

Quarterly Journal Article search  
October-December 2023 Columbia Basin Fish & Wildlife Library

Askey, P. J., H. G. M. Ward, T. Weir, and K. King. 2023. Comparison of known spawner abundance from fence counts to visual counts for simplified spawner estimation methods. *Canadian Journal of Fisheries and Aquatic Sciences* 80(12):1935-1948. <https://doi.org/10.1139/cjfas-2023-0111>

Species: Kokanee salmon, pink salmon

Location: British Columbia

Other keywords: Counting methods, area under the curve

Atlas W. I., S. Ma, Y. C. Chou, K. Connors, D. Scurfield, B. Nam, X. Ma, M. Cleveland, J. Doire, J. W. Moore, R. Shea, and J. Liu. 2023. Wild salmon enumeration and monitoring using deep learning empowered detection and tracking. *Frontiers in Marine Science*. 10:1200408.

<https://doi.org/10.3389/fmars.2023.1200408>

Species: Pacific salmon

Location: Kitwanga and Bear Rivers, British Columbia

Other keywords: Computer vision models, off-grid monitoring systems

Auringer, G., M. A. Campbell, P. A. L. Goertler, and A. J. Finger. 2023. Lampreys in California (*Lampetra* spp. and *Entosphenus* spp.): Mitochondrial phylogenetic analysis reveals previously unrecognized lamprey diversity. *North American Journal of Fisheries Management*, 43(6):1511-1530.

<https://doi.org/10.1002/nafm.10959>

Species: Various lampreys

Location: Northern and central California

Other keywords: Phylogenetics, distribution

Baldock, J. R., R. K. Al-Chokhachy, M. R. Campbell, and A. Walters. 2023. Timing of reproduction underlies fitness tradeoffs for a salmonid fish. *Oikos* 2023(11):e10184.

<https://doi.org/10.1111/oik.10184>

Species: Yellowstone cutthroat trout

Location: Upper Snake River

Other keywords: Life history diversity, reproductive success

Bartholomew J. L., J. D. Alexander, J. Alvarez, S. D. Atkinson, M. Belchik, S. J. Bjork, J. S. Foott, A. Gonyaw, M. E. Hereford, R. A. Holt, B. McCovey, Jr., N. A. Som, T. Soto, A. Voss, T. H. Williams, T. G. Wise, and S. L. Hallett. 2023. Deconstructing dams and disease: predictions for salmon disease risk following Klamath River dam removals. *Frontiers in Ecology and Evolution* 11:1245967.

<https://doi.org/10.3389/fevo.2023.1245967>

Species: Various salmonids

Location: Elwha River, WA

Other Keywords: Ceratonova shasta

Benjamin, J. R., J. B. Dunham, K. J. Anlauf-Dunn, and E. Eliason. 2023. Climate vulnerability for a desert fish: integrating hydrologic exposures, adaptive capacity, and growth potential. *Canadian Journal of Fisheries and Aquatic Sciences* 80(11):1748-1758. <https://doi.org/10.1139/cjfas-2022-0280>

Species: Redband trout  
Location: Northern Great Basin, OR  
Other keywords: Thermal adaptation

Beulke, A. K., A. Abadía-Cardoso, D. E. Pearse, L. D. Goetz, N. F. Thompson, E. C. Anderson, and J. C. Garza. 2023. Distinct patterns of inheritance shape life-history traits in steelhead trout. *Molecular Ecology* 32(24):6896-6912. <https://doi.org/10.1111/mec.17182>

Species: Steelhead  
Location: Russian River, CA  
Other keywords: Pedigree analysis, heritability

Bhattarai, B., B. Hilliard, W. J. Reeder, R. Budwig, B. T. Martin, T. Xing, and D. Tonina. 2023. The role of riverine bed roughness, egg pocket location, and egg pocket permeability on salmonid redd-induced hyporheic flows. *Water Resources Research* 59(11). <https://doi.org/10.1029/2023WR035548>

Species: Salmonids  
Location: n/a  
Other Keywords: Redds, hydraulic conductivity

Blanchard, M. R., J. E. Harris, J. J. Skalicky, G. S. Silver, and J. C. Jolley. 2023. Patterns in distribution and density of larval lampreys in the main-stem Columbia River, Washington–Oregon. *North American Journal of Fisheries Management*, 43(6):1458-1474.

