

2015 RCMT MEETING

39th Annual Meeting

Hosted by: **Alaska Dept. Fish & Game**

Location: [Baranof Hotel](#), Juneau, AK

Dates: **April 28 and 29, 2015**

Final Minutes

APR 28: TUESDAY: 9:00 AM – 5:00 PM

1. General business items (George Nandor /PSMFC)

- Welcome and introductions- see **Appendix A** for Attendee List
- Next year's mtg – 2016 -- is intended to be hosted in Idaho: what dates to consider?
 - George has been in touch with Brian Leth (IDFG)
 - will likely be held in Boise and potentially the same venue as last time
 - late April dates are better
- The 2017 meeting is intended to be hosted in Canada
- Review agenda
 - Would it be beneficial for the Committee to send a letter requesting a representative from California be in attendance? Yes. George will write a letter to California (CDFW) on behalf of the RCMT requesting this. .
 - Should meeting hosts be setting up conference call capabilities?
 - Has been discussed- the fear is that this once-a-year meeting turns virtual and you lose the benefits of having people there in person.
 - Full day conference calls can be difficult to manage.
 - With travel/ budget restrictions continuing to be an issue, having the ability for representatives to participate in some way on a regular basis would be beneficial.
 - A WDFW attendee commented that this capability would allow for more people (in addition to the committee members) to be able to contribute and gain valuable insight from the discussions at the meetings..
 - WebX capability & similar HD video options were discussed .
 - Meeting locations would be limited based on the technology they have available and would require staff to set up and run it
 - At this time there is no consensus to change the RCMT practice of in-person meetings .

2. Regional Mark Processing Center operations & announcements (RMPC staff)

- BPA funding of CWT Programs on Columbia- funding swap agreed to between BPA and NOAA (NOAA's Mitchell Act Screening Programs for BPA's CWT Programs)
 - BPA will continue funding some WDFW and ODFW programs directly as well as PSMFC programs
 - Effective July 1, 2015

A. Status of CWT Datasets & Unreported Tag Releases (Dan Webb /PSMFC)

(See also: [minutes, RCMT/2014/California: Item#2-A](#); [minutes, RCMT/2013/Oregon: Item#2-D](#))

Related document available online: [2015 Mark Meeting Documents](#)

- Reviewed on-line News & Data Status web pages and PDF Document
- Has been lots of turnover in data reporting staff within the agencies this year
- All locations required for data processing are up to date
- All agencies reporting that their release data is up to date as of January 31 deadline
- Reviewed reporting status by agency for recoveries
 - Agencies that have missing data sets or data that don't pass validation (**contact Dan Webb for more info**)- CDFW Klamath/ Trinity, QDNR, YTFP, NEZP, CRFC, QUIL
- Reviewed reporting status by agency for catch/ sample
 - Agencies that have missing data sets or data that don't pass validation (**contact Dan Webb for more info**)- CDFW Klamath/ Trinity, QDNR, YTFP, IDFG (terminal fisheries), NEZP, QUIL
- RMPC assists with locating missing tag codes, and maintains a master list of missing codes along with contact info for those who brought the missing code to their attention
 - Agency looking for the tag should first contact the agency responsible for the tag
 - RMPC is working with NMT to develop a "good tag code" list to make sure that those codes reported as missing are not just being mis-read

Discussion:

- Release & Recovery Info: Can there be an indication in the table where data will never be reported or where it will be reported by another agency- can those cells note who is now reporting the data or black out the cell or something? **RMPC staff will look into how to do this**
- Recovery & Catch/sample Info: .Good rule of thumb is to wait three years out from a catch year before assuming the data is complete
- **Having a list of when to expect data will allow RMPC to follow up with reporting agencies**
- Is it practical to reject an entire data submission over a couple of failed records?
 - Is there a better way to handle this so that some data is still being made available?
 - Can a web app be developed that has the validation built in so that agencies can hand-enter their data in these cases?
 - Still have to deal with the analytical side of being able to know when they have a complete dataset (working with the best available data at the time)
 - Also dealing with international treaty requirements to submit complete datasets
 - Push back with data errors is designed to get the agencies to fix their databases so that the same error doesn't keep popping up
 - Should this be brought to Data Standards? Look at RMIS as a place for publishing data- users need to know that what is there is fully verified
- **Ken J would like the committee to redo the charter and would like official agreement that if you buy tags you are responsible for reporting them**
 - George isn't sure that would solve the problem

- Mark K- it's a small percentage of the total CWT dealt with every year; the Mark Coordinators should be the ones responsible for tracking down and dealing with missing tag codes
- Stan A- if Ken is finding tag codes missing then he needs to send RMPC the tag codes so they can add it to their list and they can assist with tracking down the Mark Coordinator responsible for them as needed
- Cannot report the recovery as valid if the release information is not provided
- The issue is about compliance, not about the ease of tracking down the tag information; if you're releasing tags you should be reporting them
- Need to sort out where the problems are and how best to fix them depending on the agency in question
 - **Recommend to Data Standards** to focus on the codes that can be tracked down and remove the historic ones for which information will never be resolved; **add new value 'Tag Information Lost'** to Study Integrity field
- **If this issue is not resolved by 2016 meeting, Mark Committee will draft letter to agencies still not in compliance**
- CRITFC does not have a database of tags that have gone to their tribes (their fish are tagged by other agencies); transfer records do exist and that reporting needs to take place
 - If CRITFC is no longer reporting records, then should the individual tribes be brought in to the committee as reporting agencies?
 - RCMT may wish to invite Nez Perce to the meeting next year in Idaho

B. RMPC website changes: updated documents, contacts, new mapping tool (Dan Webb)

Related document available online: [2015 Mark Meeting Documents](#)

- Reviewed on-line RMPC home page, Publications web page, and PDF Document
- New link for Columbia River Facilities Map on the RMPC home page (links to mapper on StreamNet's website); developed at PSMFC and was shared with agencies in an attempt to get them to all standardize their location codes and naming conventions
- There are also Geodatabase files available on StreamNet corresponding to this map.
- **If updates need to be made to agency contacts or any other part of the website, let Dan Webb know**
 - Could add a bibliography of CWT research- contact Geraldine for info on this as she maintains a database on NMT's website (could simply link to their site from RMPC)

C. New Database software installation project at RMPC (Jim Longwill /PSMFC)

- Upgrading the Oracle server; currently evaluating virtual server options to determine which will best support the needs and goals of the program within the scope of budget constraints
- Conducted test migration and are currently system testing and doing code conversions
- Hope to have working system by the end of 2015

D. Demonstration of updated RMIS InfoMap service (Jim Longwill)

- Application upgrade is connected to the Release queries
 - Now displays the number of recoveries at a particular site

- Connection to ArcGIS service was upgraded summer 2014
- Will eventually expand to include Recovery queries
- Contact Van Hare at PSMFC (vhare@psmfc.org) for the link to PSMFC map services; share the link directly on the RMPC site if possible
- Composite map would be extremely useful for analysis (Carrie)

3. Update on PSC Data Sharing & Data Standards Working Group (George Nandor/ Kathy Fraser)

(See also: [minutes, RCMT/2014/California](#): Item #9)

Related document available online: [2015 Mark Meeting Documents](#)

- New document comparing CWT to PBT available on the PSC website
- Minutes from the most recent meetings are now available here: <http://www.rmhc.org/pacific-salmon-commission.html>
- DSWG formalizes recommendations for major/ minor changes to the specifications document; any recommendations that DSWG felt could be made immediately have already been implemented
- For releases:
 - Would like to add Stock origin type to differentiate from rearing type
 - New code for counting method
 - Allow 200 characters in comment fields
 - Allow coordinator code to be in the record id
- For recoveries:
 - Would like a new 'unresolved' reason code
 - Add upper weight limit for validation
 - New code for length was added
- For Catch-Sample:
 - QC issues- missing CSID, reporting pooled strata, modifications to field descriptions for 'sum' fields 28-34
 - New field? CV on Catch Estimate
- For Locations:
 - Format change: Pad out embedded blanks, No trailing blanks, Increase sub-location code characters
 - QC: Use of * and 7 (high seas)
 - Improve Lat/Long to 6 decimals
- Would like to improve the role of Data Sharing in facilitating change and making sure they have the right committee members participating and are engaged with the right technical committees
- Would like to update the 1989 TCDS Report (the spec document); would appreciate feedback on priority items to document/ update first
- Will be contacting CTC and Coho co-chairs to determine their requirements for the timeliness of data
- Catch and Effort database is being retired and archived
- All Chinook & coho catch should be in catch/sample table whether or not it is sampled
- Will work to identify standard practices in GIS data and use of lat/ long coordinates

4. Update from PSC Selective Fishery Evaluation Committee (Carrie Cook-Tabor/USFWS)

(See also: [minutes, RCMT/2014/California: Item #11](#))

Related document available online: [2015 Mark Meeting Documents](#)

- Powerpoint presentation
- Clearinghouse for coordination and reporting on MM and MSF programs
- Provide advice to PSC and report directly to the PSC Commissioners
- Develop analytical tools
- Assess and monitor the cumulative impacts of MSFs on stocks of concern to the PSC
- Number of MM coho and chinook released has plateaued
- Issues include lack of post-season MSF reports, lack of modeling capacity to evaluate impacts of large-scale MSFs on Chinook, lack of methods to evaluate mixed bags, lack of DIT programs for some indicator stocks, loss of data on unmarked fish, continued impacts on sampling programs due to MM
- Still need further analysis of MSFs, have reached potential for Coho MSFs along the coast and Chinook MSFs in Puget Sound, additional analytical tools are needed, reports need to be completed
- No further CWTIT funding available- more information is available in the annual reports
- Still need a NOAA rep on SFEC

