

2025 RCMT Meeting – Final Minutes

Tues, Apr 22, 2025 – Thu, Apr 24, 2025

Hybrid / In-person

CDFW

3637 Westwind Blvd Santa Rosa, CA 95403

Meeting Materials

- For further Meeting Info & Documents: [RCMT Meeting Page](#)
- Last Year's Meeting Minutes: [RCMT 2024 Meeting Minutes](#)
- Last Year's Agency Planning Documents: [AllAgencyUpdate2024.pdf](#)

Agenda

- [Agenda-RCMT2025.pdf](#)

Summary of Action Items

Future Meetings:

- Nancy asked to confirm by June whether WDFW or ODFW will be hosted in 2027
- WDFW/ODFW to confirm who is hosting for 2027 by June 2025

Data Status

- Eric Keller Question: Didn't we talk about having all harvest reported even if it was not catch/sample for CWT because CTC wanted complete reporting of catch? He thinks most people are reporting this way – might be helpful to have IDFG do it this way too.
 - Nancy will bring this up at the next TCDS for discussion about the intent of those fields – why are we modifying them
 - There was a want for a one stop shop for harvest data
 - Can people provide that info when we send something out? - Marianne thinks all needs are being met by Lower Snake Comp group but send that request to TAC
 - Dan will work with Brian Leth to draft an explanation of why IDFG Catch/Sample is not reported in RMIS. Brian Leth with a draft statement to put out about this.

All Agency Updates:

- Shubha Pandit Will send updated YAKA data once compiled (done).

- Jim will add Shubha Pandit to the email list and reach out about data

Ver 5.0

- PSMFC will confirm the exact date at the next TCDS

Hoopa Valley Tribal Fisheries

- Monica will Reach out to Alex and supervisor about KBFC data system for their PIT Tag efforts.

Recruitment and Retention

- Lara Erikson will share any job board/list serv connection that is sent to her and put out a project summary for this effort
 - CRITFC.org
 - NWIFC.org

Regional Coordination and Agreements

- Nancy Leonard will talk to John Field and David Shearing to confirm that coordinating bi-lateral agency code/tag code prefix coordination is not the job of the TCDS, and then clarify the wording process in this document
- Nancy Leonard will check to see if coordinating via the tag coordinator would be possible and update and share wording
- Bi-national wording – Update to bilateral to fit with current naming
- Dan Webb asked to update the infographic on the data sharing and validation to better reflect that both the US and CDFO both validate their own and each other's data – essentially double validated
 - Dan Webb and Jim Longwill will help Nancy Leonard update the infographic
- Roles and responsibilities – Kathy Fraser suggested merging this section with the Scope Section – all agreed to move this section and part of 2.4 up to the 2.1 section.
 - Nancy Leonard will move the 2 paragraphs from 2.4 up under the scope section
- Dan Webb will update ADFG's contact information to Eric Keller, remove CDFWKT from that list, and correct the spelling of Andrea's last name to 'Pearl'.
- Ash Schafer will get Dan Webb an updated contact for Quileute
- Dan Webb will add these links to go over these web pages at the Data Status meeting
- Nancy Leonard will update Table 1 to reflect changed membership numbers
- Kate Al-Sheikhly will find a date for the Members to meet for a 6-month meeting and send that out as soon as possible (around 3 or 4 hours). As well as work with IDFG rep to schedule the next annual meeting in person.
 - Members will read, edit, and wordsmith the document as needed before the 6-month meeting

- Ash Schaffer will draft the first version of wording this, then the group will discuss how to word this before the next meeting so it can be finalized
- Nancy Leonard will share this discussion/writing with the TCDS so we can assure it is accurately represented in the Data Specification

APR 22: TUES: 9:30 AM - 4:30 PM (PDT); LUNCH 12:00 PM - 1:30 PM

Day 1 Attendance:

Attendance: RCMT Members – Dave Reggiani (Metlakatla), Ash Schaffer (NWIFC), Marianne McClure (CRITFC), Caroline Lawrence (NMFS), Ben Cross (USFWS), Eric Keller (ADFG), Jason Azat (CDFW), Trevor Clark (ODFW), Jillian Cady (WDFW), Nancy Leonard (PSMFC), Brian Leth (IDFG), Kathy Fraser (DFO).

Non-Members: Jim Longwill (PSMFC), David Knutzen (NMT), Stan Allen (PSMFC), Lara Erikson (PSMFC), Sara White (PSMFC), Alex Eaton (Hoopa), Megan Griffiths (PSMFC), Dan Webb (PSMFC), Kate Al-Sheikhly (PSMFC), Andrea Pearl (CCT), Kyle Beard (FWS), Forrest Bohlen (IDFG), Corey Dondero (IDFG), Erin Gunderson (NWIFC), Geraldine VanderHaegen (NMT), Todd Gillmore (USFWS), Jesse Rivera (USFWS), Tiffany Peterson (MAKAH), Monica Diaz (PSMFC), Gabriel Garza (ODFW), Mike Grill (CDFW), Caroline Lawrence (NMFS AK), Alex Eaton (HVT)

Welcome

- **Introductions:** PSMFC facilitated introductions of the RCMT members, starting with those in the room and then moving online. Participants introduced themselves and their affiliations. PSMFC requested online participants to add their names and affiliations in the chat to help track attendance.
- **Agenda Overview:** PSMFC reviewed the agenda for the meeting, which included general items, announcements, data status updates, presentations, and agency updates. They also discussed the schedule for the next two days.

Announcements

Membership Updates: PSMFC announced a new representation from various entities. They also discussed the resignation of CDFO from the group.

- **New members:** Dave Reggiani from MIC, Annalise Myers from YAKA, Caroline replacing Michelle Masuda from NMFS

- **CDFO Resignation:** PSMFC discussed the resignation of CDFO from the group, with Kathy Fraser providing input on maintaining coordination despite the change in membership. Kathy explained that she can provide input as the group is re-aligned to support US agencies, whereas Canada is engaged in the PSC process with the US. We can identify things to maintain about the relationship but not have the duplication.
- In addition to the RCMT membership, we have tag coordinators. Given recent updates to 2025 agreements, we want to maintain that coordination and the data provider contact for CDFO.
- **Membership Changes:** PSMFC highlighted the importance of updating the regional coordination document to reflect the changes in membership and ensure continued coordination.

Future Meetings: PSMFC confirmed that the 2026 meeting will be held in Boise, ID., and discussed potential locations for the 2027 meeting, including Washington or Oregon.