<https://doi.org/10.1002/nafm.10940>

Species: Pacific lamprey  
Location: Columbia River, OR and WA  
Other keywords: Landscape-level factors

Bourret, S.L., J. M. Janak, T. J. Linley, M. K. Nims, and G. A. McMichael. 2023. Inadvertent hatchery Rainbow Trout *Oncorhynchus mykiss* discovered in native Westslope Cutthroat Trout *Oncorhynchus clarkii lewisi* habitat: a cautionary tale. *Fisheries* 48(11):453-464. <https://doi.org/10.1002/fsh.10985>

Species: Westslope cutthroat trout, rainbow trout  
Location: Mill Creek, MT  
Other keywords: Otolith microstructure analysis, hybridization

Caldwell, J. M., S. M. Burdick, J. R. Krause, and A. C. Harris. 2023. Does release size into net-pens affect survival of captive reared juvenile endangered suckers in Upper Klamath Lake? *North American Journal of Fisheries Management* 43(5)1322–1336. <https://doi.org/10.1002/nafm.10933>

Species: Shortnose sucker, Lost River sucker  
Location: Upper Klamath Lake, OR  
Other keywords: Captive rearing

Chudnow, R., B. van Poorten, R. Pillipow, I. Spendlow, N. Gantner, and S. Hinch. 2023. Modelling migratory behaviour and habitat use of fish in a large, uninterrupted river network: a case study of a migratory salmonid. *Ecology of Freshwater Fish* 32:886-901. <https://doi.org/10.1111/eff.12730>

Species: Bull trout  
Location: Upper Fraser River basin, BC

Other keywords: Seasonal movement, spatial transitions

Clemens, B. J., T. A. Friesen, S. V. Gregory, and C. L. Zambory. 2023. The case for basinwide passage and habitat restoration for Pacific Lamprey in the Willamette River basin (Oregon, USA). *North American Journal of Fisheries Management*, 43(6):1567-1583. <https://doi.org/10.1002/nafm.10891>

Species: Pacific lamprey

Location: Willamette River basin

Other keywords: Passage improvements, population monitoring

Cordell, J. R., S. A. Kidd, J. D. Toft, A. B. Borde, V. I. Cullinan, J. Sagar, and C. A. Corbett. 2023. Ecological effects of reed canarygrass in the lower Columbia River. *Biological Invasions* 25:3485-3502.

<https://doi.org/10.1007/s10530-023-03119-y>

Species: Salmonids

Location: Lower Columbia River

Other keywords: Invasive plants, salmon prey

Coutant, C. C. 2023. Hydropower peaking and stalled salmon migration are linked by altered reservoir hydraulics: a multidisciplinary synthesis and hypothesis. *River Research and Applications* 39(8):1439-1456. <https://doi.org/10.1002/rra.4146>

Species: Chinook salmon

Location: Lower Snake River

Other keywords: Seiche hydraulics, delayed migration

Courter, I. I., T. Buehrens, M. Roes, T. E. Blackman, B. Briscoe, and S. Gibbs. 2023. Influence of angling methods and terminal tackle on survival of salmon and steelhead caught and released in the Cowlitz River, Washington. *Fisheries Research* 268:106848. <https://doi.org/10.1016/j.fishres.2023.106848>

Species: Various salmonids

Location: Cowlitz River, WA

Other keywords: Mark-selective fisheries

D'Agnese, E., D. Chase, and E. Andruszkiewicz-Allan. 2023. Isothermal recombinant polymerase amplification and CRISPR(Cas12a) assay detection of *Renibacterium salmoninarum* as an example for wildlife pathogen detection in environmental DNA samples. *Journal of Wildlife Diseases* 59(4):545-556.

