



Western Washington University
Western CEDAR

Salish Sea Ecosystem Conference

2018 Salish Sea Ecosystem Conference
(Seattle, Wash.)

Apr 5th, 10:45 AM - 11:00 AM

Survival of juvenile Cowichan River chinook throughout their first year of life: a summary of PIT tag returns through fall 2017

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Pellett, Kevin, "Survival of juvenile Cowichan River chinook throughout their first year of life: a summary of PIT tag returns through fall 2017" (2018). *Salish Sea Ecosystem Conference*. 155.
<https://cedar.wvu.edu/ssec/2018ssec/allsessions/155>

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Survival of juvenile Cowichan River Chinook throughout their first year of life

A summary of PIT tag returns through fall 2017



Kevin Pellett
Fisheries and Oceans Canada
April 5, 2018



**Fisheries and Oceans
Canada**

Acknowledgements

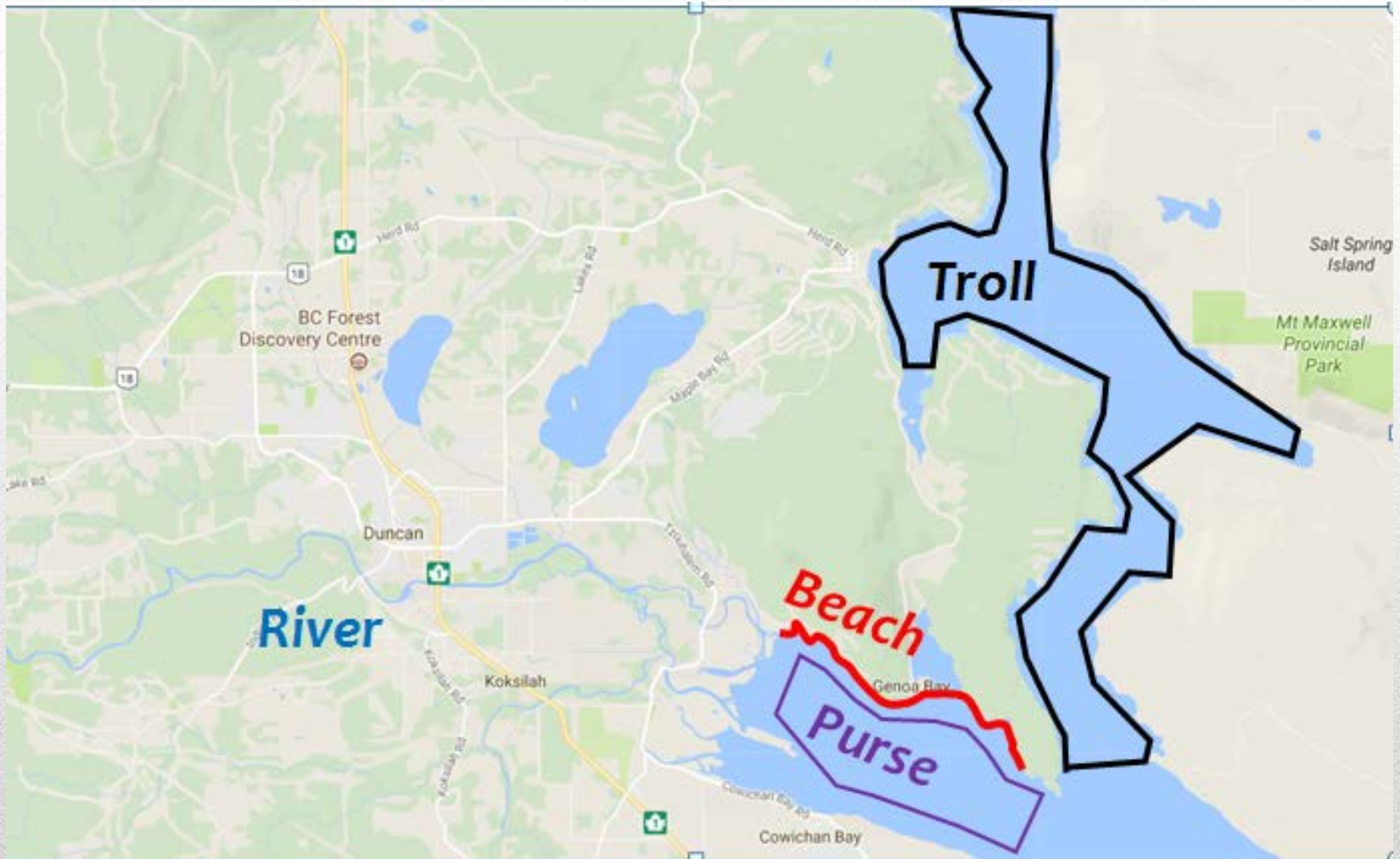
BCCF Staff – James Craig, Craig Wightman, Jeramy Damborg, Jennifer Sibbald, Jamieson Atkinson, Gary Horncastle, Wayne Paige Jr., Sandy Foxall