5. Double-Index Tag Analyses, Current Usage, Discussion, Q & A (Carrie Cook-Tabor)

- Powerpoint presentation
- DIT provide an index of the relative difference in exploitation rate between a marked and unmarked fish due to MSFs
- 2003 Coho DIT Assessment showed no significant association between selective fishery intensity and return rate difference, MSFs were virtually undetectable
- Current Coho DIT Assessment found that it is much easier to detect a MSF impact when DIT groups are rolled up by region (marked fish are being exploited at a higher rate than unmarked fish) and when MSF total impacts on a stock are great than 10% ER
- Lessons learned (Coho DITs)- improved hatchery practices,
 - Reporting of Releases- DIT identification missing, related group ID missing
 - Recovery Data- MSF designation field, tag detection method field
 - Resulted in extensive error checking, recovery data errors
 - List of DIT programs can be found on PSC website or by querying RMIS with a related group ID of 'D'
- When errors are found they should be communicating them to the Data Standards group

6. All-Agency update on: (Tag-Coordination Representative, ALL-AGENCY Participation)

- Tagging Levels for 2015.....see tables below
- Mass Marking for 2015.....see tables below
- Mark-Selective Fishery Plans &/or Commentssee tables below

Would be nice to have a standard reporting template for agency head labs as part of this item.

The following changes are being made to this 'Member agencies' table (starting next year) in order to better reflect the actual structure of the RCMT as well as the participation status of agencies (or sub-agencies) involved in RCMT activities:

- agency BCFW (MOE) is being removed since it will be represented by CDFO; therefore, CDFO will have two (2) votes on the RCMT;
- agency NMFS/WR (West Region) is being removed since it has always shared a vote with the NMFS-Alaska representative and has not reported tagging activity to the RCMT for many years .

Please see the document: [RCMT Regional Agreements](#) (Part II, §3 /Membership) for further details regarding RCMT structure

Member agencies:

Agency or Organization	2015 Tagging Levels, Mass Marking, MSF Plans, Comments
IDFG / Idaho Dept. Fish & Game	Handout provided- Appendix B
WDFW / Washington Dept. Fish & Wildlife	Handout provided- Appendix B (includes WA Tribal Tagging)
NIFC / Northwest Indian Fisheries Commission	Same as 2014; tag 4 mil chinook, 1 mi coho, 100k steelhead; MM 14 mil chinook & coho (included in WA handout)
[National Marine Fisheries Service, West Region]	remove from list (see comments above)
NMFS / National Marine Fisheries Service, Alaska	90K ad clip + CWT chinook
ADFG / Alaska Dept. Fish & Game	Handout provided- Appendix B Same as 2014; ad clip & CWT 920K chinook, 830K coho CWT only; most marking is otolith marks
FWS / U.S. Fish & Wildlife Service	Handout provided- Appendix B 100% of all Coleman fish are being trucked this season
ODFW / Oregon Dept. Fish & Wildlife	Handout provided- Appendix B
CRFC / Columbia River Intertribal Fish Commission	No update available
CDFW / California Department of Fish & Wildlife	CV Chinook- 11 mill ad + CWT (32 mill total release) Klamath- 2.6 mill ad + CWT (10 mill total release) 2 mill ad clip steelhead + 100K AdAgencyWT moving

	<p>from Coleman to Nimbus to try to establish an American River run</p> <p>Coleman NFH will be trucking all of their fish;</p> <p>Collecting natural fish to bring to Mokelumne to ad + CWT</p> <p>Using some half tags with 100K natural spawned fish</p>
CDFO / Fisheries & Oceans Canada	<p>Handout provided- Appendix B</p> <p>All Chinook & Coho indicator stocks have increased tagging levels</p> <p>Reviewed 2 MSF for Southern BC Chinook</p> <p>There will now be 2 voting members from CDFO</p>
MIC / Metlakatla Indian Community	<p>CWT 45K Coho, 15K Chinook, no MM</p> <p>Thermal mark Chum- goal is 100% (80-100 mill)</p>
[BCFW / B.C. Ministry of Env., Fish & Wildlife]	remove from list (see comments above)

Other reporting agencies:

Agency or Organization	2015 Tagging Levels, Mass Marking, MSF Plans, Comments
NEZP / Nez Perce Tribe	Handout provided- Appendix B
YAKA / Yakama Nation	Handout provided- Appendix B
COLV / Colville Tribe(s)	No update provided

7. Return of tags back to agencies (Doug Herriott /CDFO)

(See also: minutes, RCMT/2013/Oregon: Item #14)

- Brought up because CDFO is doing a straying tags study so they have asked for all of them back
- A reminder to all to send the tags back to those agencies that want them
 - USFWS no longer wants their tags returned (per Carrie C-T)
- Concerned that if this isn't happening then the tags are being disposed of
- Contact the tag coordinator for each agency to determine who to return tags to
- See updated 'Return of Tags' table in APPENDIX C below .

APR 29: WEDNESDAY: 8:00 AM – NOON

8. Recording errors with Tag Type '15' (Half-length Alphanumeric, Decimal) (Dan Webb)

We have seen several cases where these tags have been mis-identified & reported as 6-digit tags rather than properly as 10 digit tags at recovery labs. An example list of rows with errors found will be available for review.

Related document available online: [2015 Mark Meeting Documents](#)

- Reviewed PDF Document
- ½ length CWT tags (Tag Type 15) must be reported in the CWT database as 10 character codes and the recovery tag type will be cross-checked with the release tag type during validation; this will avoid issues of duplicate tag codes
- NMT has internally identified release groups using a combination of Tag Code & Tag Type .
- ADFG, CDFO, CDFW, CRFC, USFWS, NIFC, NMFS and WDFW have reported releases of the older ½ length Tag Type 3 tags. ADFG, CDFW and USFWS have reported releases of the newer ½ length Tag Type 15 tags, and these releases are generally reported correctly. The issue is more commonly seen with the recovery agency's records. Only 4 agencies with mismatches that need to be fixed.
- Correct way to enter code in RMIS:
 - 1st two digits are agency code
 - Then add '0' before each digit of the tag code
 - ex. Tag Code 165809 is entered 1605080009
- CDFO would like to see dedicated agency codes used for half tags to alert tag readers who may think that the tag codes are unique
 - Preserving the convention of coding at 10 digits is risky when the readers are not going to read the code at 10 digits
- NMT is reluctant to assign new agency codes, but will try to avoid producing redundant tag codes .
- Going forward, do you still need to record ½ tags with 10 digits if the tag type is correct? Keeping with 10 digits is one more check to make sure there aren't duplicates
- Still a question of what happens with historic records
 - Only a mismatch of tag type with the historic records, so those will be fixed
 - Agencies may want to re-read the tags
 - Dan will notify the agencies of the discrepancies in tag type 15 between releases and recoveries and ask them to re-submit under the new validation procedures
 - DSWG also serves to balance agency workloads

9. Special marking requests & announcements for 2015: (George Nandor)

Requests involving use of 'agency-only wire'?

- CDFW will have agency-only wire for Steelhead

- It should be noted that the use of agency-only wire tags always requires a **Request for Marking Variances** form to be submitted to the RCMT. The form is available on the Publications page of the RMPC web site.

10. Presentation of Alaska Hatchery Program (Lorraine Vercessi /ADFG)

Related document available online: [2015 Mark Meeting Documents](#)

- Powerpoint presentation
- Salmon Fisheries Enhancement Program designed to support the fishery and the fishery economy in the early 1970s, led to the development of the PNP hatcheries
- 94% of the 2014 hatchery contribution was for commercial harvest, 1% for sport/ personal/ subsistence harvest, 5% unharvested
- Majority of fisheries enhancement in Alaska is done by the private non-profit (PNP) hatchery facilities
- 43 billion juvenile salmon release from Alaska's hatcheries between 1975 and 2014
- Current releases average 1.5 billion fish annually
- 51% of total releases and 66% of hatchery-origin commercial harvest are in Prince William Sound
- First reported commercial harvest of hatchery fish was in 1977
- Alaska hatchery programs were designed to supplement, not replace, wild stocks (key difference from lower 48 hatcheries)
- Ongoing 12 year study on spawning activities to see how many hatchery fish are utilizing those areas; think these stray rates (5-7%) are not detrimental to the wild fish

11. Presentation on T-wand study & results at CDFO labs (Kathy Fraser /CDFO)

CDFO did a blind study of the T-wands with the reduced sensitivity setting in fall 2014. They also presented these results at the CWTIT meeting in Nov 2014. (see also: [minutes, RCMT/2013/Oregon](#): Appendix E, p. 2)

Related document available online: [2015 Mark Meeting Documents](#)

- Powerpoint presentation
- In regards to: Chinook at Chilliwack R Hatchery .
- Compared the T-wands to tube detectors
- New setting worked well; reduced interference, did not miss any tags, insignificant amount of false positives
- New setting was a significant improvement and did not result in loss of data
- Reviewed slide on sampling rates in the West Vancouver Island fishery (slide available in CWTIT report #33 on the PSC website)
 - 50% of fish encountered are clipped, while only 7% are tagged
 - saw higher costs when they had to touch and tube every fish
 - when budgets are tighter you see the sampling rates drop
 - currently only sampling at 10% rate (will not meet 20% sampling rate target)
 - switch to visual sampling now