<https://doi.org/10.7589/JWD-D-22-00128>

Species: Pacific salmon

Location: n/a

Other keywords: Bacterial kidney disease

Dangora, A. J., L. A. Eby, C. A. Barfoot, and A. R. Whiteley. 2023. Evaluating the effects of selective passage of migratory Westslope Cutthroat Trout on nonnative admixture. *Transactions of the American Fisheries Society*, 152(6):772-787. <https://doi.org/10.1002/tafs.10438>

Species: Westslope cutthroat trout, rainbow trout

Location: Jocko River, MT

Other keywords: Hybridization management

Eaton, K. R., K. A. Tardy, and R. M. Croy. 2023. Contemporary reproductive patterns of Snake River *Oncorhynchus nerka* in Pettit Lake. *Conservation Genetics*. <https://doi.org/10.1007/s10592-023-01585-4>

Species: Sockeye Salmon

Location: Snake River, Pettit Lake, ID

Other Keywords: Genetic stock identification, parentage-based tagging, reproductive behaviors

Ekström, A., B. Hendriks, J. C. Van Wert, M. J. Gilbert, A. P. Farrell, S. J. Cooke, D. A. Patterson, S. G. Hinch, and E. J. Eliason. 2023. Impairing cardiac oxygen supply in swimming coho salmon compromises their heart function and tolerance to acute warming. *Scientific Reports* 13:21204

<https://doi.org/10.1038/s41598-023-47713-5>

Species: Coho salmon

Location: n/a

Other Keywords: Water temperature, climate change effects, oxygen availability

Fitzgerald, K. A., J. R. Bellmore, J. B. Fellman, M. L. Cheng, C. E. Delbecq, and J. A. Falke. 2023. Stream hydrology and a pulse subsidy shape patterns of fish foraging. *Journal of Animal Ecology* 92(12):2386–2398. <https://doi.org/10.1111/1365-2656.14018>

Species: Pink salmon, Coho salmon, Dolly Varden trout

Location: Alaska

Other Keywords: Hydrologic variation, pulse subsidies

Frid, A., K. L. Wilson, J. Walkus, R. E. Forrest, and M. Reid. 2023. Re-imagining the precautionary approach to make collaborative fisheries management inclusive of Indigenous Knowledge Systems. *Fish and Fisheries* 24(6): 940-958. <https://doi.org/10.1111/faf.12778>

Species: Pacific salmon

Location: Northern Shelf Bioregion, BC

Other Keywords: Biological reference points, indigenous co-governance

Fritts, A. L., G. M. Temple, C. Lillquist, and D. Rawding. 2023. Postrelease mortality of spring Chinook Salmon from a mark-selective recreational fishery in the Yakima River, Washington. *North American Journal of Fisheries Management*, 43(6):1702-1712. <https://doi.org/10.1002/nafm.10947>

Species: Chinook salmon

Location: Yakima River, WA

Other keywords: Hooking mortality

Gerig, B. S., D. T. Chaloner, R. R. Rediske, G. Paterson, and G. A. Lamberti. 2023. Pacific salmon as vectors of environmental contaminants: an experimental test confirms synoptic surveys in natural streams. *Environmental Pollution* 336(1):122355. <https://doi.org/10.1016/j.envpol.2023.122355>

Species: Pacific salmon

Location: Hunt Creek, MI

Other keywords: Persistent organic pollutants, contaminant biotransport

Gross P. L., J. C. L. Gan, D. J. Scurfield, C. Frank, C. Frank, B. C. McLean, and J. W. Moore. 2023. Complex temperature mosaics across space and time in estuaries: implications for current and future nursery function for Pacific salmon. *Frontiers in Marine Science* 10:1278810.

<https://doi.org/10.3389/fmars.2023.1278810>

Species: Chinook salmon

Location: Vancouver Island, BC

Other keywords: Nursery habitat, temperature effects, climate change

Harnish, R. A., K. D. Ham, J. R. Skalski, R. L. Townsend, and R. A. Buchanan. 2023. Factors affecting powerhouse passage of spring migrant smolts at federally operated hydroelectric dams of the Snake and Columbia rivers. *Canadian Journal of Fisheries and Aquatic Sciences* 80(12):1949-1966.