UVIC – Will Duguid

Kintama – David Welch, Erin Rechisky

DFO – Stewart Pearce, Andrew Campbell





Study Area

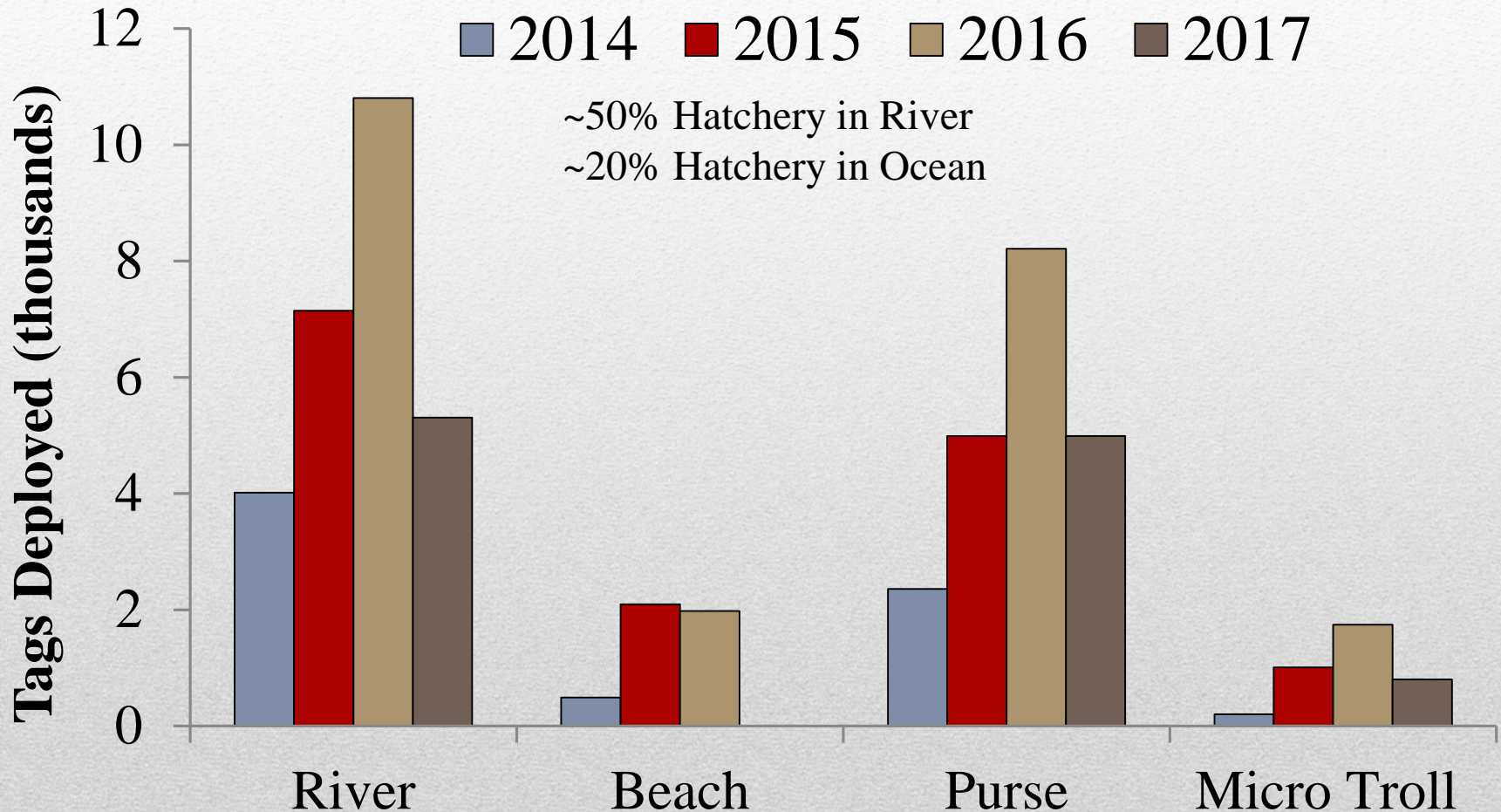


Micro Trolling

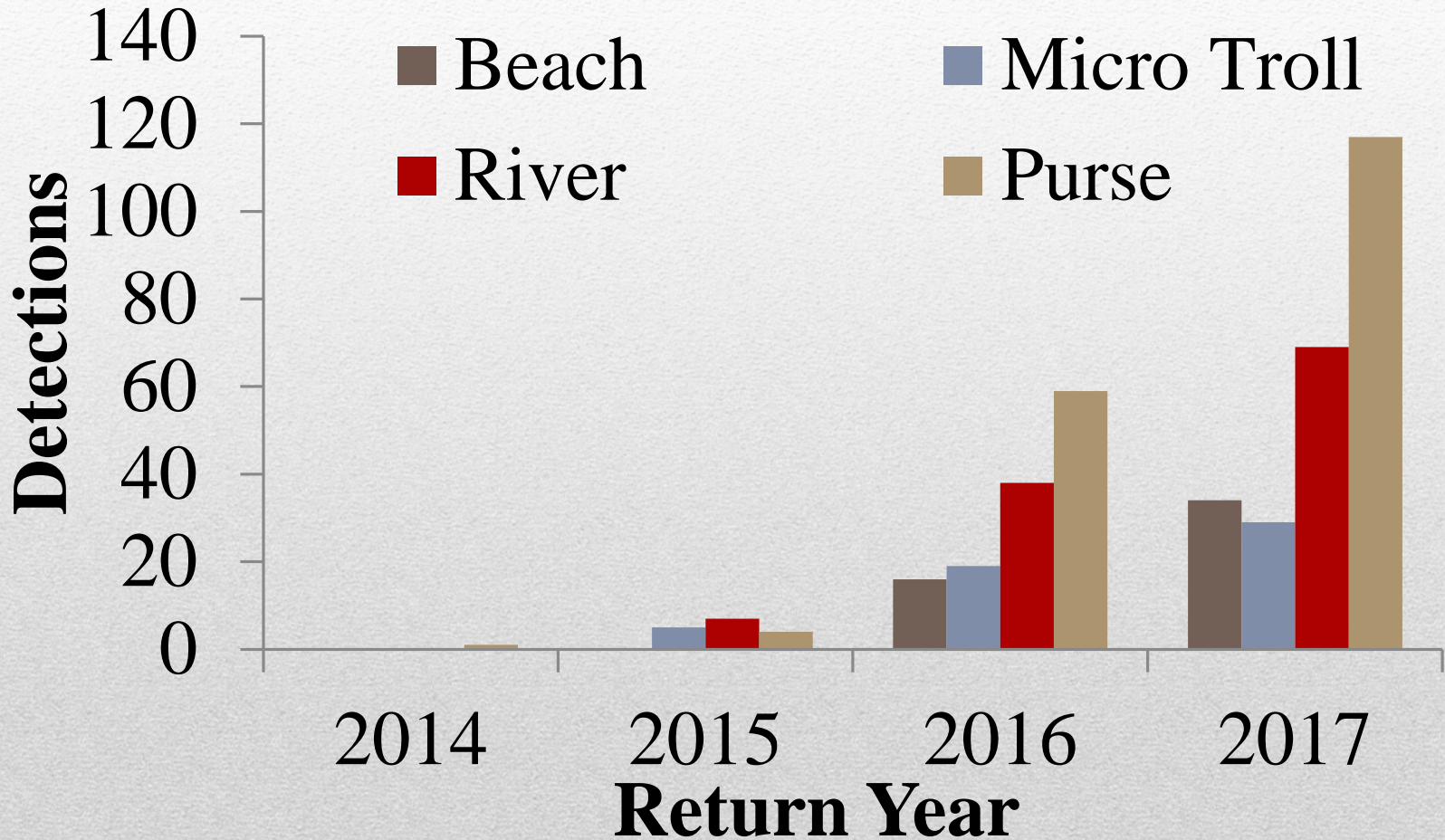