12. Northwest Marine Technology (Geraldine Vander Haegen /NMT)

Product update

- Once the T-Wands began to be widely available, users were finding that there was excessive interference from surrounding metals, raingear, and so on. After investigating and testing some the electronic settings, NMT changed the standard settings for the wands to a detection range of 5.25 cm, which significantly reduced interference without impacting CWT detection. New T-wands have been delivered with these settings since November 2014, and NMT has updated many of the T-Wands delivered before that. The update takes only a few minutes, but must be done by NMT. Updated wands are being marked by green tape on the handle so that the owners can track which ones have been updated. Feedback about the new settings has been very positive. Please continue to push to have your wands updated. Please contact Geraldine Vander Haegen (geraldine.vanderhaegen@nmt.us) for more information.
- NMT is continuing to offer discounts on the purchase of a T-Wand when you trade-in a blue wand. So far we have collected over 325 blue wands which are being used for parts and repairs of the blue wands still used by the agencies. These wands are not available for purchase by any agency that has traded them in.
- The AutoFish program is running relatively smoothly. Last year, we talked about the importance of upgrading the computers in the trailers, and this is now complete pending one remaining in the Klamath basin. NMT also did an overhaul of a USFWS trailer (akin to a 100,000 mile check up) that has been operating for about 10 years. This servicing was done at the Anacortes shop and while parts were worn, it was noted that the trailer had been well maintained. This type of overhaul is available for all trailers as the schedule allows. Please contact Dave Knutzen (dave.knutzen@nmt.us) for more information.
- In 2014, NMT provided over 3 million free tags to bolster the size of index groups and will continue to offer these in 2015. Please contact Lee Blankenship (lee.blankenship@nmt.us) for more information.

New products

- The Quad Counter for Tunnel Detectors has been redesigned so that all four counters and the switches are housed in one box. The batteries can now be changed by the user.
- For hatcheries where the number of fish returning with CWT far exceeds the number of tag recoveries needed for PSC analysis, NMT has developed a sub-sampling controller that can be used with a Tunnel Detector and Gate to automatically divert a pre-set fraction of the detected tags for actual tag recovery. The unit displays the total number of tags detected (including those that will not be diverted) and the percentage of tagged fish that were diverted. This percentage is input by the user based on instructions from the agency. The sub-sampling controller should be available in summer, 2015.

Q&A: issues with current equipment & usage, etc.

- Ron Olson- at last year's meeting, we discussed data collected at the head labs regarding tag placement. Any further updates or information on this?
 - Kathy Fraser - not sure where it stands at this point
 - Mark Kimbel – WDFW lab counted the number of cores it took to get the tag, who did the work, where, what type of trailer was used, etc. and didn't find any correlation between them. They note that the number of cores needed to find the tag has generally increased.
 - This issue could be investigated further - look at when tagging took place, how big the fish were when they were tagged, and evaluate whether the final tag location is from poor placement at tagging or tag migration.

APR 29: AFTERNOON

Tour: DIPAC facility. 1:45pm Brock Meredith

REVIEWED

By James R Longwill at 11:40 am, Jun 01, 2015

Appendix A

2015 Mark Meeting Attendees

*Committee Member or Designee

Name	Agency	Mailing Address/ Telephone/E-mail Address
Allen, Stan	PSMFC	205 SE Spokane St., Suite 100, Portland, OR 97202-6413 Tel: (503) 595-3114 E-mail: sallen@psmfc.org
Buettner, Detlef	ADFG	10107 Bentwood Place, Juneau, AK 99801 Tel: (907) 46503496 E-mail: detlef.buettner@alaska.gov
Celewycz, Adrian	n/a	Tel: E-mail: acelewycz@gmail.com
Cook-Tabor, Carrie*	USFWS	510 Desmond Dr SE, Suite 102 Lacey, WA 98503 Tel: (360) 753-9512 E-mail: carrie_cook-tabor@fws.gov
Eiler, John	NMFS	Tel: (907) 789-6033 E-mail: john.eiler@noaa.gov
Fraser, Kathy *	CDFO	Pacific Biol. Station, Hammond Bay Road, Nanaimo, B.C. V9R 5K6 Tel: (250) 756-7371 E-mail: kathryn.fraser@dfo-mpo.gc.ca
Glaze, Ray	NMT	PO Box 427, Shaw Island, WA 98286 Tel: (360) 468-6417 E-mail: Ray.Glaze@nmt.us
Johnson, Ken*	ODFW	17330 SE Evelyn St, Clackamas, OR 97015 Tel: (971) 673-6059 E-mail: Kenneth.Johnson@state.or.us
Josephson, Ron	ADFG	Tel: (907) 465-4088 E-mail: rjosephson@ak.net
Keller, Eric	ADFG	Tel: 907-465-3483 E-mail: eric.keller@alaska.gov
Kimbel, Mark*	WDFW	600 Capitol Way N, Olympia, WA 98501 Tel: (360) 902-2406 E-mail: Mark.Kimbel@dfw.wa.gov
Leask, Steve *	MIC	Box 8, Metlakatla, AK 99926 Tel: (907) 886-3150 E-mail: tchsteve@hughes.net
Lensegrav, Gil	WDFW	600 Capitol Way N, Olympia, WA 98501 Tel: (360) 902-2240 E-mail: lensegll@dfw.wa.gov
Longwill, Jim	PSMFC	205 SE Spokane St., Suite 100, Portland, OR 97202-6413 Tel: (503) 595-3146 E-mail: jlongwill@psmfc.org

Masuda, Michele	NMFS	TSMRI, 17109 Pt. Lena Loop Rd., Juneau, AK 99801-8344Tel: (907) 789 6087 E-mail: michele.masuda@noaa.gov
Molitor, Ken	NMT	PO Box 427, Shaw Island, WA 98286 Tel: (360) 468-3375 E-mail: Ken.Molitor@nmt.us
Nandor, George*	PSMFC	205 SE Spokane St., Suite 100, Portland, OR 97202-6413 Tel: (503) 595-3144 E-mail: gnandor@psmfc.org
Olson, Ron *	NWIFC	6730 Martin Way NE, Olympia, WA 98516-5540 Tel: (360) 528-4335 E-mail: rolson@nwifc.org
Oxman, Dion*	ADFG	10107 Brentwood Place, Juneau, AK 99801 Tel: (907) 465-3499 E-mail: dion.oxman@alaska.gov
Roberts, Amy	PSMFC	205 SE Spokane St., Suite 100, Portland, OR 97202-6413 Tel: (503) 595-3451 E-mail: aroberts@psmfc.org
Shaffer, Ashley	NWIFC	Tel: (360) 438-4342 E-mail: ashaffer@nwifc.org
Shapley, Jacob	WDFW	Tel: (360) 902-2675 E-mail: Jacob.Shapley@dfw.wa.gov
Vander Haegen, Geraldine	NMT	955 Malin Ln SW, Suite B, Tumwater, WA 98501 Tel: (360) 596-9400 E-mail: Geraldine.vanderhaegen@nmt.us
Varney, Micki	ODFW	4034 Fairview Industrial Dr SE, Salem, OR 97302-1142 Tel: (503) 947-6237 E-mail: michelle.a.varney@state.or.us
Vercessi, Lorraine	ADFG	Tel: (907) 465-6423 E-mail: Lorraine.Vercessi@alaska.gov
Webb, Dan	PSMFC	205 SE Spokane St., Suite 100, Portland, OR 97202-6413 Tel: (503) 595-3147 E-mail: dwebb@psmfc.org

Appendix B

Agency Updates on Marking/ Tagging Levels for 2015

IDFG production and marking for 2015

Mass Marking - With the exception of some limited releases intended for supplementation or specific broodstock management purposes, most spring/summer chinook salmon (approx. 91%) and steelhead (approx. 86%) are mass marked with an adipose fin clip (see tables below).

Mark Selective Fisheries- All recreational fisheries for spring/summer Chinook salmon and steelhead in Idaho are mark selective. Tribal fisheries in Idaho are non-selective.