<https://doi.org/10.1139/cjfas-2022-0217>

Species: Chinook salmon, steelhead

Location: Lower Snake and Columbia rivers

Other keywords: Hydroacoustic telemetry

Harris, J. E., T. L. Liedtke, J. J. Skalicky, and L. K. Weiland. 2023. Salvage using electrofishing methods caused minimal mortality of burrowed and emerged larval lampreys in dewatered habitats. *North American Journal of Fisheries Management*, 43(6),1553-1566. <https://doi.org/10.1002/nafm.10894>

Species: Pacific lamprey

Location: Yakima River, Green River

Other keywords: Salvage methods, dewatered habitats

Herron, C. L., K. M. Cogliati, J. A. Krajcik, D. L. G. Noakes, J. T. Peterson, and C. B. Schreck. 2023 Effects of rearing density and in-tank structure on the stress response in juvenile Chinook salmon (*Oncorhynchus tshawytscha*). *Aquaculture Reports* 33:101876. <https://doi.org/10.1016/j.aqrep.2023.101876>

Species: Chinook salmon

Location: n/a

Other keywords: Hatchery practices, cortisol

Hess, J. E., R. T. Lampman, A. D. Jackson, T. Sween, L. Jim, N. McClain, G. Silver, L. Porter, and S. R. Narum. 2023. The return of the adult Pacific Lamprey offspring from translocations to the Columbia River. *North American Journal of Fisheries Management*, 43(6),1531-1552.

<https://doi.org/10.1002/nafm.10922>

Species: Pacific lamprey

Location: Columbia River basin

Other keywords: Genetic analysis, natal homing

Jeanson, A. L., J. C. Madden, A. Ekström, A. J. Danylchuk, N. Young, A. Howarth, W. M. Twardek, R. G. Twibell, R. P. Root, K. C. Hanson, and S. J. Cooke. Bioenergetic consequences of repeated catch-and-release fisheries interactions on adult steelhead across a range of ecologically relevant water temperatures. *Comparative Biochemistry and Physiology Part A: Molecular & Integrative Physiology* 284:111469. <https://doi.org/10.1016/j.cbpa.2023.111469>

Species: Steelhead

Location: n/a

Other keywords: Repeated stressors, sex-specific differences

Jensen, A. J., R. P. Kelly, W. H. Satterthwaite, E. J. Ward, P. Moran, and A. O. Shelton. 2023. Modeling

ocean distributions and abundances of natural- and hatchery-origin Chinook salmon stocks with integrated genetic and tagging data. PeerJ 11:e16487. <https://doi.org/10.7717/peerj.16487>

Species: Chinook salmon

Location: Northeast Pacific Ocean

Other Keywords: Coded wire tags, genetic stock identification, population distribution

Jensen, B. L., R. C. Johnson, J. J. Duda, C. O. Ostberg, T. J. Code, J. H. Mclean, K. D. Stenberg, K. A. Larsen, M. S. Hoy, and D. A. Beauchamp. 2023. Growth performance of Rainbow Trout in reservoir tributaries and implications for steelhead growth potential above Skagit River dams. North American Journal of Fisheries Management 43(5)1427-1446. <https://doi.org/10.1002/nafm.10944>

Species: Steelhead, rainbow trout

Location: Skagit River basin, WA

Other keywords: Temperature effects, prey availability

Kennadie, R. S., and M. R. Baker. 2023. Influence of marine habitat on microplastic prevalence in forage fish and salmon in the Salish Sea. Marine Pollution Bulletin 197:115748.

