Ecological Restoration

	Volume 29, Number 4		December 2011
	SER Editorial Perspectives Steve Whisenant		319
	Editorial A Seed Op-Ed Steven N. Handel		320
R	ESTORATION NOTES New Approaches to Enhance Eco-Resto Critical Research Needs and Future Pro Vimal Chandra Pandey, Kripal Singh, and		322
	Thinning Promotes the Restoration of H Holter Ridge Thinning Study <i>Christopher Keyes</i>	Redwood Branch Structure at Redwood National Park's	325
	The Effects of Carbon Amendments on Brenda Molano-Flores and Helen Mlynarsk	Growth and Reproduction of a Prairie Plant	327
	Assessing Urban Wetland Soils for Reed William M. Bartodziej, Simba Blood, and	l Canary Grass Management (Minnesota) Jake Lindeman	329
4	RTICLES Assessing Competition Between Reed C and Swamp White Oak (Quercus bicolor Carrie Reinhardt Adams, Philip J. Kauth, a	r) .	332
	An Outcrossing Reciprocity Study Betw Robert Tompkins, William C. Stringer, and	veen Big Bluestem (<i>Andropogon gerardii</i>) Populations in t ! <i>William C. Bridges, Jr.</i>	the Carolinas 339
	Control of Invasive Japanese Fern (<i>Lygo</i> During Restoration of a Disturbed Lon Kimberly K. Bohn, Patrick J. Minogue, and	· ·	346
	Burning More Effective than Mowing in Carl W. Weekley, Eric S. Menges, Dawn Ber	n Restoring Florida Scrub rry-Greenlee, Marcia A. Rickey, Gretel L. Clarke, and Stacy A. Sn	357 nith
	Smooth Brome (<i>Bromus inermis</i>) in Tall Future Research Directions <i>Meredith Thomsen and Jessica Bolwahn Sal</i>	grass Prairies: A Review of Control Methods and	374
	Channel Adjustment Following Culvert Larry P. Maurin and Andrew P. Stubblefield	t Removal from Forest Roads in Northern California, US Id	SA 382
D	ESIGN APPROACHES TO EG Gowanus Canal Sponge Park™ Susannah Drake and Yong Kim	COLOGICAL RESTORATION	392
	Commentary on Gowanus Canal Spong Thomas P. O'Connor	e Park™	401
	Squeezing More Ecological Value from Steven N. Handel	the Sponge Park™	403

ABSTRACTS

Grasslands	405	Ecological Literacy	409
Woodlands	405	Tools & Technology	409
Wetlands	406	Climate Change	409
Lakes, Rivers & Streams	406	Monitoring & Adaptive Management	410
Coastal & Marine Communities	406	Reclamation & Rehabilitation	410
Other Communities	407	Urban Restoration	411
Propagation & Introduction	407	Endangered Species	411
Invasive & Pest Species	408	Economics & Ecosystem Services	411
Wildlife Habitat Restoration	408	Planning & Policy	412
Ecological Design	409		
BOOK REVIEWS Conducting Prescribed Fires: A Comprehensive Guide John R. Weir, reviewed by Dwight Barry			412
Restoration and History: The Search for a Usable Environmental Past Marcus Hall, reviewed by David Havlick			413
Repairing Paradise: The Restoration of Nature in America's National Parks William R. Lowry, reviewed by Alistair Bath			415
RECENTLY RECEIVED TITLES			417
MEETINGS			418



ADVISORY BOARD

James Aronson

Centre for Functional & Evolutionary Ecology, France, and Missouri Botanical Garden USA

Peter Bowler

Department of Ecology & **Evolutionary Biology** University of California, Irvine

Tom Chase

The Nature Conservancy Martha's Vineyard MA

Francisco Comín

Instituto Pirenaico de Ecología-CSIC Zaragoza, Spain

Paul H. Gobster USDA Forest Service

Chicago IL

Andrew Light

Director, Center for Global Ethics Department of Philosophy George Mason University

Marty Melchior

Inter-Fluve, Inc.

Madison WI

Darrel Morrison

Master of Science in Landscape Design Columbia University

Steve Packard

National Audubon of Chicago Chicago Wilderness Program Northbrook IL

Leslie Sauer

Private consultant Hunterdon County NJ

Steve Whisenant

Society for Ecological Restoration, Washington, DC Texas A&M University, College Station, TX

Ecological Restoration (ISSN 1522-4740, E-ISSN 1543-4079) is published quarterly by the University of Wisconsin Press, 1930 Monroe Street, 3rd Floor, Madison, WI 53711-2059. Periodicals postage paid at Madison WI and at additional mailing offices.

Subscriptions: Individual (please pre-pay), \$65 print and electronic, \$55 electronic only; \$42 students; \$150 businesses and nongovernmental organizations; libraries and government agencies, \$245 print and electronic, \$216 electronic only. Non-Û.S. subscribers please add \$35 for foreign shipping. All correspondence regarding subscriptions, advertising, and related matters should be sent to Journals Division, 1930 Monroe Street, 3rd Floor, Madison, WI 53711-2059, USA; www.wisc.edu/wisconsin press/ journals. Members of the Society for Ecological Restoration International receive Ecological Restoration at a discounted rate. Please visit our Web site at www.wisc.edu/ wisconsinpress/journals for more information. POSTMASTER: Send address changes to Ecological Restoration, 1930 Monroe Street, 3rd Floor, Madison, WI 53711-2059.

