

MARK HENRY SOREL

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EDUCATION

<i>School of Aquatic and Fishery Sciences, University of Washington</i> Doctoral Candidate	2018–present
<i>School of Aquatic and Fishery Sciences, University of Washington</i> Master of Science	2013–2015
<i>School of Aquatic and Fishery Sciences, University of Washington</i> Bachelor of Science Minor in Quantitative Science	2006–2011

PUBLICATIONS

- Sorel MH**, RW Zabel, DS Johnson, AM Wargo Rub, and SJ Converse. 2020. Estimating population-specific predation effects on Chinook salmon via data integration. *Journal of Applied Ecology*.
- Jorgenson J, A Murdoch, J Cram, **MH Sorel**, T Hillman, G Maier, C Paulson, T Cooney, R Zabel, and C Jordan. 2017. Wenatchee River spring-run Chinook salmon life-cycle model: hatchery effects, calibration, and sensitivity analyses. Chapter 9b *in* Life-cycle models of salmonid populations in the interior Columbia River basin. Report to the Independent Scientific Advisory Board.
- Bond M, T Nodine, **MH Sorel**, T Beechie, G Pess, J Myers, R Zabel. 2017. Estimates of UWR Chinook and Steelhead spawning and rearing capacity above and below Willamette Project (WP) Dams. Report for the U.S. Army Corps of Engineers Portland District. Northwest Fisheries Science Center, Seattle.
- Myers J, J Jorgensen, **MH Sorel**, and R Zabel. 2017. Upper Willamette River life cycle modeling and the potential effects of climate change. Report for the U.S. Army Corps of Engineers Portland District. Northwest Fisheries Science Center, Seattle.
- Sorel MH**, AG Hansen, KA Connelly and DA Beauchamp. 2016. Trophic feasibility of reintroducing anadromous salmonids in three reservoirs on the North Fork Lewis River, Washington: prey supply and consumption demand of resident fishes. *Transactions of the American Fisheries Society* 145: 1331–1347.
- Sorel MH**, AG Hansen, KA Connelly, AC Wilson, ED Lowery, and DA Beauchamp. 2016. Predation by northern pikeminnow and tiger muskellunge on juvenile salmonids in a high-head reservoir: implications for anadromous fish reintroductions. *Transactions of the American Fisheries Society* 145: 521–536.
- Sorel MH** 2015. Food-web implications of reintroducing anadromous salmonids in reservoirs on the North Fork Lewis River, Washington. M.S. thesis, University of Washington, Seattle.

Hovel RA, DA Beauchamp, AG Hansen and **MH Sorel**. 2015. Development of a bioenergetics model for the threespine stickleback. Transactions of the American Fisheries Society 144: 1311–1321.

SELECTED PRESENTATIONS

Sorel MH, AR Murdoch, RW Zabel, ER Buhle, and SJ Converse. 2019. Juvenile recruitment and life history expression in an endangered spring Chinook salmon population. American Fisheries Society Annual Meeting, 29 Nov–03 December; Reno, Nevada, USA.

Sorel MH, MW Rub, and RW Zabel. 2017. Population-specific migration timing affect en route survival of Chinook salmon *Oncorhynchus tshawytscha* through a variable lower-river corridor. Ecological Society of America Annual Meeting, 6–11 August; Portland, Oregon, USA.

Sorel MH, DA Beauchamp. 2015. Carrying capacity of reintroduced anadromous salmonids in reservoirs on the Lewis River, WA. American Fisheries Society Annual Meeting, 16–20 August; Portland, Oregon, USA.

RESEARCH EXPERIENCE & EMPLOYMENT

Research Assistant—*Converse Lab, University of Washington* 2018–Present
Developing an integrated population modeling framework to support management and recovery of Columbia River salmonids.

Fishery Ecologist II—*contracted to NOAA Northwest Fisheries Science Center* 2015–2018
Investigated relationships between ecological variables and demographic rates and developed life-cycle models to support salmonid recovery.

Research Assistant—*Beauchamp Lab, University of Washington* 2012–2015
Investigated reservoir food webs to assess feasibility of anadromous salmonid reintroductions above high-head dams.

Technician and Student—*Beauchamp Lab, University of Washington* 2010–2012
Evaluated juvenile salmonid abundance, distribution, and available prey resources.

HONORS

David Lamb Memorial Scholarship, Washington State Lake Protection Association 2014

LEADERSHIP AND OUTREACH

Secretary of the SAFS Equity and Inclusion Committee Present

Organizer of University of Washington Fish and Wildlife Ecology seminar series 2018–2019

Volunteer instructor at NOAA/Sea Grant Science Camp 2018