

An eclectic forum for dispersing practical information about planting and growing native plants.

EDITOR

MANAGING EDITOR
Candace Akins

R Kasten Dumroese

ASSOCIATE EDITORS
Diane Haase, Rick Hammer, James P Muir, Deborah L
Rogers, Nancy L Shaw, Daniela J Shebitz, Steven E Smith,
Sandra B Wilson

All papers undergo peer review.

Refereed research papers meet high scientific standards. General technical reports provide pragmatic information.

Authors are responsible for content and accuracy of their articles. All views and conclusions are those of the authors of the articles and not necessarily those of the editorial staff or the University of Wisconsin Press. Trade names are used for the information and convenience of the reader, and do not imply endorsement or preferential treatment by the University of Wisconsin or any other public agency. The University of Wisconsin is an equal opportunity and affirmative action employer and educational institution. Native Plants Journal publishes research involving pesticides, but such pesticides are not recommended. All uses of pesticides must be registered by appropriate state and/or federal agencies before they can be recommended. Pesticides can injure humans, domestic animals, desirable plants, and fish or other wildlife if improperly handled or applied. Read the pesticide label before purchasing, and use pesticides selectively and carefully. Follow label directions for disposal of surplus pesticides and pesticide containers.

CORRESPONDENCE

Manuscripts must be submitted via the Internet. See the first issue of each volume for complete author instructions or visit http://npj.msubmit.net. Address all subscription, business, back issue, bulk order, and advertising inquiries to:

University of Wisconsin Press Journals Division 1930 Monroe Street, 3rd Fl Madison, WI 53711-2059 USA 608.263.0668 uwpress.org

SUBSCRIPTIONS

Subscription rates are:

Institutions
US\$ 145 print and electronic
US\$ 95 electronic only
Individuals
US\$ 55 print and electronic
US\$ 45 electronic only

PERMISSION TO REPRINT

Foreign postage is \$27.

No part of this publication may be reproduced, stored in a retrieval system, transmitted, or distributed, in any form, by any means electronic, mechanical, photographic, or otherwise, without the prior permission of the University of Wisconsin Press. For educational reprinting, please contact the Copyright Clearance Center (1.508.744.3350). For all other permissions, please contact permissions@uwpress.wisc.edu

PUBLISHING

Native Plants Journal is published 3 times each year (Apr, Aug, Dec) by the University of Wisconsin Press ISSN 1522-8339 E-ISSN 1548-4785

Copyright © 2011 the Board of Regents of the University of Wisconsin System

Another growing season has passed. I have two main reasons for loving nursery work. First, I get to work with an extraordinary group of individuals; those relationships often transcend the work environment and some of my dearest friends are the same people with whom I share my love of nursery work. One of those good friends, John Harrington, a professor at New Mexico State University, was tragically killed this summer riding his bike home from his nursery. John and I worked together, on and off, for more years than either of us care to confess. He reviewed manuscripts for this journal and had agreed to come on as my "forestry" associate editor shortly before his passing. It makes me sad for so many reasons, and makes me appreciate more everyone else I'm still working with, especially my managing editor, Candace Akins. Without her, NPJ just wouldn't happen. I also thank my associate editors, Diane Haase, Rick Hammer, James Muir, Deborah Rogers, Nancy Shaw, Daniela Shebitz, Steven E Smith, and Sandra Wilson. And, my thanks to all the reviewers who never really get the recognition they deserve: Chris Adams, James R Ault, Jim Borland, John Brissette, Robert Brzuszek, Michelle Cram, Bert Cregg, Danny Gustafson, Marshall Haferkamp, Stuart P Hardegree, John Harrington, Dave Haywood, Robert L James, Robert P Karrfalt, Mary H Meyer, Hector Perez, William D Pitman, Joe Scianna, Forrest S Smith, Ryan Stewart, Vic Vankus, Jeffrey Walck, Katherine Wilkin, Kim M Wilkinson, and Truman P Young. I must also say good-bye to Pamela Wilson at the University of Wisconsin Press; thank you for what you've done for NPJ.

The second reason I love nursery work is that this time each year, I get rid of my mistakes. Once the frost comes and the crop is done, whether it was good or bad, it no longer really matters because that crop is out the door. Next spring I can start fresh, let go of my past failures, look with hopeful anticipation toward growing that perfect crop, but knowing full well that some plants will probably still humble me in yet another new way. I'll see you again in Spring 2012 with another issue of *Native Plants Journal*. Please tell your friends about us.

R Kasten Dumroese



On the cover: Feathered icicles on a Woods' rose (*Rosa woodsii* Lindl. [Rosaceae]) shrub. Photo by Niklaas K Dumroese

Have a great idea for an article but don't have time or need help writing? Please e-mail. We can help.

