

CPW Aquatic Research Publications, Reports, and Presentations 2019-2020

Publications

- Bailey, L. L., P. Jones, **K. G. Thompson**, H. P. Foutz, J. M. Logan, F. B. Wright, and H. J. Crockett. 2019. Determining presence of rare amphibian species: testing and combining novel survey methods. *Journal of Herpetology* 53:115-124.
- Budy, P., **K. B. Rogers**, Y. Kanno, B. Penaluna, N. P. Hitt, G. P. Thiede, J. Dunham, C. Mellison, W. L. Somer. 2019. Distribution and status of trouts and chars in North America. Pages 193-250 in J. L. Kershner, J. E. Williams, R. E. Gresswell, and J. Lobon-Cervia, editors. *Trout and char of the world*. American Fisheries Society, Bethesda, Maryland.
- **Fetherman, E. R., P. Cadmus**, A. L. Jefferson, and M. K. Hura. 2019. Increasing copper concentrations do not affect *Myxobolus cerebralis* triactinomyxon viability. *Journal of Fish Diseases* 42:1327-1331. doi: 10.1111/jfd13048.
- **Cadmus, P.**, C. J. Kotalik, A. L. Jefferson, S. H. Wheeler, A. E. McMahon, W. H. Clements. 2020. Size-dependent sensitivity of aquatic insects to metals. *Environmental Science & Technology*. 54:955-964. doi: 10.1021/acs.est.9b04089
- Clements, W. H., **P. Cadmus**, C. J. Kotalik, B. A. Wolff. 2019. Context-Dependent Responses of Aquatic Insects to Metals and Metal Mixtures: A Quantitative Analysis Summarizing 24 Yr of Stream Mesocosm Experiments. *Environmental Toxicology and Chemistry*. 38:2486-2496 doi:10.1002/etc.4568
- **Hansen, A. G.** 2019. Size-dependent retention of pelagic-oriented kokanee in multimesh gill nets. *North American Journal of Fisheries Management* 39:921-932.
- Hooley-Underwood, Z. E., S. B. Stevens, N. R. Salinas, and **K. G. Thompson**. 2019. An intermittent stream supports extensive spawning of large-river native fishes. *Transactions of the American Fisheries Society* 148:426-441.
- Fraser, G. S., K. R. Bestgen, D. L. Winkelman, and **K. G. Thompson**. 2019. Temperature - not flow - predicts native fish reproduction with implications for climate change. *Transactions of the American Fisheries Society* 148:509-527. Featured Paper in TAFS.
- Kotalik, C. J., **P. Cadmus**, W. H. Clements. 2019. Indirect Effects of Iron Oxide on Stream Benthic Communities: Capturing Ecological Complexity with Controlled Mesocosm Experiments. *Environmental Science & Technology*. 53:11532-11540. doi:10.1021/acs.est.9b04236
- **Richer, E. E.**, E. A. Gates, **M. C. Kondratieff**, and A. T. Herdrich. 2019. Modelling changes in trout habitat following stream restoration. *River Research and Applications* 35:680-691.

- Schwemm, M. R., **K. G. Thompson**, E. W. Carson, M. J. Osborne, and T. F. Turner. 2020. Challenges with use of instream exclusion devices to limit hybridization and favor native fish reproduction. *Western North American Naturalist* 80:81-89.
- Zeigler, M. P., **K. B. Rogers**, J. J. Roberts, A. S. Todd, and K. D. Fausch. 2019. Predicting persistence of Rio Grande Cutthroat Trout populations in an uncertain future. *North American Journal of Fisheries Management* 39:819-848. Featured Paper in NAJFM.

