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# Texas Aquatic Science River Books Sponsored By The Meadows Center For Water And The Environment Texas State University

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 Fuld Ret over Stemmesedlen. Betænkning afgivet af Frit Danmarks "Valglovsudvalg".  
 Freshwater Fishes of Texas  
 Where the Water Goes  
 Sustainability of Engineered Rivers In Arid Lands

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**Let There Be Water** Texas A&M University Press

This book is designed to provide concepts, methodologies, and approaches for river basin studies with respect to water resources and environment. The book is not limited to the Yamuna River basin, but will help in the study of various other river basins for integrated water resources management. The book covers the

essential components of integrated water resources management, including analysis of climatic variables, climate change detection, analysis of natural resources, geology, geomorphology, socio-economics, water budgeting, flood estimation, river pollution, etc. Furthermore, the book addresses recent issues pertaining to water quality, water quality indices, environmental flows, water resources management through cropping pattern change, etc. along with methodologies and application to the Yamuna River system. However, the main objective of this book is to address important issues of water resources

management of river basins. Audience: The manuscript has been designed so that it can be used as a reference for river basin studies. The book will be useful to engineers, agricultural scientists, environmentalists, planners, managers, and administrators who are concerned with water resources.

### **Concepts of Biology** Bantam

The San Marcos springs have flowed for around ten million years. In this ode to the river they form, Jim Kimmel brings us a picture of a watercourse brimming with life, past and present. Native, non-native, prehistoric, and modern-day plants, animals, and people have inhabited the

river and its banks. Kimmel touches on them all with the affectionate and knowledgeable voice of one whose own life has been closely linked to the San Marcos. As readers journey with Kimmel from the river's headwater springs to its junction with the Guadalupe River, *The San Marcos: A River's Story* will capture the imagination and provide valuable information about the river and its crucial role in the ecological health of Texas. Original photographs by Jerry Touchstone Kimmel add a sense of the beauty and complexity of the river.

*The Great Lakes Water Wars* IGI Global  
In ten impassioned essays, veteran Texas environmental advocates and conservation professionals step outside their roles as lawyers, lobbyists, administrators, consultants, and researchers to write about water. Their personal stories of what the springs, rivers, bottomlands, bayous, marshes, estuaries, bays, lakes, and reservoirs mean to them and to our state come alive in the landscape photography of Charles Kruvand. Allied with the Texas Living Waters Project (a joint education and policy initiative of the Lone Star Chapter of the Sierra Club, the National Wildlife Federation, and the Environmental Defense Fund, among others), editor Ken Kramer joins his fellow activists in a call to keep rivers flowing, to protect wildlife habitat, and to save tax dollars by using water efficiently and sustainability. **INSIDE THIS BOOK:** Introduction: the Living Waters of Texas—Ken Kramer Where the First Raindrop Falls—David K.

Langford Springing to Life: Keeping the Waters Flowing—Dianne Wassenich Hooked on Rivers—Myron J. Hess Falling in Love with Bottomlands: Waters and Forests of East Texas—Janice Bezanson On the Banks of the Bayous: Preserving Nature in an Urban Environment—Mary Ellen Whitworth A Taste of the Marsh—Susan Raleigh Kaderka Bays and Estuaries of Texas: An Ephemeral Treasure?—Ben F. Vaughan III Rio Grande: Fragile Lifeline in the Desert—Mary E. Kelly Leaving a Water Legacy for Texas—Ann Thomas Hamilton Texas Water Politics: Forty Years of Going with the Flow—Ken Kramer **Dead in the Water** Macmillan Science Be Dammed is an alarming reminder of the high stakes in the management—and perils in the mismanagement—of water in the western United States. It seems deceptively simple: even when clear evidence was available that the Colorado River could not sustain ambitious dreaming and planning by decision-makers throughout the

twentieth century, river planners and political operatives irresponsibly made the least sustainable and most dangerous long-term decisions. Arguing that the science of the early twentieth century can shed new light on the mistakes at the heart of the over-allocation of the Colorado River, authors Eric Kuhn and John Fleck delve into rarely reported early studies, showing that scientists warned as early as the 1920s that there was not enough water for the farms and cities boosters wanted to build. Contrary to a common myth that the authors of the Colorado River Compact did the best they could with limited information, Kuhn and Fleck show that development boosters selectively chose the information needed to support their dreams, ignoring inconvenient science that suggested a more cautious approach. Today water managers are struggling to come to terms with the mistakes of the past. Focused on both science and policy, Kuhn and Fleck unravel the tangled web that has constructed the current crisis. With key decisions being made now, including negotiations for rules governing how the Colorado River water will be used after 2026, *Science Be Dammed* offers a clear-eyed path forward by looking back. Understanding how mistakes were made is crucial to understanding our contemporary problems. *Science Be Dammed* offers important lessons in the age of climate change about the necessity of seeking out the best science to support the decisions we make.