PIT Tag Detection Array



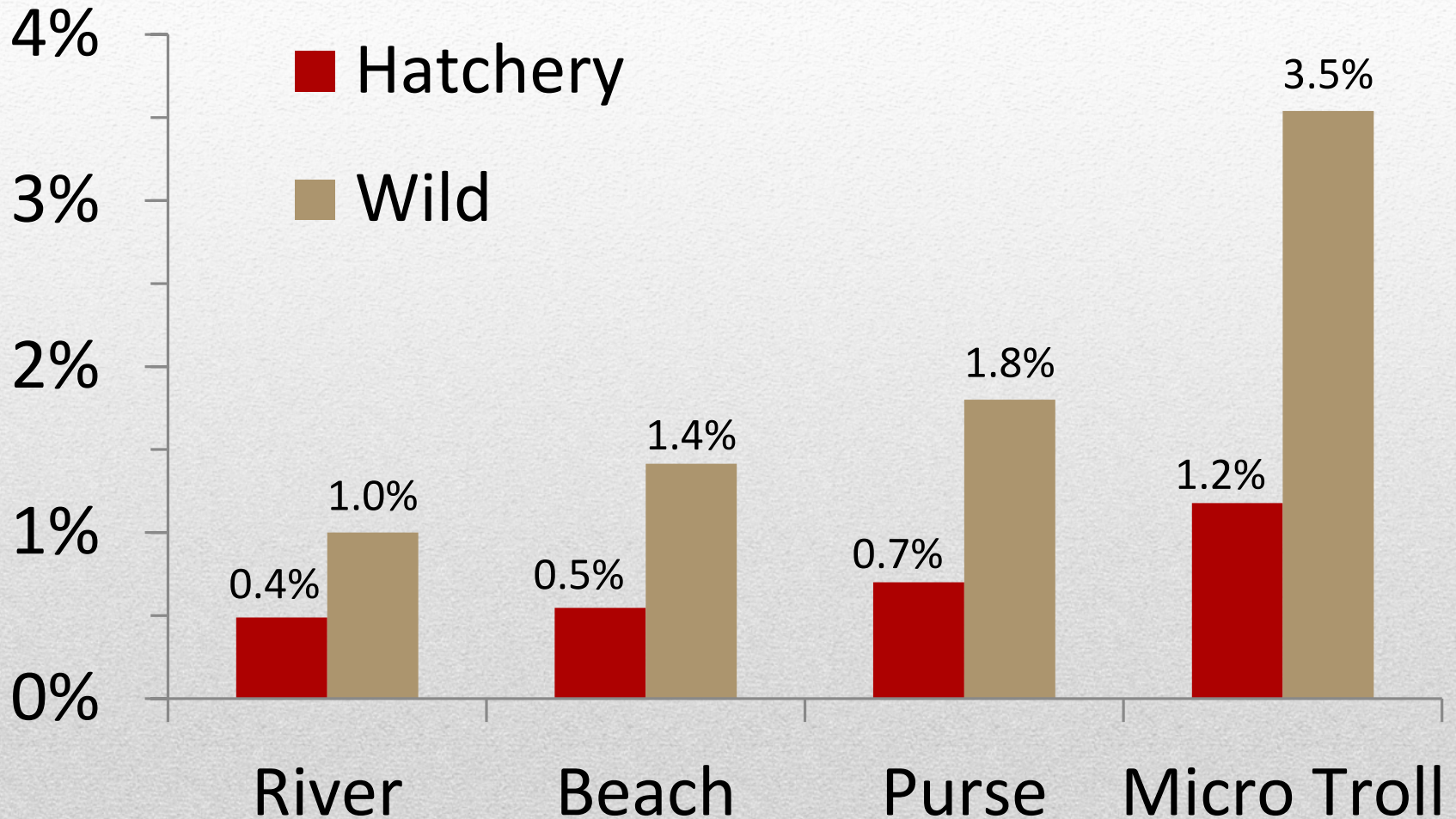
56,156 Tags Over 4 years