IDFG Brood Year 2014 Chinook and Sockeye Salmon Production Plan-Marking/Tagging in 2015

Sum of BY14 Number Released		Marks & Tags			
Fish Hatchery	Release Site	AD	AD/CWT	CWT	Grand Total
Clearwater	Clear Creek	515,000	120,000		635,000
	Lower Selway R.	145,000	120,000	135,000	400,000
	Powell Pond			300,000	300,000
	Red River Pond	980,000	120,000		1,100,000
	NF Clearwater	280,000	120,000		400,000
	Mill Creek (SFCW)	240,000	110,000		350,000
Clearwater Sum		2,160,000	590,000	435,000	3,185,000
McCall	Knox Bridge S.F. Salmon R. (Seg)	680,000	120,000		800,000
	Knox Bridge S.F. Salmon R. (Int)			200,000	200,000
McCall Sum		680,000	120,000	200,000	1,000,000
Pahsimeroi	Pahsimeroi R. (Seg)	680,000	120,000		800,000
	Pahsimeroi R. (Int)			200,000	200,000
Pahsimeroi Sum		680,000	120,000	200,000	1,000,000
Rapid River	Hells Canyon	350,000			350,000
	Little Salmon	150,000			150,000
	Rapid River	2,380,000	120,000		2,500,000
Rapid River Sum		2,880,000	120,000		3,000,000
Sawtooth	Yankee Fork	200,000			200,000
	Sawtooth weir (Seg)	1,330,000	120,000		1,450,000
	Sawtooth weir (Int)			150,000	150,000
Sawtooth Sum		1,530,000	120,000	150,000	1,800,000
Sockeye	Upper Salmon R. & Redfish Lake Cr.-Oxbow Reared	100,000			100,000
	Upper Salmon R. & Redfish Lake Cr.- Springfield FH Reared	650,000			650,000
Sockeye Sum		750,000			750,000
Grand Total		8,680,000	1,070,000	985,000	10,735,000

Does not include production from Dworshak National Fish Hatchery (USFWS/NPT), Kooskia National Fish Hatchery (NPT), or Nez Perce Tribal Hatchery (NPT). Also, does not include fall Chinook production (1.0M sub-yearlings) from the Idaho Power Company because these fish are reared and marked/tagged at Irrigon Fish Hatchery in Oregon before being released into the Snake R. near Hells Canyon Dam.

IDFG Brood Year 2015 Steelhead Production Plan- Marking/Taging in 2015

Sum of Number Released		Marks & Tags				
Fish Hatchery	Release Site	AD	AD/CWT	No Clip	CWT Only	Grand Total
Clearwater	Newsome Cr.			123,000		123,000
	Red House Hole	220,000				220,000
	Meadow Cr	290,000		70,000	140,000	500,000
Clearwater Total		510,000		193,000	140,000	843,000
Hagerman National	Sawtooth Weir	1,190,000				1,190,000
	Upper EF.Salmon R. (Weir)				60,000	60,000
	McNabb Point	130,000				130,000
	Sawtooth Weir (recirc)		90,000			90,000
Hagerman National Total	Sawtooth Weir (control)		90,000			90,000
		1,320,000	180,000		60,000	1,560,000
Magic Valley	Pahsimeroi Trap				186,000	186,000
	Squaw Creek	186,000				186,000
	Red Rock	93,000				93,000
	Shoup Bridge	93,000				93,000
	Colston Corner	93,000				93,000
	Little Salmon R.	403,000				403,000
	Yankee Fork	279,000		217,000		496,000
Magic Valley Total		1,147,000		217,000	186,000	1,550,000
Niagara Springs	Hells Canyon Dam	550,000				550,000
	Pahsimeroi Trap	800,000				800,000
	Little Salmon R.	450,000				450,000
Niagara Springs Total		1,800,000				1,800,000
Grand Total		4,777,000	180,000	410,000	386,000	5,753,000

Does not include production from Dworshak National Fish Hatchery (USFWS)

WDFW and TRIBAL PUGET SOUND CHINOOK MASS MARKING and CODED-WIRE TAGGING 2015

Species: Chinook
Area: Puget Sound
Brood: 2014
Releases: 2015 and 2016

10/24/2014

Data from 2014 Future Brood Document

Agency	Hatchery	Stock	Number of fish to be released with a CWT		Number of fish to be released without a CWT		Total Production	Proposed to be marked this year (Y/N)	Marked in previous year (Y/N)
			Ad Clipped	Unclipped	Ad Clipped	Unclipped			
WDFW	Kendall Creek	NF Nooksack springs	200,000	0	600,000	0	800,000	Y	Y
Tribal	Skookum Creek	SF Nooksack springs	0	1,000,000	0	0	1,000,000	NA	NA
WDFW	Marblemount *	Skagit River springs	277,500	200,000	110,000	0	587,500	Y	Y
WDFW	Hupp Springs	White River springs	400,000	0	0	0	400,000	NA	NA
WDFW/Tribal	Puyallup	White River springs	0	100,000	0	800,000	900,000	NA	NA
Tribal	White River	White River springs	0	340,000	0	0	340,000	NA	NA
Tribal	White River	White River springs 1+	0	55,000	0	0	55,000	NA	NA
WDFW	Dungeness	Dungeness River springs	0	50,000	0	0	50,000	NA	NA
WDFW	Hurd Creek	Dungeness River springs 1+	0	50,000	0	0	50,000	NA	NA
WDFW	Greywolf Acclimation	Dungeness River springs 0+	0	50,000	0	0	50,000	NA	NA
WDFW	Upper Dungeness Acc Pond	Dungeness River springs 0+	0	50,000	0	0	50,000	NA	NA
Total spring chinook			877,500	1,895,000	710,000	800,000	4,282,500		
WDFW	Marblemount	Skagit River summers	200,000	0	0	0	200,000	Y	Y
Tribal	Whitehorse	NF Stillaguamish River summers	220,000	0	0	0	220,000	Y	Y
Tribal	Bernie Gobin	Skykomish River summers	100,000	100,000	2,200,000	0	2,400,000	Y	Y
WDFW	Wallace River*	Skykomish River summers	200,000	200,000	600,000	0	1,000,000	Y	Y
WDFW	Wallace River	Skykomish River summers 1+	0	0	500,000	0	500,000	Y	Y
Total summer chinook			720,000	300,000	3,300,000	0	4,320,000		
WDFW	Glenwood Springs	Glenwood Springs falls	100,000	0	450,000	0	550,000	Y	Y
Tribal	Lummi Bay Sea Ponds	Samish River (Friday Creek) falls	0	0	500,000	0	500,000	Y	Y
WDFW	Whatcom Creek	Samish River (Friday Creek) falls	0	0	500,000	0	500,000	Y	Y
WDFW	Samish*	Samish River falls	200,000	200,000	3,600,000	0	4,000,000	Y	Y
WDFW	Soos Creek*	Big Soos Creek falls	200,000	200,000	2,800,000	0	3,200,000	Y	Y
WDFW/Tribal	Palmer	Big Soos Creek falls	50,000	950,000	0	0	1,000,000	N	N
WDFW	Icy Creek	Big Soos Creek falls 1+	0	0	300,000	0	300,000	Y	Y
WDFW	Issaquah	Issaquah Creek falls	0	0	2,000,000	0	2,000,000	Y	Y
WDFW	Minter Creek	Minter Creek falls 0+	0	0	1,400,000	0	1,400,000	Y	NA

WDFW	Hupp Springs	Minter Creek falls 1+	75,000	0	45,000	0	120,000	Y	Y
Tribal	Gorst Creek	Grovers Creek falls	0	0	1,580,000	0	1,580,000	Y	Y
Tribal	Grovers Creek *	Grovers Creek falls	200,000	200,000	25,000	0	425,000	Y	Y
Tribal	Clarks Creek	Puyallup River falls	0	0	400,000	0	400,000	Y	Y
WDFW	Voights Creek	Voights Creek falls	90,000	0	1,510,000	0	1,600,000	Y	Y
WDFW	Garrison Springs	Garrison Springs falls	0	0	450,000	0	450,000	Y	Y
WDFW	Chamber Creek	Chambers Creek	0	0	400,000	0	400,000	Y	NA
Tribal	Clear Creek *	Clear Creek falls	200,000	200,000	3,100,000	0	3,500,000	Y	Y
Tribal	Kalama Creek	Kalama Creek falls	100,000	0	500,000	0	600,000	Y	Y
WDFW	Tumwater Falls	Deschutes River falls	0	0	3,800,000	0	3,800,000	Y	Y
WDFW	George Adams *	George Adams falls	225,000	225,000	3,350,000	0	3,800,000	Y	Y
WDFW	RFEG 6	Hamma Hamma falls	0	80,000	0	0	80,000	NA	NA
WDFW	Hoodsport	Hoodsport falls	200,000	0	2,600,000	0	2,800,000	Y	Y
WDFW	Hoodsport	Hoodsport falls 1+	0	0	120,000	0	120,000	Y	Y
WDFW	Morse Creek	Elwha River falls 1+	0	100,000	0	0	100,000	NA	NA
WDFW	Morse Creek	Elwha River falls 0+	0	220,000	0	0	220,000	NA	NA
WDFW	Elwha	Elwha River falls	250,000	0	0	2,250,000	2,500,000	NA	NA
WDFW	Elwha	Elwha River falls 1+	0	200,000	0	0	200,000	NA	NA
Tribal	Hoko Falls	Hoko River falls	200,000	0	220,000	0	420,000	Y	Y

