



Ecology of North American Freshwater Fishes

By Stephen T. Ross

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Ecology of North American Freshwater Fishes By Stephen T. Ross

The North American freshwater fish fauna is the most diverse and thoroughly researched temperate fish fauna in the world. *Ecology of North American Freshwater Fishes* is the only textbook to provide advanced undergraduate and graduate students and researchers with an up-to-date and integrated view of the ecological and evolutionary concepts, principles, and processes involved in the formation and maintenance of this fauna.

Ecology of North American Freshwater Fishes provides readers with a broad understanding of why specific species and assemblages occur in particular places. Additionally, the text explores how individuals and species interact with each other and with their environments, how such interactions have been altered by anthropogenic impacts, and the relative success of efforts to restore damaged ecosystems.

This book is designed for use in courses related to aquatic and fish ecology, fish biology, ichthyology, and related advanced ecology and conservation courses, and is divided into five sections for ease of use. Chapter summaries, supplemental reading lists, online sources, extensive figures, and color photography are included to guide readers through the material and facilitate student learning.

Part 1: Faunal origins, evolution, and diversity

Presents a broad picture—both spatially and temporally—of the derivation of the fauna, including global and regional geological and climatological processes and their effects on North American fishes.

Part 2: Formation, maintenance, and persistence of local populations and assemblages

Focuses on how local fish populations and assemblages are formed and how they persist, or not, through time.

Part 3: Form and function

Deals with the relationship of body form and life history patterns as they are related to ecological functions.

Part 4: Interactions among individuals and species

Discusses the numerous interactions among individuals and species through communication, competition, predation, mutualism, and facilitation.

Part 5: Issues in conservation

Focuses on several primary conservation issues such as flow alterations and the increasing biotic homogenization of faunas.

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Editorial Review

Review

"The only textbook to provide . . . an up-to-date and integrated view of the ecological and evolutionary concepts, principles, and processes involved in the formation and maintenance of this fauna."

(Ian Paulsen *The Guardian* 2013-06-01)

"This book provides a well-organized, clear, and detailed description of major topics in the ecology of North American freshwater fish."

(*The Quarterly Review of Biology* 2014-06-01)

"An excellent starting reference for emerging researchers and a good source for selected course readings on fish ecology."

(*Fish and Fisheries*)

About the Author

Stephen T. Ross is Curator Emeritus of Fishes, Museum of Southwestern Biology at the University of New Mexico; Adjunct Professor of Biology, University of New Mexico; and Thomas Waring Bennett Jr. Distinguished Professor Emeritus, University of Southern Mississippi. He is the author of *The Inland Fishes of Mississippi* (2001, University of Mississippi Press).

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