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Marine Artificial Reef Research and Development
Integrating Fisheries Management Objectives



Paddlefish: Ecological, Aquacultural, and Regulatory Challenges of Managing a Global Resource

Edited by:
Jason D. Schooley and Dennis L. Scarnecchia



American Fisheries Society Symposium 88

FROM CATASTROPHE TO RECOVERY

STORIES OF FISHERY MANAGEMENT SUCCESS



American Fisheries Society Symposium 86

Managing Centrarchid Fisheries in Rivers and Streams



Edited by:
Michael J. Siepker and Jeffrey W. Quinn

CHARLES C.

THE BEHAVIOR AND ECOLOGY OF PACIFIC SALMON AND TROUT

SECOND EDITION



AMERICAN FISHERIES SOCIETY SYMPOSIUM 87

Trout and Char of the World



Jeffrey L. Kershner, Jack E. Williams, Robert E. Gresswell, and Javier Lobón-Cerviá, editors

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The American Fisheries Society (AFS) is an international, professional, and scientific organization of nearly 7,000 fisheries managers and aquatic scientists. Founded in 1870, AFS is the world's oldest and largest organization dedicated to strengthening the fisheries profession, advancing fisheries science, and conserving fisheries resources. Chapters of AFS exist throughout North America and members reside in 58 countries.

NEW RELEASES

Trout and Char of the World

Jeffrey L. Kershner, Jack E. Williams, Robert E. Gresswell and Javier Lobón-Cerviá, eds.

This is the first comprehensive look at the taxonomy, life history, and conservation status of the world's inland trout and char. These are fascinating and beautiful fish that rate high for the angler as well as for tourist and recreational economies. Trout and char also play key roles in the ecology of many lake and river systems around the world.

Trout and char are abundant in many regions, but most native species are on the decline. Some are classified as vulnerable, threatened, or endangered. Because of their widespread stocking in regions where they are not native, some trout and char also are the cause for threats to other native species. Loss of habitat, an expanding human population, and rapid climate change are challenging their future as streams warm and waters become more variable in their flows. This book examines trout and char from all these perspectives.

Early chapters explore the unique diversity and life history aspects of trout and char and provide information on the taxonomy and systematics while also detailing some of unique life histories. New information is presented about species diversity and distributions by country. Summary chapters explore significant conservation and management challenges of broad interest to scientists, resource managers, anglers, and interested public. The book ends with a series of essays exploring the future of trout and char over the next 50 years.

This book will be a primary resource for trout biologists, conservationists, and anglers in the many countries where trout are native or have been introduced, and a resource for anyone interested in learning more about the diversity and distribution of trout and char worldwide.

800 pp, hardcover, index, 2019
 ISBN-13 . . .978-1-934874-54-7
 stock 550.81C
 list price \$79
 member price. \$55

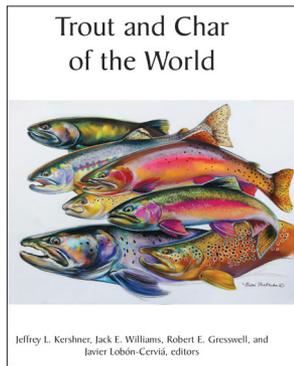
Managing Centrarchid Fisheries in Rivers and Streams

Michael J. Slepker and Jeffrey W. Quinn, eds.

This book synthesizes current scientific and management studies for centrarchids in rivers and streams, and is a must-read for natural resource professionals as well as stream fishing enthusiasts. Readers will benefit from the diverse array of topics addressed by studies of six species in 11 states. The latest information provided on native species conservation and restoration, unique lineages, species interactions and distribution, life history, habitat use, and population demographics will be useful to a variety of resource professionals. Stream fisheries managers will especially benefit from chapters that evaluate angler exploitation, stocking, fish removals, dam removal, forage addition, and harvest regulations.

This book provides a comprehensive resource for anyone interested in expanding their understanding of centrarchid fisheries in rivers and streams.

(SY 87) 270 pp, paper, 2019
 ISBN-13 . . .978-1-934874-52-3
 stock 540.87P
 list price \$79
 member price \$55

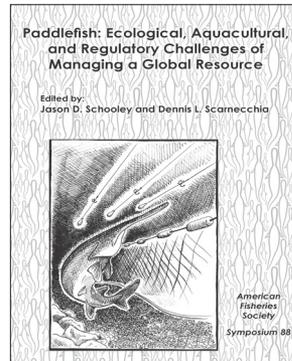


NEW RELEASES

Paddlefish: Ecological, Aquacultural, and Regulatory Challenges of Managing a Global Resource

Jason D. Schooley and Dennis L. Scarnecchia, eds.

This multi-authored book with chapters by state, federal, and international agency scientists and academic experts provides an up-to-date review of biology, life history, ecology, genetics, habitat use, and sustainable fisheries management of the North American Paddlefish.



Recent advances in knowledge of life history, migrations and movements, and recruitment are included and technological advances in genetics, telemetry, sonar, eDNA, and microchemistry are addressed. The book includes chapters discussing Paddlefish aquaculture for restoration, supplementation, and commercial production. The scope extends beyond the domestic range of Paddlefish by adding perspectives on global status, including introduction and aquaculture in Europe and Asia. The book also has

relevance to people interested in caviar, as well as to those studying and managing sturgeon and other long-lived fish species worldwide.

(SY 88) 290 pp, hardcover, 2019
 ISBN-13 . . .978-1-934874-53-0
 stock 540.88C
 list price \$79
 member price \$55

From Catastrophe to Recovery: Stories of Fishery Management Success

Charles C. Krueger, William W. Taylor, and So-Jung Youn, eds.

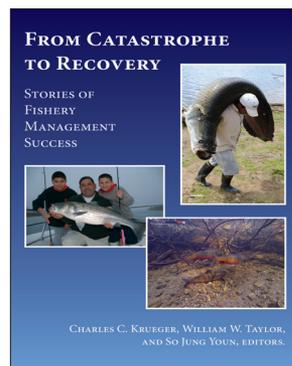
This book provides eyewitness "good news" accounts of true stories of successful fishery management in action that have resulted in bringing fish populations from the brink of extinction to full recovery with viable naturally

reproducing, self-sustaining, and productive populations. The text provides incontrovertible evidence that good things can indeed happen with well-thought out and implemented fish management programs, demonstrating that fishery professionals working together with their stakeholders can make a difference in restoring and maintaining fish and their habitats to productive levels.

Contains 22 case histories of fishery management success spanning rivers, lakes, and marine systems. Each account ends with the authors' reflections of lessons learned that could be applied to other fisheries.

The book will be useful as a college text and invaluable to natural resources researchers, managers, and their allied publics.

530 pp est., paper, 2019
 ISBN-13 . . .978-1-934874-55-4
 stock 550.80P
 list price \$79
 member price \$55



NEW RELEASES

Marine Artificial Reef Research and Development: Integrating Fisheries Management Objectives

Stephen A. Bortone, ed.

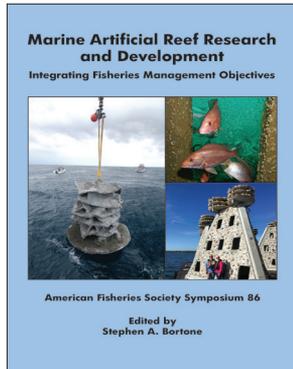
Over the past forty years, marine artificial reef researchers have explored a variety of key questions about the ecology and function of manmade marine habitat. While artificial reefs have long been presumed to offer an alternative management option to resource managers, in practice artificial reefs are often not formally incorporated into fishery management plans.

This volume addresses many of these issues with papers based chiefly on presentations given at a symposium held at the American Fisheries Society annual meeting in Tampa, Florida, and the 11th CARAH (Conference on Artificial Reefs and Related Habitats) held in Terengganu, Malaysia, both held in 2017.

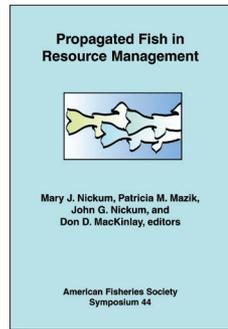
This topical work presents research results that address the incorporation of

artificial reefs into fishery management strategies. The book will be invaluable to natural resource researchers and managers.

(SY 86) 321 pp, paper, 2018
 ISBN-13 . . . 978-1-934874-51-6
 stock540.86P
 list price \$79
 member price \$55



AQUACULTURE



Propagated Fish in Resource Management

Mary J. Nickum, Patricia M. Mazik, John G. Nickum, and Don D. MacKinlay, editors

This book contains the peer-reviewed technical papers presented at a June 2003 symposium examining the effective use of fish culture as a tool for fisheries resource management.

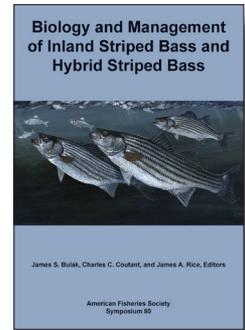
The symposium identified information gaps in technical knowledge, debated the appropriateness of assumptions and current theories being used to make resource management decisions, and attempted to reconcile philosophical differences that have become an obstacle to science-based resource management.

(SY 44) 644 pp, hardcover, 2005
 ISBN-10 1-888569-69-7
 ISBN-13 978-1-888569-69-8
 stock540.44C
 list price \$75
 member price \$53

pertaining to life history, movement, habitat use, and disease are presented. Large-scale habitat restoration initiatives are described and their positive impacts evaluated. The negative impacts of introduced basses are detailed, with multiple case studies of hybrid introgression. Novel evolutionary lineages such as Bartram's Bass and the newly discovered Choctaw Bass are introduced and their taxonomic status considered. All chapters emphasize conservation needs for vulnerable populations within their native habitats.

Contains full-color plates of each species. This work will be useful to fishery scientists, biologists, managers, culturists, students, and interested public, such as anglers and conservationists.

(SY 82) 685 pp, hardcover, 2015
 ISBN-13 978-1-934874-40-0
 stock540.82C
 list price \$79
 member price \$55



Biology and Management of Inland Striped Bass and Hybrid Striped Bass

James S. Bulak, Charles C. Coutant, and James A. Rice, eds.