- **2026 Meeting Location:** Boise, Idaho, potentially at the new headquarters building of IDFG.
 - Kate will reach out and lock down the date for next year & send out a doodle poll for dates.
- **2027 Meeting Location:** Tentative proposal for Washington, co-hosted by NWIFC and WDFW. Possibility of starting later day one, to accommodate travel the same day.
 - Marianne offered to look into the scheduling of a commission room if we end up in Portland OR. ODFW volunteered as back up if WDFW does not want to/can't host.
 - Nancy asked them to confirm by June whether WDFW or ODFW will be hosted in 2027, and stated that the meeting room should be reserved for 3 days for the meetings & social event

Action Item: WDFW/ODFW to confirm who is hosting for 2027 by June 2025

10:00 Announcement of Makah Tribe

Discussion:

New Data Provider: PSMFC announced that the Makah tribe (MAKAH) has become a new data provider, coordinating with Northwest Indian Fishery Commission (NWIFC) and WDFW. Tiffany from MAKAH has been oriented to the RMPC data uploading system.

- **MAKAH Tribe Coordination:** PSMFC announced that MAKAH will be self-reporting data, coordinating with Northwest Indian Fishery Commission NWIFC and WDFW.
- **RMIS System Orientation:** Tiffany from MAKAH has been oriented to the RMPC data upload system by Dan Webb, learning about different upload options and where to find support.
- Data reporting will begin with 2024 Catch/Sample & Recovery for treaty troll areas, 3,4,5 in combination with NWIFC for hatchery releases and CWT.
- MAKAH will use tag prefix 21 for reporting.

10:15 RMPC /RMIS: Status of datasets

Discussion:

Data Status Report: Dan Webb presented the 2025 CWT data status report, reviewing the reporting status of the CWT database and identifying any obstacles to reporting, validating, and processing the data. Presentation with charts and counts available in meeting minutes.

- **Locations Data:** All necessary locations for coded wire tag validation and processing appear to be present.
- **Release Data:** Most agencies have updated or added new releases since January, with some exceptions like NMFS and YAKA, which were last updated in 2024. The only failed release was WDFW with 4 records that held up the dataset, but it will most likely be resolved soon.
- **Release Charts:**
 - CRITFC – no reported releases in 2020 (already discussed),
 - CTUIR – new reporting agency starting in 2023,
 - NMFS – decline in 2016, 0 in 2020, decrease in 2022, 2023-2024 not reported.
 - QDNR – slight increase in 2021-2023
 - STIL – slightly low in 2022/23
 - USFWS – decreases in 2023/24, may not be reported yet
 - YAKA – decrease in 2024
 - **Other Release Information:**
 - Stan Allen Question: Does USFWS report Coleman? This could account for the decline
- **Tag Codes:** Have all of you been notified of missing tag codes? – Geraldine has been working diligently to resolve these missing tag codes. Dan Webb mentioned that there are no currently known missing tag codes, and the process for addressing missing codes is working well.
- **Recovery Data:** Recoveries were received for data sets with outstanding errors in years missing up to and including the 2022 run year. Missing data sets for run year 2022 and older are expected to be overdue. Most reporting agencies have reported recovery data sets for run years up to 2023, with the following exceptions.
- Note: a sampling agency is not required, so it gets difficult to track the sampling agency when it is reported by other agencies than those that took the samples
 - The California Department of Fish and Wildlife (CDFW) now includes Klamath Trinity, formerly CDFWKT, and CDFWKT has been removed as a reporting agency.
 - Nez Perce tribe NEZP 2016 through 2022 is expected to be overdue. 2023 is expected to be pending.
 - YAKA - 2021 and 2022 are expected to be overdue with 2023 expected pending.
 - Nancy Leonard Question: Who do we contact if we want a dataset status update? – Marianne – NEZP Drew Wickard, not sure who for others.
 - YTFP: No new status from 2007. 2006 had some significant errors that were out of range. Not getting updated info from Yurok Tribe

- **Catch Sample Data:** Some agencies, like NWIFC and IDFG, do not submit catch sample datasets, and there is some need for better reporting practices.
- Catch Sample was reviewed with the same criteria as recovery data for missing data sets and data sets with errors. Sample data sets typically mirror the results of recoveries. Following is the list of identified exceptions:
 - CDFW – 2024 has 2 errors, escapement method must be absent.
 - NMFSNWR – 2022 expected overdue, 2023 expected pending
 - YAKA - no longer submitting, 2008 has one ad clip selective fishery error
 - Yurok tribe YTFP, there's no new status.
- **Side discussion of non-reported Catch Sample Data:** Marianne McClure Question: Why does IDFG not report? IDFG Brian Leth – Historically submitted intermittently, moved towards being able to submit then they started harvest monitoring from CWT to genetic/parental-based tagging (PBT). Most wiring they do is not for harvest monitoring – mostly for weir & broodstock management. CWT tagging Chinook in Columbia River, but in Idaho it is mostly PBT based. There is an incomplete sampling because of this. They have been submitting estimated # in recovery info which would be the same in the catch/sample.
- One thing that could be helpful for IDFG is to work with the Lower Granite Dam to get that info from the run reconstruction team, then you would have an escapement at that point and could potentially get harvest upstream.
-
- Eric Keller Question: Didn't we talk about having all harvest reported even if it was not catch/sample for CWT because CTC wanted complete reporting of catch? He thinks most people are reporting this way – might be helpful to have IDFG do it this way too.
 - Nancy will bring this up at the next TCDS for discussion about the intent of those fields – why are we modifying them
 - There was a want for a one stop shop for harvest data
- Jason Azat– would look at the PFMC pre-season reports for the estimates and not RMIS.
- Brian Leth Question: Is there some interest in providing some sampling effort for IDFG even if not related to CWT? Are there programs impacted by IDFG not uploading this data? Can people provide that info when we send something out? - Marianne thinks all needs are being met by Lower Snake Comp group but send that request to TAC
 - Dan will work with Brian Leth to draft an explanation of why IDFG Catch/Sample is not reported in RMIS. Brian Leth with a draft statement to put out about this.
- **API Development:** Dan Webb provided an update on the API development, stating that the API is in place and being used by various entities. Future development will resume after the RCMT meeting. Still available via Matt Calahan's script
- CDFWKT data merger - Alex Eaton Question: Preparing RMIS data and sending it to CDFW – with the merger will that change the way they need to submit data? Jason Azat – no change in the way data will need to be submitted.

11:00 RMPC /RMIS: Other Announcements

Migration to new Ubuntu server completed & CWT Best Management Practices project completed

Discussion:

- Transition DataBase servers to Ubuntu Linux based servers – completed end of 2024
 - Held up work on the API project and the Data Spec 5.0

CWT Lab Guide Project: Monica provided an update on the CWT Lab Guide Project, which was completed in October 2024. The project included lab documents from various agencies and resulted in a comprehensive guide and quick lab guide posters.