*Replenish* Island Press

The Rio Grande was ancient long before the first humans reached its banks. These days, the highly regulated river looks nothing like it did to those early settlers. Alternately viewed as a valuable ecosystem and life-sustaining foundation of community welfare or a commodity to be engineered to yield maximum economic benefit, the Rio Grande has brought many advantages to those who live in its valley, but the benefits have come at a price. This study examines human interactions with the Rio Grande from prehistoric time to the present day and explores what possibilities remain for the desert river. From the perspectives of law, development, tradition, and geology, the authors weigh what has been gained and lost by reining in the Rio Grande. *The Pig Book* Texas A&M University Press Water supports three basic pillars of our life and survival: safety, security, and sustainability. Hence, it is extremely important to revisit the fundamental characteristics of water in order to discover additional information and the

characteristics water has that will help uncover pathways to support the United Nations Sustainable Development Goals (UN SDG) to reduce inequality and make cities and human settlements more inclusive, safe, resilient, and sustainable. Clean water is a critical component to meet such goals. While the fundamental physical and chemical properties of water continue to reveal new aspects, it is critical that we review these properties in the context of several recent applications and by case studies. The *Handbook of Research on Water Sciences and Society* provides the basics of water science, ways to sense/detect and mitigate contaminants, several regional case studies, and societal aspects of water, including the human right to access water. The book serves as a comprehensive knowledge base on the latest fundamental and applied research and scientific innovations regarding the relationships between society and water resources, safe and sustainable use of water, watershed stewardship, industrial application, and public health awareness. Covering a wide range of topics, it is an ideal resource for researchers, professionals, policymakers, scientists, practitioners, instructors, and students.

*Of Texas Rivers and Texas Art* Texas A&M University Press

The federal government wastes your tax dollars worse than a drunken sailor on shore leave. The 1984 Grace Commission uncovered that the Department of Defense spent \$640 for a toilet seat and \$436 for a hammer. Twenty years later things weren't much better. In 2004, Congress spent a record-breaking \$22.9 billion dollars of your money on 10,656 of their pork-barrel projects. The war on terror has a lot to do with the record \$413 billion in deficit spending, but it's also the result of pork over the last 18 years the likes of: - \$50 million for an indoor rain forest in Iowa - \$102 million to study screwworms which were long ago eradicated from American soil - \$273,000 to combat goth culture in Missouri - \$2.2 million to renovate the North Pole (Lucky for Santa!) - \$50,000 for a tattoo removal program in California - \$1 million for ornamental fish research Funny in some instances and jaw-droppingly stupid and wasteful in others, *The Pig Book* proves one thing about Capitol Hill: pork is king! **The San Marcos** Deep Vellum Publishing No natural resource issue has greater significance for the future of Texas than water. The state's demand for water for municipal, industrial, agricultural, and recreational uses continues to grow exponentially, while the supply from

rivers, lakes, aquifers, and reservoirs is limited. To help Texans manage their water resources today and plan for future needs, one of Texas's top water experts has compiled this authoritative overview of water issues in Texas. Water in Texas covers all the major themes in water management and conservation: Living with a Limited Resource The Molecule that Moves Mountains A Texas Water Journey The Gulf Shores of Texas Who's Who in Water Texas Water Law: A Blend of Two Cultures Does Texas Have Enough Water? Planning for the Future What's in Your Water? How Much is Water Worth? Water is Our Legacy Illustrated with color photographs and maps, Water in Texas will be the essential resource for landowners, citizen activists, policymakers, and city planners.