Publications *In Press* or *In Review*

- Carson, E. W., M. R. Schwemm, **K. G. Thompson**, **K. B. Rogers**, J. M. Logan, J. Wood, J. K. Epp, P. Power, M. J. Osborne, and T. F. Turner. *In review*. Distribution of genetic variation and hybrids of *Catostomus* fishes among sub-basins of the Colorado River. *Transactions of the American Fisheries Society*.
- **Fetherman, E. R.**, **B. Neuschwanger**, **T. Davis**, C. L. Wells, and A. Kraft. *In review*. Use of Erymicin 200 injections for reducing *Renibacterium salmoninarum* in a Rainbow Trout brood stock. *Diseases of Aquatic Organisms*.
- Happel, A., **E. R. Fetherman**, **B. Neuschwanger**, **T. Davis**, and D. Karr. *In review*. Switching to a higher-cost commercial feed enhances growth but not reproductive success of rainbow trout. *Aquaculture Research*.
- Heinold, B. D., **D. A. Kowalski**, and R. B. Nehring. *In Press*. Estimating densities of larval Salmonflies (*Pteronarcys californica*) through multiple pass removal of post-emergent exuvia in Colorado rivers. *PLOS ONE*.
- Herrmann, S. J., D. W. R. Nimmo, J. S. Carsella, I. V. Melnykov, C. M. Kennedy, **K. B. Rogers**, and L. M. Hermann-Hoesing. *In Review*. Differential bioaccumulation of mercury and selenium in stomach contents and tissues of three Colorado, USA, Cutthroat Trout populations. *Bulletin of Environmental Contamination and Toxicology*.
- **Kowalski, D. A.** and **E. E. Richer**. *In review*. Quantifying the habitat preferences of the stonefly *Pteronarcys californica* in Colorado. *River Research and Applications*.
- **Richer, E. E.**, **E. R. Fetherman**, E. Krone, F. B. Wright III, and **M. C. Kondratieff**. *In review*. Evaluation of a rock-ramp fishway for a transition zone stream in Colorado. *North American Journal of Fisheries Management*.
- Swarr, T. R., C. M. Myrick and **R. M. Fitzpatrick**. *In review*. PIT tag retention, survival, and effects on swimming performance in a small-bodied fish, the Arkansas darter, *Etheostoma cragini*. *Journal of Fish Biology*.
- Swarr, T. R., C. M. Myrick and **R. M. Fitzpatrick**. *In review*. Effects of slope on small-bodied fish passage success in an experimental rock ramp fishway. *Journal of Ecohydraulics*.

- **Thompson, K. G., K. B. Rogers,** B. Hines, M. J. Breen. *In review.* Development of standard weight equations for Bluehead Sucker *Catostomus discobolus* using two methods. North American Journal of Fisheries Management.
- Americus, B., **Schisler, G. J.,** Bartholomew, J. L., and S. D Atkinson. *In review.* *Myxobolus cerebralis* (Cnidaria: Myxozoa) causes pre-sporogonic mortality in juvenile Mountain Whitefish (*Prosopium williamsoni*). Journal of Aquatic Animal Health.
- Hardee, T .L., P. A. Nelson, **M. C. Kondratieff,** and B.P. Bledsoe. *In review.* Evaluation of Fish Passage at Whitewater Parks Using 2D and 3D Hydraulic Modeling. Journal of Ecohydraulics.