- **Project Completion:** Monica announced that the CWT Lab Guide Project was completed in October 2024, incorporating lab documents from over 10 agencies, including tribes and federal and state agencies.
- **Guide Structure:** The comprehensive guide is divided into three major sections: prep and head recovery, lab prep and coded wire tag removal, and reading of the coded wire tags, totaling 48 pages of text and pictures.
- Also includes an appendix for the estimated calculations. We have general information, so if new entities want to come on and do this on their own, we have an explanation of what this means and why it's important. Provides transparency so everyone knows how each agency reports these numbers
- Lab Guide Doc: https://www.rmpec.org/wp-content/uploads/2024/10/Final-BMP-CWT-Lab-Guide_Oct2024.pdf.
- <https://www.rmpec.org/resources/cwt-info/> Links to document and posters on the right side of web page. Posters also have a QR code that will take you to the document for more specific information.
- Are there edits to these docs – at WDFW they cut behind the eye (or used to be) in the field? Tried to capture best methods that are specific to the lab for dissection. These are the heads that have already been cut off and sent to the lab.
 - Kathy Fraser – thinks that this is a poorly placed picture, put a properly cut field picture so it is not conflated. Erik Keller – thinks that the document makes this pretty clear in the other sections that it is for In-Lab use.

11:15 California Ocean Salmon Project

Discussion:

Ocean Salmon Project: Sarah White presented an overview of the Ocean Salmon Project's work, including their objectives, sampling efforts, and data collection in California's ocean and Central Valley fisheries.

- The Ocean Salmon Project (OSP) was created in 1952 to provide fisheries-dependent and -independent data for managing California's commercial and recreational ocean. The

project began by collecting commercial dockside catch and effort data, then began recreational sampling 10 years later in 1962.

- To main objectives are 1) to estimate salmon landings and dishing effort for each management area for all California ocean salmon fisheries and 2) to determine hatchery contribution to ocean fisheries in California.
- Port sampling is done from Crescent City in the north to Avila Bay in the south. The adipose fin is removed as a visual mark for samplers. Salmon heads collected in the field are processed in the Santa Rosa office.
- For the Central Valley, which includes the Sacramento River & San Joaquin River basins, there are 4 distinct runs of Chinook involved: fall, spring, late-fall, & winter. Salmon heads collected from spawning and carcass surveys are processed in the CDFW Alpine lab.
- CWT recoveries from ocean and Central Valley sampling reported to RMIS.
- Ocean harvest exceeded abundance forecasts until recent years. Low escapement estimates and abundance forecasts led to in 2023 and 2024.
- The Sacramento River Fall Chinook modeling is being phased from a combined-age index, the Sacramento Index, to a cohort reconstruction, similar to the Klamath River Fall Chinook model.
- OSP is currently in the middle of modernizing their database. The first phase involved creating and moving data to a new SQL database, which was completed in 2022. The next phase will involve normalizing data entry, analysis, and validation processes.
- Question regarding age composition: do you use a biased correction factor? using annual CWT data? Yes (Kandice Morganstern), data bias correction is done. Cohort reconstruction is also done, and abundance-based forecasting. They now have ~2-year time lag. They need to have forecasting done between the fall and Jan/Feb.

11:25 Northwest Marine Technology

Discussion:

NMT Updates: Dave Knutzen from NMT provided updates on the Auto fish system, new developments, and the progress of the CWT reader project. Geraldine VanderHaegen discussed the smooth ordering process and the importance of early orders.

- Auto fish is up and running. New developments could include computer algorithms to help newer operators run the auto fish machinery.
- New autofit injector – like Mark4. Removes all controls and assigns them to the autofit computer system – benefit is superior cabling and waterproofing. Rebuilt QCD electronics. Put into operation this last year
- Future – migrating to a digital camera, this will help get rid of the spinner and prism that can pose challenges.
- Thanks to WDFW and NWIFC for the invite to the bootcamp to test and deploy this. Happy to sponsor more auto fish operator bootcamps!
- New website additions – auto fish documentation on how to use and set up auto fish and download latest software as well as equipment list with part #s and prices.

- R9500 – came out in the early 90s: We can repair and service those units – but it is time to start thinking about replacing them with newer units with updated technology because of how much recovery data relies on it.
- Working to transition from the viewer to a reader method – like the viewer except there are improved lenses and an improved internal computer (no-longer based on Raspberry Pi). Reader will also learn from each reading as it gets exposed to more tags – the computer will indicate what it reads the code as and then the user can verify the code. Stores a picture of each tag as well. Data can be exported into an internal data system. Will suggest multiple codes if there is uncertainty for the user to choose from and confirm and save to the system. Reader will auto focus and align the tag to a readable direction.
- Does not check against known CWTs that have been released. There is hesitation there because of the amount of updating to the system.
- 96% accurate now and is improving over time.
- Spits out data as a *.csv file
- It is easier to support a product including the computer, but agencies are nervous about NMT supplying a computer. They can provide just the software, but it might take more support.
- Works with standard and length and a half tag. Would NOT work with sequential or half-length tags.
- I'm happy to come on site and demo how this works in practice in the field. I would love to work with agencies to fine tune this device.
- Ordering seems to be getting smoother. Get in the orders before the season starts to keep up with demand. They have had good luck with things not being on back order but ordering in advance seems to be helping. Please answer questions about CWT numbers. The price catalogue is going to have pictures and part numbers added to help with purchasing.

1:30 All Agency Updates

Agency Updates: Various agencies, including NWIFC, CDFO, CDFW, CRITFC, and others, provided updates on their tagging levels, Mass Marking plans, and any changes in their programs.

Link to the All-Agency Update Document: <https://www.rmhc.org/wp-content/uploads/2025/05/AllAgencyUpdate2025.pdf>

NWIFC / Northwest Indian Fisheries Commission:

2025 Tagging Levels, Marking Plans, Special Requests, Comments:

- No real changes other than Steelhead going away for western WA.