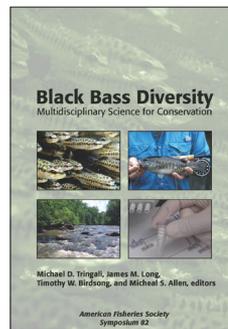
The book provides a first-ever, comprehensive overview of the biology and management of Striped Bass and hybrid Striped Bass in the inland waters of the United States.

The book's 34 chapters are divided into nine major sections: History, Habitat, Growth and Condition, Population and Harvest Evaluation, Stocking Evaluations, Natural Reproduction, Harvest Regulations, Conflicts, and Economics. A concluding chapter discusses challenges and opportunities currently facing these fisheries.

This compendium will serve as a single source reference for those who manage or are interested in inland Striped Bass or hybrid Striped Bass fisheries. Fishery managers and students will benefit from this up-to-date overview of priority topics and techniques. Serious anglers will benefit from the extensive information on the biology and behavior of these popular sport fishes.

(SY 80) 588 pp, index, hardcover, 2013
 ISBN-13 978-1-934874-36-3
 stock540.80C
 list price \$79
 member price \$55

BIOLOGY



Black Bass Diversity: Multidisciplinary Science for Conservation

Michael D. Tringali, James M. Long, Timothy W. Birdsong, and Micheal S. Allen, eds.

The book's 47 chapters cover the biological, ecological, genetic, and management concerns of endemic basses within the genus *Micropterus*.

The opening chapters profile the nine recognized species of *Micropterus* and describe their unique conservation needs. Later chapters are dedicated to fishery topics and the influences of human dimensions. New findings

AFS AMERICAN FISHERIES SOCIETY AFS BOOKS PROGRAM

The American Fisheries Society (AFS) Books Department is a full-service publisher that offers complete planning, peer review, manuscript development, editorial, production, distribution, and marketing guidance and assistance.

We publish textbooks, reference books, manuals, handbooks, and conference proceedings. Over 180 AFS-published titles are currently available (see fisheries.org/shop#allbooks). In-depth studies on fisheries and interdisciplinary subjects, thematically-related collections of papers, and general interest books are produced for classroom learning, continuing professional development, and public education.

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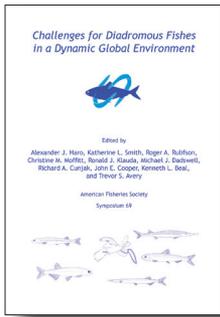
The AFS Books Program seeks to anticipate, identify, and respond to the information needs of its customers and to transfer science-based information to the broadest possible audience including the public.

INTERESTED IN WRITING OR EDITING A BOOK?

Book proposals from prospective authors and editors are welcomed. We are also interested in ideas for new publications.

Contact:

Aaron Lerner
 Director of Publications
 American Fisheries Society
 301-897-8616, ext. 231
alerner@fisheries.org



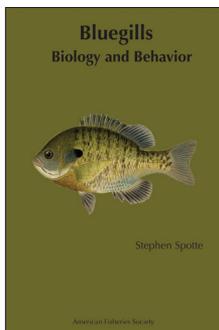
Challenges for Diadromous Fishes in a Dynamic Global Environment

Alex Haro, Katherine L. Smith, Roger A. Rulifson, Christine M. Moffitt, Ronald J. Kluda, Michael J. Dadswell, Richard A. Cunjak, John E. Cooper, Kenneth L. Beal, and Trevor S. Avery, eds.

Based on a 2007 international symposium, this book reviews the biology, ecology, human importance, and management and conservation of diadromous fishes with the goal of providing innovative interpretations and opportunities for sustainability. Because diadromous fishes use different environments and migration corridors to complete their life history in ocean and freshwater environments, they are particularly vulnerable to direct and indirect consequences of human development and global climate change.

Also presents new ecological and evolutionary concepts and experimental and modeling tools that advance understanding of the significance and the resilience of the diadromy life history strategies within ecosystems. Considers creative approaches for habitat protection and restoration to sustain stocks in the future.

(SY 69) 943 pp, hardcover, 2009
 ISBN-13978-1-934874-08-0
 stock540.69C
 list price \$69
 member price \$48

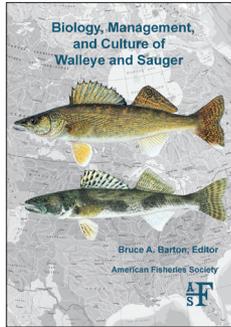


Bluegills: Biology and Behavior
 Stephen Spotte

The Bluegill is arguably the most popular freshwater sportfish in North America—it has been introduced into every state but Alaska. Bluegills also have been exported worldwide for

sport, for aquaculture, or as forage for larger fishes. Spotte's book is a synopsis of what we know about Bluegills. He discusses not just *what* Bluegills do, but also *how* they go about doing it.

214 pp, paper, 2007
 ISBN-13978-1-888569-93-3
 stock550.54P
 list price \$35
 member price \$25



Biology, Management, and Culture of Walleye and Sauger
 Bruce A. Barton, ed.

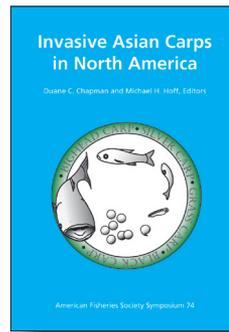
This new compendium serves as a single comprehensive source of information on the biology, ecology, management, and culture of Walleye and Sauger in North America.

Early chapters cover *Sander* systematics, including osteological evidence and molecular and population genetics and recent advancements in stock identification. Extensive information is documented on habitat requirements for various life history stages and how these stages can be influenced by environmental perturbations.

Other chapters describe environmental biology and feeding energetics and provide details on Walleye and Sauger life histories; Walleye population and community dynamics in lakes that reflect the influence of lake size, fishing methods, and various management techniques using case histories; and exploitation from recreational, commercial, aboriginal, and mixed fisheries. Harvest regulations, sampling procedures, and their effectiveness are also reviewed and evaluated.

Final chapters review and analyze stocking procedures, marking techniques, ecological effects of stocking, and the state of the art of Walleye and hybrid Walleye culture.

570 pp, paper, index, 2011
 ISBN-13978-1-934874-22-6
 stock550.65P
 list price \$79
 member price \$55



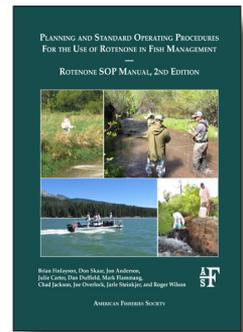
Invasive Asian Carps in North America

Duane C. Chapman and Michael H. Hoff, eds.

Grass Carp, Black Carp, Bighead Carp, and Silver Carp are native to Asia, and in North America are referred to as "Asian carps." These fishes have been popular aquaculture species for more than a thousand years. After their importation to the United States in the 1960s and 1970s, all of these species have escaped confinement. There is concern about the ecological and economic damage consequences of introducing these environmental engineers into North America.

This book examines the history, biology, and status of Asian carps and reviews current research on control measures. Explores the factors influencing recruitment and spread of Asian carps, considers current research on habitat requirements of bigheaded carps, analyzes data on diet overlap and potential competition between bigheaded carps and native fishes, and examines the use of pheromones as controls for Asian carps.

(SY74) 266 pp, paper, 2011
 ISBN-13978-1-934874-23-3
 stock540.74P
 list price \$79
 member price \$55

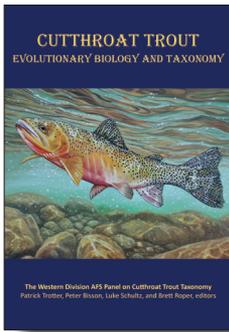


Planning and Standard Operating Procedures for the Use of Rotenone in Fish Management—Rotenone SOP Manual, 2nd Edition

Brian Finlayson, Don Skaar, Jon Anderson, Julie Carter, Dan Duffield, Mark Flammang, Chad Jackson, Joe Overlock, Jarle Steinkjer, and Roger Wilson, eds.

The AFS's Fish Management Chemicals Committee, in cooperation with the rotenone registrants and the U.S. Environmental Protection Agency, developed the 2nd edition of the Manual. The Manual is considered labeling and must be present along with the label at the project work site. The revised Manual contains four chapters, beginning with an expanded introduction that contains up-to-date information and references on the environmental fate, fish and wildlife toxicity, and public health studies on rotenone, and product stewardship concepts to reduce environmental impacts. The second chapter provides general guidance on streamlined project planning procedures, and the third chapter contains a summary of various sampling and analytical techniques used to monitor potential impacts on the aquatic environment. The fourth chapter contains reformatted and easier to read Standard Operating Procedures that complement the label directions including the partial/selective treatment of lakes, treatment of upwelling groundwater that confound treatments, and determining the connectivity of surface and groundwater when sampling of wells is required.

163 pp, paper, 2018
 ISBN-13978-1-934874-49-3
 stock550.79P
 list price \$60
 member price \$42



Cutthroat Trout: Evolutionary Biology and Taxonomy

Patrick Trotter, Peter Bisson, Luke Schultz, and Brett Roper, eds.

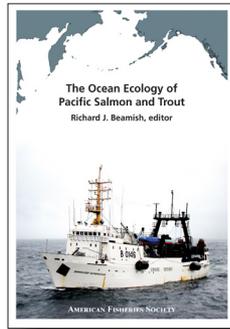
The Cutthroat Trout is an important western North American fish species whose numbers are seriously depressed. Recently, data from new molecular taxonomy methods have revealed greater differentiation and diversity in Cutthroat Trout than previously detected. In 2015, the Western Division of the American Fisheries Society convened a special workshop to consider the different viewpoints, reconcile differing interpretations of the evidence, and, if deemed necessary, offer a revised classification of Cutthroat Trout.

The book brings together the latest available evidence for Cutthroat Trout evolutionary history and current levels of genetic diversity. It confirms the need for a revised classification of Cutthroat Trout, and proposes a revised phylogeny with four deep evolutionary divergences. It presents arguments (pro and con) for classifying the four major lineages themselves as full species, and for delineating each of the 25 modern subunits.

