas)
- Predation
- Science Integration Work Group

Purpose of Work Groups

- Develop draft recommendations for actions, and assist the I/RG in feasibility assessments of those actions
- Work collaboratively to clarify and assess subjectspecific issues and potential actions and solutions
- Leverage existing data and studies to support their assessments
- Coordinate and collaborate across other Work Groups for complementary analyses and solutions

Estuary and Tributary Habitat Work Group

- Yakama Nation Fisheries
- Umatilla Tribes
- Burns Paiute Tribe
- Colville Tribes
- Nez Perce Tribe
- Cowlitz Indian Tribe
- Spokane Tribe of Indians
- Confederated Tribes of Umatilla Indian Reservation
- US Geological Survey
- US Army Corps of Engineers
- Bureau of Reclamation
- NOAA Fisheries

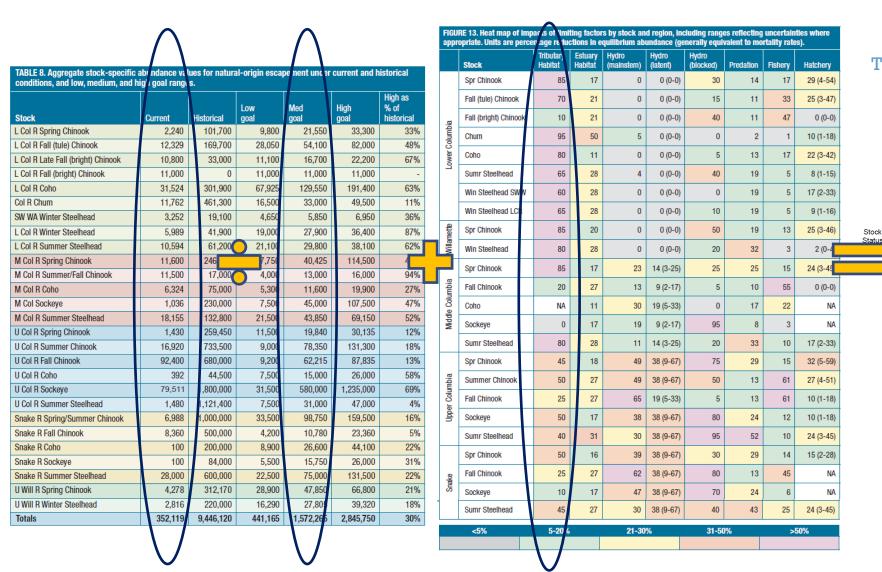
- Snake River Salmon Recovery Board
- Lower Columbia Fish Recovery Board
- Upper Columbia Fish Recovery Board
- Columbia River Intertribal Fish Commission
- Orca Conservancy
- Idaho Office of Species Conservation
- Idaho Conservation League
- Quincy-Columbia Basin Irrigation District
- Lower Columbia River Estuary Partnership
- Oregon Dept. Of Fish and Wildlife
- Washington Dept. Of Fish and Wildlife
- Bonneville Power Administration

