JUVENILE SPRING CHINOOK MIGRATION IN THE NORTH SANTIAM RIVER AND USE OF DETROIT RESERVOIR

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Objectives

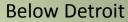
Evaluate migration timing and size of Chinook entering reservoir

Vertical distribution near the forebay
Chinook and rainbow trout

Migration timing and size of Chinook exiting reservoir

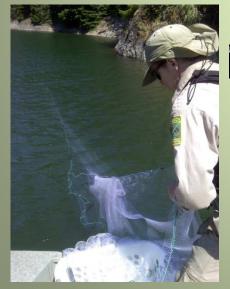
Methods

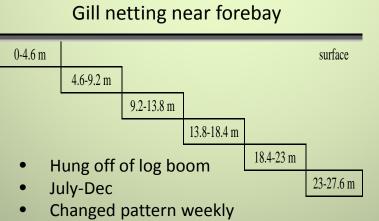
Above reservoir

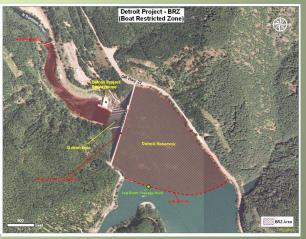




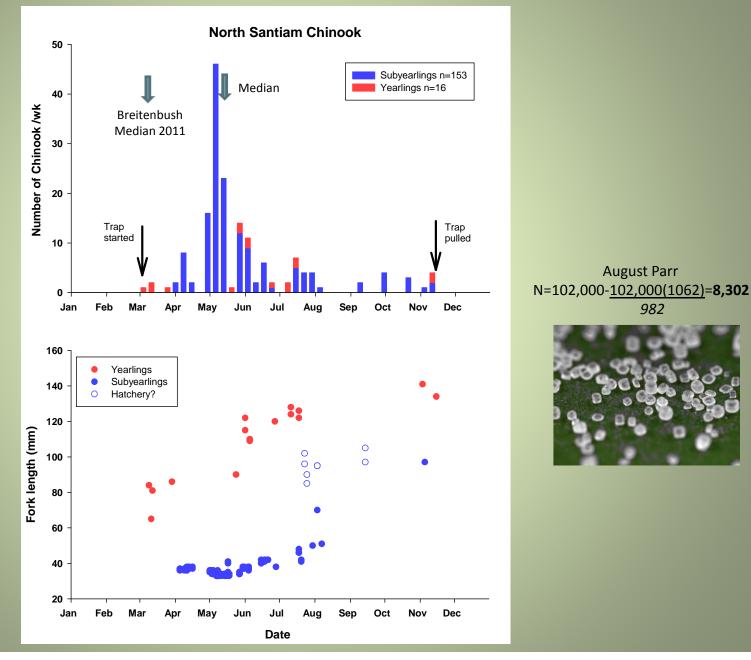




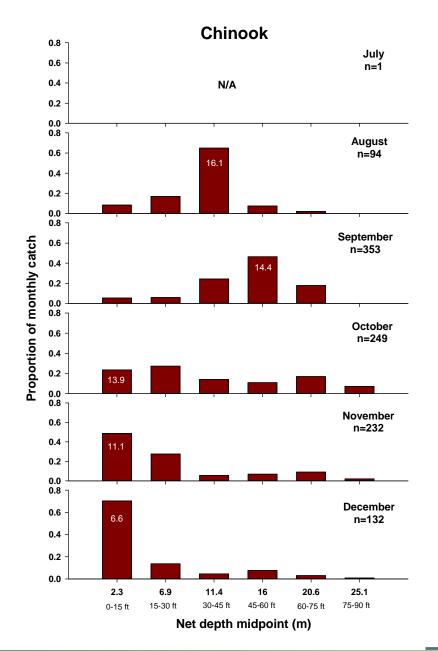


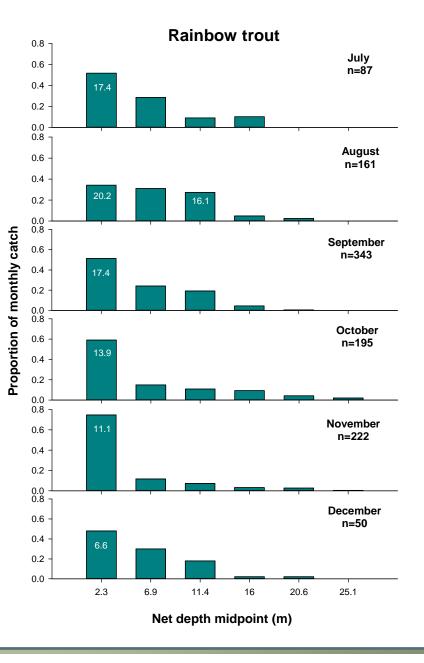


Migration Timing and Size of Chinook Entering Reservoir

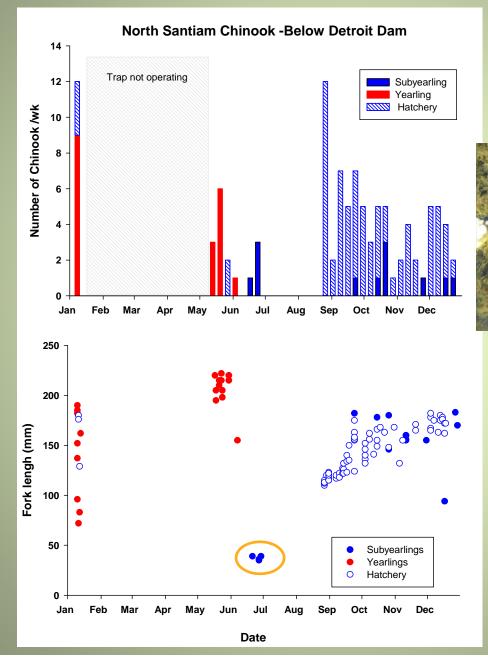


Vertical Distribution





Migration Timing of Chinook Exiting Detroit Reservoir





Conclusion

Juvenile Chinook enter Detroit Reservoir in mostly in spring as fry -Peak in mid-May similar to SF McKenzie -May be influenced by spawning in Horn Creek

Chinook descend into deeper water (~16 m or more) in summer and return to surface in fall

-Rainbow trout generally near surface year-round

Chinook exited Detroit beginning in summer and continue through following spring -evidence of land-locked Chinook spawning between Detroit and Big Cliff dams

Acknowledgments



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Randy Wildman



Jeff Ziller

<u>The 'Reservoir Dogs'</u> Khoury Hickman Chris Abbes Kris Clemons Greg Gilham Mario Minder Meghan Horne-Brine John Elliot Kevin Stertz