Total fall chinook 2,090,000 2,575,000 29,650,000 2,250,000 36,565,000

Total 3,687,500 4,770,000 33,660,000 3,050,000 45,167,500

Total Chinook Production 45,167,500
Percent Marked 83%

* DIT group

WDFW and TRIBAL PUGET SOUND COHO MASS MARKING and CODED-WIRE TAGGING 2015

Species: Coho
Area: Puget Sound
Brood: 2014
Release Year: 2016

10/24/2014

Data from 2014 Future Brood Document

Agency	Hatchery	Stock	Number of fish to be released with a CWT		Number of fish to be released without a CWT		Total Production	Proposed to be marked this year (Y/N)	Marked in previous year (Y/N)
			Ad Clipped	Unclipped	Ad Clipped	Unclipped			
WDFW	Baker Lake	Baker River	0	0	60,000	0	60,000	Y	Y
WDFW	Glenwood Springs	Glenwood Springs	0	0	100,000	0	100,000	Y	Y
Tribal	Lummi Bay Sea Pens	Lummi Bay	50,000	0	950,000	0	1,000,000	Y	Y
Tribal	Skookum Creek	Skookum Creek	50,000	0	950,000	0	1,000,000	Y	Y
WDFW	Marblemount*	Skagit (Clark Creek)	45,000	45,000	160,000	0	250,000	Y	Y
WDFW	Wallace River*	Skykomish (May Creek)	45,000	45,000	60,000	0	150,000	Y	Y
Tribal	Bernie Gobin	Skykomish (May Creek)	50,000	0	950,000	0	1,000,000	Y	Y
WDFW	Everett Salmon and Steelhead Club	Skykomish (May Creek)	0	0	20,000	0	20,000	Y	Y
WDFW	NWSSC - Eagle Creek	Skykomish (May Creek)	0	0	54,000	0	54,000	Y	Y
WDFW	Laebugten Net Pens	Issaquah Creek	0	0	25,000	0	25,000	Y	Y
WDFW	Issaquah	Issaquah Creek	50,000	0	400,000	0	450,000	Y	Y
WDFW	Soos Creek*	Green River (Soos Creek)	45,000	45,000	510,000	0	600,000	Y	Y
Tribal	Keta Creek / Crisp Creek	Green River (Soos Creek)	0	0	500,000	0	500,000	Y	Y
Tribal	Elliott Bay Net Pens	Green River (Soos Creek)	0	0	395,000	0	395,000	Y	Y
WDFW	NWSSC Des Moines	Green River (Soos Creek)	0	0	30,000	0	30,000	Y	Y
WDFW	Marine Tech Center	MTC / Soos Creek	0	0	10,000	0	10,000	Y	Y
WDFW	Voights Creek*	Puyallup (Voights Creek)	45,000	45,000	690,000	0	780,000	Y	Y
WDFW/Tribal	Puyallup	Puyallup (Voights Creek)	50,000	0	250,000	0	300,000	Y	NA
Tribal	Clarks Creek	Puyallup (Voights Creek)	0	0	3,200	0	3,200	Y	Y
Tribal	Puyallup Tribal (Rushing)	Puyallup (Voights Creek)	100,000	0	0	0	100,000	Y	Y
WDFW	Minter Creek	Minter Creek	50,000	0	450,000	0	500,000	Y	Y
WDFW/Tribal	SSNP/Squaxin Net Pens	Skykomish (May Creek)	50,000	0	1,750,000	0	1,800,000	Y	Y
Tribal	Garrison Springs	Minter Creek	0	0	100,000	0	100,000	Y	Y

WDFW and TRIBAL PUGET SOUND COHO MASS MARKING and CODED-WIRE TAGGING 2015

Tribal	Kalama Creek	Kalama Creek	45,000	0	355,000	0	400,000	Y	Y
WDFW	George Adams*	George Adams (Purdy Creek)	45,000	45,000	210,000	0	300,000	Y	Y
WDFW-Tribal	Port Gamble Net Pens	Big Quilcene River	45,000	0	355,000	0	400,000	Y	Y
Tribal	Quilcene Bay Net Pens	George Adams (Purdy Creek)	40,000	0	110,000	0	150,000	Y	Y
WDFW	Dungeness	Dungeness	0	0	500,000	0	500,000	Y	Y
Tribal	Lower Elwha House of Salmon*	Elwha River	75,000	75,000	275,000	0	425,000	Y	Y

* = DIT Group

Total			880,000	300,000	10,222,200	0	11,402,200		
Total Coho Production			11,402,200						
Percent marked			97%						

Table 1.

WDFW and TRIBAL COASTAL CHINOOK MASS MARKING and CODED-WIRE TAGGING 2015

10/24/2014

Species: Chinook
 Area: Coastal Washington
 Brood: 2014
 Releases: 2015 and 2016 Data from 2014 Future Brood Document

Agency	Hatchery	Stock	Number of fish to be released with a CWT		Number of fish to be released without a CWT		Total Production	Proposed to be marked this year (Y/N)	Marked in previous year (Y/N)
			Ad Clipped	Unclipped	Ad Clipped	Unclipped			
Tribal	Educket Creek	Sooes River falls	0	0	100,000	0	100,000	Y	Y
Tribal	SolDuc	SolDuc summers 0+	70,000		0	0	70,000	Y	Y
Tribal/WDFW	SolDuc	SolDuc summers 1+	80,000	0	170,000	0	250,000	Y	Y
Tribal	Bear Springs	SolDuc spring/summers	0	50,000	0	0	50,000	NA	NA
Tribal	Salmon River	Queets River falls	200,000	0	0	0	200,000	Y	Y
Tribal	Quinault Lake*	Quinault River falls	200,000	200,000	300,000	0	700,000	Y	Y
WDFW	Humptulips	Humptulips River falls	0	0	500,000	0	500,000	Y	Y
WDFW	Lake Aberdeen	Van Winkle Creek falls	0	0	50,000	0	50,000	Y	Y
WDFW	Wishkah (Mayr Bros)	Wishkah River falls	0	0	200,000	0	200,000	Y	Y
WDFW	Bingham Creek	Satsop River falls	0	0	200,000	0	200,000	Y	Y
WDFW	Satsop Springs	Satsop River falls	0	0	300,000	0	300,000	Y	Y
WDFW	Forks Creek*	Willapa River falls	200,000	200,000	2,800,000	0	3,200,000	Y	Y
WDFW	Nemah	Nemah River falls	0	0	3,300,000	0	3,300,000	Y	Y
WDFW	Naselle **	Naselle River falls	75,000	75,000	350,000	0	500,000	Y	Y

Total **825,000** **525,000** **8,270,000** **0** **9,620,000**

Total Chinook Production **9,620,000**
Percent Marked **95%**

* DIT

WDFW and TRIBAL COASTAL COHO MASS MARKING and CODED-WIRE TAGGING 2015

Species: Coho
 Area: Coastal Washington
 Brood: 2014
 Release Year: 2016

10/24/2014

Data from 2014 Future Brood Document

Agency	Hatchery	Stock	Number of fish to be released with a CWT		Number of fish to be released without a CWT		Total Production	Proposed to be marked this year (Y/N)	Marked in previous year (Y/N)
			Ad Clipped	Unclipped	Ad Clipped	Unclipped			
Tribal	Educket Creek	Sooes River	0	0	40,000	0	40,000	Y	Y
WDFW	Solduc	Solduc summers	0	0	100,000	0	100,000	Y	Y
WDFW	Solduc *	Solduc falls	75,000	75,000	250,000	0	400,000	Y	Y
Tribal	Salmon River *	Salmon River	75,000	75,000	500,000	0	650,000	Y	Y
WDFW	Humptulips	Humptulips	0	0	400,000	0	400,000	Y	Y
WDFW	Humptulips	Humptulips lates	0	0	100,000	0	100,000	Y	Y
WDFW	Friends Landing	Satsop River	0	0	25,000	0	25,000	Y	Y
WDFW	Mayr Brothers	Wishkah River	0	0	300,000	0	300,000	Y	Y
WDFW	Buzzard Creek	Wishkah River	0	0	25,000	0	25,000	Y	Y
WDFW	Lake Aberdeen	Van Winkle	0	0	30,000	0	30,000	Y	Y
WDFW	Bingham Creek *	Satsop River	75,000	75,000	0	0	150,000	Y	Y
WDFW	Bingham Creek	Satsop Lates	0		150,000	0	150,000	Y	Y
WDFW	Satsop Springs	Satsop River	0	0	450,000	0	450,000	Y	Y
WDFW	Skookumchuck	Satsop River	0	0	50,000	0	50,000	Y	Y
WDFW	Skookumchuck	Satsop lates	50,000	0	0	0	50,000	Y	Y
WDFW	Carlisle Lake	Satsop River	0	0	50,000	0	50,000	Y	Y
WDFW	Carlisle Lake	Satsop lates	0	0	50,000	0	50,000	Y	Y
WDFW	Eight Creek	Satsop lates	0	0	100,000	0	100,000	Y	Y
WDFW	Forks Creek *	Willapa River	75,000	75,000	50,000	0	200,000	Y	Y
WDFW	Forks Creek	Willapa lates	0	0	100,000	0	100,000	Y	Y
WDFW	Naselle	Naselle River	0	0	1,200,000	0	1,200,000	Y	Y
WDFW	Naselle	Naselle River lates	0	0	200,000	0	200,000	Y	Y
WDFW	Westport Net Pens	Humptulips River	0	0	100,000	0	100,000	Y	Y
Total			350,000	300,000	4,270,000	0	4,920,000		