NMFS / National Marine Fisheries Service, Alaska:

2025 Tagging Levels, Marking Plans, Special Requests, Comments:

- No updates

CDFO / Fisheries & Oceans Canada:

2025 Tagging Levels, Marking Plans, Special Requests, Comments:

- Update summarized by species and section at bottom for CWT Chinook indicators – Mass Marking Chinook pilots – introduced to CWT indicator stocks, Robertson Creek and Atnarko. There has been a strategic approach to considering the impacts of Mass Marking on these stocks. Strategy aligns with hatchery brood stock management and potential for mark selective fisheries rather than full implementation of Chinook mass marking at all hatcheries.
- Marianne McClure Question: How are you using CWT only? – there is only one stock that has been identified for CWT only. This is a new Canadian “Node” in the DIT (Double Index Tag) Network recommended by the CTC CYER WG (Chinook Technical Committee Calendar Year Exploitation Rate Working Group) at Big Qualicum Hatchery. The DIT program is a new program that is intended to be an audit of the new CYER Analytical methods being implemented by the CTC.

CDFW / California Department of Fish & Wildlife:

2025 Tagging Levels, Marking Plans, Special Requests, Comments:

- No major changes for tagging. Doing more fry releases with 0 CWTs. Trying to maintain the # of CWTs but they need to release more fish – so they are releasing as unfed fry – will have to use genetics for monitoring these PBT.
- Spring Chinook is at 50% this year
- Adding additional Coho tagging to see where natural spawning is happening especially around Klamath dam removal area
- Greatly reduced production at Fall Creek because of navigation issues for returning fish

CRITFC / Columbia R. Intertribal Fish Commission:

2025 Tagging Levels, Marking Plans, Special Requests, Comments:

- Having security clearance problems for Hanford Nuclear Reservation release site
- Shubha Pandit – new for YAKA. Will likely be the new tag coordinator. Will send updated data once compiled.
 - Jim will add Shubha Pandit to the email list and reach out about data
 - Mass Marking: normally 200K fish [Warm Springs?]

ADFG / Alaska Dept. Fish & Game:

2025 Tagging Levels, Marking Plans, Special Requests, Comments:

- No major changes. Trying to tag 10% of Chinook and 5-10% of Coho. Most released are Pink/Chum which are not CWT tagged. The average is 1.8 billion, mostly Pink and Chum.
- Southern, Southeast regional aquaculture (SSRAA) received a tagging trailer, and they've increased their taking rate, which is awesome. And then they've also been Mass Marking for the last three years or so. No specific MSF fishery intentions currently.
- The Ketchikan program – is using distribution to release site barges and trailers.
- Trying to move away from Mass Marking.
- Metlakatla reports all RMIS data through ADFG

ODFW / Oregon Dept. Fish & Wildlife:

2025 Tagging Levels, Marking Plans, Special Requests, Comments:

- Similar to last year, somewhat less; funding stable so far

WDFW / Washington Dept. Fish & Wildlife:

2025 Tagging Levels, Marking Plans, Special Requests, Comments:

- No major changes this year.

IDFG / Idaho Dept. Fish & Game:

2025 Tagging Levels, Marking Plans, Special Requests, Comments:

- Consistent production and marking with previous years. Most are Mass Marked with ad-clip. All recovery fisheries for Chinook and Steelhead are mark-selective, tribal is non-selective.
- Production & marking levels are very similar to previous years. Most of Spring & Summer Chinook (about 95%), and about 85% of our Steelhead are Mass Marked with the Ad clip.

USFWS / U.S. Fish & Wildlife Service:

2025 Tagging Levels, Marking Plans, Special Requests, Comments:

- No longer have double index tags for Columbia River Gorge hatcheries Chinook or Coho out of Quilcene National Fish Hatchery in the Hood Canal. There's a similar hatchery not too far away from WDFW, and they still have a DIT program at their George Adams facility for Coho salmon.
- Reduction in Chinook coming from Coleman this year – temporary
- Marianne McClure Question: Are you still federally required to Mass Mark all production?
 - Yes, still required to mark all steelhead, Chinook and Coho for harvest – as long as it is not a conservation status.

MIC / Metlakatla Indian Community:

2025 Tagging Levels, Marking Plans, Special Requests, Comments:

NPT / Nez Perce Tribe:

2025 Tagging Levels, Marking Plans, Special Requests, Comments:

CCT / Colville Confederated Tribe(s):

- No real changes from previous years. MSF Summer Chinook - Only tag a portion of segregated programs for release.
- Fish for our introduction program in the Okanogan Basin that's part of the 10 J designation for that program and then the segregated group is about 29 to 30% CWT marked with that adipose fin clip.
- Not much change for 2025. For Summer Chinook program: they only tag a portion of the segregated groups for release and include both the yearling and the sub yearling releases. Summer Chinook: Spring Chinook... all are 100% wired for Okanogan Basin, segregated group is 30% CWT; also have 5K PIT tagged groups.

CTUIR / Confederated Tribes Umatilla:

2025 Tagging Levels, Marking Plans, Special Requests, Comments:

- See slides for updates.

MAKAH / Makah Tribe:

2025 Tagging Levels, Marking Plans, Special Requests, Comments:

- Releases included in NWIFC update.

YAKA / Yakama Nation:

2025 Tagging Levels, Marking Plans, Special Requests, Comments:

3:00 Update on PSC Data Exchange Projects & 2025+ Workplan

Discussion:

PSC Data Sharing Committee: Jim and Nancy provided an update on the PSC Data Sharing Committee's activities, including the merging of the working group on data standards, the revised terms of reference, and the progress on version 5.0 of the data specification.

TCDS Update

- Retired the Data Standards working group and have merged the members into the TCDS to reduce meetings needed to reach agreements

- Moving to 2 in person meetings a year that alternate between Canada and the US once travel funding issues are resolved.
- Enhancing the Data Sharing Role to PSC – to share tools and share liaison across tech committees.
- Added a section to the workplan to better communicate data sharing issues – including where people can bring those up.
- Intent is to consult with other PSC committees and propose changes to the data specs. The primary responsibility is to coordinate CWT data sharing and access to the system.
- Adding all proposals to PSC SharePoint for transparency on what proposals have been brought forward. Creating a template for submitting proposals
- Creating a companion Controlled Vocab for the data spec

Data Exchange 5.0

- Working to define processes for resolving data sharing issues – SharePoint for proposals, etc.
- Some of the active proposals could not be resolved for 5.0 and will go into a later version
- Examples of proposals which had significant discussion: Proposal 52: how to define electronic vs visual sampling process and how do we fit this into the database format. The issue still needs to be resolved. Proposal 57: additional release strategies for California for barged releases etc. This is resolved and in 5.0
- Improving proposal template – to make it clear what each proposal is referring to and what it's status is. Serves as rolling notes to which we can see the evolution of each proposal. Maybe we don't call it a proposal?...
- Discussed how to better assist with and implement data analysis tools like shiny apps
- 5.0 Version implementation looking to mid-to-late 2026
 - Will continue to accept version 4.1 data well into 2026 but strongly encourage agencies to move to at least version 4.2 by mid-2026 so we can smoothly move to 5.0. Should be a relatively easy transition – reach out with questions.
 - PSMFC will confirm the exact date at the next TCDS
- Marianne McClure Question: When will the update to the web query come out? Seems like it really needs improvement. Nancy Leonard – this is on our radar coming soon