This work will be of value to anyone with interest in the fields of taxonomy, systematics, evolutionary biology and genetics, phylogenetics, molecular biology and genetics, and to fisheries biologists and managers at all levels from student to longtime professionals.

362 pp, paper, 2018
 ISBN-13 978-1-934874-50-9
 stock 510.36P
 list price \$79
 member price \$55

ECOLOGY



Ocean Ecology of Pacific Salmon and Trout

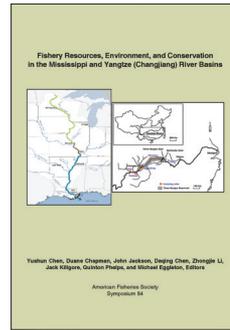
Richard Beamish, ed.

There has been great progress during the past two decades in the understanding of the ocean ecology of Pacific salmon and their response to climate-induced changes in their ocean environment. This book is a comprehensive summary and interpretation of the research published on the ocean ecology of six species of Pacific salmon (Pink Salmon, Chum Salmon, Sockeye Salmon, Coho Salmon, Chinook Salmon, and Cherry Salmon), steelhead, and coastal Cutthroat Trout by researchers in Canada, Japan, Korea, Russia, and the United States. The book includes a summary of standard Pacific salmon research techniques in the ocean, and relevant new information on the life history in fresh water.

Each chapter is authored by well-known researchers from Pacific salmon-producing countries. The chapters for each species report on the recent knowledge of the marine life histories, including abundances, stock-specific distributions and migrations, feeding behavior, trophic interactions, growth, survival, and enhancement activities.

The book provides up-to-date scientific information on the ocean life of Pacific salmon as well as discussions about future research needs. It will be an invaluable source of information and a standard reference for scientists, teachers, students, and anyone interested in Pacific salmon.

1090 pp, hardcover, index, 2018
 ISBN-13 978-1-934874-45-5
 stock 550.77C
 list price \$98
 member price \$69



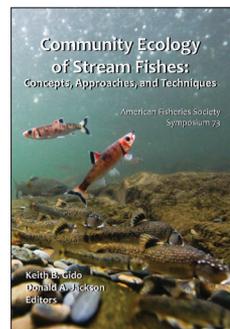
Fishery Resources, Environment, and Conservation in the Mississippi and Yangtze (Changjiang) River Basins

Yushun Chen, Duane Chapman, John Jackson, Daqing Chen, Zhongjie Li, Jack Kilgore, Quinton Phelps and Michael Eggleton, eds.

The Mississippi and Yangtze (Changjiang) River Basins, the largest basins of North America and Asia, serve as the principal navigational waterways and main water sources, and play important economic, social, cultural, and ecological roles in the two continents. Maintaining healthy and productive fisheries and the integrity of aquatic ecosystems are important for achieving sustainability in both basins. The basins share many taxa, and have experienced some of the same environmental challenges to their fisheries.

This book examines fishery resources and environment of the two basins. It provides an overview of fishery resources, geology, land use, hydrology, and environment; evaluates endangered and invasive species, biodiversity, and conservation; and assesses anthropogenic stressors, floodplains, and river restorations in the two basins.

(SY 84) 350 pp, paper, 2016
 ISBN-13 978-1-934874-44-8
 stock 540.84P
 list price \$79
 member price \$55



Community Ecology of Stream Fishes: Concepts, Approaches, and Techniques

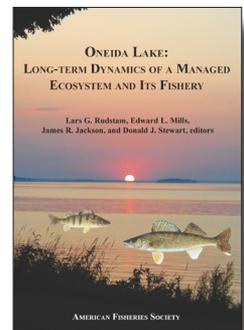
Keith B. Gido and Donald A. Jackson, eds.

Stream fish community ecology is an exciting field of research that has expanded rapidly over the past two decades. Both conceptual and technological advances have increased our ability

to characterize patterns of community structure across multiple scales and evaluate processes that regulate those patterns. A main focus of this book is to synthesize those advancements and provide directions for future research.

Chapters are grouped into five main themes: macroecology of stream fishes, stream fish communities in landscapes, importance of connectivity, conservation challenges for stream fishes, structure and dynamics of stream fishes, and role of fishes in stream ecosystems. An international group of renowned authors have contributed chapters and theme summaries that provide examples of current research within each of five themes as well as ideas for new research directions.

(SY 73) 664 pp, paper, index, 2010
 ISBN-13 978-1-934874-14-1
 stock 540.73P
 list price \$79
 member price \$55



Oneida Lake: Long-term Dynamics of a Managed Ecosystem and Its Fishery

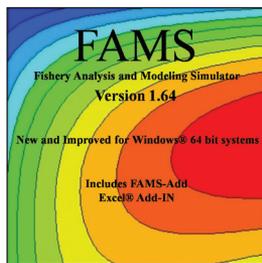
Lars G. Rudstam, Edward L. Mills, James R. Jackson, and Donald J. Stewart, eds.

Studies on the fish populations, fisheries, and limnology of Oneida Lake, NY started in the late 1950s at the Cornell University Biological Field Station. Early research concentrated on Walleye, Yellow Perch, and their interactions but was soon expanded to include interactions with the lake ecosystem, an early example of the ecosystem approach. Research on Oneida Lake has continued for 60 years and the resulting data series that couples fish ecology and limnology is one of the best available anywhere.

In this book, collaborators worldwide have contributed insights into the functioning of the lake's ecology and fisheries, and by extension to the functioning of similar freshwater lakes elsewhere. The book is divided in three sections. The first set of chapters provides an historical and landscape context to the studies, the second set analyzes the long-term data, and the third set uses those data in modeling analyses.

541 pp, paper, 2016
 ISBN-13 978-1-934874-43-1
 stock 550.75P
 list price \$79
 member price \$55

EDUCATIONAL & PROFESSIONAL TOOLS



Fishery Analysis and Modeling Simulator (FAMS), version 1.64 (for 64 bit operating systems)

FAMS is designed to simulate and evaluate the dynamics of exploited fish populations. It allows for the evaluation of minimum, slot, and inverted length limits and bag limits on exploited fisheries. Input parameters require age-structure data and use the Jones modification of the Beverton–Holt equilibrium yield equation to compute both a yield per recruit and a dynamic pool model. For the dynamic pool model, the entire population is simulated over time. In addition, it helps to analyze several predicted population parameters, including the number of fish harvested and dying naturally, mean weight and length of harvested fish, number in the population above and below some lengths of interest, total number of fish and biomass in the population, stock density indices, number of age-1 fish, and the spawning potential ratio.

Compatible with Windows Vista, Windows 7, Windows 8, and Windows 10.

Downloadable software from AFS online bookstore, 2014

stock 703.19P
list price \$220
member price \$154

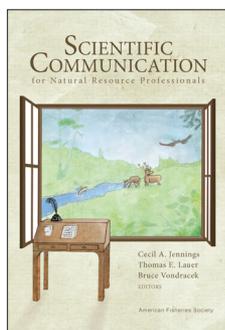


The AFS Guide to Fisheries Employment, Second Edition David A. Hewitt, William E. Pine, III, and Alexander V. Zale, eds.

This updated handbook provides education, employment, career advancement, and professional development guidance to fisheries students and professionals. Includes practical advice on building undergraduate skills, designing an effective resume, and pursuing graduate studies. Experienced

fisheries professionals discuss fisheries careers with state and federal agencies, academia, cooperative research units, nongovernmental organizations, and private consultants. Also examines foreign employment, equal opportunity issues, things to know about assuming administrative positions, and how AFS can help individuals become fisheries professionals.

229 pp, paper, 2006
ISBN-10 1-888569-86-7
ISBN-13 978-1-888569-86-5
stock 550.53
list price \$12
member price \$ 8



Scientific Communication for Natural Resource Professionals

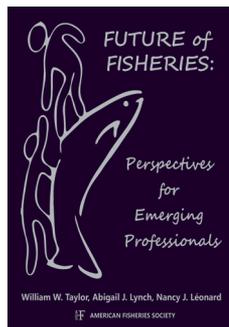
Cecil A. Jennings, Thomas E. Lauer, and Bruce Vondracek, eds.

This book is a “how to” guide to most forms of modern scientific communication, containing practical advice on improving communications and publishing success.

Includes chapters on preparing and submitting manuscripts, determining authorship, searching for information, integrating statistical methods and results into your writing, designing tables and figures, converting your thesis or dissertation to a journal manuscript, deciding where to submit your manuscript, responding to peer review, preparing poster and oral presentations for professional meetings, writing review papers, and reviewing a scientific paper.

This topical volume will be of interest to students, young professionals, educators, scientists, managers, and anyone who needs to communicate science.

180 pp, paper, 2012
ISBN-13 978-1-934874-28-8
stock 550.66P
list price \$35
member price \$25



Future of Fisheries: Perspectives for Emerging Professionals

William W. Taylor, Abigail J. Lynch, and Nancy J. Leonard, eds.

Learn the “what I know now that I wish I knew then!” lessons now rather than later!

Future of Fisheries: Perspectives for Emerging Professionals contains over 60 short mentoring vignettes on past experiences and visions for the future authored by many notable mentors from the fisheries field. The volume is intended to inspire and empower the next generation of fisheries professionals with advice from seasoned professionals by providing personal “lessons learned” and insights from the topics that most influenced their illustrious careers, while also addressing the most urgent issues on the horizon for fisheries.

Like having a mentor on hand at the turn of a page, this book bridges a vital gap in our field by using the unique structure of mentoring vignettes to advise young fisheries professionals on how to achieve success as a fisheries professional and on what concepts will be relevant and important for the future of the fisheries profession.

506 pp, paper, 2014
ISBN-13 978-1-934874-38-7
stock 550.73P
list price \$60
member price \$42



Guidelines for the Use of Fishes in Research

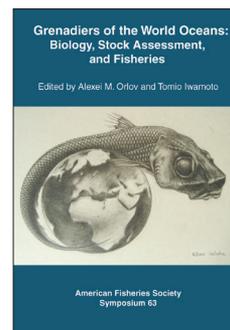
Use of Fishes in Research Committee (joint committee of the American Fisheries Society, the American Institute of Fishery Research Biologists, and the American Society of Ichthyologists and Herpetologists)

This newly revised edition of the Guidelines aids researchers and regulatory authorities regarding responsible,

scientifically valid research on fish and aquatic wildlife. The document is intended to provide general recommendations on field and laboratory research, such as sampling, holding, and handling fishes; to offer information on administrative matters, including regulations and permits; and to address typical ethical concerns, such as perceptions of pain or discomfort experienced by experimental subjects.

