

Assessing the swimming and jumping performance of Wyoming fishes with implications for fishway design



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To successfully begin solving the complex problems facing native fish conservation efforts, we need to seek a deeper understanding of the fish that inhabit the communities that we hope to conserve. Due to the effects that dams, and similar structures can have on lotic fish communities, fish passage structures (or fishways) are being used with greater frequency to restore the health of streams. In these experiments I studied the swimming and jumping abilities of Hornyhead Chub, Bigmouth Shiner, Iowa Darter, and Brook Stickleback to provide fisheries scientists with criteria for fishway design that will allow the passage of desirable target species. My results show that the movement abilities of each species are unique, and that they all display physiological and behavioral characteristics that pose specific challenges and advantages with regards to fish passage. In my presentation I will discuss how we can apply this information in ways that provide insight into various fishway design strategies.

Join us at 3pm

March 4, 2024
Wagar Building 133

Host
Dr. Chris Myrick



Colorado State University