APR 23: WED: 9:00 AM – 1:15 PM (PDT); LUNCH & TRIP 1:15+ PM

Day 2 Attendance

In the Room: Ash Schaffer (NWIFC), Marianne McClure (CRITFC), Eric Keller (ADFG), Jason Azat (CDFW), Trevor Clark (ODFW), Nancy Leonard (PSMFC), Jim Longwill (PSMFC), David Knutzen (NMT), Stan Allen (PSMFC), Lara Erikson (PSMFC), Sara White (PSMFC),

Megan Griffiths (PSMFC), Dan Webb (PSMFC), Kate Al-Sheikhly (PSMFC), Alex Eaton (HVT)

Online: Dave Reggiani (MIC), Caroline Lawrence (NMFS), Ben Cross (USFWS), Jillian Cady (WDFW), Brian Leth (IDFG), Andrea Pearl (Colville), Kyle Beard (FWS), Forrest Bohlen (IDFG), Corey Dondero (IDFG), Erin Gunderson (NWIFC), Kathy Fraser (DFO), Geraldine VanderHaegen (NMT), Todd Gilmore (USFWS), Jesse Rivera (USFWS), Tiffany Peterson (MAKAH), Monica Diaz (PSMFC), Ryan Lothrop (WDFW – SFEC), Brian Dietz (CCT), Gabe Garza (ODFW)

Meeting Logistics: PSMFC discussed meeting logistics, including the use of chat for virtual attendees to add their names and affiliations for easier tracking of attendance.

Day 2 Agenda: PSMFC outlined the agenda for Day 2, which includes four back-to-back presentations before adjourning for a networking event in the afternoon.

- **Presentations:** PSMFC outlined that Day 2 will include four back-to-back presentations.
- **Canadian Node in DAT Network:** Kathryn Fraser from Canada provided an update on the 200,000 unclipped fish that will be tagged in Canada as part of the CTC CYER working group's effort to develop a Canadian node in the DAT network for a new analytical method to estimate calendar year exploitation rates in Mark Selective Fisheries.
- **Validation Technique for Mark Selective Fisheries:** PSMFC and Kathryn discussed the validation technique for the new analytical method, which involves sampling intensely in the escapement to identify differences in returns between marked and unmarked fish.

9:00 Update Presentation from PSC SFEC Committee

Discussion:

Ryan Lothrop Introduction: PSMFC introduced Ryan Lothrop from the Washington Department of Fish and Wildlife, who is also the US chair for the Selective Fishery Evaluation Committee (SFEC).

- **Overview of SFEC:** Ryan provided an overview of the Selective Fishery Evaluation Committee (SFEC), which assesses the impacts of Mass Marking and Mark Selective Fisheries to determine the viability of the coded wire tag program.
 - **SFEC Purpose:** Ryan explained that the SFEC was developed to assess the impacts of Mass Marking and Mark Selective Fisheries to determine the viability of the coded wire tag program.
 - **Committee Structure:** The SFEC operates with two main groups: the Analytical Work Group, focused on developing methods and analysis, and the Regional Coordination Work Group, which collects and evaluates Mass Marking and regional sampling programs.

- **Reporting:** Ryan mentioned that the SFEC reports back to the Commission on their status and any issues that need to be elevated.
- **Mass Marking and Mark Selective Fishery Proposals:** Ryan discussed the Mass Marking and Mark Selective Fishery proposals for 2025, noting that the Coho proposals are like 2024, while Chinook proposals have a slight increase due to the Columbia River Falls program.
- **New and Emerging Issues:** Ryan highlighted new and emerging issues, including potential changes to tagging and fishery sampling for Chinook, the need for updated release mortality rates for coho, and concerns about low mark rates in some fisheries.
 - **Tagging Changes:** Ryan discussed potential changes to tagging and fishery sampling for Chinook based on workgroup recommendations.
 - **Release Mortality Rates:** There is a need to review and update release mortality rates for coho, as some of the science is outdated.
 - **Low Mark Rates:** Concerns were raised about low mark rates in some fisheries and the implications for implementing Mark Selective Fisheries.
- **Complexity of Mark Selective Fishery Regulations:** Ryan discussed the complexity of Mark Selective Fishery regulations, including mixed bag regulations and the challenges they pose for evaluating fishery impacts.
 - **Mixed Bag Regulations:** Ryan explained that mixed bag regulations, where only a certain number of fish can be wild, add complexity to evaluating fishery impacts.
 - **Size Regulations:** Size regulations, which differentiate between legal and sub-legal fish, also pose challenges for assessment.
 - **Electronic Sampling:** There are areas with a lack of electronic code wire tag sampling, which complicates evaluations.
- **Litigation and Environmental Challenges:** Ryan mentioned ongoing litigation on US hatchery programs, potential expansion of Mark Selective Fisheries in BC, and environmental challenges such as climate change and wildfires affecting hatchery.
 - **Litigation:** Ryan mentioned ongoing litigation related to US hatchery programs that affect production and marking.
 - **BC Fisheries:** There is potential for the expansion of pre-terminal ocean Chinook Mark Selective Fisheries in BC, which could influence mark rates downstream.
 - **Environmental Challenges:** Environmental challenges such as climate change, water temperature, water supply, and wildfires are impacting hatcheries.
- **SFEC Annual Work Plan:** Ryan outlined the SFEC's annual work plan, which includes sending out letters for proposals, evaluating proposals, and submitting an annual report to the Commission.
 - **Proposal Requests:** Proposals are sent out in the fall, with evaluations and compilations occurring in November.
 - **Annual Report:** The SFEC works on completing and submitting their annual report, which includes a review of the previous year's work and plans for the upcoming year.
 - **Work Plan Submission:** The annual work plan is submitted to the Commission in September, detailing the work done and the plan for the following year.
- <https://www.psc.org/publications/technical-reports/technical-committee-reports/selective-fishery-evaluation/>

- CYER report: https://www.psc.org/wp-admin/admin-ajax.php?juwpfisadmin=false&action=wpfd&task=file.download&wpfd_category_id=33&wpfd_file_id=18538&token=&preview=1

10:00 California: New Hoopa Valley Tribal Hatchery & Reestablishment of Coho

Discussion:

Hoopa Valley Tribal Fisheries Department: Alex Eaton from the Hoopa Valley Tribal Fisheries Department (HVT) presentation:

- **Revitalization Efforts:** Alex Eaton discussed the efforts to revitalize Coho salmon populations in reservation streams through the conservation hatchery program.
- **Hatchery Program:** The program involves rearing surplus Coho eggs from Trinity River Hatchery and releasing them into restored reservation creeks.
- **Community Resilience:** The goal is to create self-sustaining populations and support community resilience, potentially supplementing tribal harvests.
- Hoopa people rely on anadromous salmonids as a food source and salmon are an important part of cultural practices.

