

Ecological Restoration

Volume 34 ▪ Number 4 | December 2016

Winner of the
2015 ASLA National Honor
Award for Communications

Restoration practices associated with reforestation success in Haiti



Of interest to *Ecological Restoration* readers:

Producing native plant materials for restoration: 10 rules to collect and maintain genetic diversity

Adrienne C Basey, Jeremie B Fant, and Andrea T Kramer

ABSTRACT

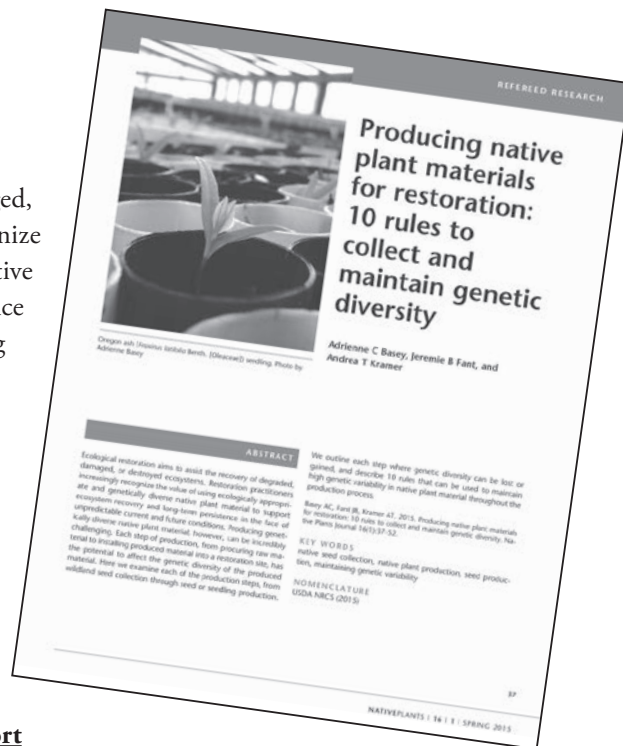
Ecological restoration aims to assist the recovery of degraded, damaged, or destroyed ecosystems. Restoration practitioners increasingly recognize the value of using ecologically appropriate and genetically diverse native plant material to support ecosystem recovery and long-term persistence in the face of unpredictable current and future conditions. Producing genetically diverse native plant material, however, can be incredibly challenging. Each step of production, from procuring raw material to installing produced material into a restoration site, has the potential to affect the genetic diversity of the produced material. Here we examine each of the production steps, from wildland seed collection through seed or seedling production. We outline each step where genetic diversity can be lost or gained, and describe 10 rules that can be used to maintain high genetic variability in native plant material throughout the production process.

Access full article at: <http://npj.uwpress.org/content/16/1/37.short>

Native Plants Journal is a forum for dispersing practical information about planting and growing North American native plants for conservation, restoration, reforestation, landscaping, highway corridors, and related uses. Topics include seed germination, planting techniques and tools, equipment, cultural techniques, production trends, seed collection, genetics, and fertilization. The second issue of each year includes the Native Plants Materials Directory, which provides information about producers of native plant materials in the U.S. and Canada. Relevant books are reviewed. Subscribers receive online access to all back issues. **Volumes one through five are open access and available to all.**

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EDITORIAL

Push Back: Ecological Disservices and the Fear of Restoration

Steven N. Handel

RESTORATION NOTES

A Novel, Non-removal Method for Closing Drainage Tile for Ecological Restorations

Raymond G. Finocchiaro, Dave A. Azure and Michael A. Vargo

ARTICLES

Seedbank-Vegetation Relationships in Restored and Degraded Annual California Grasslands: Implications for Restoration

Andrew P. Rayburn, Craig Schriefer, Aubrienne Zamora and Emilio A. Laca

Social and Biophysical Context Influences County-level Support for Collaborative Watershed Restoration: Case Study of the Sacramento River, CA, USA

Suzanne Langridge

Killing it Softly: Girdling as an Efficient Eco-friendly Method to Locally Remove Invasive *Acer negundo*

Nastasia R. Merceron, Laurent J. Lamarque, Sylvain Delzon and Annabel J. Porté

Landscape Factors and Restoration Practices Associated with Initial Reforestation Success in Haiti

Starry D. Sprenkle-Hyppolite, Andrew M. Latimer, Truman P. Young and Kevin J. Rice

Erosion and Restoration of Two Headwater Wetlands Following a Severe Wildfire

Jonathan W. Long and Jarvis Davis



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Front Cover Feature: Mountainous landscapes represent an important target for forest restoration. In this issue, Sprenkle-Hyppolite and colleagues present results from large scale reforestation effort across 17 communities in Haiti. Reforestation success was highest with increased water availability, the presence of remnant trees, increased diversity of planted species, and micro-catchments. In this picture, a farmer weeds his sweet potatoes planted on a steep slope south of Port-au-Prince, Haiti. Photo credit: Starry Sprenkle-Hyppolite.

Back Cover Features:

Top: Merceron and colleagues present an ecofriendly way to remove locally invasive *Acer negundo* (boxelder maple). Photo credit: Annabel J. Porté.

Middle: Restoration of degraded grasslands, such as this site in Yolo County, is on the rise in California's Central Valley. Photo Credit: Andrew Rayburn.

Bottom: Conventional trench excavation methods (shown here) to remove drainage tile pipes for restoring hydrological functions in wetland catchments results in substantial soil disturbance. Here, Finocchiaro and colleagues introduce a novel method to close drainage piles using expandable foam. Photo Credit: U.S. Fish and Wildlife Service.

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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):

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

Authors of full-length articles or reviews should submit their material online at 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 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 eye-catching, informative, high-quality photographs.

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