Total Coho Production
Percent Marked

4,920,000
94%

* DIT groups

WDFW and TRIBAL COLUMBIA RIVER CHINOOK MASS MARKING and CODED-WIRE TAGGING 2015

Species: Chinook
Area: Columbia River
Brood: 2014
Release Year: 2015 and 2016

10/24/2014

Data from 2014 Future Brood Document

Agency	Hatchery	Stock	Number of fish to be released with a CWT		Number of fish to be released without a CWT		Total Production	Proposed to be marked this year (Y/N)	Marked in previous year (Y/N)
			Ad Clipped	Unclipped	Ad Clipped	Unclipped			
WDFW	Beaver Creek	Elochoman - Wild Falls	0	190,000	0	0	190,000	NA	NA
WDFW	Deep River Net Pens	Elochoman - Falls	90,000	0	910,000	0	1,000,000	Y	Y
WDFW	Cowlitz	Cowlitz - Falls	1,100,000	0	0	0	1,100,000	Y	NA
WDFW	Cowlitz	Cowlitz - Falls	100,000	0	2,300,000	0	2,400,000	Y	Y
WDFW	N Toutle	Toutle - Falls	100,000	0	1,300,000	0	1,400,000	Y	Y
WDFW	Kalama Falls	Kalama - Falls	100,000	0	3,400,000	0	3,500,000	Y	Y
WDFW	Fallert Creek	Kalama - Falls	0	0	3,500,000	0	3,500,000	Y	Y
WDFW	Lewis River	Lewis River - Falls (wild)	100,000	0	0	0	100,000	Y	Y
WDFW	Washougal	Washougal - Falls	900,000	0	2,100,000	0	3,000,000	Y	Y
Tribal	Klickitat	Klickitat - falls	450,000	0	3,600,000	0	4,050,000	Y	Partial
Tribal	Hanford Reach	Hanford - Wild	200,000	0	0	0	200,000	Y	Y
WDFW	Lyons Ferry	Lyons Ferry - Falls	200,000	0	0	0	200,000	Y	Y
WDFW	Lyons Ferry	Lyons Ferry - Falls 1+	225,000	225,000	0	0	450,000	Y	Y
WDFW	Ringold **	URBs	200,000	0	3,250,000	0	3,450,000	Y	Y
WDFW	Priest Rapids	Priest Rapids - URBs	600,000	600,000	6,099,543	0	7,299,543	Y	Partial
Total Fall Chinook			4,365,000	1,015,000	26,459,543	0	31,839,543		
Total Percent Marked			97%						
WDFW	Chelan Falls	Wells - summers 1+	576,000	0	0	0	576,000	Y	Y
WDFW	Dryden Pond	Wenatchee - summers 1+	500,001	0	0	0	500,001	Y	Y
WDFW	Wells	Wells - summers	484,000	0	0	0	484,000	Y	Y
WDFW	Wells	Wells - summers 1+	320,000	0	0	0	320,000	Y	Y
WDFW	Carlton Pond	Methow / Okanogan - summers 1+	200,000	0	0	0	200,000	Y	Y
WDFW	Similkameen Pond	Methow / Okanogan - summers 1+	167,000	0	0	0	167,000	Y	Y
Total Summer Chinook			2,247,001	0	0	0	2,247,001		
Total Percent Marked			100%						
WDFW	Cathlamet Channel Net Pens	Cowlitz - springs 1+	250,000	0	0	0	250,000	Y	Y
WDFW	Cowlitz	Cowlitz - springs fall release	100,000	0	400,000	0	500,000	Y	Y
WDFW	Cowlitz	Cowlitz - springs 1+	200,000		1,041,899		1,241,899	Y	Y

WDFW	Friends of the Cowlitz	Cowlitz - springs 1+	0	0	55,000	0	55,000	Y	Y
WDFW	Fallert Creek	Kalama - springs 1+	0	0	125,000	0	125,000	Y	Y
WDFW	Kalama Falls	Kalama - springs 1+	100,000		275,000		375,000	Y	Y
WDFW	Lewis River*	Lewis River - springs 1+	100,000	100,000	550,000	0	750,000	Y	Y
WDFW	Speelyai *	Lewis River - springs 1+	50,000	50,000	400,000	15,000	515,000	N	NA
WDFW	Muddy River Acc Pond	Lewis River - springs 1+	0	50,000	0	0	50,000	NA	NA
WDFW	Clear Creek Acc Pond	Lewis River - springs 1+	0	35,000	0	0	35,000	NA	NA
Tribal	Klickitat	Klickitat - springs 1+	140,000	0	460,000	0	600,000	Y	Y
WDFW	Tucannon	Tucannon - springs 1+	0	225,000	0	0	225,000	NA	NA
WDFW	Chiwawa Pond	Chiwawa - springs 1+	144,000	0	0	0	144,000	Y	Y
WDFW	Nason Creek	Nason Creek - springs 1+	223,670	0	0	0	223,670	Y	NA
WDFW	Methow	Methow - springs 1+	0	135,000	0	0	135,000	NA	NA
WDFW	Twisp	Twisp - springs 1+	0	30,000	0	0	30,000	NA	NA

Total Spring Chinook	1,307,670	625,000	3,306,899	15,000	5,254,569
Total Percent Marked	88%				

Total Chinook	7,919,671	1,640,000	29,766,442	15,000	39,341,113
Total Percent Marked	96%				

* DIT group
** marked by ODFW

WDFW and TRIBAL COLUMBIA RIVER COHO MASS MARKING and CODED-WIRE TAGGING 2015

Species: Coho
Area: Columbia River
Brood: 2014
Release Year: 2016

10/24/2014

Data from 2014 Future Brood Document

Agency	Hatchery	Stock	Number of fish to be released with a CWT		Number of fish to be released without a CWT		Total Production	Proposed to be marked this year (Y/N)	Marked in previous year (Y/N)
			Ad Clipped	Unclipped	Ad Clipped	Unclipped			
WDFW	Deep River Net Pens	Type S	90,000	0	660,000	0	750,000	Y	Y
WDFW	Grays River	Grays River - Type N	45,000	0	105,000	0	150,000	Y	Y
WDFW	Cowlitz	Cowlitz - Type N	0	0	1,200,000	0	1,200,000	Y	Y
WDFW	Cowlitz	Cowlitz - Type N (wild)	978,000	0	0	0	978,000	Y	Y
WDFW	N Toutle	Toutle - Type S	45,000	0	105,000	0	150,000	Y	Y
WDFW	Kalama Falls	Kalama Falls - Type N	45,000	0	255,000	0	300,000	Y	Y
WDFW	Lewis River*	Lewis River - Type S	75,000	75,000	950,000	0	1,100,000	Y	Y
WDFW	Lewis River*	Lewis River - Type N	75,000	75,000	750,000	0	900,000	Y	Y
WDFW	Washougal (Klickitat release)	Washougal - Type N	70,000	0	2,430,000	0	2,500,000	Y	Y
WDFW	Washougal	Washougal - Type N	45,000	0	105,000	0	150,000	Y	Y
Tribal	Klickitat	Klickitat - Type N	45,000	0	955,000	0	1,000,000	Y	Y
Tribal	Beaver Creek Acclimation Pond	Mid-Columbia Type S	0	97,000	0	0	97,000	NA	NA
Tribal	Butcher Pond	Mid-Columbia Type S	0	148,000	0	0	148,000	NA	NA
Tribal	Coulter Pond	Mid-Columbia Type S	0	125,000	0	0	125,000	NA	NA
Tribal	Nason Wetlands	Mid-Columbia Type S	0	105,000	0	0	105,000	NA	NA
Tribal	Rolfings Pond	Mid-Columbia Type S	0	100,000	0	0	100,000	NA	NA
Tribal	Twisp Acclimation Pond	Mid-Columbia Type S	0	90,000	0	0	90,000	NA	NA
Total			1,513,000	815,000	7,515,000	0	9,843,000		
Total Coho Production			9,843,000						
Percent Marked			92%						

* DIT group

Ad Clipped + CWTs

	Chinook	Coho
2009	1,426,277	893,486
2010	1,504,630	792,786
2011	984,282	961,723
2012	1,039,595	877,928
2013	904,558	1,024,891
2014	915,164	829,565
2015 (est)	920,000	830,000

Salmon Represented

	Chinook	Coho
2009	10,698,854	19,162,493
2010	9,442,206	20,055,672
2011	6,961,997	21,337,388
2012	7,747,560	20,046,852
2013	7,630,767	22,008,567
2014	7,090,755	21,971,130
2015 (est)	7,100,000	22,000,000

Mass Marking: Number of otolith marked salmon released from Alaskan Hatcheries

Year	Sockeye	Pink	Chum	Chinook	Coho
2010	48,460,530	710,761,378	553,753,279	8,180,335	7,221,341
2011	46,722,900	736,050,223	536,189,992	5,397,782	7,374,357
2012	52,338,300	774,725,687	596,604,842	6,526,848	8,936,261
2013	49,146,900	689,801,496	639,755,521	5,988,037	10,334,303
2014	55,172,603	806,865,268	616,452,237	6,268,424	8,504,137
2015 (est)	55,000,000	807,000,000	615,000,000	6,000,000	8,500,000