Columbia Basin Partnership Data

Compiled Impacts by Stock

				Abundance					MAFA	C Phase II I	mpact Priority		
Sub- Region	Stock	Status	Current	MAFAC Medium goal	Current as % of Medium Goal	Tributary Habitat	Estuary Habitat	Hydro (Mainstem)	Hydro (Latent)	Hydro (Blocked)	Predation	Harvest	Hatchery
Low-C	L Col R Spring Chinook	Threatened	2,240	21,550	10%	1	3	3	3	2	3	3	2
Low-C	L Col R Winter Steelhead	Threatened	5,989	27,900	21%	1	2	3	3	3	3	3	3
Low-C	L Col R Fall (tule) Chinook	Threatened	12,329	54,100	23%	1	2	3	3	3	3	1	2
Low-C	L Col R Coho	Threatened	31,524	129,550	24%	1	3	3	3	3	3	3	2
Low-C	L Col R Summer Steelhead	Threatened	10,594	29,800	36%	2	4	4	4	2	4	4	4
Low-C	Col R Chum	Threatened	11,762	33,000	36%	2	2	4	4	4	4	4	4
Low-C	SW WA Winter Steelhead	Threatened	3,252	5,850	56%	2	4	5	5	5	5	5	5
Low-C	L Col R Late Fall (bright) Chinook		10,800	16,700	65%								
Low-C	L Col R Fall (bright) Chinook	Threatened	11,000	11,000	100%	5	5	5	5	4	5	4	5
Mid-C	M Col Sockeye	Not Listed	1,036	45,000	2%	3	3	3	2	1	3	3	
Mid-C	M Col R Spring Chinook	Not Listed	11,600	40,425	29%	2	4	4	4	4	4	4	4
Mid-C	M Col R Summer Steelhead	Threatened	18,155	43,850	41%	2	4	4	4	4	2	4	4
Mid-C	M Col R Coho	Not Listed	6,324	11,600	55%		5	4	5	5	5	4	
Mid-C	M Col R Summer/Fall Chinook	Not Listed	11,500	13,000	88%	5	5	5	5	5	5	4	5
Up-C	U Col R Coho	Not Listed	392	15,000	3%								
Up-C	U Col R Summer Steelhead	Threatened	1480	31,000	5%	1	1	2	1	1	1	3	2
Up-C	U Col R Sockeye	Not Listed	40,850	580,000	7%	1	3	1	1	1	2	3	3
Up-C	U Col R Spring Chinook	Endangered	1430	19,840	7%	1	3	1	1	1	2	3	1
Up-C	U Col R Summer Chinook	Not Listed	16920	78,350	22%	1	2	1	1	1	3	1	2
Up-C	U Col R Fall Chinook	Not Listed	92,400	62,215	149%	5	5	4	5	5	5	4	5
Snake	Snake R Coho	Not Listed	100	26,600	0%								
Snake	Snake R Sockeye	Endangered	100	15,750	1%	3	3	1	1	1	2	3	
Snake	Snake R Spring/Summer Chinook	Threatened	6,988	98,750	7%	1	3	1	1	2	2	3	3
Snake	Snake R Summer Steelhead	Threatened	28,000	75,000	37%	2	4	4	2	2	2	4	4
Snake	Snake R Fall Chinook	Threatened	8,360	10,780	78%	5	5	4	4	4	5	4	
Willam	U Will R Spring Chinook	Threatened	4,278	47,850	9%	1	2	3	3	1	3	3	2
Willam	U Will R Winter Steelhead	Threatened	2,816	27,805	10%	1	2	3	3	3	1	3	3

Biological Matrices - Methods



Tributary Habitat

	Impact Level									
		Low	Medium	High	Very High					
	Low	SN Sock MC Sock		UC SpCH UC Sum CH UC Sock UC Sum Sthd SN SpCH	LC SpCH LC Tule FCH LC Coho LC WSthd Will SpCH Will Wsthd	Impact Level Low: less than 20% Medium: 20-30% High: 31-50% Very High: Greater than 50%				
:	Medium		SN Sum Steelhead		LC Chum LC Sum Sthd MC SpCH MC Sum Sthd	Stock Status (based on CBP medium goal) Low: less than 25% Medium: 25-50% High: 51-75% Very High: greater than 75%				
	High	MC Coho	SN FCH		SWW WSthd	Prioritization Status Red: Priority 1 Orange: Priority 2 Yellow: Priority 3 Blue: Back burner Green: Good shape				
	Very High	LC Bright FCH	MC FCH UC FCH							

Impost Lovel

Estuary Habitat Table Biological Criteria for Priority Actions

	Impact Level								
		Low	Medium	High	Very High				
		LC SpCH	LC Tule FCH	UC Sum Sthd					
		LC Coho	LC WSthd			Impact Level			
		MC Sock	Will SpCH			Low: less than 20%			
	Low	UC SpCH	Will WSthd			Medium: 20-30%			
		UC Sock	UC Sum CH			High: 31-50% Very High: Greater than			
		SN SpCH				50%			
		SN Sock				Stock Status (based on			
	Medium	MC SpCH	LC Sum Sthd	LC Chum		CBP medium goal)			
Stock			MC Sum Sthd			Low: less than 25%			
Status			SN Sum Sthd			Medium: 25-50%			
						High: 51-75%			
		MC Coho	SWW WSthd			Very High: greater than 75%			
	High					1070			
	i ligii					Prioritization Status			
						Red: Priority 1			
			LC Bright FCH			Orange: Priority 2			
	Very High		MC FCH			Yellow: Priority 3 Blue: Priority 4			
	veryrngn		UC FCH SN FCH			Green: Priority 5			
			SIN FOIT			Cicciii i ilong o			

