Columbia Basin Collaborative Predation Work Group

March 1, 2023

1:00pm - 3:00pm PT

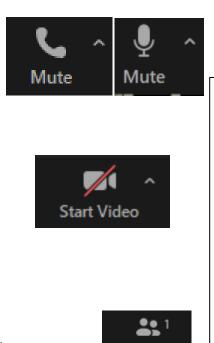
Zoom Webinar Features – Work Group Members

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. Change your chat settings to "**Everyone**"

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



Participants (1)

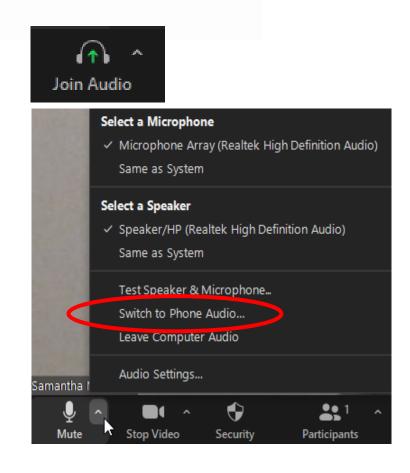
Liz Mack (Host, me)



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Zoom Webinar 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".
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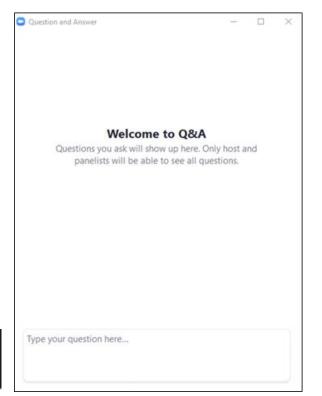


For technical support, please contact Angela Hessenius

Zoom Webinar Features – Audience Members

Audience members will remain muted.

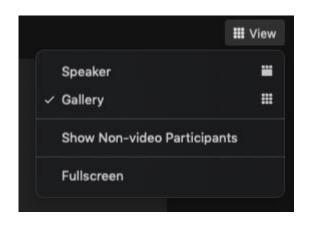
If you have technology issues, please use the Q&A feature to reach our team

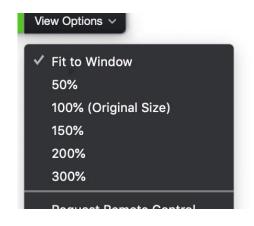


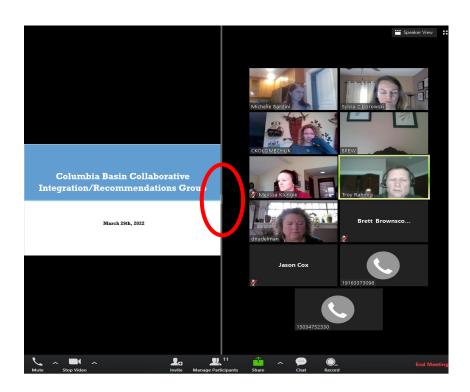


Zoom Webinar View Options

Adjust view options







For technical support, please contact Angela Hessenius (<u>AHessenius@kearnswest.com</u>, 203-885-9586)

Meeting Guidelines

- Honor the agenda
- Be present
- Enter the space ready to collaborate
- Listen to understand and ask questions to clarify
- Balance speaking time
- 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
1:00 – 1:10pm	Welcome and Agenda Review
1:10 – 1:40pm	Consensus on Recommendations: 1) Pinniped, 2) Cormorants, 3) Piscine
1:40 – 2:00pm	Review of Caspian Terns Recommendation
1:40 – 2:50pm	Review of Systemwide Recommendations
2:50 – 3:00pm	Confirm Next Steps, Upcoming Meeting Topics, and Summary

Desired outcome: Review and finalize short term recommendations.

Consensus on Recommendations

Consensus is reached when every Member, at the very least, does not oppose a decision.

Predation Draft Final Recommendations

Pinniped:

 Recommend enhancements and modifications to the existing Marine Mammal Protection Act Section 120 Pinniped Removal Program, including extending authorization and increasing funding.

Predation Draft Final Recommendations

Avian:

 Implement sustained management effort to reduce doublecrested cormorant (DCCO) abundance on the Astoria-Megler Bridge colony and other colonies while minimizing DCCO dispersal to undesired areas.

Predation Draft Final Recommendations

Piscine:

- Develop a comprehensive piscine predator monitoring program for the Columbia River Basin (Northern pikeminnow, smallmouth bass, walleye)
- Other non-native fishes

BREAK – 5 MINUTES

Review of Caspian Terns Recommendation

Review of Systemwide Recommendations

Predation Systemwide Potential Actions

	Implementation Actions
1	Decreasing transit time
2	Increasing flow
3	Promote cooler temperatures to reduce consumption rates by warmwater fish species and reduce disease incidence that may predispose fish to predation by birds and other predators
4	Promote policies to limit climate warming
5	To extent possible, modify hatchery releases to discourage subsidization of predators
6	Restore rearing habitats in estuary
7	Promote efforts to conserve marine forage fish, which serve as an alternative food source for many predators in the estuary
8	Reducing water transit time, increase migration speed and reduce predation risk (MOP)

Predation Systemwide Potential Actions

	R M&E Actions
1	Long-term monitoring of avian colonies (predation rates, bird abundance)
2	Long-term study of effects of predators on reach, system-wide, and life-cycle survival (especially for steelhead)
3	Increasing spill
4	Investigate role of light reflection on water from structures (bridges, dams, piers, etc) to decrease visibility at night
5	Food web changes due to Shad and Siberian Shrimp for non-native predator populations

Next Steps

KW: Send the finalized recommendations to the SIWG

KW: Develop summary of meeting and schedule next Predation meeting

KW: Create survey systemwide recommendations

Pinniped Subgroup: Prepare non-lethal recommendation for the WG to review

Piscine Subgroup: Regroup and prepare recommendations for final review 3/23



Thank you!



Sources of Predation

AVIAN

MARINE MAMMAL

PISCINE









CBP Focus Species

CASPIAN TERNS, DOUBLE-CRESTED CORMORANTS, CA AND RING-BILLED GULLS

CALIFORNIA SEA LIONS, STELLER SEA LIONS, SEALS, ORCAS*

NORTHERN PIKEMINNOW, WALLEYE, SMALLMOUTH BASS

Recommended Action Form

- 1. Work Group developing the action:
- 2. Summary of action:
 - a. Is this part of an existing program or new program?
- 3. Benefit: (link to matrices)
 - a. What benefit will the action provide?
 - b. What data support this?
- 4. Entities that would implement that action:
- 5. Timing:
 - a. How long will it take to implement that action?
 - b. How long until fish populations benefit from action?

- 6. Stock(s) benefited by the action and magnitude of benefit for each stock(s)
- 7. Estimated cost:
- 8. Uncertainties related to the action:
- 9. Regulatory processes or policies associated with the action:
- 10.Potential challenges:
- 11. Adaptive management (describe how this will be incorporated into to action):