Historical Degradation of Trinity River: Alex discussed the historical degradation of the Trinity River due to resource extraction, logging, and the construction of dams, which led to the decline of salmon populations.

- Degradation of Trinity: gold mining (1848 start) – hydro and dredger mining, over fishing – canneries harvesting Trinity fish until 30s, logging – post WW2 old growth tree logging and logging roads narrowing/shallowing streams, dams and the Central Valley Project – water diverted to provide water for Central Valley farming and hydropower production cause up to 90% reduced outflow to mainstem Trinity River, Trinity River Hatchery created above the dam – led to outbreaks of disease
- Caused channelization of the Trinity River and excess sediment which led to loss of spawning and spawning grounds

Current Coho Salmon Populations: Alex provided an overview of the current Coho salmon populations in the Trinity River, noting that the natural origin run size has been very low in recent years, with a high risk of extinction for the lower Trinity and South Fork Trinity population segments.

Hoopa Hatchery Operations: Alex described the operations of the Hoopa hatchery, including the facility setup, timeline for rearing and releasing fish, and the challenges they have faced, such as thiamine deficiency and system failures.

- See slides for hatchery facility technical specs

- SONCC Coho is Northern California or Southern Oregon Northern California evolutionary significant unit that these fish occur in – see slides for specifics.
- Run size estimates from 2018-2023 – plummeted from 299 to 60 fish over the last 5 years, only 8% natural origin fish
- Coho outmigrant estimates are significantly less than Steelhead and Chinook
- Historically only raised Steelhead and Chinook – in 2020 applied for a grant and in 2021 HGMP for Coho inclusion from excess eggs from Trinity River Hatchery (approved by NMFS in 2022)
- It started releasing Coho in July 2023

Release Strategy and Future Plans: Alex explained the release strategy for the Coho salmon, which involves using net pens to increase site fidelity and residence time and outlined plans to expand releases to other reservation tributaries and improve infrastructure.

- Working to restore spawning habitats – still have not seen spawners return to reservation creeks despite habitat restoration – since 2001/2002 survey only seen 19 live Coho in stream walks
- Goals: raise these surplus eggs and release them into restored creeks to bring the populations up to self-sustainability, bring back a cultural resource important to the Hoopa people
 - See slides for timeline and hurdles to overcome and growth/mort numbers
- Future: Want to get a PITTAG array in Mill Creek – looking for funding for that currently, make infrastructure improvements to the facility once funding is available, expand release sites to other reservation tributaries
- Monica will Reach out to Alex and supervisor about KBFC data system for their PIT Tag efforts.

11:15 Recruitment & Retention of CWT Field Staff

Discussion:

- Struggles to recruit field staff include: Access – are people seeing our postings, are we helping them to find us via things like career fairs? Connection – are we connecting with the right people? Attraction – are we attracting the right people? Process – are we making it as easy as possible for people to access our jobs/applications? Competitive – are we being competitive in our position types, pay, benefits/pension/leave, and housing/vehicle/mileage/cost of living stipend availability?
- How do we retain staff: Support – are we making sure they have training to feel safe, looking into their career interests and how to support that. Does our mission align with their interests? Safety – are we providing safety training/gear/prevention work? Training – are we offering effective and applicable training for that specific position and investing in concerns/interest/growth? Career – Are we listening to their career interests, career

field desires vs entry level growth? Refreshing Ideas – internal/external job shares/rotations to help offer full year positions, provide housing via RV/motor homes/camp sites for field staff, prioritize local candidates and working with local tribes or retraining existing employees.

- Next Steps – create a working group to develop ideas on how to connect locally, RCMT Portal for Job Sharing, industry assistance, think outside the box.
- Marianne McClure -the CRITFC internship and scholarship web page could be cross linked to. Might even send this to US CTC to see if they want to follow these effort/contribute ideas
- Monica Diaz - posted some recent Seasonal Fish Tech positions for PSMFC on the Texas A&M conservation jobs board, and got a lot of inquiries. A lot of observers apply for Fish Tech positions on Streams and hatcheries because they don't want to be on the boat anymore!
- Caroline Lawrence mentioned looking into Groundfish Gazette
- Jillian Cady: look into people with more background in plumbing and more technical school experience
- Lara Erikson will share any job board/list serv connection that is sent to her and put out a project summary for this effort
 - CRITFC.org
 - NWIFC.org
- Marianne McClure: positions assumed as 'seasonal tech' implies a temp but could be expanded; for coordination, see CRITFC link & scholarship info; scholarship opportunities; possibly cross-link w PSMFC
- Alex Eaton: if interested, contact Humboldt State /Fisheries Dept.; every year fisheries grads are looking for seasonal work.
- Stan Allen: it is very challenging to keep trailer operators. They might be hired-away by other partners, also the season is limited. The length is a problem. For example, we MHCC, they have done visits; also tagging season is only 4 months/year; NOTE: many federal people are likely now looking for jobs.
- Megan Griffith: note that 'guaranteed re-hire /priority hire clauses could be motivating for candidates; many college job boards have an email; example Cal-Davis.
- Lara Erikson: it is of a technical nature.
- Marianne McClure: possibly we need to inform how to become a trailer operator as a career path.
- Ash Schafer: A big problem is the cost of housing in Olympia; the range is \$60-\$90k; They were seeking ~5yrs experience & it's still not easy to keep them; trailer operator is much better than some other jobs

- Sara White: note cultural shift issues; CDFW has a list of colleges, etc. & having emails of career depts, professors can be good since they know the undergrads
- Trevor Clark: Oregon ODFW changed seasonal to permanent positions and made it much more likely to keep people; the season: March to September, and they need enough people so they can have breaks.
- Dave Knutzen: Timing can be way off for when the season fits their own calendar.
- Jillian Cady: They look at general technical skills & rather more than just the biological skillset; they've seen an improvement in retention.
- Dan Webb: investing in trailers, and what about housing?
- Ash Schaffer, Stan Allen: A problem; They take the job, then find out about the cost of housing; Then they turn the job down! It makes little sense to look far in lower-cost states, etc.
- Nancy Leonard: We could share contacts amongst ourselves, with universities, etc.
- Trevor Clark: finding someone with outdoor interests is better. The conditions & work situation can be difficult. 'comp' time is not allowed usually; or is used up before season begins.