NA: SN Coho, UC Coho, LC Late BFCH

Tributary Habitat Table Biological Criteria for Priority Actions

	Impact Level									
		Low	Medium	High	Very High					
	Low	SN Sock MC Sock		UC SpCH UC Sum CH UC Sock UC Sum Sthd	LC SpCH LC Tule FCH LC Coho LC WSthd	Impact Level Low: less than 20% Medium: 20-30% High: 31-50%				
				SN SpCH	Will SpCH Will Wsthd	Very High: Greater than 50%				
Stock Status	Medium			SN Sum Sthd	LC Chum LC Sum Sthd MC SpCH MC Sum Sthd	Stock Status (based on CBP medium goal) Low: less than 25% Medium: 25-50%				
	High				SWW WSthd	High: 51-75% Very High: greater than 75% Prioritization Status				
	Very High	LC Bright FCH	MC FCH UC FCH SN FCH			Red: Priority 1 Orange: Priority 2 Yellow: Priority 3 Blue: Priority 4 Green: Priority 5				

Action Type		Steps	Description	Status/Schedule	Responsible Group	Deliverable
CBPTF Technical Planning	1)	Define Fish Goals	<u>ESTABLISH GOALS</u> <u>Identify</u> current status and L, M & H goals by species and by sub-region based on historic data and available habitat	Completed in 2019 as part of CBPTF Ph I	Developed by CBPTF consultant and sub-region tech teams and agreed upon by Task Force members	CBPTF Phase 1 Report
	2)	Define Current Fish Mortalities	IDENTIFY FISH LOSSES Quantify anthropogenic fish mortality factors throughout life history by species and by sub-region (summarized on "heat map")	Completed in 2020 as part of CBPTF Ph II	Developed by CBPTF consultant and sub-region tech teams and agreed upon by Task Force members	CBPTF Phase 2 Report
	3)	Develop Salmon Analyzer Predictive Model	CONSTRUCT "SLIDER" MODEL Develop model with variable restoration components and levels to predict fish restoration action responses and level of goal achievement by species	Completed in 2020 as part of CBPTF Ph II	Developed by CBPTF consultant and sub-region tech teams and agreed upon by Task Force members	Salmon Analyzer Predictive Model
1	4)	Confirm science-based approach for working groups	CONFIRM BIOLOGICAL FOUNDATION Review and confirm matrices that use the data from the CBPTF to serve as the foundation of the working groups	April 2022- June 2022	Biological Sub-group	- Biological Matrices - Approach for TSWGs
CBC Technical Planning	5)	Identify Needs for: - Tributary Habitat - Mainstem Hydro - Blocked Areas - Estuary Habitat - Predation - Hatcheries - Harvest - Integration across threat categories	IDENTIFY ACTIONS/PROJECTS BY TOPIC - Using CBPTF tools and data, identify priority restoration actions/programs that address impact reduction need for each respective mortality factor and collaborate with existing forums (for example, regional recovery organizations) and the IRG as needed - Consider recommendations, actions, and shovel-ready projects from existing forums (for example the CBPTF P2 report) - Consider actions that benefit multiple stocks and regions/watershed populations - Estimate mortality magnitude, source, and location	Ongoing starting July 2022	Topic Specific work groups	List of actions to address needs
			- Acknowledging tribal and treaty rights and legal constraints			
			IDENTIFY ACTIONS/PROJECTS INTEGRATED PACKAGES Using CBPTF tools and data as well as additional information to look across threat categories to identify cross-cutting actions to achieve L/M/H	Ongoing starting July 2022	Science Integration work group	List of actions to address needs

Estuary Habitat Discussion of Resources and Gaps

- What existing forums are currently operating?
- What resources exist currently? What programs need more resources?
- What existing data, research, and studies are already out there that the group can form recommendations on?







Break
10 minutes







Tributary Habitat Discussion of Resources and Gaps

- What existing forums are currently operating?
- What resources exist currently? What programs need more resources?
- What existing data, research, and studies are already out there that the group can form recommendations on?

Work Plan, Next Steps, and Summary

Next Steps

- Compile the brainstorm filter the information through a lens on the bio matrices
- Review the "story" behind specific stocks
- Request IRG to clarify:
 - What level of recommendations/actions?
 - What level of restoration is needed to achieve the goals?
 - Should we identify implementers, partners, and collaborators in the work?
- Use the NOAA 5 year reviews to assess priorities (stocks, areas) for the next five years – including adding specificity to generalized recommendations.
 - Distill down into short term and long term restoration, protection related actions.
 - Ranking priorities



Thank you ~