Special Reports and White Papers

- Bachman, P., B. Beyea, H. Crockett, P. Foutz, T. Jackson, J. Logan, M. May, K. Reiner, J. Smith, **K. Thompson, A. Treble,** G. Wilcox, B. Wright, and R. Wertsbaugh. Biological Importance of Non-Adjacent Wetlands, and Ephemeral and Intermittent Streams in Colorado.
- **Cadmus, P.** 2019. Water Pollution Studies. Federal Aid Project F243-R26. Job Progress Report. Colorado Parks and Wildlife, Aquatic Wildlife Research Section. Fort Collins, Colorado.
- Colorado Stream Quantification Tool Steering Committee (CSQT SC). 2019a. Colorado Stream Quantification Tool and Debit Calculator (CSQT) User Manual, Beta Version. U.S. Environmental Protection Agency, Office of Wetlands, Oceans and Watersheds (Contract # EP-C-17-001), Washington, D.C.
- Colorado Stream Quantification Tool Steering Committee (CSQT SC). 2019b. Scientific Support for the Colorado Stream Quantification Tool, Beta Version. U.S. Environmental Protection Agency, Office of Wetlands, Oceans and Watersheds (Contract # EP-C-17-001), Washington, D.C.
- Farrell, C. J., B. M. Johnson, C. A. Myrick, and **A. G. Hansen.** 2019. Triploid walleye: a new frontier for managing coolwater predators in the West. Colorado State University, Department of Fish, Wildlife, and Conservation Biology, and Colorado Parks and Wildlife, Aquatic Research Section. Fort Collins, CO. 86pp.
- **Fetherman, E. R.,** and T. Riepe. 2020. *Renibacterium salmoninarum* Transmission Research. Colorado Parks and Wildlife Fact Sheet. Fort Collins, Colorado.
- **Fetherman, E. R., B. Neuschwanger, T. Davis,** C. Praamsma, and D. Karr. 2019. Colorado hatchery feed experiments. Colorado Parks and Wildlife, Aquatic Wildlife Research Section. Fort Collins, Colorado.
- **Fetherman, E. R., G. J. Schisler,** and B. W. Avila. 2019. Sport Fish Research Studies. Federal Aid Project F-394-R18. Federal Aid in Fish and Wildlife Restoration, Job Progress

Report. Colorado Parks and Wildlife, Aquatic Wildlife Research Section. Fort Collins, Colorado.

- Brauch, D., and **A. G. Hansen**. 2020. Blue Mesa Lake Trout. Colorado Parks and Wildlife Fact Sheet. Fort Collins, Colorado.
- **Kondratieff, M. C.**, and **E. E. Richer**. 2019. Stream Habitat Investigations and Assistance. Federal Aid Project F-161-R25. Colorado Parks and Wildlife, Aquatic Wildlife Research Section. Fort Collins, Colorado.
- **Kowalski, D. A.** 2019. Colorado River Aquatic Resource Investigations. Federal Aid Project F-237-R26. Colorado Parks and Wildlife, Aquatic Wildlife Research Section. Fort Collins, Colorado.
- **Kowalski, D. A.** and B.D. Heinold. 2019. Windy Gap invertebrate and sculpin monitoring progress report. Colorado Parks and Wildlife, Aquatic Wildlife Research Section. Fort Collins, Colorado.
- **Richer, E. E.**, **M. C. Kondratieff**, J. Ewert, **E. R. Fetherman**, **D. A. Kowalski**, and T. Kittell. 2019. Kemp-Breeze State Wildlife Area Habitat Project, Colorado River: Site Assessment and Conceptual Design Report. Colorado Parks and Wildlife.
- **Richer, E. E.**, and M. Allgeier. 2020. Sediment study for the Colorado River at the Kemp-Breeze State Wildlife Area. Colorado Parks and Wildlife, Aquatic Research Section, Fort Collins.
- **Richer, E. E.**, D. Baker, W. Clements, M. Allgeier, and M. Robinson. 2020. Upper Arkansas River habitat restoration project: Annual site assessment. Colorado Parks and Wildlife, Aquatic Wildlife Research Section. Fort Collins, Colorado.
- **Rogers, K. B.**, and M. Fairchild. 2019. Mapping the bathymetry of Parika Lake in preparation for reclamation. Colorado Parks and Wildlife, Aquatic Wildlife Research Section, Steamboat Springs, Colorado.
- **Schisler, G.**, C. Anderson, J. Gammonley, M. Miller, K. Lanter, and J. Ver Steeg. 2019. Contributions to Everyday Fish and Wildlife Management. Colorado Parks and Wildlife Research, Policy and Planning Branch. Fort Collins, CO. 10pp.
- **Thompson, K. G.**, and Z. E. Hooley-Underwood. 2019. Present Distribution of Three Colorado River Basin Native Non-game Fishes, and Their Use of Tributaries. Colorado Parks and Wildlife Technical Publication 52.
- **Treble, A. J.** 2019. Statewide Fisheries Assessments and Surveys. Federal Aid Project F-86-R-32. Colorado Parks and Wildlife, Aquatic Wildlife Research Section. Fort Collins, Colorado.