90 pp, paper, 2014
stock 550.74P
list price \$6.00
member price \$4.20

GUIDES & FAUNA



Grenadiers of the World Oceans: Biology, Stock Assessment, and Fisheries

Alexei M. Orlov and Tomio Iwamoto, eds.

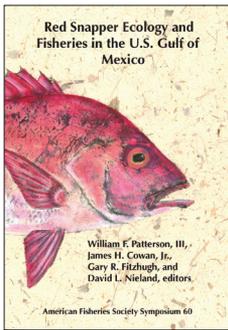
Grenadiers or rattails are widely distributed in the oceans from the Arctic to the Antarctic. This is the first book to examine different aspects of the distribution, ecology, life history, stock assessment, and fisheries of different grenadier species in the oceans. The 25 chapters, written by 65 international experts, provide the most current data on the biology and fisheries of grenadiers. This volume will appeal to a wide spectrum of professionals, including fisheries scientists and managers, marine biologists and ecologists, and oceanographers.

(SY 63) 484 pp, paper, 2008
ISBN-13 978-1-934874-00-4
stock 540.63P
list price \$69
member price \$48

NEW Trout and Char of the World

Jeffrey L. Kershner, Jack E. Williams, Robert E. Gresswell and Javier Lobón-Cerviá, eds.

800 pp, hardcover, index, 2019
stock 550.81C
list price \$79
member price \$55

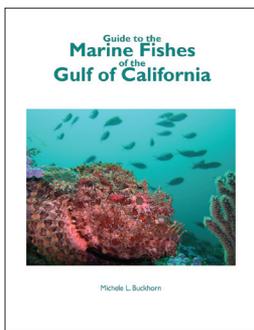


Red Snapper Ecology and Fisheries in the U.S. Gulf of Mexico

William F. Patterson, III, James H. Cowan, Jr., Gary R. Fitzhugh, and David L. Nieland, eds.

Red Snapper is among the most ecologically and economically important reef fishes in the northern Gulf of Mexico. Fisheries management for the species also happens to be among the most controversial in the U.S. Gulf. Red Snapper has been estimated to be overfished and undergoing overfishing since at least the late 1980s. Management is complicated, however, because the greatest source of mortality for Red Snapper is believed to come from shrimp trawl bycatch, not the directed fisheries. Despite all efforts to solve the bycatch problem and otherwise recover Red Snapper, the stock remains significantly overfished. This volume provides the state of knowledge for research on Red Snapper ecology and fisheries.

(SY 60) 396 pp, paper, 2008
 ISBN-13 . . . 978-1-888569-97-1
 stock 540.60P
 list price \$69
 member price \$48



Guide to the Marine Fishes of the Gulf of California
Michele L. Buckhorn

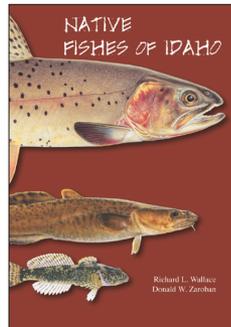
The Gulf of California, also known as the Sea of Cortez, is a subtropical sea located between the Baja Peninsula and the Mexican mainland states of Sonora and Sinaloa. There are 17 families and 67 species of chondrichthian fish, 115 families and 753 species of bony fish, plus two species of myxinids present in the Gulf of California. This work covers 105 families and more than 400 species.

The book's key provides an easy method to identify the common marine fish families in the Gulf of California.

The guide provides descriptions and illustrations of the species and includes scientific name, common name, Spanish name, maximum length, meristics, and geographic range. Includes an illustrated glossary, 38 color plates (with more than 200 individual fish images), and an extensive index.

This book will be a valuable reference for marine scientists, students, and recreational users of the marine environment.

105 pp, paper, index, 38 color plates, 2012
 ISBN-13 . . . 978-1-934874-32-5
 stock 550.70P
 list price \$50
 member price \$35

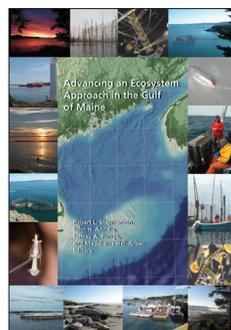


Native Fishes of Idaho
Richard L. Wallace and Donald W. Zaroban

This field guide provides accounts of 44 taxa (species, subspecies, and morphotypes) of fish native to Idaho. Of these, 25 have no defined studies of their distribution or ecological attributes in Idaho. The account for each taxon contains descriptions of the physical attributes, distribution, habitat, diet, ecology, and Idaho conservation status.

Includes color illustrations of species, distribution maps, references, glossary, and index.

213 pp, paper, index, 2013
 ISBN-13 . . . 978-1-934874-35-6
 stock 550.71P
 list price \$50
 member price \$35



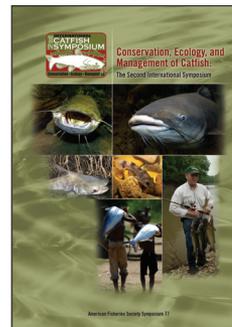
Advancing an Ecosystem Approach in the Gulf of Maine
Robert L. Stephenson, John H. Annala, Jeffrey A. Runge, and Madeleine Hall-Arber, eds.

The Gulf of Maine (GOM) is arguably one of the best studied marine ecosystems in the world. Interest in its physical environment, fisheries, and

Canada/USA boundary have resulted in considerable research attention for more than a century. The GOM is also highly managed by two nations with a commitment to implementing an ecosystem approach to management.

The papers in this book review the management and policy tools and approaches required to implement integrated policy and management in the GOM; synthesize the current ecological and oceanographic understanding of the GOM, and the social, economic, and cultural interactions within the Gulf; assess anthropogenic and external influences on the Gulf ecosystem; and examine the science required to observe and predict changes in the GOM ecosystem, along with strategies to implement an ecosystem approach to management

(SY 79) 415 pp, paper, 2012
 ISBN-13 . . . 978-1-934874-30-1
 stock 540.79P
 list price \$79
 member price \$55



Conservation, Ecology, and Management of Catfish: the Second International Symposium

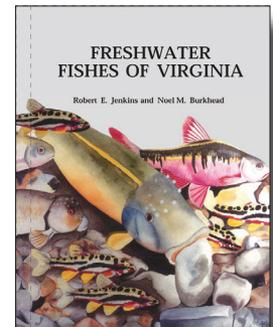
Paul H. Michaletz and Vincent H. Travnicek, eds.

Catfish species occur worldwide and are of increasing interest to anglers, biologists, aquaculturists, aquarists, and conservationists. This book explores the incredible diversity of catfish in size, life history, and ecology.

Catfish provide important sport fisheries and many chapters provide new insights on sampling, population dynamics, and management of these sport fishes. Numerous nongame species of catfish have not been well-studied and this book supplies new information on several of these species, including some that are threatened by habitat degradation and other factors. Several chapters provide insights into the population dynamics and potential management strategies for nonnative catfish populations, some of which have devastated native fish fauna. Other chapters document the large variation in fish movements and habitat use in river systems both within and among catfish species. The last chapter summarizes the state of knowledge of catfish science, and identifies areas for future study.

This book will be a valuable reference for anyone interested in catfish, especially those charged with studying, managing, or conserving these important species-

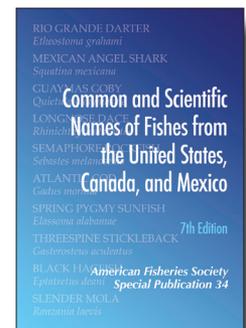
(SY 77) 780 pp, hardcover, 2011
 ISBN-13 . . . 978-1-934874-25-7
 stock 540.77C
 list price \$79
 member price \$55



Freshwater Fishes of Virginia
Robert E. Jenkins and Noel M. Burkhead

Exhaustive treatment of 210 species of Virginia's freshwater ichthyofauna. Introductory chapters on Virginia's natural history, drainages and habitat, biogeography, and endangered species are followed by species accounts within 24 families. An extensive reference list and glossary complete the book. Abundant illustrations, detailed keys, distribution maps, and 40 pages of color plates make this a monumental reference.

1,080 pp, hardcover, 1994
 ISBN-10 0-913235-87-3
 ISBN-13 . . . 978-0-913235-87-4
 stock 550.20C
 list price \$110
 member price \$77



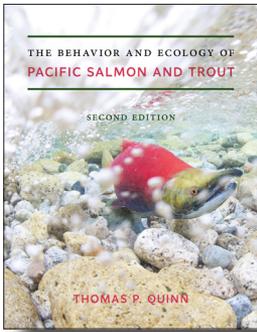
Common and Scientific Names of Fishes from the United States, Canada, and Mexico, Seventh Edition

Lawrence M. Page, Héctor Espinosa-Pérez, Lloyd T. Findley, Carter R. Gilbert, Robert N. Lea, Nicholas E. Mandrak, Richard L. Mayden, and Joseph S. Nelson

This authoritative reference provides an accurate, up-to-date checklist of common and scientific names for all described and taxonomically valid fish species living in fresh and marine waters of North America. This edition reflects numerous taxonomic changes

that have occurred since 2004 and includes 3,875 species and 260 families. Provides the rationale and methodology for common name allocation, history of changes from the previous edition, and extensive references. Also includes Spanish and French names.

Compiled in cooperation with the American Society of Ichthyologists and Herpetologists.
 (SP34), 243 pp, index, hardcover, 2013
 ISBN-13 978-1-934874-31-8
 stock 510.34C
 list price \$60
 member price \$42



The Behavior and Ecology of Pacific Salmon and Trout, 2nd Edition

Thomas P. Quinn

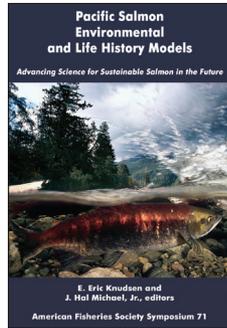
The book combines in-depth scientific information with outstanding photographs and original artwork to fully describe the fish species critical to the Pacific Rim.