**Secrets of Snakes** University of Texas Press

WINNER OF THE PULITZER PRIZE • Winner of The New York Public Library's Helen Bernstein Book Award • "A new classic of science reporting."—The New York Times The riveting true story of a small town ravaged by industrial pollution, Toms River melds hard-hitting investigative reporting, a fascinating scientific detective story, and an unforgettable cast of characters into a sweeping narrative in the tradition of *A Civil Action*, *The Emperor of All Maladies*, and *The Immortal Life of Henrietta Lacks*. One of New Jersey's seemingly innumerable quiet seaside towns, Toms River became the unlikely setting for a decades-long drama that culminated in 2001 with one of the largest legal settlements in the annals of toxic dumping. A town that would rather have been known for its Little League World Series champions ended up making history for an entirely different reason: a notorious cluster of childhood cancers scientifically linked to local air and water pollution. For years, large chemical companies had been using Toms River as their private dumping ground, burying tens of thousands of leaky drums in open pits and discharging billions of gallons of acid-laced wastewater into the town's namesake river. In an astonishing feat of investigative reporting, prize-winning journalist Dan Fagin recounts the sixty-year saga of rampant pollution and inadequate oversight that made Toms River a cautionary example for fast-growing industrial towns from South Jersey to South China. He tells the stories of the pioneering scientists and physicians who first identified pollutants as a cause of cancer, and brings to life the everyday heroes in Toms River who struggled for justice: a young boy whose cherubic smile belied the fast-growing

tumors that had decimated his body from birth; a nurse who fought to bring the alarming incidence of childhood cancers to the attention of authorities who didn't want to listen; and a mother whose love for her stricken child transformed her into a tenacious advocate for change. A gripping human drama rooted in a centuries-old scientific quest, *Toms River* is a tale of dumpers at midnight and deceptions in broad daylight, of corporate avarice and government neglect, and of a few brave individuals who refused to keep silent until the truth was exposed. NAMED ONE OF THE BEST BOOKS OF THE YEAR BY NPR AND KIRKUS REVIEWS "A thrilling journey full of twists and turns, *Toms River* is essential reading for our times. Dan Fagin handles topics of great complexity with the dexterity of a scholar, the honesty of a journalist, and the dramatic skill of a novelist."—Siddhartha Mukherjee, M.D., author of the Pulitzer Prize-winning *The Emperor of All Maladies* "A complex tale of powerful industry, local politics, water rights, epidemiology, public health and cancer in a gripping, page-turning environmental thriller."—NPR "Unstoppable reading."—The Philadelphia Inquirer "Meticulously researched and compellingly recounted . . . It's every bit as important—and as well-written—as *A Civil Action* and *The Immortal Life of Henrietta Lacks*."—The Star-Ledger "Fascinating . . . a gripping environmental thriller."—Kirkus Reviews (starred review) "An honest, thoroughly researched, intelligently written book."—Slate "[A] hard-hitting account . . . a triumph."—Nature "Absorbing and thoughtful."—USA Today

**Coastal Lagoons** Texas A&M University Press

"One of the world's great karstic aquifer systems, the Edwards aquifer system supplies water for more than 2 million people and for agricultural, municipal, industrial, and recreational uses. This volume reviews the current state of knowledge, current and emerging challenges to wise use of the aquifer system, and some technologies that must be adopted to address these challenges"--*Conservation of Freshwater Fishes* Springer Science & Business Media "Nothing is more important to life than water, and no one knows water better than Sandra Postel. *Replenish* is a wise, sobering, but ultimately hopeful book." --Elizabeth Kolbert "Remarkable." --New York Times Book Review "Clear-eyed treatise...Postel makes her case eloquently." --Booklist, starred review "An informative, purposeful argument." --Kirkus We spend billions of dollars on

irrigation, dams, sanitation plants, and other feats of engineering to control water for our own prosperity. What if the answer was not control, but replenishment? Sandra Postel takes readers around the world to explore water projects that work with, rather than against, nature's rhythms. Forest rehabilitation is safeguarding drinking water, farmers are planting cover crops to reduce polluted runoff, and "sponge cities" are capturing rainwater to curb urban flooding. Postel argues that efforts like these will be essential as we adjust to a hotter, wilder climate. Will we continue to fight the water cycle, endangering ourselves and the planet, or recognize our place in it and take advantage of the inherent services nature offers?

**The Water Knife** Univ of TX + ORM

"Living in Water" is a classroom-based, scientific study of water, aquatic environments, and the plants and animals that live in water. The lessons in this curriculum integrate basic physical, biological, and earth sciences, and mathematics. The integration of language arts is also considered essential to its success. These lessons do not require a water monitoring program or access to an aquatic habitat, although it includes suggested field experiences for students. Several themes run throughout the curriculum, including control of variables in the design of valid experiments, the usefulness of models in understanding natural systems, application of knowledge in the design and testing of models, the collection and manipulation of numerical data, and identification of things using classification based on common characteristics. The curriculum is divided into six sections: (1) Living in Water: Aquatic Habitats-Freshwater, Estuarine, and Marine; (2) Things Dissolve in Water; (3) Temperature Changes and Aquatic Habitats; (4) Moving or Staying Put: Maintaining Position within Aquatic Habitats; (5) Light in Water; and (6) Wrapping It Up: Projects and Programs. Each section presents science content information as well as student activities. Lessons use various approaches and instructional strategies. (WRM)

**River Republic** Texas A&M University Press

"Come with us to learn about a great Texas river ... We will explore ... camp on its banks ... and look for places of excitement, beauty and learning - some of them surprising." From its ancient headwaters on the semiarid plains of eastern New Mexico to its mouth at the Gulf of Mexico, the Brazos River carves a huge and paradoxical crescent through



Texas geography and history.