12:15 California Spring Chin Reintroduction on San Joaquin R

Discussion:

- Presentation from Mike Grill and colleagues on the San Joaquin River restoration program – presentation came about because of struggles reporting to RMIS
- The Upper San Joaquin was considered the southernmost range for Chinook salmon.
- Program – River was heavily impacted by gold rush efforts. Spring run was limited in the 20-40s due to wires and dams' construction. By the 50s all Chinook runs above Merced River were extirpated.
- San Joaquin River Restoration Program:
 - Water Management Goal – Reduce water supply impacts
 - Restoration goal is to restore and maintain fish populations in good condition.
 - Restoration Area from Friant Dam to San Joaquin River/Merced River Confluence
 - There are currently ongoing difficulties with passage barriers in this area
 - All production fish are CWT and ad-clipped
 - We have collected broodstock collections from the Feather River fish hatchery.
 - We also hope to collect a natural return or hatchery return. Adults from the San Joaquin River itself, then other opportunistic collections like from Keswick Dam or Big Chico Creek, bring them in into the Brood stock

- San Joaquin has the Conservation Research facility (SCARF) Construction in Process – high tech equipment to monitor water quality and stress in holding tanks as well as wet and dry labs for fish research
- So, part of the reintroduction strategies for the SCARF is to have a captive breed stocking program where we release regularly release fry, smolts and yearlings within the restoration area.
- Something that's maybe a little unique is a captive rearing program where we actively release sexually mature adults to the river to spawn naturally.
 - Reduces hatchery selection pressure
- In-river Fish Monitoring:
 - Incubation and emergence, juvenile RST monitoring, adult trap and haul upstream past passage blockages, adult migration and prevention-summer hauling, red and carcass surveying for adults.
 - Hatchery adult returns have 4 types of tags: CWT, PIT or acoustic tags, floy tags and ad clips. See slides for specifics
 - Captive broodstock adults, so these would be fish that were sexually mature, we released them into the river to spawn naturally. CWT typically have PIT tags or acoustic tags, floy tags for external marking as well as adipose clipped fish. And then we do have typical genetic samples from them. That's part of the breed stock. See slides for specifics

CWT - Data

CWT's released to the system

- ✓ Captive Reared Broodstock
- ✓ Yearlings – Production Releases
- ✓ Juveniles – Production Releases
- ✓ Rotary Screw Trap Efficiency Fish

CWT's recovered from the system

- ✓ Hatchery Adult Returns (commercial or recreational ocean fishing, carcass, PIT)
- ✓ Captive Reared Broodstock (carcass or PIT)
- ✓ Yearling Production (trawl or salvage(PIT))
- ✓ Juvenile Production (trawl or salvage)
- ✓ Rotary Screw Trap Efficiency Fish (trawl or salvage)

CWT – Data (unconventional collection/recovery)

- ✓ Hatchery Adult Returns (commercial or recreational ocean fishing, carcass, PIT)
- ✓ Captive Reared Broodstock (carcass or PIT)
- ✓ Yearling Production (trawl or salvage(PIT))
- ✓ Juvenile Production (trawl or salvage)
- ✓ Rotary Screw Trap Efficiency Fish (trawl or salvage)

Hatchery Adult Returns

- ☐ PIT tag can tell us the CWT number without recovering a carcass

Captive Reared Broodstock

- ☐ PIT tag can tell us the CWT number without recovering a carcass or
- ☐ Should not be counted in escapement estimates

Yearling Production

- ☐ PIT tag can tell us the CWT number without sacrificing

- The looming question for us is whether to report captive broodstock to RMIS or not. Those fish technically should not be counted in any type of escapement value because technically they never went to the ocean and returned.
- Dan Webb Question/comment – Are they working with CDFG to report this info?
 - Jason Azat - For release yes, but how do you report CWT data if you don't recover the actual tag? We haven't figured it out because we know that it must have that tag because of the PIT tag but it doesn't get dug out on the way in and then once it's in, that pool can be polluted with the broodstock CWTs which didn't escape. So, it's not part of the sample expansion because they're not part of the escapement. And then not 100% of the fish are PIT Tagged so you can't rely on that info from the incoming fish.
 - Dan Webb – You can report them as something other than a recovery/tag status 1. You could propose to the TCDS to add another category that is like “tag not recovered” that captures this
 - Kathy Fraser – Why not develop a method if this data is there and available? This may come up with PBT again in the future where we may not need/want to take a head. This could move us into an indirect method of estimating CWTs – this makes it hard to share this info because there is no way to share analytic methods. It is important to clarify if this is meaningful across agencies or just a domestic concern and are you a treaty participant (CA is not).
- Marianne McClure: [You may find additional contacts to use here](#), and it looks like we only post internships with our tribes, but could possibly post other relevant internships as well. <https://www.wildsalmon.org/news-and-media/news/cbb-with-few-snake-river-sockeye-making-it-to-sawtooth-basin-endangered-fish-hang-on-with-captive-breeding-outplanting-adults-into-lakes.html> The Mark Committee visited Eagle Hatchery and observed the real time genetic analysis and matching of parents into individually reared families. The population has gone from Lonesome Larry in 1992 to hundreds of fish in 2021. Hope the San Joaquin never gets that bad.

APR 24: THURS: 9:00 AM – 12:30 PM (PDT); ADJOURN 12:30+ PM

Day 3 Attendance:

In the Room: Ash Schaffer (NWIFC), Marianne McClure (CRITFC), Eric Keller (ADFG), Jason Azat (CDFW), Trevor Clark (ODFW), Nancy Leonard (PSMFC), Jim Longwill (PSMFC), Stan Allen (PSMFC), Lara Erikson (PSMFC), Sara White (PSMFC), Megan Griffith (PSMFC), Dan Webb (PSMFC), Kate Al-Sheikhly (PSMFC), Alex Eaton (HVT)

Online: Dave Reggiani (MIC), Caroline Lawrence (NMFS), Ben Cross (USFWS), Jillian Cady (WDFW), Brian Leth (IDFG), Andrea Pearl (CCT), Kyle Beard (FWS), Forrest Bohlen (IDFG), Corey Dondero (IDFG), Erin Gunderson (NWIFC), Kathy Fraser (DFO), Geraldine VanderHaegen (NMT), Todd Gilmore (USFWS), Jesse Rivera (USFWS), Tiffany Peterson (MAKAH), Monica Diaz (PSMFC), Ryan Lothrop (WDFW – SFEC), Brian Dietz (CCT), Angela Garelick (Wildlife), Gabe Garza (ODFW), Roxanne Jordan (Wildlife), Neil Ward (QW Consulting)

9:00 Fishing Regulations Database Presentation

Fishing Regulations Database: Megan Griffiths presented on the progress made by PSMFC developing the Pacific Coastwide Fishing Regulations Database, the current status of the project, and some of the complexities that need to be addressed.