This completely revised and updated edition covers all aspects of the life cycle of these remarkable fish in the Pacific: homing migration from the open ocean through coastal waters and up rivers to their breeding grounds; courtship and reproduction; the lives of juvenile salmon and trout in rivers and lakes; migration to the sea; the structure of fish populations; and the importance of fish carcasses to the ecosystem. The book also includes information on salmon and trout transplanted outside their ranges.

Quinn writes with clarity and enthusiasm to interest a wide range of readers, including biologists, anglers, and naturalists. He provides the most current science available as well as perspectives on the past, present, and future of Pacific salmon and trout.

520 pp, paper, index, 2018
 ISBN-13 978-1-934873-33-2
 stock 637.08P
 list price \$60
 member price \$42

HABITAT

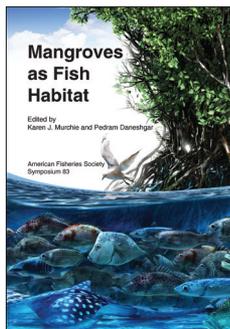


Pacific Salmon Environmental and Life History Models: Advancing Science for Sustainable Salmon in the Future

E. Eric Knudsen and J. Hal Michael, Jr., eds.

Many Pacific salmon and anadromous trout populations are in chronic decline. An important aspect of salmon management is an understanding of the factors that drive salmon population production and the ability to predict run sizes. Advanced simulation methods are needed for better describing and understanding the complex interactions between salmonids and their environment and improved decision making about the effects of human activities on their productivity. This book presents recent progress in modeling tools that have practical application for estimating full production capacity, determining appropriate harvest levels, and providing information essential for habitat remediation.

(SY 71) 464 pp, paper, 2009
 ISBN-13 978-1-934874-09-7
 stock 540.71P
 list price \$69
 member price \$48



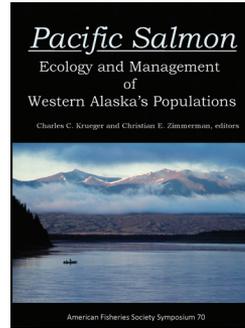
Mangroves as Fish Habitat
Karen J. Murchie and Pedram Daneshgar, eds.

With the continuing destruction of mangrove forests world-wide, their importance to fish populations by providing habitat connectivity, nursery grounds and trophic function is a rapidly expanding research area, and one that is increasingly at the focus of many coastal conservation issues. Based on papers and extended abstracts presented at the 2nd International

Symposium on Mangroves as Fish Habitat in April 2014, this timely book provides an updated look at mangrove-fishery linkages, community ecology and connectivity, ecological services of mangroves, potential impacts from climate change, as well as mangrove restoration success stories.

This volume will provide scientists, policy-makers, educators, and students with a current, concise volume on this topic, providing much needed direction for future efforts.

(SY 83) 148 pp, paper, 2015
 ISBN-13 978-1-934874-42-4
 stock 540.83P
 list price \$79
 member price \$55

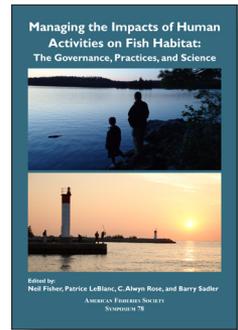


Pacific Salmon: Ecology and Management of Western Alaska's Populations

Charles C. Krueger and Christian E. Zimmerman, eds.

This timely book examines the sustainability of salmon fisheries in the Arctic-Yukon-Kuskokwim (AYK) region of Alaska. With more than 50 chapters, the book assesses the ecological processes that cause change in salmon populations; describes the effects of varying salmon runs on rural communities; reviews state, federal, and international management of salmon fisheries in the region; and examines emerging themes at the nexus of salmon ecology and management in the AYK region.

(SY 70) 1,235 pp, hardcover, index, 2009
 ISBN-13 978-1-934874-11-0
 stock 540.70C
 list price \$69
 member price \$48



Managing the Impacts of Human Activities on Fish Habitat: The Governance, Practices, and Science

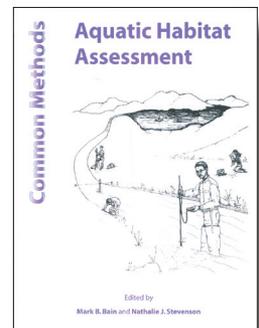
Neil Fisher, Patrice LeBlanc, C. Alwyn Rose, and Barry Sadler, eds.

Fish species and their habitat are under threat from the impact of overfishing, pollution, and development. This book reviews the science, governance, and practice of assessing and managing these impacts, including use of ecosystem-based approaches (EBA).

Describes innovations in use of EBA in managing economic development impacts, and highlights key features and requirements such as the identification of "safe margin" thresholds across spatial scales in support of the long term sustainability of productive capacity of aquatic ecosystems.

The book will be useful to fish habitat scientists and managers, and to all readers concerned about the adverse impact of development on fish and their habitat.

(SY 78) 264 pp, paper, 2015
 ISBN-13 978-1-934874-41-7
 stock 540.78P
 list price \$79
 member price \$55



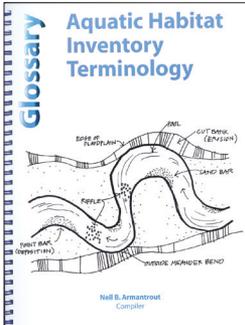
Aquatic Habitat Assessment: Common Methods

Mark B. Bain and Nathalie J. Stevenson, eds.

This manual represents the synthesis of a comprehensive survey of the most widely used methods for inland aquatic habitat assessment in North America. The purpose of this manual is to reduce the variability in approaches to habitat

assessment, while still providing flexibility for selecting practices that vary in effort, cost, precision, and detail.

216 pp, paper, 1999
 ISBN-10 1-888569-18-2
 ISBN-13 978-1-888569-18-6
 stock 550.28P
 list price \$33
 member price \$23

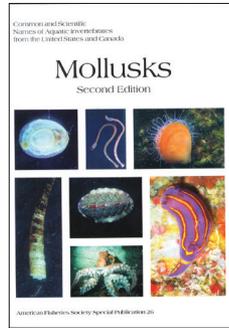


Glossary of Aquatic Habitat Inventory Terminology
 Compiled by Neil B. Armantrout

Contains clear, concise explanations for more than 2,200 aquatic habitat terms. This glossary was developed to encourage the consistent and standard use of terminology used by workers who conduct inventories and analysis of aquatic habitats. Prepared with a broad perspective that recognizes the influence of landscape-level processes on aquatic systems, it includes many terms from the disciplines of remote sensing, meteorology, hydrology, hydraulics, and geomorphology. A valuable resource for researchers, educators, managers, writers, and all others concerned with habitat protection, conservation, and restoration.

136 pp, paper, 1998
 ISBN-10 1-888569-11-5
 ISBN-13 978-1-888569-11-7
 stock 550.25P
 list price \$33
 member price \$23
 BOTH TITLES AS A SET:
 stock 550.30S
 list price \$50
 member price \$35

INVERTEBRATES



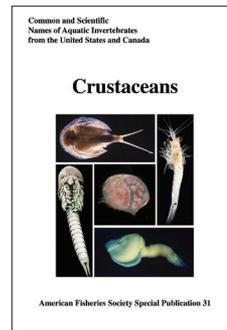
Common and Scientific Names of Aquatic Invertebrates from the United States and Canada: Mollusks, Second Edition
 Donna D. Turgeon et al.

This edition updates the nomenclature to reflect recent phylogenetic analysis, and contains more than 300 new species. Several detailed appendices have been added: changes and additions to the first edition nomenclature, revised lists of endangered and possibly extinct species, a list of nonindigenous species, a general overview of molluscan biology and ecology information, information about collecting and collections, recommendations for guidebooks and keys, and a directory of major North American museum collections. An expanded color portfolio section illustrates the diversity of fauna within this group of invertebrates.

Compiled in cooperation with the Council of Systematic Malacologists and the American Malacological Union, this edition covers the 6,272 marine, freshwater, and terrestrial mollusks of the United States and Canada.

A companion CD-ROM contains the entire text and figures from *Names of Mollusks*, allowing professionals and researchers electronic access to all the data contained in the printed book.

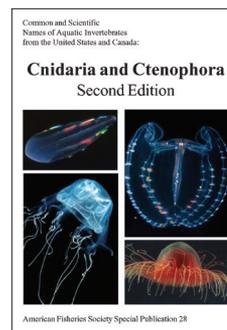
(SP26) 535 pp, paper, 1998
 ISBN10 1-888569-01-8
 ISBN13 978-1-888569-01-8
 stock 510.26P
 list price \$59
 member price \$41



Common and Scientific Names of Aquatic Invertebrates from the United States and Canada: Crustaceans
 Patsy A. McLaughlin, David K. Camp et al.

This edition represents the second edition of the list of decapod crustaceans and the first edition of the list of all other crustacean groups, including terrestrial, freshwater, and marine forms. The list has been greatly expanded to include more than 9,000 species from the United States (now including Hawaiian species) and Canada. Several detailed appendices have been added, including changes and additions to the entries for decapod crustaceans from the first edition and lists of endangered or threatened species, presumably extinct species, and nonindigenous species. The introduction is also expanded to include a detailed description of the diversity within the subphylum Crustacea. This reference was compiled in cooperation with The Crustacean Society.

Includes a companion CD-ROM.
 (SP31), 545 pp, paper, 2005
 ISBN-10 1-888569-64-6
 ISBN-13 978-1-888569-64-3
 stock 510.31P
 list price \$60
 member price \$42



Common and Scientific Names of Aquatic Invertebrates from the United States and Canada: Cnidaria and Ctenophora, Second Edition
 Stephen D. Cairns et al.