- **Treble, A. J.** 2019. Aquatic Data Analysis. Federal Aid Project F-239-R-26. Colorado Parks and Wildlife, Aquatic Wildlife Research Section. Fort Collins, Colorado.
- **Treble, A. J., and A. G. Hansen.** 2019. Hydroacoustics-based estimates of rainbow smelt (*Osmerus mordax*) abundance in Horsetooth Reservoir: 2017-2019. Colorado Parks and Wildlife, Aquatic Research Section. Fort Collins, CO. 8pp.
- **Treble, A. J., and K. Battige.** 2019. Poudre River White Paper #4: Overview of the Cache La Poudre River Fishery. Poudre River Transition Zone Working Group. Fort Collins, CO. 49pp.
- **Treble, A. J.** 2020. Statewide Fisheries Assessments and Surveys. Federal Aid Project F-86-R-33. Colorado Parks and Wildlife, Aquatic Wildlife Research Section. Fort Collins, Colorado.

Internal Presentations

- Atkinson, B., **E. R. Fetherman**, and **M. Kondratieff.** 2020. Comparative survival of catchable and fingerling Rainbow Trout stocked in the Yampa River – 2020 update. 2020 Colorado Parks and Wildlife Aquatic Biologist Meeting. Evergreen, Colorado. January 22, 2020.
- Brauch, D., and **A. G. Hansen.** 2020. Blue Mesa lake trout management update. Biologist Meeting, Evergreen, Colorado. January 22, 2020.
- Farrell, C. J., B. M. Johnson, C. A. Myrick, **A. G. Hansen**, M. M. Brandt, and J. White. 2020. Induced triploidy for managing invasive Walleye: study overview and preliminary findings. Biologist Meeting, Evergreen, Colorado. January 22, 2020.
- Farrell, C. J., B. M. Johnson, C. A. Myrick, **A. G. Hansen**, M. M. Brandt, and J. White. 2019. Induced triploidy for managing invasive Walleye: study overview and preliminary findings. Senior Staff Meeting, Brush, Colorado. December 10, 2019.
- **Fetherman, E. R.**, and J. Ewert. 2019. Colorado River 2018 salmonid research/population monitoring. Colorado River Headwaters Project Meeting. Frisco, Colorado. April 24, 2019.
- **Fetherman, E. R.**, E. Gardunio, **D. Kowalski**, and **G. Schisler.** 2020. *Myxobolus cerebralis* resistance in the Gunnison River Rainbow and resistance and survival evaluations of the HxG. 2020 Colorado Parks and Wildlife Aquatic Biologist Meeting. Evergreen, Colorado. January 22, 2020.
- **Hansen, A. G.**, and D. Brauch. 2020. Population dynamics of lake trout in Blue Mesa Reservoir: new insights from confronting simple models with long-term survey data. Biologist Meeting, Evergreen, Colorado. January 22, 2020.