<https://doi.org/10.1016/j.marpolbul.2023.115748>

Species: Pacific salmon, Pacific sand lance

Location: Salish Sea

Other keywords: Biomagnification

Ketchum, D., Z. H. Hoylman, J. Huntington, D. Brinkerhoff, and K. G. Jencso. 2023. Irrigation intensification impacts sustainability of streamflow in the Western United States. Communications Earth & Environment 4:479. <https://doi.org/10.1038/s43247-023-01152-2>

Species: n/a

Location: Columbia, Colorado, Upper Missouri rivers

Other Keywords: Streamflow, land use effects, agriculture effects

Khorsandi, M., A. St-Hilaire, R. Arsenault, J.-L. Martel, S. Larabi, M. Schnorbus, and F. Zwiers. 2023. Future flow and water temperature scenarios in an impounded drainage basin: implications for summer flow and temperature management downstream of the dam. Climatic Change 176:164.

<https://doi.org/10.1007/s10584-023-03634-w>

Species: Sockeye salmon

Location: Nechako River, BC

Other Keywords: Thermal regimes, climate change effects, flow management

Larabi, S., M. A. Schnorbus, and F. Zwiers. 2023. Diagnosing the ability of reservoir operations to meet hydropower production and fisheries needs under climate change in a Western Cordillera drainage basin. Climatic Change 176:161. <https://doi.org/10.1007/s10584-023-03632-y>

Species: Sockeye salmon

Location: Nechako River, BC

Other Keywords: Water temperature, climate change effects, flow management

Ledger, K. J., Y. Su, J. Y. Jeon, A. H. Fullerton, D. Kuligowski, T. Bennett, K. Denton, M. McHenry, J. H. McMillan, J. H. Anderson, H. Connor, T. R. Seamons, G. Pess, K. M. Nichols, G. McKinney, T. Seaborn, and

A. K. Fraik. 2023. Using riverscape genetics to investigate the genetic response of two species and their life-history forms to dam removal. *Frontiers in Ecology and Evolution* 11:1225229.

<https://doi.org/10.3389/fevo.2023.1225229>

Species: Chinook salmon, steelhead

Location: Elwha River, WA

Other keywords: Return-timing, landscape genetics

Liedtke, T. L., J. E. Harris, M. R. Blanchard, J. Skalicky, and A. B. Grote. 2023. Synthesis of larval lamprey responses to dewatering: State of the science, critical uncertainties, and management implications.

*North American Journal of Fisheries Management*, 43(6):1475-1491.

<https://doi.org/10.1002/nafm.10924>

Species: Pacific lamprey

Location: n/a

Other keywords: Burrowing behavior

Li, P., D. Z. Zhu, J. Crossman, and X. Cheng. 2023. Spillway deflector designs for mitigating supersaturated total dissolved gases. *Journal of Cleaner Production* 426(10):139027.

<https://doi.org/10.1016/j.jclepro.2023.139027>

Species: n/a

Location: Hugh Keenleyside Dam (Columbia River), BC

Other keywords: Energy dissipation, air entrainment

Liermann M. C., A. H. Fullerton, G. R. Pess, J. H. Anderson, S. A. Morley, M. L. McHenry, M. N. Taylor, J. Stapleton, M. Elofson, R. E. McCoy, and T. R. Bennett. 2023. Modeling timing and size of juvenile Chinook salmon out-migrants at three Elwha River rotary screw traps: a window into early life history post dam removal. *Frontiers in Ecology and Evolution* 11:1240987.

<https://doi.org/10.3389/fevo.2023.1240987>

Species: Chinook salmon

Location: Elwha River, WA

Other keywords: Life history diversity, growth models, incubation models

Litts, R., B. J. Clemens, G. Vonderohe, and J. Schaefer. 2023. Backpack electrofishing can be used to collect adult lamprey. *North American Journal of Fisheries Management*, 43(6):1623-1630.

<https://doi.org/10.1002/nafm.10900>

Species: Pacific lamprey

Location: Eel Creek, OR

Other keywords: Collection methods, electrofishing effects

Losee, J. P., D. Palm, A. Claiborne, G. Madel, L. Persson, T. P. Quinn, T. Brodin, and G. Hellström. 2023. Anadromous trout from opposite sides of the globe: biology, ocean ecology, and management of anadromous brown and cutthroat trout. *Reviews in Fish Biology and Fisheries*.

