Columbia Basin Collaborative Integration/Recommendations Group

June 29th, 2022

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Welcome, Opening Remarks, and Proposed Agenda

Agenda Review

Time (PT)	Торіс
8:00 – 8:20 am	Welcome, Opening Remarks, and Agenda
8:20 – 8:55 am	Updates from Around the Region
8:55 – 9:30 am	Coordination with External Forums
9:30 – 9:40 am	Break
9:40 – 10:00 am	CBC Charter Update
10:00 – 11:30 am	Biological Sub-group Updates and Topic Specific Work
	Groups and Science Integration Group Planning
11:30 am – 12:30 pm	Yakama Nation Presentation
12:30 – 1:00 pm	Approach Going Forward, Confirm Upcoming Topics,
	Next Steps, and Summary
1:00 pm	Adjourn

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



Updates From Around the Region

Coordination with External Forums

Coordination with External Forums

Updates on:

- Inslee/Murray Process (Kramer LSRD Report)
- Stay of litigation
 - Federal mediation services
- Upper Columbia Blocked Areas Anadromous Fish Working Group
- Other forums









See you at 9:50am PT/10:50 am MT





Columbia Basin Collaborative Charter Update

CBC Charter Process

Drafts the Charter Circulates draft to the I/RG in November 2021 Requests feedback from I/RG members by end of December 2021 Convenes a Charter Review Committee to reconcile feedback Circulates the final draft for "fatal flaw review" – revisions made

Charter approved by 20 entities Biological Sub-group Updates and Topic Specific Work Groups and Science Integration Group Planning

Process for the Biological Sub-Group

I/RG Members designated representatives for Biological Subgroup

April 28 Biological Sub-group Meeting 1

- Reviewed CBPTF data and proposed matrices and scoring process
- Heard presentation from Gary James on additional uses of data

June 2 Biological Sub-group Meeting 2

- Discussed approach for work groups
- Reviewed updated biological matrices

June 29 I/RG Meeting

- Biological subgroup shares the agreed foundation with the I/RG
- Discuss assignments for work groups

Example Table Biological Criteria for Priority Actions

	Impact Level ^a								
	Low	Medium	High	Very High					
Low	Stock K	Stock I	Stock J	Stock A Stock B	<u>Impact Level</u> ^a Low: less than 20% Medium: 20-30% High: 31-50% Very High: greater than 50%				
Medium	Stock M	Stock L	Stock C Stock R Stock S	Stock G	<u>Stock Status^b (based on CBP</u> <u>medium goal)</u> Low: less than 25% Medium: 25-50%				
High	Stock N	Stock D Stock Q	Stock E Stock T Stock U Stock V Stock W	Stock H	High: 51-75% Very High: greater than 75% <u>Prioritization Status</u> Red: Priority 1				
Very High	Stock O		Stock P Stock X Stock Y Stock Z	Stock F	Orange: Priority 2 Yellow: Priority 3 Blue: Priority 4 Green: Priority 5				

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

Compiled Priorities by Stock

Stock	Priority 1	Priority 2	Priority 3	Priority 4	Priority 5
			Estuary Habitat, Hydro		
			(Mainstem), Hydro		
Lower-Columbia Spring		Hydro (blocked),	(latent), Predation,		
Chinook	Tributary Habitat	Hatchery,	Harvest,		
			Hydro (Mainstem), Hydro		
			(Latent), Hydro (Blocked),		
Lower-Columbia Winter			Predation, Hatchery,		
Steelhead	Tributary Habitat	Estuary Habitat,	Harvest		
			Hydro (Mainstem), Hydro		
Lower-Columbia Fall			(Latent), Hydro (Blocked),		
Chinook	Tributary Habitat, Harvest	Estuary Habitat, Hatchery	Predation,		
			Estuary Habitat, Hydro		
			(Mainstem), Hydro		
			(Latent), Hydro (Blocked),		
Lower-Columbia Coho	Tributary Habitat	Hatchery	Predation, Harvest		
				Estuary Habitat, Hydro	
				(Mainstem), Hydro	
Lower-Columbia Summer		Tributary Habitat, Hydro		(Latent), Predation,	
Steelhead		(Blocked)	Hydro (Mainstem)	Hatchery, Harvest	
				Hydro (Mainstem), Hydro	
				(Latent), Hydro (Blocked),	
		Tributary Habitat, Estuary		Predation, Hatchery,	
Columbia River Chum		Habitat		Harvest	



