

2010 Fall Chinook Trapping/Sampling Protocol

by

Debbie Milks, WDFW
Bill Arnsberg, NPT
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Executive summary:

The trapping rate will be set at 12%. The gates will open for 1.8 minutes, 4 times/hour.

The tagging/sampling protocol for broodstock shipped to LFH and NPTH will be the same.

If the trap is swamped with fish: Shut down trap for an hour or so but clearly identify in the data when the trap was shut down and when it was started up again. Do not shut down and stay shut down for the rest of the day because we need to have a pre and post shut down sample so we can average them to estimate what passed during the shut down.

WDFW is providing 2 staff for helping with the broodstock collection activities at LGR. Scales sampled at the LGR Trap for LFH and NPTH broodstock will be mounted by WDFW staff at LGR.

Data collected from spring/summer chinook should be put on the same form that is used for FCH. Please note Spring or Summer under comments. If you are getting jacks suspected of being summers we will need to subsample those fish for wires as well.

Males, jacks and minijacks will all be entered on the data forms as males.

In an effort to reduce the numbers of jills and jacks hauled to the hatcheries and to reduce the numbers of fish sacrificed with wire for run reconstruction purposes the following protocol was approved by co-managers in the basin on 8/17/2010. The sub-sampling of wire tagged fish should allow for ample recoveries for evaluation purposes.

Protocol:

- 1) COLLECT & HAUL: All WIRE TAGGED FCH > 64 cm and every fifth wire tagged FCH < 65cm. Please give 2-ROP punches. For fish hauled to LFH please keep fish <65cm in a tank separate from the larger fish. For fish slated for NPT there is no need to separate them into size categories.
- 2) PASS: 4 out 5 WIRE TAGGED FCH <65 cm regardless of sex (even females). Please give 2-LOP punch.

- 3) COLLECT & HAUL: ALL untagged FCH >64 cm. Please give 2-ROP punch. Take scales on every third untagged fish that does not have a PIT tag until September 28 then increase the sampling to 100%.
- 4) PASS: ALL untagged FCH <65. Please give 2-LOP punch. Take scales on every female and take scales on 1 out of 3 males that do not have a PIT tag.

Note: Overall numbers of scales collected should be similar to what was collected in 2009. If the trapping rate changes, the numbers of operculum punches will be reduced to 1-ROP for hauled fish and 1-LOP for released fish.

More detailed information regarding trapping/sampling:

1) Trapping at LGR Dam

- a. Trapping/Sampling Protocol based upon water temperature in the ladder at the beginning of the day.

- i. Begin trapping August 18 if temperatures allow

- ii. Water temps at or below 70° F

1. Set automatic trapping gates to sample 12% of the entire run, 24 hours a day

- a. Any fish that are retained for broodstock must receive 2-ROP. If a fish to be retained is accidentally punched on the left side, give 1-ROP also and make a note in the comments column.

- b. Any fish released must receive 1-LOP and be scale sampled. Place scales in an envelope for age and origin determinations. If these fish are caught again DO NOT scale sample, but enter in data as recapture.

- b. Data and Verification

- i. Please note the times you check the trap and when the trap is empty (you are caught up).

- ii. Please write hauling destination (LFH or NPTH) on top of each data form)

- iii. Circle sampling or data recording errors and briefly note in comments column (examples: released with 1-ROP, forgot to scale sample, both sides punched, forgot to record or missing digit in PITTag, sample envelope numbers either out of numerical order or skipped for some reason).

- iv. Briefly check over data forms prior to faxing, sometimes erasures and cross-outs are not transmitted clearly through the fax machine.

- c. Hauling of broodstock

- i. Injections at LGR Adult Trap

1. All fish collected for broodstock (both LFH and NPTH) will be injected as directed by hatchery staff.
 - ii. WDFW and NPT will haul fish from LGR Dam (70% go to LFH and 30% go to NPTH).
 1. Fish will be divided weekly unless otherwise agreed to.
 2. It was agreed that trucks would be at LGR at 10am when the 70 degree protocol was in effect.
- d. Research
 1. No U of I radio tagging this year.
 2. NOAA sort-by-code fish.
 - a. These fish will be used as broodstock at LFH and NPTH.
 - b. Doug Marsh will run a program to indicate which fish were trapped during the 12% and which fish were outside of the trapping period (sort-by-code)
 - c. Doug will provide a sampling protocol for his fish. These fish may be used for broodstock.
 - d. NOAA staff will be in charge of mounting scales collected for NOAA studies
- e. Coordination of trapping data and CWT decoding of hauled fish
 - i. Fax paper copy of data to LFH, NPT, and SRL daily or whenever fish are hauled.
 - ii. Data entry, verification, and finalization by January 14.
 1. WDFW will enter, verify, and finalize the LGR Adult Trap trapping data.
 - iii. All database files at seasons end must be sent to NPT (Bill Arnsberg), WDFW (Debbie Milks), and TAC (Stuart Ellis and Henry Yuen).
- f. Video monitoring of sort-by-code fish
 - i. No video monitoring in 2010
 - ii. At seasons end Doug Marsh will let us know what the realized trap rate was for the season (set at 12% then adjusted for time gates left open for sbyc fish)