Pacific Northwest FWS - Planned Releases of Hatchery Fish for 2015 - with Mark and Tag Status

production in italics will be released and reported by another agency

Hatchery	Species/Run	Stock	CWT+AD	CWT only	AD only	None	Total
Spring Creek NFH	Fall Chinook	Spring Creek - Tule Falls	405,000	405,000	9,690,000	0	10,500,000
Little White Salmon NFH	URBs	Little White Salmon - URB Falls	200,000	200,000	4,100,000	0	4,500,000
Willard NFH	URBs	Little White Salmon - URB Falls	100,000	100,000	1,800,000	0	2,000,000
Little White Salmon NFH	URBs	Little White Salmon - URB Falls	200,000	0	1,500,000	0	1,700,000
Entiat NFH	Summer Chinook	Entiat - Summers 1+	200,000	0	200,000	0	400,000
Carson NFH	Spring Chinook	Carson - Springs 1+	75,000	0	1,045,000	0	1,120,000
Carson NFH	Spring Chinook	Carson - Springs 1+	50,000	0	200,000	0	250,000
Little White Salmon NFH	Spring Chinook	Little White Salmon - Springs 1+	75,000	0	925,000	0	1,000,000
Warm Springs NFH	Spring Chinook	Warm Springs - Springs 1+	225,000	0	0	0	225,000
Leavenworth NFH	Spring Chinook	Leavenworth - Springs 1+	200,000	0	1,000,000	0	1,200,000
Winthrop NFH	Spring Chinook	Methow - Springs 1+	605,000	0	0	0	605,000
Kooskia NFH	Spring Chinook	Kooskia - Springs 1+	100,000	0	625,000	0	725,000
Dworshak NFH	Spring Chinook	Dworshak - Springs 1+	120,000	0	1,380,000	0	1,500,000
Eagle Creek NFH	Spring Chinook	Willamette - Springs 1+	40,000	0	200,000	0	240,000
Coleman	Late Fall	Sacramento	700,000	0	0	0	700,000
Coleman	Fall Chinook	Sacramento	3,000,000	0	0	9,000,000	12,000,000
Livingston Stone	Winter Chinook	Sacramento	190,000	0	0	0	190,000
Makah NFH	Fall Chinook	Sooes River Falls	200,000	0	1,780,000	0	1,980,000
Makah NFH	Fall Chinook	Makah Falls	0	0	0	0	0
Chinook Total	Ad-clipped % = 76%		6,685,000	705,000	24,445,000	9,000,000	40,835,000
Eagle Creek NFH	Coho	Eagle Creek - 1+	25,000	25,000	300,000	0	350,000
Eagle Creek NFH	Coho	Clearwater River - 1+	0	30,000	0	245,000	275,000
Eagle Creek NFH	Coho	Clearwater River - 1+	0	30,000	0	245,000	275,000
Eagle Creek NFH	Coho	Eagle Creek/Yakima R. - 1+	0	0	500,000	0	500,000
Willard NFH	Coho	Wenatchee R. - 1+	0	920,000	0	0	920,000
Cascade Hatchery	Coho	Wenatchee R. - 1+	0	340,000	0	0	340,000
Winthrop NFH	Coho	Wenatchee R. - 1+	0	250,000	0	0	250,000
Makah NFH	Coho	Sooes River	0	0	43,355	0	43,355
Makah NFH	Coho	Sooes River	55,000	0	157,391	0	212,391
Quinalt NFH	Coho	Cook Creek	80,000	0	580,000	0	660,000
Quicene NFH	Coho	Big Quilcene River	72,000	72,000	256,000	0	400,000
Quicene NFH	Coho	Big Quilcene River	40,000	0	160,000	0	200,000
Coho Total	Ad-clipped % = 51%		272,000	1,667,000	1,996,746	490,000	4,425,746

Pacific Northwest FWS - Planned Releases of Hatchery Fish for 2015 - with Mark and Tag Status

production in italics will be released and reported by another agency

Hatchery	Species/Run	Stock	CWT+AD	CWT only	AD only	None	Total
Winthrop NFH	Steelhead	Wells/Methow	140,000	0	0	0	140,000
Eagle Creek NFH	Steelhead	Eagle Creek	0	0	100,000	0	100,000
Abernathy FTC	Steelhead	Abernathy	2,400	0	0	0	2,400
Dworshak NFH	Steelhead	Dworshak	180,000	0	2,000,000	0	2,180,000
Dworshak NFH	Steelhead	Dworshak	0	0	0	200,000	200,000
Hagerman NFH	Steelhead	Salmon River	80,000	0	1,020,000	0	1,100,000
Coleman	Steelhead	Coleman NFH	0	0	600,000	0	600,000
Makah NFH	Steelhead	Sooes River	0	0	200,000	0	200,000
<i>Makah NFH</i>	<i>Steelhead</i>	<i>Sooes River</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>
Quinalt NFH	Steelhead	Cook Creek/Quinalt	20,000	0	160,000	0	180,000
Steelhead Total	Ad-clipped % = 96%		422,400	0	4,080,000	200,000	4,702,400
Quinalt NFH	Chum Salmon	Cook Creek/Quinalt	0	0	0	1,850,000	1,850,000
Chum Total	Ad-clipped % = 0%		0	0	0	1,850,000	1,850,000
Total			7,379,400	2,372,000	30,521,746	11,540,000	51,813,146

We have reported approximately 45.5 million releases annually to RMIS for fish released in 2013 and 2014

ODFW: 2015 FISH MARKING PROGRAM

STOCK	2015 PRODUCTION				
	TAGGED (CWT)		UNTAGGED		
	AD+CWT	CWT only ¹	AD Clip	No AD Clip	Total Marked
Spring Chinook	2,749,000	265,000	9,783,000 ²	0	12,797,000
Fall Chinook	3,305,000 ³	0	13,289,000	1,925,000 ⁴ (LV only clip)	18,519,000
Coho	390,000	100,000	5,927,000 ⁵	0	6,417,000
Sum. Steelhead	420,000	0	1,480,000	0	1,900,000
Win. Steelhead	0	630,000	0	0	630,000
Chum	0		0	200,000 ⁶	200,000
Sockeye	0	0	127,000	0	127,000
TOTALS:	6,864,000	995,000	30,606,000	2,125,000	40,590,000

- 1) ODFW no longer is marking any DIT groups for Chinook or coho. The 'CWT Only' marked fish are limited to conservation purposes.
- 2) Spring Chinook Ad only clips: Total includes 20,000 'Agency only' tags
- 3) Fall Chinook Ad+CWT total includes 75,000 'AdLV+CWT' marked fish for Select Area Fisheries Enhancement (SAFE) fishery in Youngs Bay (lower Col. R. estuary).
- 4) LV only clips used to identify Rogue R fall Chinook in select area terminal SAFE fishery (Youngs Bay).
- 5) Coho: The 'Ad only' total includes 100,000 'AdRMax' marked fish
- 6) Chum: These fish are marked at Big Creek Hatchery with 'Agency only' wire.

Comparison of AD+CWT and AD Clip Only Marks (2011 - 2015)						
	Spring Chinook		Fall Chinook		Coho	
Year	AD+CWT	AD Clip only	AD+CWT	AD Clip only	AD+CWT	AD Clip only
2011	4,130,000	8,600,000	2,665,000	16,760,000	250,000	5,330,000
2012	3,210,000	9,265,000	2,955,000	15,775,000	350,000	5,494,000
2013	2,825,000	7,285,000	2,860,000	18,740,000	300,000	5,585,000
2014	2,710,000	9,278,000	2,820,000	18,691,000	300,000	5,187,000
2015	2,749,000	9,783,000	3,305,000	13,289,000	390,000	5,927,000

ODFW CWT Activities Summary 2014-2015

(Summary provided by Mark Engelking as of April 2015)

First full year of using the CWT F database and application for coded wire tag data:

- CWTF has integrated with electronic fish tickets for the commercial fisheries.
- CWTF has been able to transform data from Washington Columbia River fisheries and incorporate it into the summarized data for those fisheries.
- A backlog of stories to refine the programs and reports in the system was created and will be acted on by ISD after completion of remaining migration and development projects.

Reporting for the year 2014

Recoveries for 2014

Total recoveries to date for 2014 is 79,335

Heads processed and tags read is 60,749 +.

Remaining unprocessed heads is 18,585 or less.

13,052 are Bonneville Hatchery recovered coho

2,829 are Columbia River fisheries coho

Total 15,881 coho

861 Spring Chinook mainly Columbia River

285 South Coast STEP site Fall Chinook

Unclassified 1,558

Still collecting cwt tagged steelhead in NE Oregon fisheries at spawning.

Will be a couple thousand more recoveries from 2014 to be entered and processed.

CatchSample summaries for 2014

The summaries cover an estimated Oregon fisheries catch of **1,229,663 fish**

The number of fish recorded sampled in the summaries is **77,841**

The number of heads processed and summarized is **60,557**.

Releases for 2014

All releases for 2014 have been reported and are up to date:

- 544 releases of tagged and non-tagged anadromous fish.
- Total number of fish released 41,162,968
- 50 Total egg and fry releases of 404,319 fry or eggs in addition to smolt releases above.