Editor: Steven N. Handel Managing Editor: Brooke Maslo

Rutgers, The State University of New Jersey,

School of Environmental and Biological Sciences: Robert M. Goodman, Executive Dean Chair, Society for Ecological Restoration International: Steve Whisenant, Chair

Ecological Restoration is published quarterly by the University of Wisconsin Press. © by the Board of Regents of the University of Wisconsin System. No part of this publication may be reproduced without the written consent of the publisher, University of Wisconsin Press. Requests for permission to reprint an article or illustration should be made directly to UW Press, 1930 Monroe St, 3rd Floor, Madison, WI 53711-2059, permissions@uwpress.wisc.edu. http://er.uwpress.org

(Printed on 30% recycled text paper.

Contributions are welcome. Authors should upload their materials through *Ecological* Restoration's submission website, which can be found at http://er.uwpress.org. Submission guidelines can also be found at this web address.

Authorization to reproduce material from this journal, beyond one copy for personal use or that permitted by Sections 107 and 108 of U.S. Copyright Law, is granted for a fee. For fee schedule and payment information, contact www.copyright.com; The Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923, 978/750-8400, Fax: 978/750-4470.

Ecological Restoration is indexed in Elsevier BIOBASE, AGRICOLA and in CSA's Ecology databases.

Ecological Restoration is affiliated with the Society for Ecological Restoration International, 285 W. 18th St. #1, Tucson, AZ 85701, 520/622-5485, http://ser.org. Members of the Society for Ecological Restoration International receive Ecological Restoration at a discounted rate. Please visit the UW Press Web site at www.wisc.edu/ wisconsinpress/journals for more information.

Ecological Restoration was founded at the University of Wisconsin-Madison Arboretum.

Advertising: Call 608/263-0534 for current rates. Advertisements or references to products by brandname or trademark do not imply an endorsement by the editors or publishers of this journal.

Front Cover: Prescribed fires as a management tool have historically been controversial. Opponents purport mechanical methods as being equally effective, but formal tests comparing methods are rarely conducted. Weekley and colleagues did undertake such a test. Please turn to page 357 to read more. Photo by David Horton.

Back Cover: In our new series on ecological design, we present Sponge Park[™], a concept being implemented by dlandstudio, LLC to reduce stormwater runoff volume, filter contaminated water, and create habitat along the edges of the highly-industrialized Gowanus Canal, Brooklyn, New York. Turn to page 392 to read about their approach. Image created by dlandstudio, LLC.

INSTRUCTIONS FOR CONTRIBUTORS

Submissions

We welcome submissions to Ecological Restoration from any part of the world. Submissions should relate to the restoration of plants, animals, ecological communities, or landscapes. We understand ecological restoration to be a multidisciplinary and diverse effort and welcome manuscripts considering ecological, and social aspects of restoration, as well as political, economic, legal, and regulatory issues, and other subjects related to ecological restoration. Relevant topics also include techniques and tools for planning, site preparation, species introduction, undesired species control, and monitoring. Manuscripts dealing with plant or animal community composition or general ecology must relate the work explicitly to ecological restoration practice and theory. Similarly, material dealing with reclamation or rehabilitation in a broader sense, or with restoration for economic purposes-economic forestry, range management, waste disposal-must be connected to ecological restoration.

Material may be submitted for the following categories (listed as they are encountered in the journal):

- Letters to the Editor
- Observations/Editorials/Commentary/Policy Reports
- Restoration Notes (shorter items describing project updates, new collaborations, events, innovative technologies, preliminary or unusual findings, thought-provoking concepts, imaginative solutions, etc.)
- Full-length feature articles on ecological restoration theory, practice, and research (case studies, research reports, photo essays, experiments, etc.)
- Book, journal, web, or movie reviews

Authors of full-length articles or reviews should submit their material online at http://er.msubmit.net. Manuscripts must be submitted with a cover letter stating that the material has not been previously published, and has not been submitted elsewhere and will not be until a final decision has been reached by the editor. Questions about the online submission site, or general inquiries may be emailed to ERjournal@aesop.rutgers.edu.

Review and Editing Process

Manuscripts are reviewed externally by experts in the field. The process requires approximately four to six months. Restoration Notes are reviewed and edited in-house unless additional expertise is required to evaluate the submission.

Style

Practitioners of ecological restoration are both a core audience and source of contributions to *ER*. Contributors should use a straightforward style free of unnecessary technical terms and jargon. We prefer the active voice (for example, "We measured three trees" instead of "Three trees were measured"). Please see our Submission Guidelines at http://er.uwpress.org for more information.

Tables, Photos, and Illustrations

Table and Figure captions should include useful and detailed information, and should be independent of the text. Figures will be reproduced in black and white in the print version of *Ecological Restoration* (usually requiring higher contrast) and can be reproduced in color in the online version. We use color photos on the front and back covers of the journal and welcome submissions of eyecatching, informative, high-quality photographs.

Page Charges

Payment of \$50 per page is requested from authors with research grant or other institutional funds available to underwrite publication costs. Invoices will be sent after composition of pages. Authors with no grant or institutional funds do not need to pay publication costs. Ability to pay page charges is not a condition for acceptance of a manuscript.