- **Hansen, A. G.**, B. M. Johnson, and C. J. Farrell. 2019. How low can we go? Simulated effects of triploid walleye induction rate on the probability of establishing a new diploid population. Senior Staff Meeting, Brush, Colorado. December 10, 2019.
- Hooley-Underwood, Z, E., and **K. G. Thompson (Presenter)**. 2019. Spawning stream fidelity and the future (?) of Bluehead and Flannelmouth Sucker. Area 7 Meeting, Grand Junction, Colorado. December 5, 2019.
- Hooley-Underwood, Z, E., and **K. G. Thompson (Presenter)**. 2019. Spawning stream fidelity and the future (?) of Bluehead and Flannelmouth Sucker. Area 10 Meeting, Steamboat Springs, Colorado. December 18, 2019.
- **Kondratieff, M. C., E. R. Richer**, P. Winkle, J. Spohn, and T.R. Swarr. 2019. Restoration of Colorado rivers using NCD principles: Fisheries case studies. 2019. Colorado Parks and Wildlife N.E. Region Biology Days, Denver, Colorado. April 23, 2019.
- **Kondratieff, M. C., Kowalski, D. A.**, and K. Bakich. 2019. Whitewater Parks: Implications for fish habitat, fish passage, and anglers. Colorado Parks and Wildlife N.W. Region Meeting, Radium, Colorado. May 17, 2019.
- **Kondratieff, M. C.** 2019. A 30-year history of stream habitat restoration by CPW in South Park, CO: Field tour. Colorado Parks and Wildlife Capital & Trails engineering meeting, Hartsel, Colorado. August 27, 2019.
- **Kowalski, D. A.** and **E. E. Richer**. 2020. Quantifying the habitat preferences and emergence ecology of the salmonfly, *Pteronarcys californica*. Colorado Parks and Wildlife Aquatic Biologist Meeting, Salida, Colorado. January 22, 2020
- **Kowalski, D. A., E. E. Richer**, and **M. C. Kondratieff**. 2019. Effects of Whitewater Parks on Fisheries. Colorado Parks and Wildlife N.W. Region Meeting, Radium, Colorado. May 17, 2019.
- **Rogers, K. B.** 2019. Extinction isn't always final: rediscoveries of Colorado's native trout. DWM pack training. Bellaire, Colorado. August 12, 2019.
- **Treble, A. J.** 2020. Aquatic Data Management Program Update. Annual CPW Biologist's Meeting, Evergreen, Colorado. January 23, 2020.
- **Treble, A. J.** 2020. Smelt Echo Integration Results from Horsetooth Reservoir. Coldwater Reservoir Management Meeting, Buena Vista, Colorado. February 5th, 2020.

External Presentations

- Avila, B. W., D. L. Winkelman, **E. R. Fetherman**, and J. Drennan. 2019. Assessment of potential disease resistance to *Flavobacterium psychrophilum* and *Myxobolus cerebralis* in Rainbow Trout. 2019 Annual Meeting of the American Fisheries Society Fish Health Section and 60th Annual Western Fish Disease Workshop. Ogden, Utah. June 18, 2019.