This volume (updated since the first edition and now with a CD-ROM) provides a checklist of species and recommends selected common names for North American Cnidaria and Ctenophora, thereby achieving

uniformity and avoiding confusion over common names. In addition to stabilizing common name nomenclature, this list will heighten public awareness of the diversity and wide distribution of cnidarians in North America, help identify taxonomic groups in need of systematic revision, and serve as a preliminary guide to the literature required for the identification of species. This text lists more than 1,300 taxa of jellyfishes, hydroids, corals, anemones, and comb jellies and sets the standard for vernacular names of the more widely known species. This book includes an index, extensive references and bibliography, and annotated changes from the first edition.

BOOK AND CD
 (SP 28), 115 pp + 32 color photos, paper, 2003
 ISBN-10 1-888569-39-5
 ISBN-13 978-1-888569-39-1
 stock 510.28P
 list price \$39
 member price \$27

CD ONLY
 ISBN-10 1-888569-45-X
 ISBN-13 978-1-888569-45-2
 stock 703.12
 list price \$34
 member price \$24

MANAGEMENT



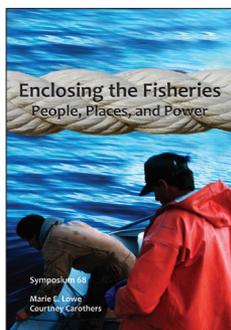
Balancing Fisheries Management and Water Uses for Impounded River Systems
 Micheal S. Allen, Steve Sammons, and Michael J. Maceina, eds.

Professionals from a broad range of disciplines describe both historical and current-day issues associated with balancing fisheries management with other uses of water in impounded systems.

Describes how water allocation issues can present economic and legal constraints to fisheries management and influence fishery quality. Reviews unique ways to approach reservoir management by considering the tools available in the watershed. Additional reservoir management topics addressed include conflict resolution and human dimension issues, new ways to evalu-

ate fish species interactions, stocking programs, prey composition and abundance, and fish habitat.

(SY 62) 697 pp, paper, 2009
 ISBN-13 . . . 978-1-934874-06-6
 stock 540.62P
 list price \$69
 member price \$48



Enclosing the Fisheries: People, Places, and Power
 Marie E. Lowe and Courtney Carothers, eds.

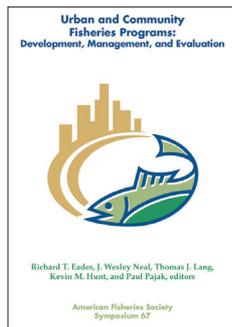
This timely book examines effects of restricted access management in fisheries on people and their communities. Economic logic that guides the limitation and privatization of access rights seeks to address overcapitalization and inefficiencies that result from open-access fisheries. This type of fisheries management, often called rationalization, has gained international common sense appeal. Yet the contested social impacts of restricted access, market-based resource management programs are increasingly documented in academic literature and continue to be a focus of social resistance and mobilization among those who have been displaced, or rationalized out of fishing in this process. The outcomes of ownership consolidation, loss of jobs and income, decreased labor mobility, prohibitive entry costs, loss of fishing rights from small communities and other distributional inequities can be understood broadly as the sociocultural effects of fisheries access restrictions this volume addresses.

(SY 68) 223 pp, index, paper, 2008
 ISBN-13 . . . 978-1-934874-05-9
 stock 540.68P
 list price \$35
 member price \$25

NEW

Managing Centrarchid Fisheries in Rivers and Streams
 Michael J. Siepkar and Jeffrey W. Quinn, eds.

(SY 87) 270 pp, paper, 2019
 stock 540.87P
 list price \$79
 member price \$55

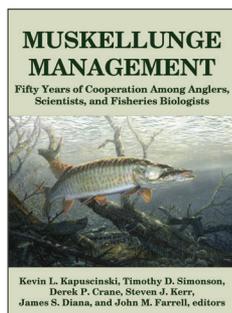


Urban and Community Fisheries Programs: Development, Management, and Evaluation

Richard T. Eades, J. Wesley Neal, Thomas J. Lang, Kevin M. Hunt, and Paul Pajak, eds.

Increasing urban and suburban human populations and declines in fishing participation have reawakened an interest in urban and community fisheries programs. This timely work contains 40 papers presented at the September 2007 "AFS Urban Fishing Symposium." Chapter authors synthesize current research and provide real world examples through case study analysis, review new management techniques, and offer topic insights. The book will appeal to fisheries managers, administrators, park superintendents, academics, researchers, and students.

(SY 67) 464 pp, index, hardcover, 2008
 ISBN-13 . . . 978-1-934874-04-2
 stock 540.67C
 list price \$69
 member price \$48



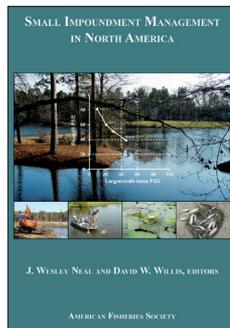
Muskellunge Management: Fifty Years of Cooperation among Anglers, Scientists, and Fisheries Biologists

Derek P. Crane, James S. Diana, John M. Farrell, Kevin L. Kapuscinski, Steven J. Kerr, and Timothy D. Simonson, eds.

Proceedings of the 2016 Hugh C. Becker Memorial Muskellunge Symposium, examining Muskellunge management and research in North America. This book represents the state of the art in our understanding of Muskellunge biology, ecology, and management and is a must-read for anyone studying or managing this iconic species. Readers will benefit from the

latest information on a novel, nonlethal method for sampling contaminants in Muskellunge, how angler-scientist partnerships have enhanced management actions, how genetic tools have improved our understanding of this species, and population-level responses to management actions and outbreak of viral hemorrhagic septicemia.

675 pp, hardcover, 2017
 ISBN-13 . . . 978-1-934874-46-2
 stock 540.85P
 list price \$79
 member price \$55



Small Impoundment Management in North America
 J. Wesley Neal and David W. Willis, eds.

This book is an in-depth overview of biota, habitat, and human management in small water bodies.

Provides a history of pond management, reviews pond resources in the USA and world, and discusses the importance of small impoundments. Addresses proper construction considerations, explores physical and chemical characteristics of these waters, and examines methods to manipulate environmental conditions in small waters. Describes current stocking practices and species selection, addresses proper harvest and assessment, and explores mechanisms involved in population dynamics. Addresses problems arising in small impoundments and provides solutions. Technical aspects of managing small impoundments for wildlife are described in detail.

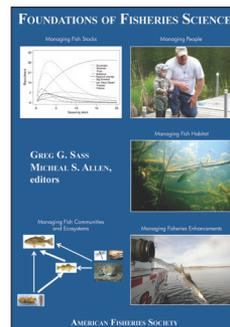
451 pp, index, hardcover, 2012
 ISBN-13 . . . 978-1-934874-34-9
 stock 550.69C
 list price \$79
 member price \$55

NEW

From Catastrophe to Recovery: Stories of Fishery Management Success

Charles C. Krueger, William W. Taylor, and So-Jung Youn, eds.

530 pp est., paper, 2019
 stock 550.80P
 list price \$79
 member price \$55



Foundations of Fisheries Science

Greg G. Sass and Micheal S. Allen, eds.

Foundations of Fisheries Science highlights the classic and critical works associated with fisheries management. With input from fisheries professionals and students from around the world, the editors selected 43 full-text articles along with 30 "honorable mention" citations (with associated abstracts) that have helped to mold the discipline of fisheries science. The selected articles were represented by 21 journals, ranging in discipline from fisheries, ecology, human dimensions, and others.

The book is organized into five sections (1. Managing Fish Stocks, 2. Managing People, 3. Managing Fish Habitat, 4. Managing Fish Communities and Ecosystems, and 5. Managing Fisheries Enhancements), which represent the critical components of fisheries (fish, humans, habitat) and the most common management approaches (regulations, stocking, habitat protection/restoration). Section editors provide insightful commentaries highlighting and summarizing the articles presented in each section.

Foundations of Fisheries Science can be used as a reference, or as a textbook to lead undergraduate and graduate courses and discussions.

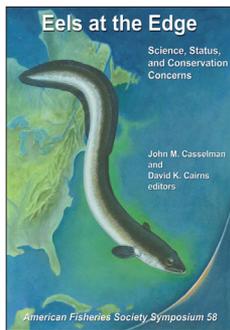
801 pp, hardcover, 2014
 ISBN-13 . . . 978-1-934874-37-0
 stock 550.72C
 list price \$89
 member price \$62

NEW

Marine Artificial Reef Research and Development: Integrating Fisheries Management Objectives

Stephen A. Bortone, ed.

(SY 86) 321 pp, paper, 2019
 stock 540.86P
 list price \$79
 member price \$55

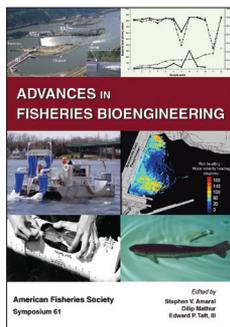


Eels at the Edge: Science, Status, and Conservation Concerns

John M. Casselman and David K. Cairns, eds.

There is a catastrophic worldwide decline of anguillid (freshwater eel) species. World authorities on the three species consider mechanisms for addressing this concern and reversing trends. This book emphasizes recent and new insights into basic biology, resource status, and management procedures. Chapter authors provide innovative approaches to stock assessment and management.

(SY 58) 449 pp, hardcover, 2009
 ISBN-13 . . . 978-1-888569-96-4
 stock \$40.58C
 list price \$69
 member price \$48



Advances in Fisheries Bioengineering

Stephen V. Amaral, Dilip Mathur, and Edward P. Taft, III, eds.

Authors who are leaders in their field examine a wide range of new research associated with fish passage (upstream and downstream), water intake fish protection technologies, sampling technologies, and techniques for assessing fishway performance and migration behaviors, aquaculture, and habitat restoration and enhancement.

(SY 61) 239 pp, paper, 2008
 ISBN-13 . . . 978-1-934874-02-8
 stock \$40.61P
 list price \$69
 member price \$48



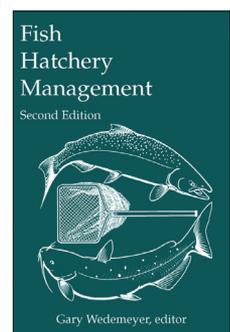
International Governance of Fisheries Ecosystems: Learning from the Past, Finding Solutions for the Future

Michael G. Schechter, Nancy J. Leonard, and William W. Taylor, eds.

