

Late Brood Collections; 2014 review

1. Are unmarked PRH fall Chk showing up in the late collected brood?
 - Weir collections in 2014. (n=76 collected, 69 spawned)
2. What is the abundance and proportion of PRH fall Chk in CJH ladder?



Tag and mark combinations (PRH)

(%) = BY09-13 avg

Ad-clip/CWT (9%)



CWT only (11%)



Ad-clip, no wire (33%)



Ad-present, no wire (47%)



- 100 % otolith thermal mark since RY 2008
- >42,000 PIT tags/yr since BY2011

MQ #1. Are unmarked PRH fall Chk showing up in the late collected brood?

- Brood Collection at Weir, 2014
 - 76 collected, 69 spawned
 - 68 otoliths examined: 67 negative, 1 no data

MQ #1. Answer = No



Management Questions

2. What is the abundance and proportion of PRH fall Chk in CJH ladder?

- Ad-present, no wire
 - 603 Ad-present captured
 - 59 PRH expanded estimate
 - $59/603 = 10\%$
- CWT Only
 - $16/603 = 3\%$



Late Brood Collections 2015

- 19 NOR collected from the weir (early Sept)
- 65 collected from the CJH ladder
- 14 were identified as 'unmarked HOR' from PRH via otolith examination
- If all PRH fish were collected at the ladder then...
22% of Sept CJH ladder collections were PRH

Eggs from 14 unmarked HORs were not culled due to low total egg take. Put into segregated subyearling program and will not receive a CWT to minimize probability of future propagation.

Management Recommendations

- Minimize use of CJH ladder for brood collections.
- Read otoliths on all late-collected brood and if PRH origin then cull or put into segregated subyearling program.
 - Otolith lab must finish analysis before eggs from multiple females are mixed in the hatchery (mid-January)
 - Keep pre-spawn fish from the weir and ladder separate in the raceways so we can evaluate presence of PRH fish in each location