- Avila, B. W., D. L. Winkelman, **E. R. Fetherman**, and J. Drennan. 2019. Assessment of potential disease resistance to *Flavobacterium psychrophilum* and *Myxobolus cerebralis* in Rainbow Trout. American Fisheries Society and The Wildlife Society 2019 Joint Annual Conference. Reno, Nevada. October 3, 2019.
- **Cadmus, P.** “Introduction to Ecotoxicology” Colorado State University’s FW 544 – Ecotoxicology. Fort Collins, CO, USA. 21 Jan 2020
- Farrell, C., B. M. Johnson, C. M. Myrick, **A. G. Hansen**, M. Brandt, and J. White. A preliminary assessment of adult diploid and triploid walleye in Narraguinnep Reservoir, Colorado. Annual meeting of CO-WY Chapter of the American Fisheries Society, Laramie, Colorado. February 26, 2020.
- **Fetherman, E. R.** 2020. Salmonid disease research in Colorado. Guest lecture, Introduction to Fisheries. Front Range Community College. Fort Collins, Colorado. March 12, 2020.
- **Hansen, A. G.** 2020. How low can we go? Simulated effects of triploid walleye induction rate on the probability of diploid persistence in a newly stocked population. Virtual teleconference among representatives of CO, UT, and USFWS. March 23, 2020.
- **Hansen, A. G.**, E. I. Gardunio, and T. Eyre. 2020. Population dynamics of smallmouth bass in two upper Colorado River basin reservoirs: short-term responses to an angler harvest incentive program. UCRB Endangered Fish Recovery Program Researcher’s Meeting, Durango, Colorado. January 14, 2020.
- **Hansen, A. G.**, and D. A. Beauchamp. 2019. Pelagic food web interactions in Lake Tahoe: considerations for the reintroduction of Lahontan cutthroat trout. Joint AFS-TWS Meeting, Reno, Nevada. October 3, 2019.
- Hooley-Underwood, Z, E., and **K. G. Thompson (Presenter)**. 2019. Spawning stream fidelity of Bluehead and Flannelmouth Sucker in a tributary network of the Gunnison River. Joint Meeting of American Fisheries Society and The Wildlife Society, Reno, Nevada. October 3, 2019.
- Hooley-Underwood, Z, E.(Presenter), and **K. G. Thompson**. 2019. Unprecedented use of Roubideau Creek by spawning Razorback Suckers. 40th Annual Researchers Meeting of the Upper Colorado River Endangered Fish Recovery Program and the San Juan Basin Recovery Implementation Program, Durango, Colorado. January 14, 2020.
- **Kondratieff, M.C.** 2019. Stream fisheries improvements using Natural Channel Design. Guest lecture, Introduction to Fisheries. Front Range Community College. Fort Collins, Colorado. April 25, 2019.
- **Kondratieff, M. C.** 2019. Long-term monitoring of fish populations from NCD project sites. Environmental Law Institute Webinar Series, Stream Compensatory Webinar Series: Long-

term performance of stream compensatory mitigation. Fort Collins, Colorado. May 16, 2019.
https://www.eli.org/sites/default/files/docs/eliwebinar2019_kondratieff.pdf

- **Kondratieff, M. C., E. R. Richer, P. Winkle, J. Spohn, and T. Swarr.** 2019. Restoration of Colorado rivers using NCD principles: Fisheries case studies. Rocky Mountain Stream Restoration Conference. Estes Park, Colorado. June 19, 2019.
- **Kondratieff, M. C.** 2019. Identification of valley types, stream types, and fluvial geomorphic features: Field tour for ACOE and EPA staff. Estes Park, Colorado. July 10, 2019.
- **Kondratieff, M. C.** 2019. What makes a healthy trout stream? Guest lecture, Introduction to Fishery Biology (FW 204). Colorado State University. Fort Collins, Colorado. November 21, 2019.
- Ash, J., **Kondratieff, M.C.**, E. Wohl, D. Merritt, and L. Poff. 2020. The River Ethic. Colorado Stream Restoration Network workshop. Colorado State University, Fort Collins, Colorado. February 24, 2020.
- Kopack, C., **E. R. Fetherman, R. M. Fitzpatrick**, E. D. Broder, and L. Angeloni. 2019. Can training species of conservation concern prior to release increase survival? Colorado State University. Fort Collins, Colorado. April 10, 2019.
- Kopack, C., **E. R. Fetherman, R. M. Fitzpatrick**, E. D. Broder, and L. Angeloni. 2019. Can training species of conservation concern prior to release increase survival? 2019 Annual Meeting of the Animal Behavior Society. University of Illinois. Chicago, Illinois. July 26, 2019.
- **Richer, E. E.**, W. Clements, **M. C. Kondratieff**, G. Policky, C. Lamson, M. Atwood, E. Gates, M. Myers, and D. Baker. 2019. From gold mining to gold medal fishery: evaluating the effectiveness of large-scale restoration on the upper Arkansas River, Colorado. Rocky Mountain Stream Restoration Conference. June 19, 2019.
- **Richer, E. E., E. R. Fetherman (Presenter), and M. C. Kondratieff.** 2019. Haunted rivers: Application of mobile RFID-GPS systems to evaluate the prevalence of ghost PIT tags. American Fisheries Society and The Wildlife Society 2019 Joint Annual Conference. Reno, Nevada. October 3, 2019.
- Riepe, T., **E. R. Fetherman**, and D. L. Winkelman. 2020. Comparison of tissues for the detection of *Renibacterium salmoninarum*, the causative agent of bacterial kidney disease. 2020 Annual Meeting of the Colorado/Wyoming Chapter of the American Fisheries Society. Laramie, Wyoming. February 26, 2020.
- Riepe, T., **E. R. Fetherman**, and D. L. Winkelman. 2020. Horizontal transmission of *Renibacterium salmoninarum* among inland hatchery-reared trout. 2020 Annual Meeting of the Colorado/Wyoming Chapter of the American Fisheries Society. Laramie, Wyoming. February 26, 2020.