Fisheries experts increasingly acknowledge the importance of globalization on local, national, and international fisheries. This book brings together fisheries and governance experts from across the globe who present case studies on a broad spectrum of the internationally shared fisheries that inhabit diverse freshwater and marine ecosystem types.

Case studies provide the biological background of the fisheries resource, including status and threats to the resource and its ecosystem. The case studies review the evolution and current governance institutions of the fisheries resource, with particular focus on international or global institutions. Each study concludes with an evaluation of the effectiveness of the current fisheries governance institutions, and recommendations for changes.

458 pp, paper, 2008
 ISBN-13 . . . 978-1-888569-99-5
 stock \$50.56P
 list price \$69
 member price \$48



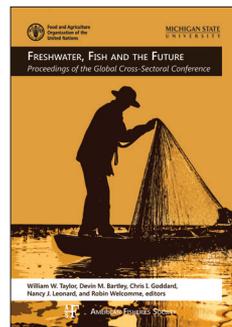
Fish Hatchery Management, Second Edition

Gary A. Wedemeyer, ed.

This second edition expands and updates the original *Fish Hatchery Management*, the preeminent fish culture manual in North America since 1982, which has been used in universities and U.S. Fish and Wildlife training centers nationwide to train new generations of culturists. The new edition has been completely rewritten by experts to include major advances in hatchery

operation, in practical knowledge about raising high-quality fish, and in optimal use of cultured fishes in management programs. This up-to-date volume is greatly needed as a training tool and day-to-day hatchery resource. The new edition covers advances in production, water issues, transportation, stocking, open systems, controlled systems, semi-controlled systems, broodstocks and spawning, nutrition and feeding, fish health, and special considerations. Authors have developed chapters for relevance to both private and public fish culture.

733 pp, paper, 2002
 ISBN-10 1-888569-26-3
 ISBN-13 . . . 978-1-888569-26-1
 stock \$50.40P
 list price \$56
 member price \$39



Freshwater, Fish, and the Future: Proceedings of the Global Cross-Sectoral Conference

William W. Taylor, Devin M. Bartley, Chris L. Goddard, Nancy J. Leonard, and Robin Welcomme, eds.

Inland fish and their fisheries provide important nutritional, economic, cultural, and recreational benefits and are key components of sustainable ecosystem function throughout the world. Based on papers presented during the 2015 Global Conference on Inland Fisheries organized by the UN Food and Agriculture Organization and Michigan State University, the book includes recommendations for improving information, communication, and governance relating to inland aquatic ecosystems and the fisheries and people they support. The book's chapters call for better integration of all the sectors using the world's freshwaters and offer a road-map to ensure inland fisheries continue to provide food security and livelihoods to people today and in the future.

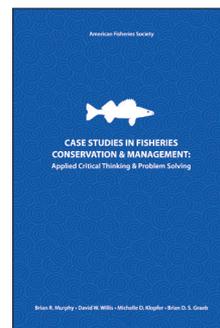
The book assesses the challenges facing inland fisheries worldwide, along with recommendations for addressing them, and provides potential future directions for policy makers, international development organizations, social and biological scientists, and natural resource managers.

351 pp, paper, 2016
 ISBN-13 . . . 978-92-5-109263-7
 stock \$50.76P
 list price \$79
 member price \$55

NEW
Paddlefish: Ecological, Aquacultural, and Regulatory Challenges of Managing a Global Resource

Jason D. Schooley and Dennis L. Scarneccchia, eds.

(SY 88) 290 pp, hardcover, 2019
 stock \$40.88C
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 member price \$55



Case Studies in Fisheries Conservation and Management

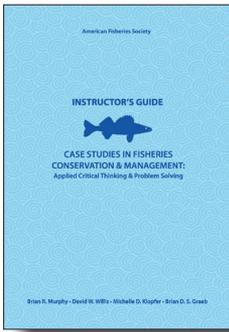
Brian R. Murphy, David W. Willis, Michelle D. Klopfer, and Brian D. S. Graeb

Through more than 30 original case studies related to contemporary conservation and management issues in fisheries, the authors of this new book challenge students to develop critical-thinking and problem-solving skills that will serve them as future natural resources professionals. This compact book will function well as a supplemental fisheries text, or as a stand-alone text for seminars or other courses designed around active learning.

Intended for the instructor who wants to challenge students to go beyond the "information" level of many science texts, these case studies have no "right answers." Many of the cases are presented in a dilemma format, where students are asked to assess information from a variety of sources, find additional information as needed, and propose and evaluate alternative solutions.

Cases are approached from a variety of dimensions (biological, ecological, political, cultural, and socioeconomic) and stakeholder perspectives. Spiral binding allows the student and instructor versions to lie flat for easy reference during classroom discussions and activities.

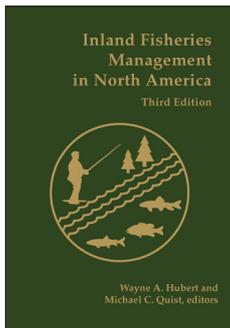
252 pp, paper, 2010
 ISBN-13 . . . 978-1-934874-18-9
 stock \$50.62P
 list price \$50
 member price \$35



Instructor's Guide to Case Studies in Fisheries Conservation and Management
Brian R. Murphy, David W. Willis, Michelle D. Klopfer, and Brian D. S. Graeb

The companion *Instructor's Guide* pairs each case with a detailed set of teaching notes that cover suggested lesson plans, supplemental reference material for instructors not familiar with the case topic, and a companion CD containing case-linked PowerPoints that include all figures and digital images from the cases.

478 pp, paper, 2010
 ISBN-13978-1-934874-19-6
 stock550.63P
 list price \$79
 member price \$55



Inland Fisheries Management in North America, Third Edition
Wayne A. Hubert and Michael C. Quist, eds.

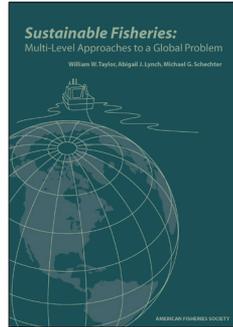
The book describes the conceptual basis and current management practices for freshwater fisheries of North America. This third edition is written by an array of new authors who bring novel and innovative perspectives. The book incorporates recent technological and social developments and uses pertinent literature to support the presented concepts and methods.

Covered topics include the process of fisheries management, fishery assessments, habitat and community manipulations, and the common practices for managing stream, river, lake, and reservoir fisheries. Chapters on history, population dynamics, assessing fisheries, regulation of fisheries, use of hatchery fish, and the process and legal framework of fisheries management are included along with innovative chapters on scales of fisheries management, communication and conflict

resolution, managing undesired and invading species, ecological integrity, emerging multispecies approaches, and use of social and economic information.

The book is intended for use in fisheries management courses for undergraduate or graduate students, as well as for practicing fisheries managers.

738 pp, hardcover, index, 2010
 ISBN-13978-1-934874-16-5
 stock550.60C
 list price \$104
 member price \$73



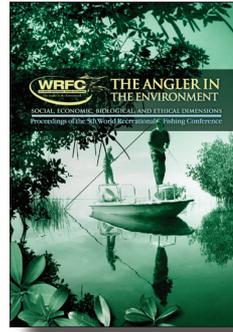
Sustainable Fisheries: Multi-Level Approaches to a Global Problem

William W. Taylor, Abigail J. Lynch, and Michael G. Schechter, eds.

This book presents multi-level approaches to the problem of unsustainable fisheries and provides potential solutions to address it. It discusses the importance of fisheries from a global perspective, describes current fisheries failings, and provides recommendations for more sustainable practices (e.g., food and livelihood security, interdisciplinary approaches, ecosystem-based and community-based management, governance reforms, reduced capacity, and accountability).

The book underscores the urgency of the sustainable fisheries issue, highlights inadequacies of current institutional mechanisms to deal with this global concern, and identifies areas for change.

377 pp, paper, index, 2011
 ISBN-13978-1-934874-21-9
 stock550.64P
 list price \$79
 member price \$55

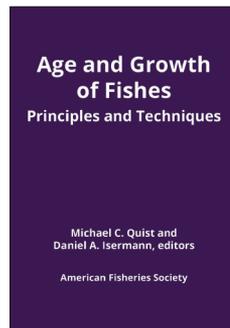


The Angler in the Environment: Social, Economic, Biological, and Ethical Dimensions

T. Douglas Beard, Robert Arlinghaus, and Stephen Sutton, eds.

Based on papers presented at the 5th World Recreational Fishing Conference, this timely book focuses on the interactions between recreational anglers and the aquatic environment. Among the many emerging issues covered in the book are the consequences of various fishing rights for sustainable recreational fisheries; partnership approaches among the recreational fishing industry, managers, and researchers for solving sustainability challenges; biological impacts of recreational fisheries; the ethics of the sport; and innovative survey methods for assessing recreational fisheries.

(SY75), 365 pp, paper, 2011
 ISBN-13978-1-934874-24-0
 stock540.75P
 list price \$79
 member price \$55



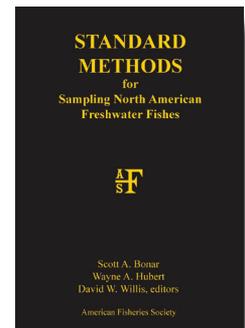
Age and Growth of Fishes: Principles and Techniques
Michael C. Quist and Daniel A. Isermann, eds.

Estimating age structure of fish populations and growth of individuals is fundamental to evaluating fish population demographics and dynamics. This text provides a comprehensive overview of concepts and techniques associated with estimating age and growth of fishes. Although the material presented in the book is applicable to systems around the world, the primary focus is on post-larval fish in North American freshwater systems.

The book is organized into four sections. Chapters in the first section (Chapters 1–2) provide an overview of the history and importance of age and growth information, as well as an introduction to how calcified structures grow. The second section (Chapters 3–5) focuses on validation and verification of structures, choice of structures, and sampling considerations. The third section (Chapters 6–9) provides a discussion of the most common structures used to estimate the age of fish. The last section (Chapters 10–12) details methods for data summarization and analysis.

