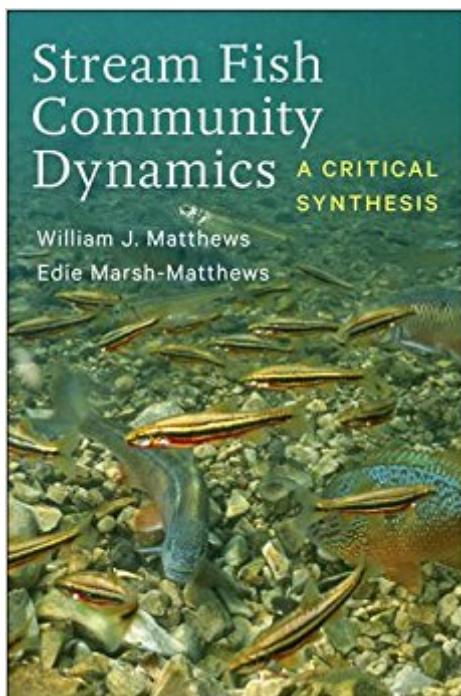


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Stream Fish Community Dynamics: A Critical Synthesis



Synopsis

Ecologists have long struggled to understand community dynamics. In this groundbreaking book, leading fish ecologists William Matthews and Edie Marsh-Matthews apply long-term studies of stream fish communities to several enduring questions. This critical synthesis reaches to the heart of ecological theory, testing concepts against the four decades of data the authors have collected from numerous warm-water stream fish communities in the central and eastern United States. Stream Fish Community Dynamics draws together the work of a single research team to provide fresh analyses of the short- and long-term dynamics of numerous streams, each with multiple sampling sites. Conducting repeated surveys of fish communities at temporal scales from months to decades, the authors' research findings will fascinate anyone searching for a deeper understanding of community ecology. The study sites covered by this book range from small headwater creeks to large prairie rivers in Oklahoma and from Ozark and Ouachita mountain streams in Arkansas to the upland Roanoke River in Virginia. The book includes A comparison of all global and local communities with respect to community composition at the species and family level, emergent community properties, and the relationship between those emergent properties and the environments of the study sites. Analyses of traits of individual species that are important to their distribution or success in harsh environments. A review of evidence for the importance of interactions including competition and predation in community dynamics of stream fishes. An assessment of disturbance effects in fish community dynamics. New analysis of the short- and long-term dynamics of variation in stream fish communities, illustrating the applicability and importance of the "loose equilibrium concept". New analyses and comparisons of spatiotemporal variation in community dynamics and beta diversity partitioning. An overview of the effects of fish in ecosystems in the central and eastern United States. The book ends with a summary chapter that places the authors' findings in broader contexts and describes how the "loose equilibrium concept" which may be the most appropriate default assumption for dynamics of stream fishes in the changing climate of the future applies to many kinds of stream fish communities.

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Customer Reviews

"Overall, this text offers significant insight from two leading researchers in the field, and will serve as a valuable tool for those individuals who wish to delve further into the research. Essential." (Choice)

William J. Matthews is professor emeritus of biology at the University of Oklahoma. He is the author of Patterns in Freshwater Fish Ecology and the coeditor of Community and Evolutionary Ecology of North American Stream Fishes. Edie Marsh-Matthews is professor emeritus of biology at the University of Oklahoma.

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