Entity Type	Entity	General Responsibility or Management Authority
	NMFS	Administer ESA programs for listed anadromous fish
	USFWS	Administer ESA programs for listed resident fish
	USFS	Manage federally-owned lands; generally in headwaters
Federal	BLM	Manage federally-owned lands; generally located downstream of USFS lands
	BOR	Manage water storage projects and fish passage and habitat mitigation projects
	USACE	Construct/maintain/manage flood risk projects; floodplain permitting
	NRCS	Manage land conservation programs and implement projects
	EPA	Manage and grant funding for land/water quality improvement
	Fish Managers	Floodplain project review and permitting and watershed project implementation
State	Water Resource Managers	Manage and appropriate instream flow and groundwater
	Land Resource Managers	Manage state-owned lands
	Highway Departments	Manage road transportation networks in floodplains near and over streams
Tribal	Indian Tribes	Manage reservation lands and implement projects on and off reservation
	Counties	Administer land use and zoning laws
	Cities	Manage lands within city limits
Local	Watershed Councils	Facilitate stakeholder support and implement watershed projects
	CD's	Facilitate land conservation programs and implement projects
	Land Trusts/Cons. Partnerships	Implement watershed projects
Mitigation	NPCC	Adopt Columbia Basin F&W Program and conduct project science reviews
Programs	BPA	Fund F&W mitigation projects through Columbia Basin F&W Program
	State	Implement watershed pjcts: WA Recovery Brd, OR Watershed Enh. Brd, FP by Design, etc.
	Individual landowners	Manage private owned lands
Private	Corporate landowners	Manage private owned lands
	Railroads	Manage rail transportation networks in floodplains near and over streams

DRAFT - Entities with Responsibilities or Authorities that Effect Fish Survival in Tributary Habitat

Biological Sub-group discussion on Work Groups

- Need for sequential next steps for Work Groups
- Developed and revised an approach
- Discussed potential uses and limitations of the Salmon Analyzer (slider tool)

Biological Sub-group discussion on Work Groups

- Some advocated for work groups by threat category.
- Some advocated for integration across the threat categories working at the ESU/DPS scale.

Action Type	Steps	Description	Status/Schedule	Responsible Group	Deliverable
CBPTF Technical Planning	1) Define Fish Goals	ESTABLISH GOALS Identify 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	<u>CONSTRUCT "SLIDER" MODEL</u> 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
•	 Confirm science-based approach for working groups 	<u>CONFIRM BIOLOGICAL FOUNDATION</u> 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

6-23-22 DRAFT - Completed and Recommended Steps for Sequential Science-Based CBPTF --> CBC Process

	 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 goals by multiple species that can be integrated with recommendations from the Topic Specific Work Groups. - Consider packages of actions as well. Focus on optimal actions to be taken. - Do analysis on DPS/ESU level. - Can have others help support the technical work. - Make recommendations to the IRG on project/program actions - Acknowledging tribal and treaty rights and legal constraints	Ongoing starting July 2022	Science Integration work group	List of actions to address needs
 6) Identify Responsible Management Entities for: Tributary Habitat Mainstem Hydro Blocked Areas Estuary Habitat Predation Hatcheries Harvest Geographic specific management authorities 	IDENTIFY WHO & HOW MUCH - Identify entities having management authorities or responsibilities that effect fish survival by threat category and by region - Align remedial actions/approaches with responsible entities - Rank effectiveness and urgency actions by entity	Ongoing starting July 2022	Topic Specific work groups	List of management entities and existing forums

Ļ	 Fvaluate actions and packages for comprehensive benefits and to assist in developing recommendations 	EVALUATE ACTIONS - Evaluate identified Actions/Projects for integrated impacts to inform recommendations - Make recommendations to the I/RG on project/program actions - Conduct annual assessment of the work of the CBC	Ongoing starting July 2022	Science Integration work group	Evaluation of actions
CBC Policy Recommendations	8) Develop Integrated Restoration Recommendations	RECOMMEND PROJECTS/ACTIONS Integration/Recommendations Group (IRG) receive & integrate work group products from steps 4-7 above and recommend to responsible entities, the actions/approaches necessary to meet fish restoration goals	Fall 2022 - 2023	CBC Integration/Recommendations Group	Recommendations to implementing entities
Basin-Wide Commitment & Implementation	9) Responsible Entities Receive IRG Recommendations; be Accountable and Implement Recommended Actions	ADOPT PROJECTS INTO PROGRAMS - Prepare a receptive environment within programs - Responsible entities implement IRG recommendations - Type and magnitude of actions (solutions) must be commensurate with fish mortality sources (problems)	2023 - 2024+ (expect near and longer term actions)	All entities or programs having management influence, authorities or responsibilities (water, hydro, habitat, mammal management, etc.) that effect fish survival	Implementation of recommendations

Questions?