CDFO 2015 CWT Marking Plans

Stock		Chinook	Coho		Chum	Pink	Sockeye	Steelhead
			AD	NOMK				
BC Interior								
	Chilko R	40,000	-	-	-	-	-	-
	Coldwater R		65,000	-	-	-	-	-
	Nicola R	200,000	-	-	-	-	-	-
	Salmon R/TOMF		65,000	-	-	-	-	-
	Shuswap R Low	500,000	-	-	-	-	-	-
	Shuswap R Middle	145,000	-	-	-	-	-	-
BC North Coast								
	Atnarko R Low	200,000	-	-	-	-	-	-
	Atnarko R Up	200,000	-	-	-	-	-	-
	Bulkley R Up	35,000	-	-	-	-	-	-
	Chuckwalla R	50,000	-	-	-	-	-	-
	Kilbella R	50,000	-	-	-	-	-	-
	Kitimat R	200,000	-	-	-	-	-	-
	Kitsum Abv Canyon	130,000	-	-	-	-	-	-
	Kitsum Bel Canyon	130,000	-	-	-	-	-	-
	Salloomt R	-	0	-	-	-	-	-
	Slamgeesh R	-	15,000	-	-	-	-	-
	Toboggan Cr	-	35,000	-	-	-	-	-
	Wannock R	50,000	-	-	-	-	-	-
	Zolzap Cr	-	30,000	-	-	-	-	-
BC South Coast								
	Bedwell R	0	-	-	-	-	-	-
	Big Qualicum R	160,000	140,000	-	-	-	-	-
	Black Cr	-	-	15,000	-	-	-	-
	Carnation Cr	-	-	3,000	-	-	-	-
	Cowichan R	800,000	-	-	-	-	-	-
	Goldstream R	-	0	-	-	-	-	-
	Keogh R	-	50,000	-	-	-	-	-
	Myrtle Cr	-	-	500	-	-	-	-
	Nahmint R	30,000	-	-	-	-	-	-
	Phillips R	150,000	-	-	-	-	-	-
	Puntledge R	240,000	200,000	-	-	-	-	-
	Quinsam R	650,000	140,000	40,000	-	-	-	-
	Robertson Cr	575,000	40,000	-	-	-	-	-
San Juan R	80,000	-	-	-	-	-	-	
Lower Fraser River								
	Ashlu Cr	15,000	-	-	-	-	-	-
	Capilano R Htch R	120,000	-	-	-	-	-	-
	Cheakamus R	120,000	-	-	-	-	-	-
	Chilko R	100,000	-	-	-	-	-	-
	Chilliwack R	200,000	-	-	-	-	-	-
	Cultus Lk		-	-	-	-	25,000	-
	Harrison R	300,000	-	-	-	-	-	-
	Inch Cr		70,000	80,000	-	-	-	-
	Mamquam R	25,000	-	-	-	-	-	-
	Seymour R/GSMN		40,000	-	-	-	-	-
	Shovelnose Cr	0	-	-	-	-	-	-
	Squamish R	30,000	-	-	-	-	-	-
Yukon and Transboundary River								
	Tatchun R	16,000	-	-	-	-	-	-
	Yukon R	150,000	-	-	-	-	-	-
Total		5,691,000	890,000	138,500	-	-	25,000	-



CDFO 2015 Mass Marking Plans

	Stock	Chinook	Coho	Chum	Pink	Sockeye	Steelhead
BC North Coast							
	Atnarko R	-	-	-	-	86,001	-
	Lagoon Cr/CCST	-	-	-	-	40,000	-
	Lonesome Lk	-	-	-	-	86,000	-
	Oldfield Cr	-	15,000	-	-	-	-
	Snootli Cr	-	100,000	100,000	-	-	-
	Zymacord R	-	25,000	-	-	-	-
BC South Coast							
	Big Qualicum R	-	260,000	250,000	-	-	-
	Chapman Cr	-	50,000	-	-	-	-
	Cluxewe R	-	100,000	-	-	-	-
	Coal Cr	-	10,000	-	-	-	-
	Conuma R	-	50,000	-	-	-	-
	Cypre R	-	30,000	-	-	-	-
	French Cr	-	30,000	-	-	-	-
	Goldstream R	-	25,000	-	-	-	-
	Kokish R	-	20,000	-	-	-	-
	Little R/GSVI	-	50,000	-	-	-	-
	Marble R	-	130,000	-	-	-	-
	Millard Cr	-	10,000	-	-	-	-
	Nanaimo R	-	84,000	-	-	-	-
	Nitinat R	-	150,000	-	-	-	-
	Quatse R	-	100,000	-	-	-	-
	Quinsam R	-	245,000	-	-	-	-
	Robertson Cr	-	160,000	-	-	-	30,000
	Rosewall Cr	-	100,000	-	-	-	-
	Sakinaw Lk	-	-	-	-	825,000	-
	Sliammon R	-	59,999	-	-	-	-
	Somass R	-	-	-	-	-	70,000
	Trent R	-	50,000	-	-	-	-
	Washlawlis R	-	85,000	-	-	-	-
	Waukwaas Cr	-	100,000	-	-	-	-
Lower Fraser River							
	Alouette R S	-	25,001	-	-	-	-
	Capilano R	-	425,000	-	-	-	-
	Chehalis R	-	400,000	-	-	-	-
	Chilliwack R	-	800,000	-	-	-	135,000
	Coquitlam R	-	25,000	-	-	-	-
	Cultus Lk	-	-	-	-	200,000	-
	Hoy Cr	-	5,000	-	-	-	-
	Hyde Cr/LWFR	-	5,000	-	-	-	-
	Kanaka Cr	-	15,000	-	-	-	-
	L Campbell R	-	40,000	-	-	-	-
	Mamquam R	-	50,000	-	-	-	-
	Mossom Cr	-	5,000	-	-	-	-
	Nicomekl R	-	50,000	-	-	-	-
	Noons Cr	-	10,000	-	-	-	-
	Norrish Cr	-	100,000	-	-	-	-
	Serpentine R	-	50,000	-	-	-	-
	Seymour R/GSMN	-	12,500	-	-	-	-
	Stave R	-	75,000	-	-	-	-
	Tenderfoot Cr	-	100,000	-	-	-	-
Total		-	4,231,500	350,000	-	1,237,000	235,000

Represents CDFO production that are adipose clipped with no CWT but may not represent 100% of production.

Data should be considered preliminary



Fisheries and Oceans
Canada

Pêches et Océans
Canada

From: [Drew Wickard](#)
To: [Jim Longwell](#)
Subject: NPT 2015 Marking Plans
Date: Thursday, February 05, 2015 10:03:04 AM

Jim,

Below is a breakdown of the NPT's marking plans for 2015. There are also several more NPT releases that are marked and tagged by WDFW, IDFG and USFWS.

Fall Chinook Salmon			Spring Chinook Salmon			Coho Salmon		
Release Site/ Stage	#	Marks/Tags	Release Site/ Stage	#	Marks/Tags	Release Site/ Stage	#	Marks/Tags
NPTH On Station Pre-Smolts	200,000	CWT Only	Lolo Creek Pre-Smolts	150,000	CWT Only	Kooskia NFH	200,000	CWT Only
	100,000	CWT/AD		150,000	Total Release			Total
	200,000	Unmarked/ Untagged	Newsome Creek Pre-Smolts	75,000	CWT Only		200,000	Release
	500,000	Total Release		75,000	Total Release			
North Lapwai Valley Pre-Smolts	200,000	CWT Only	All Spring Chinook Salmon	225,000	CWT Only			
	100,000	CWT/AD		225,000	Total Released			
	200,000	Unmarked/ Untagged						
	500,000	Total Release						
Lukes Gulch Pre-Smolts	100,000	CWT Only						
	100,000	CWT/AD						
	200,000	Total Release						
Cedar Flats Pre-Smolts	100,000	CWT Only						
	100,000	CWT/AD						
	200,000	Total Release						
All Fall Chinook Salmon	600,000	CWT Only						
	400,000	CWT/AD						
	400,000	Unmarked/ Untagged						
	1,400,000	Total Release						

Drew Wickard
 Marking Coordinator
 Fisheries Biologist
 Nez Perce Tribe
 45559 HWY 12
 Orofino, ID 83544
 208-621-3583
dreww@nezperce.org

Approximate Yakama Nation Planned 2015 releases:

Yakima Basin

Spring Chinook: ~650,000 total release (89% CWT in snout, 11% CWT in post-dorsal)

Fall Chinook:

LWS NFH transfers released from Prosser, ~1.5m total release, 10% CWT

Prosser URBs released from Prosser, ~200,000, 20% PIT, no CWT

Summer Chinook: ~150,000 Wells stock released from Yakima R. acclimation sites, 100% CWT

Sockeye: natural-origin progeny of adult plants; minimal marking (PIT) at downstream juvenile sampling stations

Coho: ~1.0million total release, ~63% CWT- all blank wire tag

Mid-Columbia Coho: ~1.5million total release, ~95% CWT (of which some blank wire tag)

Klickitat Basin

Spring Chinook: ~600,000 total release, ~25% CWT

Fall Chinook: ~3.3m total release, ~15% CWT

Coho:

Lewis stock released from Klick. Hatchery, ~1.0m, ~5% CWT

Washougal stock direct released in lower Klick. R., ~2.5m, <5% CWT

Bill Bosch, Data Manager
Yakama Nation Fisheries
Yakima-Klickitat Fisheries Project
509-972-8847
4/15/2015

Appendix C

Updated: **April 2015**

Table for sending back tags to other agencies

Agency or Organization	Wants Old Tags Returned?	Will Keep Recovered Tags for:
CDFO / Canada Department of Fisheries & Oceans	Yes	5 years
CDFW / California Department of Fish & Wildlife	Yes	5 years
USFWS / U.S. Fish & Wildlife Service	No	5 years
ADFG / Alaska Dept. Fish & Game	Yes	5 years
ODFW / Oregon Dept. Fish & Wildlife	No	5 years
WDFW / Washington Dept. Fish & Wildlife	No	7 years
IDFG / Idaho Dept. Fish & Game	No	5 years
CRITFC / Columbia River Intertribal Fish Commission	No	5 years
NWIFC / Northwest Indian Fisheries Commission	No	5 years
MIC / Metlakatla Indian Community	No	NA
NMFS / National Marine Fisheries Service, Alaska	No	5 years

Agencies will archive tags for minimum of years indicated, then either return them to the agency that wants them back or get rid of them if the agency doesn't want them back.