

Ecological Restoration

Volume 42, Number 4



December 2024

Editorial

249

Using Ecological Restoration to Aid Native Forests Afflicted by Invasive Pests

Scott R. Abella

PERSPECTIVE

Grassland Vegetation Response to a Decade of Ecological Restoration in an Urban Park in Central Texas

251

Amy L. Concilio, C. Eric Johnson, Laurel R. Tashjian and Camille A. Dedeaux

RESTORATION NOTES

Seed-based Production of Salt Meadow Cordgrass, *Spartina patens*, for Ecological Restoration

264

Anna Bartholet, Nicole M. Kollars and A. Randall Hughes

Review of Florida's Mosquito Control Impoundments for Natural Nursery of *Ruppia maritima*

267

Hyun J. Cho, Jonathan Linder, Bridget Coffey-Picco, Providence Pangira and Kelly M. San Antonio

RESEARCH ARTICLE

Effect of Invasive Plant Removal on the Density of *Peromyscus sonoriensis* in Point Reyes National Seashore, California, USA

271

Jonathan P. Rose, Lorraine S. Parsons, Patrick M. Kleeman and Brian J. Halstead

DESIGN APPROACHES TO ECOLOGICAL RESTORATION

Dam Good: Designing a Low-Impact Diversion Structure on the Cache la Poudre River

284

Bernadette Kuhn, Beck Anderson, Micah Warners, Julie Ash, Johannes Beeby and Travis Stroth

COMMENTARY

Nature-Based River Restoration Amidst Constraints: Balancing River Ecosystems and Consumptive Water Uses on a Western USA River

290

Ellen Wohl

ABSTRACTS

Climate Change	293	Propagation and Introduction	295
Coastal and Marine Communities	293	Reclamation, Rehabilitation and Remediation	296
Ecological Design	293	Species at Risk	296
Economics and Ecosystem Services	294	Technology and Tools	296
Grasslands	294	Traditional and Local Knowledge	297
Invasive and Pest Species	294	Wetlands	297
Lakes, Rivers and Streams	295	Wildlife Habitat Restoration	297
Other Communities	295	Woodlands	298

REVIEW

Book Review

Rewilding the Urban Frontier: River Conservation in the Anthropocene

299

Edited by Greg Gordon, Reviewed by David Robertson

MEETINGS

301



Front Cover Feature:

The sun rises over a restored grassland community at Commons Ford Ranch Metropolitan Park in Austin, Texas. Since 2010, a combination of herbicide treatments, prescribed fires, woody plant removal, and native plants have been used to reduce cover of *Prosopis glandulosa* and invasive grasses. Image credit: Amy Concilio

Back Cover Features:

Top: Wind ripples through *Spartina patens* (foreground) in a Connecticut salt marsh. *Spartina* species are desirable materials for marsh restoration, but local production is limited by a lack of established germination protocols. Bartholet et al. documented successful seed storage and stratification methods for *S. patens* from different sites in Massachusetts. Their findings assist capacity building for localized procurement of *S. patens*. Image credit: Anna Bartholet

Middle: The radicle of a *Ruppia maritima* (wigeongrass) emerges from seed collected at Merritt Island National Wildlife Refuge (MINWR), Florida. Coastal impoundments offer a protected and controlled backwater system for submerged aquatic vegetation (SAV) to grow. Cho et al. consider whether these sites might serve as seed nurseries to increase *Ruppia* populations connected to the impoundments. Image credit: Khanyisile Tshabalala

Bottom: A drone views visitors in 2023 at the Cache la Poudre River following a restoration at Colorado State University. The project protects an instream flow water right valued at \$220 million and illustrates a hybridization of ecological restoration and diversion design. Image credit: Ryan McConnell (J-2 Contracting)