Yakama Nation Presentation

Columbia Basin Collaborative -Integration/Recommendations Group

CRB Partnership Transition to CBC

June 29, 2022



Key Messages and Recommendations from CRB Partnership Phase II Report (p.28)

A Call to Action

- Time if of the essence
- We must act now with **<u>urgency</u>**
- Salmon will indicate the health of the basin

The Path Forward Needs a Salmon Ethic, Strong Leadership, and Collaboration

- The Tribes, salmon and ecosystem are interconnected
- **Leadership** is essential
- Collaboration is needed

Science plus accountability delivers a healthy ecosystem and vibrant quality of life

- Continuous improvement and innovation moves us forward
- Make scientifically based decisions
- Benchmarks provide accountability
- **Reliable and predictable funding is essential**



It is not so much that all current mitigation measures are out-of-sync and outdated, but rather most were never enough or implemented fast enough for salmon in the first place.

Z. Penney, Columbia River Treaty Tribal Perspective (p. 112)

2011 Canty Report



Funding for Salmon Recovery in Washington State:

- A comparison of needs versus project availability of funds indicates that current sources, if maintained for the coming ten years (2010-2019), would be sufficient to support approximately
 one-fourth of the capital and non-capital actions recommended in the regional recovery plans.
- The largest gaps were in Habitat Restoration (54%) and Monitoring (67%)



Strategies and Scenarios Explored by CRB Partnership

- NOAA identified and described 4-6 key strategies for each impact area as a menu of potential choices for action (p.139)
- Participants developed 13 different scenarios for salmon recovery generally based on those strategies, balancing across impact areas (Appendix B)

Our Hypothesis for the CBC –

The most common strategy for each impact area should be the most widely accepted and supported strategy for the CBC to promote



CRB Partnership Scenarios (Appendix B)

- All in for Salmon, Idaho Stakeholders
- Fish Forever Scenario, Conservation and Fishing Interests (Ben and Liz)
- Total Salmon Scenario, Idaho Stakeholders
- Stronghold-anchored and Diversified Portfolio Scenario, Conservation Interests (Rob)
- Climate Change and Plausible Futures Scenarios (4), Local Stakeholder Interests (Kevin)
- Shared Sacrifices Scenario, Hydro Industry Interests (Joe)
- Salmon First Scenario, Tribal Interests (Zach)
- Full Recovery Plan Implementation Scenario, WA Salmon Recovery Organizations (Steve)
- Level-of-effort (2) Scenarios, Partnership Project Team (NOAA staff)

CBC Biological Workgroup



Sequential Steps for Science-Based Recommendations

- Identify Needs for impact areas
- Identify Actions
- Identify Who and How Much
- Evaluate actions and packages
- Develop an integrated restoration recommendation

Near Term (Urgent!) and Longer Term



Impact Area – Tributary and Estuary Habitat

Increase investments and focus on large-scale, process-based restoration projects and protection of habitat function sufficient to demonstrably improve abundance and productivity of key populations (p.140).

- Existing Funding Processes NOAA Salmon Recovery Funding, NPCC/BPA funded Fish and Wildlife Program, NRCS, Ecology, others
 - All have science based, community backed plans in place that identify actions that exceed the current level of available funding
- CBC Product Develop a funding request to double or triple salmon habitat funding to support existing programs



Impact Area – Hydropower Mainstem and Tributary Dam Strategies

Implement dedicated efforts to substantially improve fish passage and survival through significant modifications of hydropower system operation and configuration (p.143).

- Existing Processes CRSO EIS 2020 Proposed Action, 2020 Biological Opinion, 2014/20 NPCC F&W Program, Mid-C PUD HCPs, others
- CBC Product Develop a funding request to fully fund implementation of the CRS proposed action to address ESA plus additional actions to address NPA
 - There is currently a billion-dollar backlog in non-recurring maintenance needs for the fish passage systems at the mainstem dams
 - Explore opportunities at FERC regulated dams for improved salmon protections and restoration
 - Align Federal and FERC operators for common M&E and performance standards



Impact Area – Blocked Area Strategies

Experimental reintroduction with interim hatchery supplementation concurrent with evaluation of passage potential (p. 145).