- Riepe, T. B., V. Vincent, V. Milano, **E. R. Fetherman**, and D. L. Winkelman. 2019. Non-lethal methods used to detect *Renibacterium salmoninarum* in Brook Trout. Poster. Colorado State University, Graduate Student Showcase. Fort Collins, Colorado. November 12, 2019.
- Roberts, J., C. Kennedy, **K. B. Rogers**, and K. D. Fausch. 2019. Influence of changing lake and stream thermal regimes in the southern Rocky Mountains on Greenback Cutthroat Trout: insights from dense sensor networks and past conservation efforts. National AFS/TWS meeting, Reno, Nevada. October 2, 2019.
- Roberts, J., C. Kennedy, **K. B. Rogers**, K. D. Fausch, and F. B. Wright. 2020. Influence of changing lake and stream thermal regimes in the Southern Rocky Mountains on Greenback Cutthroat Trout: Insights from dense sensor networks and past conservation efforts. Colorado/Wyoming Chapter AFS meeting, Laramie, Wyoming. February 27, 2020.
- **Rogers, K. B.** 2019. Conserving Colorado's native trout in a warming climate. High Plains Drifters meeting, Denver, Colorado. April 17, 2019.
- **Rogers, K. B.**, J. White, and M. Japhet. 2019. Extinction isn't always final: rediscovery of the native trout of the San Juan basin. Trout Unlimited annual rendezvous, Glenwood Springs, Colorado. April 26, 2019.
- **Rogers, K. B.** 2019. Conserving Colorado's native trout in a warming climate. Habitat Partnership Program meeting, Steamboat Springs, Colorado. May 6, 2019.
- **Rogers, K. B.**, J. White, and M. Japhet. 2019. Extinction isn't always final: rediscovery of the San Juan Lineage Cutthroat Trout. Greenback Recovery Team meeting, Lakewood, Colorado. May 7, 2019.
- **Rogers, K. B.**, S. Firestone, A. Whiteley, and P. Lukacs. 2019. Spawn matrixing fails to improve survival in a unique Cutthroat Trout population following fire-mediated extirpation in the wild. National AFS/TWS meeting, Reno, Nevada. October 1, 2019.
- **Rogers, K. B.**, J. J. Roberts, S. E. Albeke, C. M. Kennedy, J. S. Wood. 2020. Status and conservation of an undescribed lineage of Cutthroat Trout native to the southern Rocky Mountains. Colorado/Wyoming Chapter AFS meeting, Laramie, Wyoming. February 27, 2020.
- **Vigil, E.**, and **G. J. Schisler**. 2020. Gill lice in Colorado: Working together to find a solution. Colorado Aquaculture Association, January 31, 2020.
- **Thompson K. G.**, and Z, E. Hooley-Underwood. 2019. An intermittent stream supports extensive spawning by Colorado River Basin native suckers. Joint Meeting of American Fisheries Society and The Wildlife Society, Reno, Nevada. October 1, 2019.
- **Treble, A. J.** 2020. Using business intelligence software to analyze and disseminate 'Big Data' in fisheries management. Annual Meeting of the Colorado/Wyoming Chapter of the American Fisheries Society, Laramie, WY.

