

Quarterly Journal Article search : April-June 2022
Columbia Basin Fish & Wildlife Library

Barrett, H. S., and J. B. Armstrong. 2022. Move, migrate, or tolerate: Quantifying three tactics for cold-water fish coping with warm summers in a large river. *Ecosphere* 13(6).

<https://doi.org/10.1002/ecs2.4095>

Species: Coastal cutthroat trout
Location(s): Willamette River
Other: Temperature

Chamberlin, J. W., J. Hall, Z. W. Todd, F. Leonetti, M. Rustay, and C. Rice. 2022. Spatial and temporal variability in chinook salmon abundance reflects opportunity to support life history diversity in an estuarine landscape. *Estuaries and Coasts* 45(3):882–896. <https://doi.org/10.1007/s12237-021-00994-3>

Species: Chinook salmon
Locations: Snohomish River delta
Other: Temperature, abundance, estuarine habitat

Counihan, T. D., K. L. Bouska, S. K. Brewer, R. B. Jacobson, A. F. Casper, C. G. Chapman, I. R. Waite, K. R. Sheehan, M. Pyron, E. R. Irwin, K. Riva-Murray, A. J. McKerrow, and J. M. Bayer. 2022. Identifying monitoring information needs that support the management of fish in large rivers. *PLoS One* 17(4).

<https://doi.org/10.1371/journal.pone.0267113>

Species: Multiple
Locations: Multiple
Other: Conceptual models, fishery management

Devlin, R. H., C. A. Biagi, D. Sakhrani, T. Fujimoto, R. A. Leggatt, J. L. Smith, and T. Y. Yesaki. 2022. An assessment of hybridization potential between Atlantic and Pacific salmon. *Canadian Journal of Fisheries and Aquatic Sciences* 79(4):670–676. <https://doi.org/10.1139/cjfas-2021-0083>

Species: Atlantic salmon, Pacific salmon
Location: n/a
Other: Hybridization, fitness

Doyle, E. G., J. E. Arterburn, and R. S. Klett. 2022. Integrating ecosystem models with long-term monitoring to support salmon recovery. *Fisheries* 47(4):169–179. <https://doi.org/10.1002/fsh.10721>

Species: Steelhead
Location: Okanogan River
Other: Ecosystem Diagnosis and Treatment model

Dunmall, K. M., D. G. McNicholl, C. E. Zimmerman, S. E. Gilk-Baumer, S. Burrell, and V. R. von Biela. 2022. First juvenile chum salmon confirms successful reproduction for Pacific salmon in the North American Arctic. *Canadian Journal of Fisheries and Aquatic Sciences* 79(5):703–707. <https://doi.org/10.1139/cjfas-2022-0006>

Species: Chum salmon
Location: Beaufort Sea, Alaska
Other: Geographic distribution

Ebel, J. D., D. A. Larsen, K. R. Conley, and M. A. Middleton. 2022. A fish out of basin: increased stress physiology and reduced performance of Salmon River hatchery chinook salmon. *North American Journal of Fisheries Management* 42(3):741–757. <https://doi.org/10.1002/nafm.10760>

Species: Chinook salmon (hatchery)

Location: Salmon River

Other: Hatchery releases, stress response

Galbreath, P. F., B. A. Staton, H. M. Nuetzel, C. A. Stockton, C. M. Knudsen, L. R. Medeiros, I. J. Koch, W. J. Bosch, and A. L. Pierce. 2022. Precocious maturation of hatchery-raised spring chinook salmon as age-2 minijacks is not detectably affected by sire age. *Transactions of the American Fisheries Society* 151(3):333–346. <https://doi.org/10.1002/tafs.10343>

Species: Chinook salmon (hatchery)

Location: Yakima River

Other: Maturation

Gosselin, J. L., J. J. Anderson, B. L. Sanderson, M. A. Middleton, B. P. Sandford, and L. A. Weitkamp. 2022. Assessing seasonal and biological indices of juvenile chinook salmon for freshwater decision triggers that increase ocean survival. *Freshwater Science* 41(2):253–269. <https://doi.org/10.1086/720007>

Species: Chinook salmon

Location: Columbia River basin

Other: Smolt-to-adult return survival

Hess, J. E., T. A. Delomas, A. D. Jackson, M. J. Kosinski, M. L. Moser, L. L. Porter, G. Silver, T. Sween, L. A. Weitkamp, and S. R. Narum. 2022. Pacific lamprey translocations to the Snake River boost abundance of all life stages. *Transactions of the American Fisheries Society* 151(3):263–296.