- Existing Processes Upper Columbia BAAF Work Group is exploring funding and regulatory options above Grand Coulee, Yakama Basin Integrated Plan addressing sockeye, others
- CBC Product
 - Support UCBAAF as a workgroup of the CBC and part of recovery effort
 - Express support for other reintroduction strategies such as Yakama Basin Integrated Plan

Impact Area – Predation and Invasive Species Strategies



- Existing Processes –COE Regional Forum (FPOM, SCT, etc.); Mid-C PUD Coordinating Committee; BPA funded projects
- CBC Product Develop a funding request for sufficient funding for removal or redistribution of key predators
 - Recommend systemwide coordination of predator and invasive species management



Impact Area – Fishery Strategies

Manage fisheries to optimize harvest of healthy natural stocks within constraints of reduced exploitation rates on weak or less abundant natural stocks to ensure that harvest does not impede recovery (p.148).

- Existing Processes US v OR forum(s)
- CBC Product Provide education and outreach to better explain fish management practices and promote improvements
 - Improve outreach and education
 - Fund improved harvest monitoring



Impact Area – Hatchery Strategies

Employ hatcheries for conservation and reintroduction to protect and restore the native diversity and distribution;

Reduce or reform hatchery programs to limit impacts or risks to natural production (p.150-151).

- Existing Processes Mitchell Act, Lower Snake River Compensation Plan, NPCC/BPA Fish and Wildlife Program, others
 - Hatchery mitigation that was promised when the dams were constructed still haven't been built
 - Existing mitigation hatcheries are not meeting their juvenile and adult abundance goals due to lack of adequate O&M funding
 - Columbia Basin hatchery infrastructure needs exceed \$800 million
 - LSRCP Hatcheries currently have a \$131 million backlog of non-recurring maintenance needs
- CBC Product Develop a funding request to get CRB salmon hatcheries fully operational to meet all mitigation (and in some cases, recovery) obligations, including full implementation of hatchery reforms



Impact Area – Systemic Strategies

Provide funding levels adequate to restore salmon and steelhead to healthy and harvestable levels consistent with Partnership Goals (p.153).

Develop new legislation to foster an effective salmon and steelhead restoration program (p.153).

Expand monitoring and assessment efforts to assess status and progress toward salmon and steelhead recovery (p.153).

- CBC Product
 - Address funding issues through a comprehensive funding package promoted by CBC
 - Create a workgroup to work on state and federal land and water management legislation fixes
 - Improve monitoring and reporting to support accountability

Summary



Near-Term Funding Recommendation

- Develop a comprehensive funding package that assumes existing infrastructure and processes
 - Double tributary and estuary habitat funding (PCSRF, BPA, NRCS, etc.)
 - Address billion-dollar backlog at mainstem dams (USCOE)
 - Fund reintroduction efforts across the basin (various federal agencies)
 - Fund predator and invasive species management and create a predator management coordination forum (USCOE, BPA, PUDs, etc.)
 - Fully fund hatchery improvements and reform (various federal agencies)

Obtain the funding based on existing assessments and plans, implementation will be done at the local/regional/watershed scale consistent with Integration Workgroup guidelines





- Integration Work Group to ensure optimization/efficacy of efforts if funded and identify GAPS for Longer Term funding – link to ESU/DPS/Watershed scale
- Create and promote legislative fixes for land and water management regulations that are impacting salmon restoration (state and federal)
- Performance metrics, convert CRB Partnership effort into sustainable reporting and evaluation of success

Discussion

• Thoughts, questions, feedback



Next Steps

Convening Work Groups:

- Send nominations by July 15
- I/RG will review the list via email to finalize participation
- Kick-off work groups
- Work group meetings will be open to observers



Work Group Membership Requirements

- Are committed to consider biological criteria and analyze actions that will increase salmon and steelhead abundance in the Columbia River Basin while also balancing cultural, social, economic, and ecological considerations.
- Have demonstrated willingness and ability to work with, hear, and respect other stakeholders to find collaborative solutions and reach consensus.
- Knowledge and recognized expertise in the topic of the working group.
- Together represent the geographic diversity of the Columbia Basin.

Approach Going Forward, Confirm Upcoming Topics, Next Steps, and Summary

Upcoming Topics

- Report back from work groups
- Report back from WRDA bill
- Ocean conditions updates (during summer meetings)
- Coordination with external process
 - Predator suppression
- Presentation from CSS and NOAA (spring)



Thank You!