[Paddling the Guadalupe](#) Rowman & Littlefield

Riparian areas—transitional zones between the aquatic environments of streams, rivers, and lakes and the terrestrial environments on and alongside their banks—are special places. They provide almost two hundred thousand miles of connections through which the waters of Texas flow. Keeping the water flowing, in as natural a way as possible, is key to the careful and wise management of the state's water resources. Texas Riparian Areas evolved from a report commissioned by the Texas Water Development Board as Texas faced the reality of over-allocated water resources and long-term if not permanent drought conditions. Its purpose was to summarize the characteristics of riparian areas and to develop a common vocabulary for discussing, studying, and managing them. To learn more about The Meadows Center for Water and the Environment, sponsors of this book's series, please click [here](#). *Handbook of Research on Water Sciences and Society* Columbia University Press Incorporating seven years of photography and research, Krista Schlyer portrays life along the Anacostia River, a Washington, DC, waterway rich in history and biodiversity that has nonetheless lingered for years in obscurity and neglect in our nation's capital. *River of Redemption* offers an experience of the river that reveals its eons of natural history, centuries of destruction, and decades of restoration efforts. The story of the Anacostia echoes the story of rivers across America. Inspired by Aldo Leopold's classic book, *A Sand County Almanac*, Krista Schlyer evokes a consciousness of time and place, taking readers through the seasons in the watershed as well as through the river's complex history and ecology. As with rivers nationwide, the ways we've changed the Anacostia affect the people and wildlife that inhabit its shores, from the headwaters in Maryland, past its confluence with the Potomac River, and ultimately to the Chesapeake Bay. Centuries of abuse at the hands of people who have altered the landscape and mistreated the waterway have transformed it into a polluted, toxic soup unfit for swimming or fishing. The forgotten river is both a reminder of the worst humanity can do to the natural landscape and a wellspring of memory that offers a roadmap back to health and well-being for watershed residents, human and non-human alike. Blending stunning photography with informative and poignant text, *River of Redemption* offers

the opportunity to reinvent our role in urban ecology and to redeem our relationship with this national river and watersheds nationwide.

[Science Be Dammed](#) Penguin

Containing habitat information, physical descriptions, photographs, and range maps for more than 150 species of freshwater fishes that can be found in Texas, this field guide is an indispensable reference and research tool for ichthyologists, professional fisheries biologists, amateur naturalists, and anglers alike. The introductory section offers an illustrated guide to the common counts and measurements used for fish identification; a brief explanation of fish phylogeny; and a scientific key to help identify the fish families in Texas. The book includes species accounts of native and introduced fishes found in the freshwaters of Texas. Each account covers the physical characteristics, habitat, and distribution of the fish, with additional comments of interest or importance to its life history and conservation status. With the largest collection to date of color photographs, including various color phases (breeding and non-breeding colors), the book also includes range maps within the species accounts. The closing pages of the book feature a glossary and reference section. In a time when the state's water resources are beset by issues growing in both number and complexity, this book provides information for professionals and policy makers. It also contributes to the natural history education of the public. To learn more about The Meadows Center for Water and the Environment, sponsors of this book's series, please click [here](#).

[Cadillac Desert](#) Geological Society of America

New York Times and Los Angeles Times Bestseller! As every day brings urgent reports of growing water shortages around the world, there is no time to lose in the search for solutions. The U.S. government predicts that forty of our fifty states-and 60 percent of the earth's land surface-will soon face alarming gaps between available water and the growing demand for it. Without action, food prices will rise, economic growth will slow, and political instability is likely to follow. *Let There Be Water* illustrates how Israel can serve as a model for the United States and countries everywhere by showing how to blunt the worst of the coming water calamities. Even with 60 percent of its country made of desert, Israel has not only solved its water problem; it also had an abundance of water. Israel even supplies water to its neighbors-the Palestinians and the

