

Review of Changes to Survival Workshop V

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Motivation

- We would like to use the WRLCM to make short term forecasts
- Thus we want to improve the representation of the system dynamics
- And characterization of uncertainty
- Modifications to the survival components are an integral step to this process

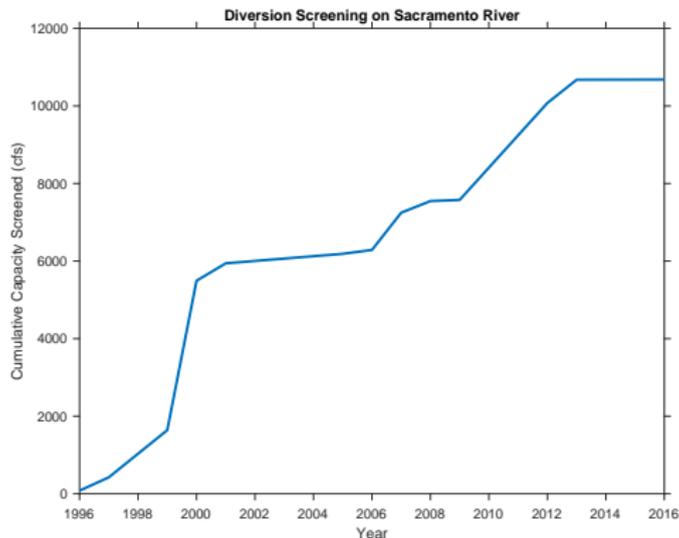


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Fry Survival

- Currently a single fry survival rate is estimated for all habitats
- **Change**
 - Fry survival rate is specific to each habitat
 - Fry survival in the Upper River is a function of screened diversion flow



Smolt Survival

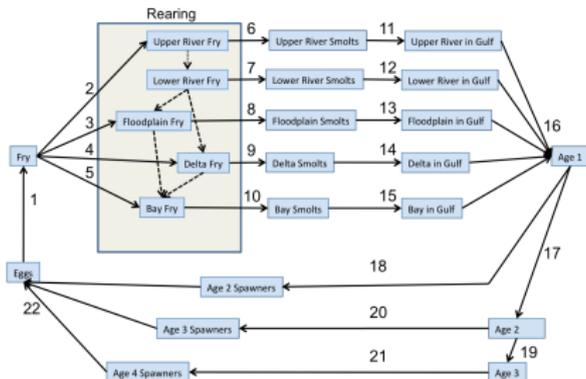
- Currently the ePTM mean monthly values are used for survival of outmigrating smolts from different habitats from pre CWF version of ePTM
- **Change**
 - Use more recent parameterization and validation of ePTM
 - Incorporate uncertainty from the ePTM output into the WRLCM, both for simulation and validation

Adult Survival

- - Currently we do not incorporate adult stranding as a mortality component in adult survival
- - Change
 - - Incorporate estimates of stranding

Role of restoration on survival

- Currently restoration is incorporated through increasing capacity in the WRLCM
- There is interest in modifying survival due to habitat restoration
- How?
 - Mechanisms by which restoration lead to survival are not well understood
 - Takata et al. results
 - If we want to incorporate this aspect, we have some work to do



Additional Questions?

Please contact me: noblehendrix@gmail.com