**Supplement S1. Prior Return on Investment Analyses for Salmon Conservation Planning**

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| Study | Approach |
| Ettinger et al. (2021) | Prioritized areas for conservation in the Puget Sound region of Washington, USA in order to reduce pre-spawn mortality in salmon caused by urban runoff. Used an urbanization index as a proxy for the effort required to attain or maintain water quality above the toxicity threshold in place of a monetary measure of costs. |
| Fullerton et al. (2010) | Employed scenario analysis to compare the ROI of habitat restoration planning approaches in the Lewis River basin, Washington, USA. |
| Halsing and Moore (2008) | Evaluated the cost effectiveness of several recovery actions, including transporting juveniles around dams, dam removal, harvest reduction, and predator management, for conserving endangered salmon in the Snake River basin, USA. |
| Newbold and Siikamäki (2009) | Spatially prioritized watershed restoration for recovery of endangered Upper Columbia River spring Chinook (*O. twshawytscha*) in Upper Columbia river sub-basin, Washington, USA. |
| Null and Lund (2012) | Developed an optimization model for selecting restoration interventions to maximize the out-migration of coho (*O. kisutch*) salmon smolts from the Shasta River in California, USA. |
| Ogston et al. (2015) | Used mark-recapture data to estimate the effect of habitat restoration on smolt production, and compare the ROI of producing smolts through restoration versus the ROI of hatchery production, in a British Columbia, Canada watershed. |
| O’hanley and Tomberlin (2005) | Developed an optimization framework for prioritizing removals of small fish passage barriers and applied the framework to removing culverts to expand salmon habitat in western Washington State, USA. |
| Paulsen and Wernstedt (1995) | Evaluated the relative ROI of combinations of habitat restoration, modifying hydroelectric dam operations, predator control and other interventions undertaken to recover multiple salmon stocks in the Columbia River Basin. |
| Speir et al. (2015) | Developed a real options approach for evaluating the optimal timing of large-scale habitat restoration actions in the presence of stochastic and irreversible ecological costs (e.g. species extinction) and operationalized the model in the context of dam removal for salmon recovery. |
| Watanabe et al. (2005) | Evaluated riparian restoration alternatives for reducing stream temperatures, a limiting factor for salmon in the Upper Grande Ronde River basin, Oregon, USA. |

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