<https://doi.org/10.1007/s11160-023-09824-0>

Species: Brown trout, cutthroat trout

Location: n/a

Other Keywords: Comparative biology, comparative ecology, fishery management

Maine, A. N., M. L. Moser, A. D. Jackson, and F. Wilhelm. 2023. Probiotics improve survival and growth of larval Pacific Lamprey in laboratory culture. *North American Journal of Fisheries Management*, 43(6):1648-1663. <https://doi.org/10.1002/nafm.10923>

Species: Pacific lamprey

Location: n/a (laboratory study)

Other keywords: Density- dependent growth

May, S. A., K. R. Shedd, P. S. Rand, and P. A. Westley. 2023. Tidal gradients, fine-scale homing and a potential cryptic ecotype of wild spawning pink salmon *Oncorhynchus gorbuscha*. *Molecular Ecology* 32(21):5838–5848. <https://doi.org/10.1111/mec.17154>

Species: Pink Salmon

Location: Prince William Sound, AK

Other Keywords: Spawning behavior, site fidelity

McCormick, J. L., and J. W. Heckel IV. 2023. Using state-space models to estimate recreational angling effort and infer processes that regulate angler dynamics. *Transactions of the American Fisheries Society* 152(6):738-748. <https://doi.org/10.1002/tafs.10432>

Species: n/a

Location: Henrys Fork and South Fork Snake rivers, ID

Other keywords: Creel surveys

McIntyre, J. K., J. Spromberg, J. Cameron, J. P. Incardona, J. W. Davis, and N. L. Scholz. 2023. Bioretention filtration prevents acute mortality and reduces chronic toxicity for early life stage coho salmon (*Oncorhynchus kisutch*) episodically exposed to urban stormwater runoff. *Science of The Total Environment* 902(1):165759. <https://doi.org/10.1016/j.scitotenv.2023.165759>

Species: Coho salmon

Location: n/a

Other keywords: 6PPD-quinone, stormwater infrastructure

Miller, H. R., C. T. Driscoll, and E.-L. S. Hinckley. 2023. Mercury cycling in the U.S. Rocky Mountains: a review of past research and future priorities. *Biogeochemistry*. <https://doi.org/10.1007/s10533-023-01108-w>

Species: n/a

Location: U.S. Rocky Mountain region

Other Keywords: Mercury, water pollution, climate change effects

Morrisett, C. N., R. W. Van Kirk, and S. E. Null. 2023. Assessing downstream aquatic habitat availability relative to headwater reservoir management in the Henrys Fork Snake River. *River Research and Applications* 39(9):1749-1762. <https://doi.org/10.1002/rra.4175>

Species: Brown trout, rainbow trout, mountain whitefish

Location: Henrys Fork Snake River, ID

Other keywords: Environmental flow targets

Moser, M., A. Maine, T. Shonat, and A. Jackson. 2023. Oxygen consumption of sexually mature adult, first-feeding larval, and yearling Pacific Lampreys. *North American Journal of Fisheries Management*,



43(6):1664-1672. <https://doi.org/10.1002/nafm.10938>

Species: Pacific lamprey  
Location: n/a (laboratory study)  
Other keywords: Oxygen requirements

Oyinlola, M. A. M. Khorsandi, R. Penman, M. L. Earhart, R. Arsenault, C. J. Brauner, and A. St-Hilaire. 2023. Hydrothermal impacts of water release on early life stages of white sturgeon in the Nechako River, B. C. Canada. *Journal of Thermal Biology* 117: 103682. <https://doi.org/10.1016/j.jtherbio.2023.103682>

Species: White sturgeon  
Location: Nechako River, BC  
Other keywords: Thermal tolerance

Pelekai, K. N., J. E. Hess, L. A. Weitkamp, R. T. Lampman, and J. A. Miller. 2023. Evaluation of Pacific Lamprey statoliths for age estimation across their life cycle. *North American Journal of Fisheries Management*, 43(6):16101622. <https://doi.org/10.1002/nafm.10920>

Species: Pacific lamprey  
Location: Columbia River basin  
Other keywords: Age validation

Philipp, M. A., K. S. Peiman, G. T. Crossin, S. G. Hinch, D. A. Patterson, C. K. Elvidge, and S. J. Cooke. 2023. Using repeat injury assessments in adult sockeye salmon (*Oncorhynchus nerka*) to predict spawning success and describe severity of migration conditions. *Fisheries Research* 266:106797.