Background: Mark-selective and conventional salmon fisheries are managed under a patchwork of regulations that changes by season, area, and species. The Pacific Salmon Commission (PSC) needs a single, authoritative source it can link to catch, tag recovery, and exploitation-rate analyses. The Pacific Coastwide Fishing Regulations Database was built by the Pacific States Marine Fisheries Commission (PSMFC) to close that gap by developing a database and web query to turn scattered pamphlets, emergency rules, and post-season reports into structured, searchable information.

Development: The team at PSMFC has been working to develop a SQL Server Fishing Regulations Database in house with the intent to use the spatial component of fishing regulations data to connect regulations to the recovery data in the RMIS CWT database.

Status: Relational regulations database developed and launched on PSMFC hosted SQL Server. Completed data compilation for Oregon and Washington marine sport and commercial regulations, Oregon and Washington sport and commercial Columbia River mainstem and tributary regulations, and Southeast Alaska sport regulations for the year 2023. Developed a data query web application for accessing the compiled data. Database structure improvements

continue to be made as data entry progresses. Started on compiling MSF salmon focused regulations from 2009 to 2015.

Complexities: Fishing regulations data is complex, and data entry is time intensive. RMIS uses location information based on RMIS Basins as the finest level of granularity when lat long is not reported, fishing regulation areas often are on a smaller more closely regulated scale – not a one-to-one relationship. In-house developed GIS mapping representation of regulations data is needed to make the connection to CWT data – this is a significant undertaking. There are differing geographical areas and coding for various agency regulation locations over the years. PSMFC will be working with in-house GIS team to develop their layers as well as leverage resources where possible from state agency stakeholders.

Discussion:

Why did the team start with 2023 data as opposed to the focus years needed by the CTC (2009-2015) – we needed to build out a scalable relational database, 2023 regulations were readily accessible and data entry and database development could start right away. Once the database structure was mostly developed, we were better able to focus on finding sources for and compiling historical data.

The group discussed the nuances of commercial recovery data and how that connection to RMIS might be made.

What can RMIS reporting agencies do to make it easier to get their data tied to and included in the fishing regulations database? – Truth out the location data reported to RMIS, accessibility of regulations documentation and access to mapped fishing regulation areas is also very helpful.

9:45 Current Status on Updating the 2011 Regional Coordination & Agreements

Discussion:

Section 1:

- Title Change from 2011:
 - Approved/no objection
- Section 1.1.1
 - Do we want to include maxillary clips?
 - Agreed to make it more generic to capture all external marks.
 - Add the work coast-wide stock assessment verbiage
- Section 1.1.2
 - Nancy Leonard will talk to John Field and David Shearing to confirm that coordinating bi-lateral agency code/tag code prefix coordination is not the job of the TCDS, and then clarify the wording process in this document

- CDFO members wanted to clarify that with Canada dropping out of this group it is not the responsibility of CDFO to report back to this group to coordinate this
 - Marianne McClure: The tag coordinator would already be reposting this.
 - Nancy Leonard will check to see if coordinating via the tag coordinator would be possible and update and share wording
- RMPC Fin and CWT marking time period wording
 - Group is ok with the time period wording
- Bi-national wording – Update to bilateral to fit with current naming
- Updated wording to clarify that once CDFO is self-removed from this group, the coordination and updating of US tribes and agencies on CDFO news/participation will need to happen via their PSC reps. See text for specifics.
- Dan Webb asked to update the infographic on the data sharing and validation to better reflect that both the US and CDFO both validate their own and each other's data – essentially double validated
 - Dan Webb and Jim Longwill will help Nancy Leonard update the infographic

Section 2:

- Discussion and Updates to Objectives:
 - Removed recoveries from the marking and stock ID section as the agencies coordinate how to recover fish.
 - Removed aligning from PSC recommendations wording from first 2 points as agencies often don't
- Roles and responsibilities – Kathy Fraser suggested merging this section with the Scope Section – all agreed to move this section and part of 2.4 up to the 2.1 section.
 - Nancy Leonard will move the 2 paragraphs from 2.4 up under the scope section
- Updated wording in RCMT Tag Coordinator responsibilities section
 - To make it more generic and capture that they can respond to all RMIS inquiries
 - Removed section about purchase history and removed/reworded required attendance at RCMT meetings
 - Data Providers Webpage
 - Dan Webb will update ADFG's contact information to Eric Keller, remove CDFWKT from that list, and correct the spelling of Andrea's last name to 'Pearl'.
 - Ash Schaffer will get Dan Webb an updated contact for Quileute
 - Dan Webb will add these links to go over these web pages at the Data Status meeting. (<https://www.rmpec.org/coordination/data-providers/>).
 - Added wording to make sure the tag coordinators and data providers contact info is correct.
- Data Providers Section:

- Removed/reworded section about required attendance at RCMT meetings
- Annual Meeting 2.5.2
 - No comments
 - Draft Agenda – 2 months advanced notice was agreed on
- Status Update Meetings – agreed to have “as needed”
- Nancy Leonard will update Table 1 to reflect changed membership numbers
- 2.8 Amendments – agreed upon
- Kate Al-Sheikhly will find a date for the Members to meet for a 6-month meeting and send that out as soon as possible (around 3 or 4 hours). As well as work with IDFG rep to schedule the next annual meeting in person.
 - Members will read, edit, and wordsmith the document as needed before the 6-month meeting
- 4.1.8 Reporting – Do we want to clarify what we expect people to be reporting?
 - Jason Azat – Just say that we have to report releases and leave it generic
 - Ash Schaffer – (outside of CA specific example from Jason Azat) if you have a chance of intercepting someone else’s tags then you should be reporting all your tags – why is it not required to report recoveries in this document?
 - Marianne McClure – How do we enforce this?
 - Eric Keller – Important to have this wording in the document but we need to be careful how we wordsmith it
 - All agreed on this
 - Ash Schaffer will draft the first version of wording this, then the group will discuss how to word this before the next meeting so it can be finalized
 - Kathy Fraser suggested sharing this with TCDS to make sure this is clear in the data spec as well
 - Nancy Leonard will share this discussion/writing with the TCDS so we can assure it is accurately represented in the Data Specification