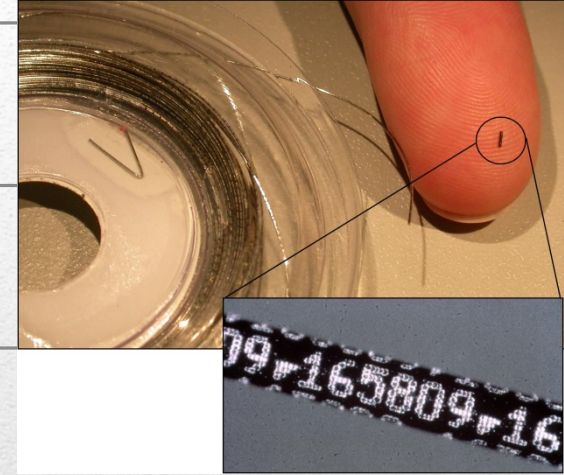
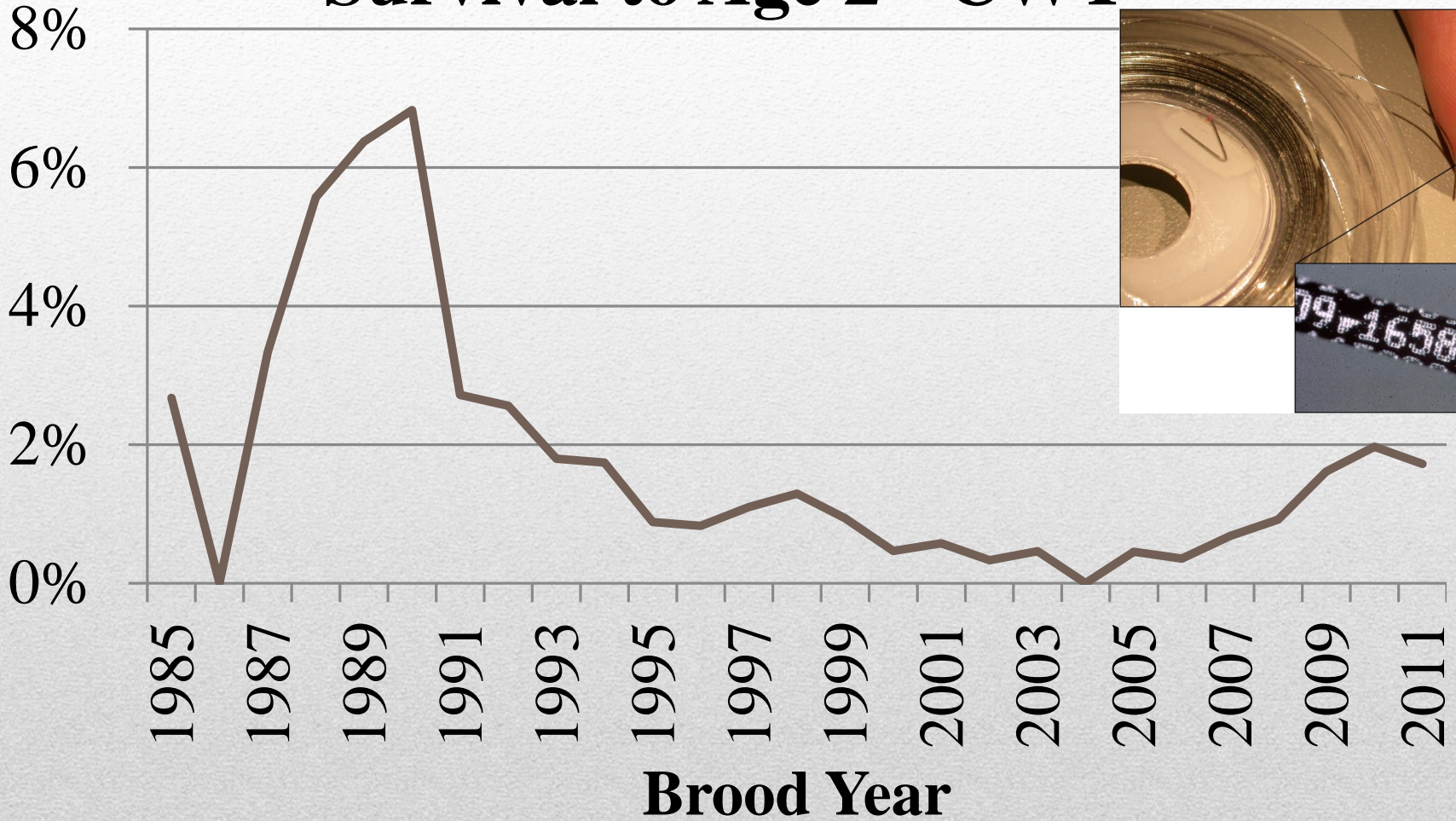
Tag Returns n= 398