<https://doi.org/10.1016/j.fishres.2023.106797>

Species: Sockeye salmon  
Location: Fraser River, BC  
Other keywords: Injury score

Rogers, K. B., and B. W. Hodge. 2023. An inexpensive method for reliable recovery of stream temperature data. *North American Journal of Fisheries Management* 43(5):1349–1358.

<https://doi.org/10.1002/nafm.10930>

Species: n/a  
Location: Colorado  
Other keywords: Data logger recovery, metal detectors

Rossi, G. J., M. Obedzinski, S. Pneh, S. Pierce, W. T. Boucher, W. M. Slaughter, K. Flynn, and T. E. Grantham. Flow augmentation from off-channel storage improves salmonid habitat and survival. *North American Journal of Fisheries Management*, 43(6):1772-1788. <https://doi.org/10.1002/nafm.10954>

Species: Steelhead and coho salmon  
Location: Russian River Watershed, CA  
Other keywords: Small-scale flow augmentation

Routledge, R., and A. Morton. 2023. Effect of government removal of salmon farms on sea lice infection of juvenile wild salmon in the Discovery Islands. *Canadian Journal of Fisheries and Aquatic Sciences* 80(12):1984-1989. <https://doi.org/10.1139/cjfas-2023-0039>

Species: Pink and chum salmon

Location: Discovery Islands, BC  
Other keywords: Aquaculture effects

Sabal, M. C., K. Richerson, P. Moran, T. Levi, V. J. Tuttle, V. J. and M. Banks. 2023. Warm oceans exacerbate Chinook salmon bycatch in the Pacific hake fishery driven by thermal and diel depth-use behaviours. *Fish and Fisheries* 24(6):910–923. <https://doi.org/10.1111/faf.12775>

Species: Chinook salmon  
Location: Washington and Oregon coasts  
Other keywords: Diel vertical migration, climate change, bycatch management

Säterberg, T., P. Jacobson, M. Ovegård, J. Rask, J. Östergren, N. Jepsen, and A. Florin. 2023. Species- and origin-specific susceptibility to bird predation among juvenile salmonids. *Ecosphere* 14(12):e4724. <https://doi.org/10.1002/ecs2.4724>

Species: Salmonids  
Location: Sweden  
Other Keywords: Hatchery and wild stock comparisons, avian predation

Sawyer, A. C., W. I. Atlas, K. M. Seitz, S. M. Wilson, and J. W. Moore. 2023. State-dependent estuary stopover boosts juvenile salmon growth: implications for marine survival. *Ecosphere* 14(12): e4689. <https://doi.org/10.1002/ecs2.4689>

Species: Pacific salmon  
Location: Koeye River estuary, BC  
Other Keywords: Migration, estuary stopover

Scott, M. H., S. A. Talke, D. A. Jay, and H. L. Diefenderfer. 2023. Warming of the lower Columbia River, 1853 to 2018. *River Research and Applications* 39(9):1828–1845. <https://doi.org/10.1002/rra.4177>

Species: n/a  
Location: Columbia River  
Other Keywords: Water temperature, regression analysis, climate change effects

Shuter, B. J., S. W. Milne, L. E. Hrenchuk, D. T. deKerckhove, and M. D. Rennie. 2023. Integrating hydroacoustic and telemetric surveys to estimate fish abundance: a new approach to an old problem. *Canadian Journal of Fisheries and Aquatic Sciences* 80(10):1562-1578. <https://doi.org/10.1139/cjfas-2022-0183>

Species: Lake trout  
Location: n/a  
Other keywords: Hydroacoustic transponder tag system, multibeam sonar

