



Ecology of North American Freshwater Fishes

Stephen T. Ross Ph. D.

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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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Ronald Castaneda:

This Ecology of North American Freshwater Fishes are generally reliable for you who want to be described as a successful person, why. The explanation of this Ecology of North American Freshwater Fishes can be one of many great books you must have is usually giving you more than just simple examining food but feed anyone with information that maybe will shock your previous knowledge. This book is usually handy, you can bring it everywhere you go and whenever your conditions at e-book and printed versions. Beside that this Ecology of North American Freshwater Fishes forcing you to have an enormous of experience like rich vocabulary, giving you tryout of critical thinking that we understand it useful in your day action. So , let's have it and luxuriate in reading.

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