Kingdom of Jordan-every day. Based on meticulous research and hundreds of interviews, *Let There Be Water* reveals the methods and techniques of the often offbeat inventors who enabled Israel to lead the world in cutting-edge water technology. *Let There Be Water* also tells unknown stories of how cooperation on water systems can forge diplomatic ties and promote unity. Remarkably, not long ago, now-hostile Iran relied on Israel to manage its water systems, and access to Israel's water know-how helped to warm China's frosty relations with Israel. Beautifully written, Seth M. Siegel's *Let There Be Water* is an inspiring account of the vision and sacrifice by a nation and people that have long made water security a top priority. Despite scant natural water resources, a rapidly growing population and economy, and often hostile neighbors, Israel has consistently jumped ahead of the water innovation-curve to assure a dynamic, vital future for itself. Every town, every country, and every reader can benefit from learning what Israel did to overcome daunting challenges and transform itself from a parched land into a water superpower.

*A Thirsty Land* University of Arizona Press For more than forty years, Wayne H. McAlister has canoed the Guadalupe River, sometimes called the "top recreational river in Texas." In *Paddling the Guadalupe*, he guides readers down this 400-mile river whose waters spring from the limestone of the Hill Country in Kerr County, meander across the broad Coastal Plain, and finally empty into the Gulf of Mexico at San Antonio Bay. With the expertise of a life and career immersed in nature, he introduces readers to the places, people, plants, and animals—large and small, aquatic and terrestrial—that depend on the Guadalupe for either their livelihoods or their existence. With affection and humor (and sometimes aggravation), he wryly comments on the development and human activity along the river's course, from the headwaters west of Kerrville to its mouth near Tivoli, just east of Refugio. For the traveler, either on the river or along its course, McAlister's knowledge of the grists, sawmills, dams, bridges, swimming holes, and reservoirs bring the history of familiar towns—Comfort, Canyon Lake, New Braunfels, Seguin, Gonzales, Cuero, and Victoria among them—to life. His love of the natural world, which shares the river's bounty, will inspire and enhance anyone's experience of the Guadalupe, from the serious canoer to the family vacationer. Photographs taken over many years provide an intimate perspective, and sixteen maps help orient

those interested in getting to know the river on a more personal basis. To learn more about The Meadows Center for Water and the Environment, sponsors of this book's series, please [click here](#). *Multispecies and Watershed Approaches to Freshwater Fish Conservation* Cambridge University Press

New York Times bestselling author Denise Swanson returns to the beloved town of Scumble River and its quirky townsfolk with *Dead in the Water*. First in a newly revamped cozy mystery series, *Dead in the Water* is a gripping mystery that won't let you go until you've turned the last page. A twister, a kidnapping, and a murder—oh my! Scumble River may never be the same. Welcome back to Scumble River! Perfect for fans of Kate Carlisle and Ellery Adams For readers of cozy mysteries and small-town cozy fiction For school psychologist Skye Denison, there's certainly no place like home. When a violent tornado shakes up the small river town, she can't see how the community

will ever recover—especially since town councilman Zeke Lyons appears to have perished in the twister. But things get even worse for Skye when her police chief husband, Wally, disappears in the midst of investigating Zeke's death. Did Zeke really die in the storm, or was he the victim of an un-welcome murder? And could Wally be next on the criminal's hit list? As evidence arises pointing to foul play, Skye will have to jump into this seemingly dead-end investigation to save her husband and her town.

Toms River St. Martin's Griffin

"Wonderfully written...Mr. Owen writes about water, but in these polarized times the lessons he shares spill into other arenas. The world of water rights and wrongs along the Colorado River offers hope for other problems." —Wall Street Journal An eye-opening account of where our water comes from and where it all goes. The Colorado River is an essential resource for a surprisingly large part of the United States, and every gallon that flows down it is owned or claimed by someone.

David Owen traces all that water from the Colorado's headwaters to its parched terminus, once a verdant wetland but now a million-acre desert. He takes readers on an adventure downriver, along a labyrinth of waterways, reservoirs, power plants, farms, fracking sites, ghost towns, and RV parks, to the spot near the U.S.-Mexico border where the river runs dry. Water problems in the western United States can seem tantalizingly easy to solve: just turn off the fountains at the Bellagio, stop selling hay to China, ban golf, cut down the almond trees, and kill all the lawyers. But a closer look reveals a vast man-made ecosystem that is far more complex and more interesting than the headlines let on. The story Owen tells in *Where the Water Goes* is crucial to our future: how a patchwork of engineering marvels, byzantine legal agreements, aging infrastructure, and neighborly cooperation enables life to flourish in the desert—and the disastrous consequences we face when any part of this tenuous system fails.