Sinnatamby, R. N., A. Cantin, A. J. Paul, J. Earle, and J. R. Post. 2023. No evidence of sustained recovery of native trout in response to angling suppression of invasive Brook Trout. *North American Journal of Fisheries Management* 43(5):1294-1309. <https://doi.org/10.1002/nafm.10898>

Species: Brook trout, westslope cutthroat trout, brook trout  
Location: Quirk Creek, AB  
Other keywords: Non-native species removal

Smith, C. D., S. E. Payne, J. L. Morace, E. B. Nilsen. Organohalogenated contaminants in multiple life stages of the Pacific lamprey (*Entosphenus tridentatus*), Oregon, USA. Environmental Pollution 335:122363. <https://doi.org/10.1016/j.envpol.2023.122363>

Species: Pacific lamprey

Location: OR and WA coasts

Other keywords: Persistent organic pollutants, contaminant concentrations

Swain-Menzel, H. N., E. J. Billman. 2023. Low-level infection of parasitic copepods on Rainbow Trout does not affect vulnerability to angling or short-term survival following catch-and-release angling. North American Journal of Fisheries Management, 43(6),17891798. <https://doi.org/10.1002/nafm.10957>

Species: Rainbow trout

Location: Birch Creek, Idaho

Other keywords: Gill lice

Thomas, Z. R., D. A. Beauchamp, C. P. Clark, and T. P. Quinn. 2023. Seasonal shifts in diel vertical migrations by lake-dwelling coastal cutthroat trout, *Oncorhynchus clarkii clarkii*, reflect thermal regimes and prey distributions. Ecology of Freshwater Fish 32(4):842-851. <https://doi.org/10.1111/eff.12725>

Species: Coastal cutthroat trout

Location: Lake Washington, WA

Other keywords: Vertical distribution

Vasquez Caballero, S., G. Sylvia, and D. S. Holland. 2023. Fishery participation and location choice model: the West Coast salmon troll commercial fishery. Canadian Journal of Fisheries and Aquatic Sciences 80(11):1770-1784. <https://doi.org/10.1139/cjfas-2023-0001>

Species: Pacific salmon

Location: West Coast of North America

Other keywords: Random utility maximization models

Voss, N. S., B. J. Bowersox, and M. C. Quist. 2023. Reach-scale associations between introduced Brook Trout and juvenile and stream-resident Bull Trout in Idaho. Transactions of the American Fisheries Society 152(6):835-848. <https://doi.org/10.1002/tafs.10443>

Species: Brook trout, bull trout

Location: Idaho

Other keywords: Biotic interactions, non-native species impacts

Weitkamp, L. A., V. Tuttle, E. J. Ward, D. Kamikawa, A. Billings, J. Buchanan, and J. E. Hess. 2023. Pacific Lamprey and Western River Lamprey marine ecology: Insight from new ocean collections. North American Journal of Fisheries Management, 43(6):1492-1510. <https://doi.org/10.1002/nafm.10936>

Species: Pacific lamprey and western river lamprey

Location: West Coast of North America

Other keywords: Distribution, adult abundances

Willacker, J. J., C. A. Eagles-Smith, J. A. Chandler, J. Naymik, R. Myers, and D. P. Krabbenhoft. 2023. Reservoir stratification modulates the influence of impoundments on fish mercury concentrations along an arid land river system. Environmental Science & Technology 57(50):21313–21326.

<https://doi.org/10.1021/acs.est.3c04646>

Species: Smallmouth bass

Location: Snake River

Other keywords: Anoxia, bioaccumulation

Zendt, J. S., M. B. Allen, T. J. Kock, R. W. Perry, and A. Pope. 2023. Spatial and temporal overlap between hatchery- and natural-origin steelhead and Chinook Salmon during spawning in the Klickitat River, Washington, USA. *North American Journal of Fisheries Management*, 43(6):1687-1701.

<https://doi.org/10.1002/nafm.10945>

Species: Steelhead, Chinook salmon

Location: Klickitat River, WA

Other keywords: Hatchery/wild interactions