359 pp, hardcover, 2017
 stock550.78C
 list price \$79
 member price \$55

METHODS

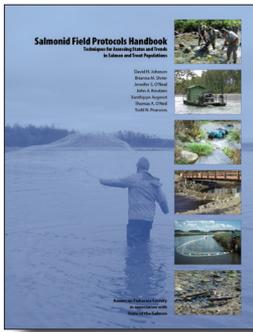


Standard Methods for Sampling North American Freshwater Fishes

Scott A. Bonar, Wayne A. Hubert, and David W. Willis, eds.

This important reference book provides standard sampling methods recommended by the American Fisheries Society for assessing and monitoring freshwater fish populations in North America. Methods apply to ponds, reservoirs, natural lakes, and streams and rivers containing cold and warmwater fishes. Range-wide and ecoregional averages for indices of abundance, population structure, and condition for individual species are supplied to facilitate comparisons of standard data among populations. Provides information on converting nonstandard to standard data, statistical and database procedures for analyzing and storing standard data, and methods to prevent transfer of invasive species while sampling.

318 pp, index, hardcover, 2009
 ISBN-13978-1-934874-10-3
 stock550.59C
 list price \$60
 member price \$42

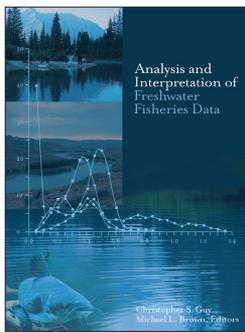


Salmonid Field Protocols Handbook: Techniques for Assessing Status and Trends in Salmon and Trout Populations
David H. Johnson, Brianna M. Shrier, Jennifer S. O'Neal, John A. Knutzen, Xanthippe Augerot, Thomas A. O'Neil, and Todd N. Pearsons

This is the first publication to collect, standardize, and recommend a scientifically rigorous set of field protocols for monitoring and assessing salmon and trout populations. Includes five additional techniques that can be used with any of the 13 principal methods to supplement information gathered.

Standardized monitoring protocols will improve data reliability, maximize opportunities for data sharing and data set comparability, and ultimately improve the ability to assess status and trends. The handbook will also support consistency in data collection for salmonids at the international level.

478 pp, paper, 2007
 ISBN-13 . . . 978-1-888569-92-6
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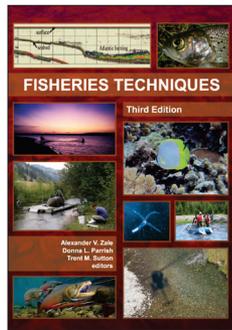
Analysis and Interpretation of Freshwater Fisheries Data
Christopher Guy and Michael Brown, eds.

This long-awaited text is an excellent companion to AFS's *Fisheries Techniques* because it provides a frame of reference for appropriate sample design, analysis, and interpretation of freshwater fisheries data. The chapters are organized by fish and fisheries data types, including recruitment, mortality, biotelemetry, habitat, and predator-prey interactions, within major topic areas, such as population dynamics, fish biology, and community assessment.

Chapters contain subsections describing the data type(s), indices, appropriate and alternative statistical approaches, applications, summary, and references. Statistical tests are nested within chapters to allow the reader to connect analyses to data types. Box examples allow the reader to easily follow the analysis method. The companion CD contains example data sets and programs so the reader can run the analyses, as outlined in the box examples.

The book is appropriate for advanced undergraduate and graduate students and is a practical resource for fisheries professionals. Includes a subject index and glossary.

946 pp, hardcover, with CD-ROM, 2007
 ISBN-10 1-888569-77-8
 ISBN-13 978-1-888569-77-3
 stock \$50.49C
 list price \$98
 member price \$69



Fisheries Techniques, Third Edition
Alexander V. Zale, Donna L. Parrish, and Trent M. Sutton, eds.

The comprehensive instructional and reference volume on fisheries sampling and analysis techniques.

This new edition describes the techniques and approaches used to collect and analyze fisheries samples and data, with a greater emphasis on quantitative techniques and estuarine and marine systems. Most chapters have been rewritten and all have been updated to include recent technological, analytical, and philosophical advances. A comprehensive glossary of terms is included. The book is intended for practicing fisheries professionals, researchers, professors, and advanced undergraduate and graduate students.

1,040 pp, index, hardcover, 2012
 ISBN-13 978-1-934874-29-5
 stock \$50.67C
 list price \$104
 member price \$73



Investigation and Monetary Values of Fish and Freshwater Mollusk Kills
Robert I. Southwick and Andrew J. Loftus, eds.

This book is an update of the widely accepted monetary values of fish that have been published by AFS since 1975 (last updated in 2003 as Special Publication 30). This publication has been adopted as the legal basis for restitution or fines in more than half the states and has been upheld in numerous legal challenges. This current version presents freshwater mussel values that have been substantially refined since their initial appearance in 2003, and updates the comprehensive methods for assessing fish kills and freshwater mussel kill events.

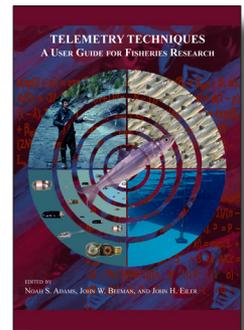
Tables containing updated replacement cost values for most major fish species that are cultured and for freshwater mussel species in the USA are included. This book is a must for anyone involved with fish or freshwater mussel kills, propagation, and water pollution policy.

(SP 35) 165 pp., paper, 2017
 stock 510.35P
 list price \$79
 member price \$55

tagging, acoustic tags and arrays, radio telemetry, chemical and biological markers, and archival and pop-up satellite tags.

This book will be appreciated by both fisheries scientists and managers for its coverage of many of the important advances in fish tagging technologies of the past two decades, the methods used to analyze data generated by these technologies, and the underlying management needs and objectives that only fish marking and tagging can fulfill.

(SY 76) 560 pp, hardcover, 2012
 ISBN-13 978-1-934874-27-1
 stock \$40.76C
 list price \$79
 member price \$55



Telemetry Techniques: A User Guide for Fisheries Research
Noah S. Adams, John W. Beeman, and John H. Eiler, eds.

Telemetry provides a powerful and flexible tool for studying fish and other aquatic animals, and its use has become increasingly commonplace. However, telemetry is gear intensive and typically requires more specialized knowledge and training than many other field techniques. As with other scientific methods, collecting good data is dependent on an understanding of the underlying principles behind the approach, knowing how to use the equipment and techniques properly, and recognizing what to do with the data collected.

Topics include acoustic or radio telemetry study design, tag implantation techniques, radio and acoustic telemetry principles and case studies, and data management and analysis.

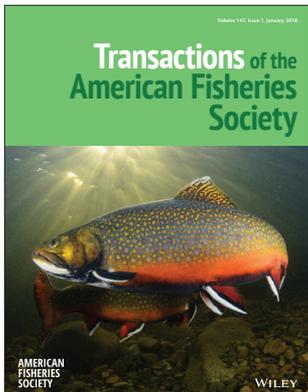
518 pp, hardcover, 2012
 ISBN-13 978-1-934874-26-4
 stock \$50.68C
 list price \$79
 member price \$55



Advances in Fish Tagging and Marking Technology
Jeremy McKenzie, Bradford Parsons, Andrew Seitz, R. Keller Kopf, Matthew Mesa, and Quinton Phelps, eds.

Fish marking and tracking is a fundamental tool for fisheries management and research. In recent years the technologies and analytical procedures available for marking and monitoring fisheries have evolved. The 31 chapters in this volume include papers on integrated approaches, conventional

JOURNALS & MAGAZINE SUBSCRIPTIONS



Transactions of the American Fisheries Society

D. Aday, editor-in-chief

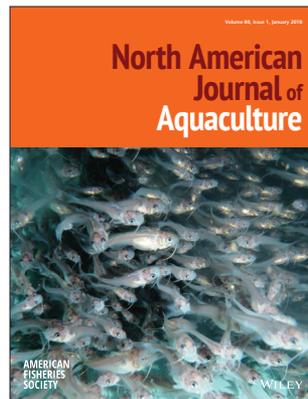
Published bimonthly in paper and online formats. Free online access for AFS members. ISSN 0002-8487



North American Journal of Fisheries Management

D. Daugherty, editor-in-chief

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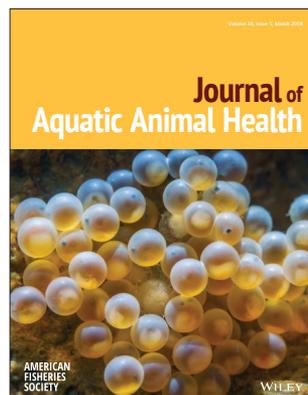


North American Journal of Aquaculture

C. C. Kohler and R. M. Harrell, eds.

Published quarterly in paper and online formats. (Formerly published as *The Progressive Fish-Culturist*.) Free online access for AFS members. ISSN 1522-2055

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Journal of Aquatic Animal Health

P. Gaunt and J. C. Wolfe, eds.

Published quarterly in paper and online formats. Free online access for AFS members. ISSN 0899-7659

Nonmember	
online	\$496
both paper and online	\$620



Fisheries

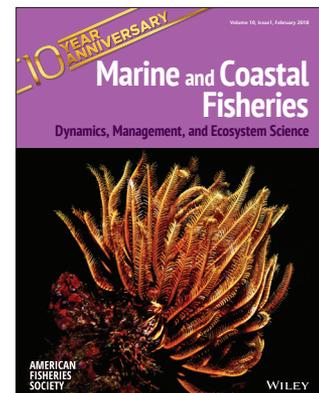
J. Schaeffer, editor-in-chief

Published monthly. Free online access for AFS members. ISSN 0363-2415

Library subscriptions include the Society's four journals and Fisheries magazine.

- *Transactions of the American Fisheries Society*
- *North American Journal of Fisheries Management*
- *North American Journal of Aquaculture*
- *Journal of Aquatic Animal Health*
- *Fisheries*, the Society's monthly magazine

online	\$1,973
both paper and online	\$2,467



Marine and Coastal Fisheries: Dynamics, Management, and Ecosystem Science

D. Murie, editor-in-chief

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