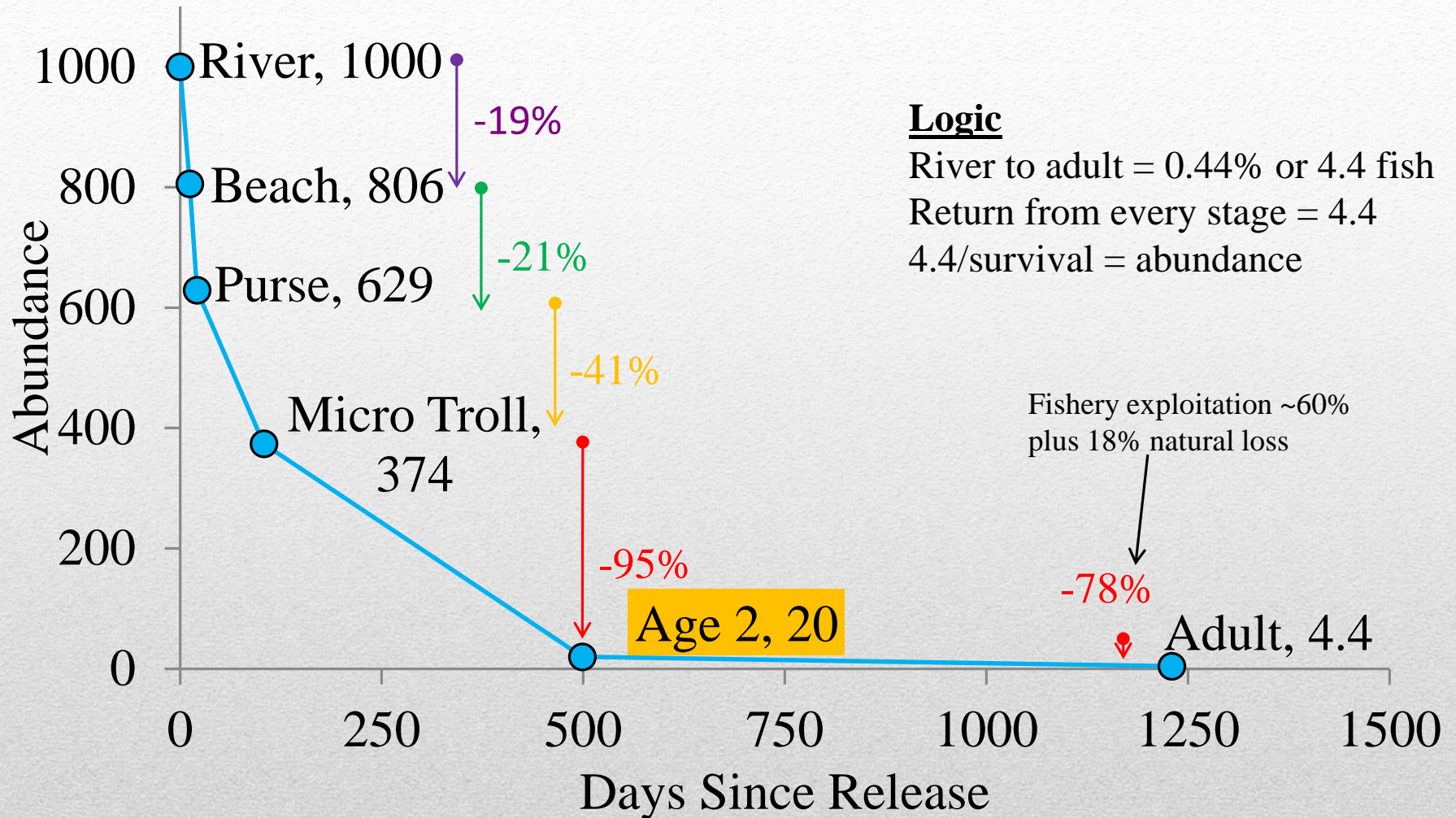


Survival to Return

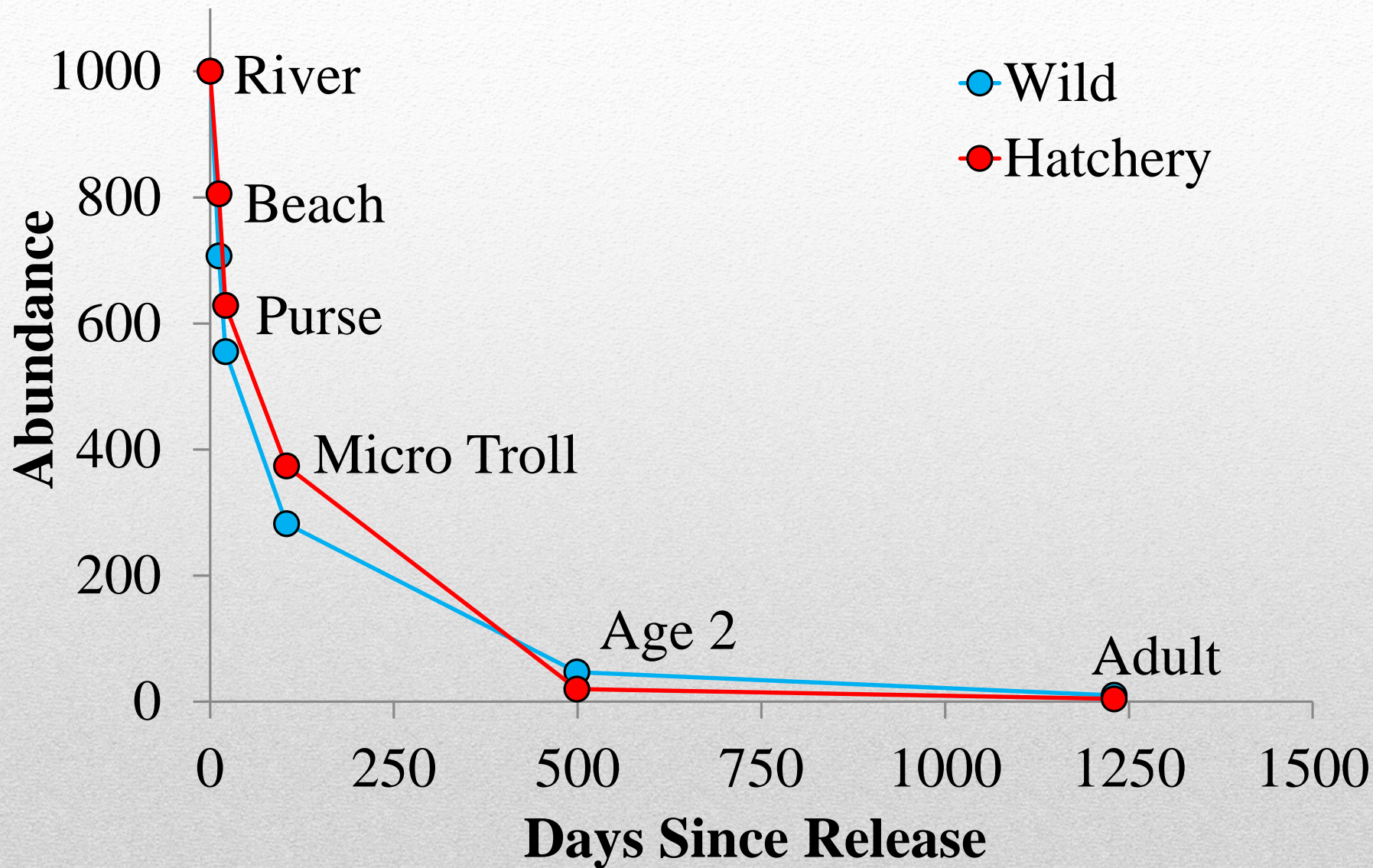


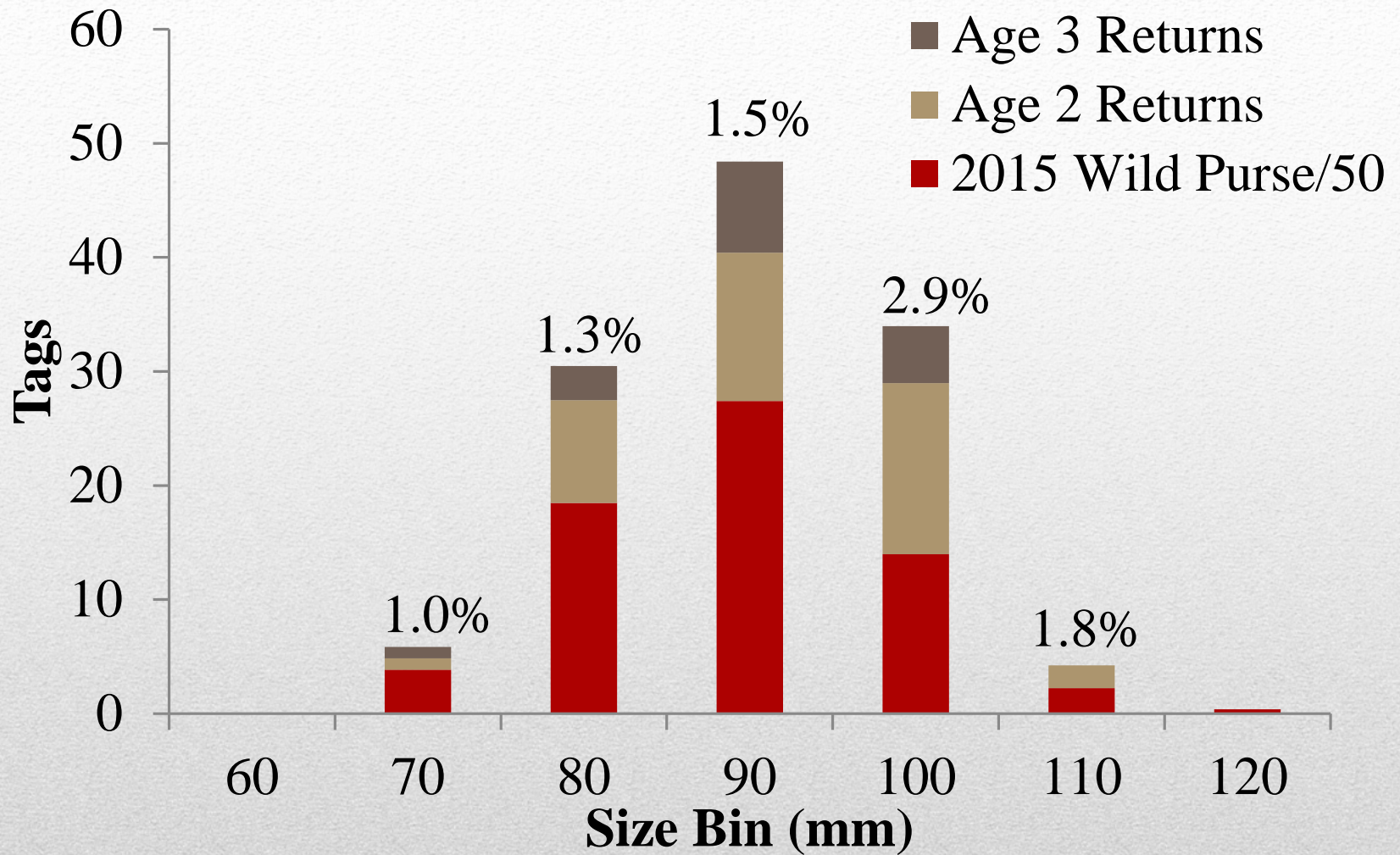
Cowichan Chinook Survival to Age 2 - CWT





"Decay" Curve – Hatchery





Survival by Size

- Significant returns expected in 2018 from large tagging effort in 2015 and 2016
- All 4 year old returns expected by 2020
- Cowichan population appears to be recovering with strong escapement in 2017 (~10,000 adults) up from 1,260 in 2009.
- Data analysis, reports, publications

Where to from here?



Questions?