<https://doi.org/10.1002/tafs.10359>

Species: Pacific lamprey

Location: Snake River

Other: Translocation

Horn, R. L., M. Hess, S. Harmon, J. Hess, T. A. Delomas, M. R. Campbell, and S. Narum. 2022. Monitoring hatchery broodstock composition and genetic variation of spring/summer chinook salmon in the Columbia River basin with multigeneration pedigrees. *North American Journal of Fisheries Management* 42(2):307–333. <https://doi.org/10.1002/nafm.10753>

Species: Chinook salmon (hatchery)

Location: Columbia River basin

Other: Parentage-based tagging, genetic variation

Jensen, A. J., B. Cox, and J. T. Peterson. 2022. Evaluating tag-reliant harvest estimators in chinook salmon mixed-stock fisheries using simulations. *Canadian Journal of Fisheries and Aquatic Sciences* 79(6):979–993. <https://doi.org/10.1139/cjfas-2021-0197>

Species: Chinook salmon

Location: Columbia River

Other: Coded wire tag recovery, harvest estimation, Bayesian models

Koch, I. J., T. R. Seamons, P. F. Galbreath, H. M. Nuetzel, A. P. Matala, K. I. Warheit, D. E. Fast, M. V. Johnston, C. R. Strom, S. R. Narum, and W. J. Bosch. 2022. Effects of supplementation in upper Yakima

River chinook salmon. *Transactions of the American Fisheries Society* 151(3):373–388.

<https://doi.org/10.1002/tafs.10354>

Species: Chinook salmon

Location: Yakima River

Other: Reproductive success, hatchery-wild interactions

Kovach, R. P., R. F. Leary, D. A. Bell, S. Painter, A. Lodmell, and A. R. Whiteley. 2022. Genetic variation in westslope cutthroat trout reveals that widespread genetic rescue is warranted. *Canadian Journal of Fisheries and Aquatic Sciences* 79(6):936–946. <https://doi.org/10.1139/cjfas-2021-0102>

Species: Westslope cutthroat trout

Location: Columbia River and Missouri River basins, Montana

Other: Genetic rescue, habitat fragmentation

McClelland, E. K., B. Watson, L. F. Sundström, R. A. Leggatt, D. Sakhrani, and R. H. Devlin. 2022. Assessing wild genetic background and parental effects on size of growth hormone transgenic coho salmon. *Canadian Journal of Fisheries and Aquatic Sciences* 79(5):803–813. <https://doi.org/10.1139/cjfas-2021-0153>

Species: Coho salmon

Location: British Columbia

Other: Growth hormone transgenesis

Quinn, T. P., and J. P. Losee. 2022. Diverse and changing use of the Salish Sea by Pacific salmon, trout, and char. *Canadian Journal of Fisheries and Aquatic Sciences* 79(6):1003–1021.

<https://doi.org/10.1139/cjfas-2021-0162>

Species: Various salmonids

Location: Salish Sea

Other: Migration patterns

Reinhardt, L., T. Copeland, and M. Davison. 2022. Validation of scale-derived ages in wild juvenile and adult steelhead using parental-based tagging. *North American Journal of Fisheries Management* 42(2):260–269. <https://doi.org/10.1002/nafm.10737>

Species: Steelhead

Location: Snake River basin

Other: Age determination, parentage-based tagging

Rogers, M., J. Selker, J. Peterson, and I. Arismendi. 2022. Identifying and quantifying sources of temporal and spatial uncertainty in assessing salmonid responses to watershed-scale restoration: Research & Management. *River Research and Applications* 38(5):884–894. <https://doi.org/10.1002/rra.3956>

Species: Various salmonids

Location: Multiple (Pacific Northwest)

Other: Temporal and spatial uncertainty, habitat restoration effects

Steele, C. A., T. A. Delomas, M. R. Campbell, and J. H. Powell. 2022. Single-parentage assignments reveal negative-assortative mating in an endangered salmonid. *Ecology and Evolution* 12(4).

<https://doi.org/10.1002/ece3.8846>

Species: Sockeye Salmon

Location: Redfish Lake, Idaho

Other: Reproductive behavior, hatchery-wild interactions

Tonina, D., J. A. McKean, D. Isaak, R. M. Benjankar, C. Tang, and Q. Chen. 2022. Climate change shrinks and fragments salmon habitats in a snow-dependent region. *Geophysical Research Letters* 49(12). <https://doi.org/10.1029/2022GL098552>

Species: Chinook salmon

Location: Bear Valley Creek (tributary to Salmon River)

Other: Climate change, habitat fragmentation

Van Doornik, D. M., B. A. Berejikian, M. E. Moore, A. M. Claiborne, M. R. Downen, J. L. Waltermire, K. K. Doctor, and R. Endicott. 2022. The influences of pre- and post-smolt captive rearing environments on growth, maturation, body size, and reproductive success of steelhead (*Oncorhynchus mykiss*) released as adults. *Canadian Journal of Fisheries and Aquatic Sciences* 79(5):749–760.

<https://doi.org/10.1139/cjfas-2021-0028>

Species: Steelhead

Location: Skokomish River

Other: Hatchery culture, hatchery releases

Whitesel, T. A., P. W. DeHaan, J. Doyle, B. A. Adams, and P. M. Sankovich. 2022. Evaluating the success of a conservation reintroduction: The case of bull trout in the Wallowa River. *Conservation Science and Practice* 4(6). <https://doi.org/10.1111/csp2.12674>

Species: Bull Trout

Location: Wallowa River

Other: Genetic diversity, reintroduction