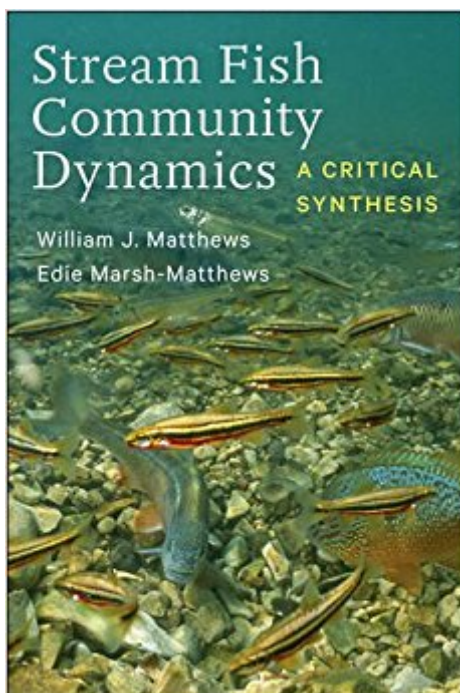


The book was found

# 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.

## Book Information

Hardcover: 16 pages

Publisher: Johns Hopkins University Press (April 5, 2017)

Language: English

ISBN-10: 1421422026

ISBN-13: 978-1421422022

Product Dimensions: 6.1 x 0.3 x 9.2 inches

Shipping Weight: 1.8 pounds (View shipping rates and policies)

Average Customer Review: Be the first to review this item

Best Sellers Rank: #401,460 in Books (See Top 100 in Books) #54 in Books > Science & Math > Biological Sciences > Zoology > Ichthyology #183 in Books > Science & Math > Biological Sciences > Animals > Fish & Sharks #345 in Books > Textbooks > Science & Mathematics > Biology & Life Sciences > Zoology

## 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.

[Download to continue reading...](#)

Stream Fish Community Dynamics: A Critical Synthesis Smoking Meat: Fish Edition: Top 25 Amazing Smoked Fish Recipes (Smoked Fish Recipes, Smoked Fish Cookbook, Smoked Fish Guide, Unique Smoking Fish Recipe Book, Smoking Meat, BBQ Cookbook) Smoking Meat: Fish Edition. : Delicious Smoking Fish Recipes for Everyone (Book 2, Smoked Fish Recipes Cookbook, Smoked Fish Guide, Unique Smoking Fish Recipe Book, Smoking Meat, BBQ Cookbook) Handbook of Reagents for Organic Synthesis: Reagents for Heteroarene Synthesis (Hdbk of Reagents for Organic Synthesis) One Fish Two Fish Red Fish Blue Fish (I Can Read It All by Myself) Poisson Un Poisson Deux Poisson Rouge Poisson Bleu: The French Edition of One Fish Two Fish Red Fish Blue Fish (I Can Read It All by Myself Beginner Books (Hardcover)) One Fish Two Fish Red Fish Blue Fish (Beginner Books(R)) What Pet Should I Get? and One Fish Two Fish Red Fish Blue Fish Robotic Fish iSplash-MICRO: A 50mm Robotic Fish Generating the Maximum Velocity of Real Fish (High Speed Robotics. Mechanical engineering and kinematics for maximum velocity robot fish. Book 4) How to Watch and Stream on Apple TV for Free: The latest and best method to watch and stream on Apple TV 4th Gen and other versions in less than 15 minutes(free streaming devices tutorial & TV Guide) Field & Stream's Guide to Catching Bass (Field & Stream's Guide to the Outdoors) One Fish, Two Fish, Three, Four, Five Fish (Dr. Seuss Nursery Collection)

Advanced Organic Chemistry: Part B: Reaction and Synthesis: Reaction and Synthesis Pt. B The Organic Chemistry of Drug Synthesis, Volume 3 (Organic Chemistry Series of Drug Synthesis) Landmarking and Segmentation of 3D CT Images (Synthesis Lectures on Biomedical Engineering Synthesis Lectu) CRITICAL THINKING: A Beginner's Guide To Critical Thinking, Better Decision Making, And Problem Solving ! ( critical thinking, problem solving, strategic thinking, decision making) Mechanisms and Machines: Kinematics, Dynamics, and Synthesis Tunneling Dynamics in Open Ultracold Bosonic Systems: Numerically Exact Dynamics â “ Analytical Models â “ Control Schemes (Springer Theses) Glencoe Biology: The Dynamics of Life, Reinforcement and Study Guide, Student Edition (BIOLOGY DYNAMICS OF LIFE) Quantitative Fish Dynamics (Biological Resource Management)

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)