Two types of manuscripts are welcome:

General technical articles are not research per se (lack strict experimental design and statistical analysis), but have important information for growers and planters of North American native plants. Articles could include new planting techniques, useful equipment, cultural techniques, habitat restoration, restoration techniques, production trends, technical information, descriptions of new species or cultivars entering nursery production, and so on. Propagation protocols are short, concise general articles detailing the specific methods used to propagate a particular plant. Germplasm releases are short articles that follow a standard format (see past issues) and announce the release of new plant materials for conservation use.

Refereed research articles (and scientific reviews or commentary) must have sound application of scientific method, appropriate statistical analysis, and state how the research is important to growers and planters of North American native plants. Accepted papers will be published with a "Refereed Research Article" designation.

All submitted manuscripts will be peer-reviewed by 2 referees to ensure the objective of *Native Plants Journal* is met.

MANUSCRIPT PREPARATION

Include a cover letter indicating what type of manuscript is being submitted (refereed or general). Refrain from special formatting. Use of active voice is encouraged. All text except tables and figure captions should be double-spaced. The first page should have title and author information (include full names of authors, their professional titles and affiliations, mailing and electronic addresses, and specify corresponding author to whom all pre-publishing correspondence should be sent).

The second page should contain the title, abstract, and key words. Abstracts should be double-spaced and brief and emphasize results, usefulness, and practicality to growers and planters of North American (Canada, Mexico, and US) native plants. Authors are strongly encouraged to make the first sentence of their abstract describe the most important finding of their work. Include 3 to 7 key words not in the title. Use the PLANTS database as the source for nomenclature (see below). Print an abbreviated title and page number in the upper right corner of this and all subsequent pages. Use line numbering. Construct tables using the table feature of word processing programs.

Follow the second page with the "Introduction, Materials and Methods, Results, Discussion, Conclusion, References," or some other logical system as headings, followed by figure captions

and tables. For matters of style, we generally follow Scientific Style and Format, The Council of Biology Editors Manual for Authors, Editors, and Publishers, 6th edition (ISBN 0-521-47154-0).

Use metric (SI) units with US units in parentheses and abbreviate all units, except those without numerical value (for example, "we measured parts per million and found 250 ppm nitrogen"). Use numerals for any countable amount (for example, 3 replicates, 2 populations).

REFERENCES

In the text, please list citations by date, and then alphabetically by author (for example, Smith 1986, 1997; Jones and Smith 1992; Smith and Jones 1992; Doe and others 1998). In the references section, list references alphabetically by author(s) and please do not abbreviate the name of the referenced journal. Examples:

Journal article: Arnold MA, Struve DK. 1989. Growing green ash and red oak in CuCO₃-treated containers increases root regeneration and shoot growth following transplant. Journal of the American Society for Horticultural Science 114:402–406.

Entire book: Davidson H, Mecklenburg R. 1981. Nursery management: administration and culture. 2nd ed. Englewood Cliffs (NJ): Prentice-Hall Inc. 450 p.

Article in proceedings: Dumroese RK, Wenny DL. 1997. Fertilizer regimes for container-grown conifers of the Intermountain West. In: Haase DL, Rose R, coordinators and editors. Symposium proceedings, forest seedling nutrition from the nursery to the field; 1997 Oct 28–29; Corvallis, OR. Corvallis (OR): Oregon State University Nursery Technology Cooperative. p 17–26.

Internet source: [USDA NRCS] USDA Natural Resources Conservation Service. 2011. The PLANTS database. URL: http://plants.usda.gov (accessed 20 Jan 2011). Greensboro (NC): National Plant Data Team.

Government article: Barnett JP, Brissette JC. 1986. Producing southern pine seedlings in containers. New Orleans (LA): USDA Forest Service, Southern Forest Experiment Station. General Technical Report SO-59. 71 p.

Thesis or dissertation: Wang Z. 1990. Effects of cupric carbonate on container-grown seedlings of ponderosa pine during greenhouse production [MSc thesis]. Moscow (ID): University of Idaho. 67 p.

Personal communication: Hoss GA. 2002. Personal communication. Licking (MO): Missouri Department of Conservation, George O White State Forest Nursery. Nursery Superintendent.

NOMENCLATURE

Use common names with scientific names (including authorities and family names) in parentheses the first time used in the abstract and body of the manuscript (if scientific names with authorities and families are summarized in a table, they need not be repeated in the body of the manuscript). All subsequent use can be either the common or scientific name. Example with common name: whitebark pine (Pinus albicaulis Engelm. [Pinaceae]). Example without common name: Phacelia rattanii Gray. (Hydrophyllaceae). The standard source of plant nomenclature is the PLANTS database (http://plants.usda.gov). Authors may use common names found in PLANTS or the local vernacular. Other nomenclature sources may be used only if justified. The nomenclature source should be included in the refer-

MANUSCRIPT SUBMISSION

Manuscripts should be submitted via the Internet at http://npj.msubmit.net. Files will be converted to PDF when uploaded. Text and tables should be saved as one file. Graphics (graphs, drawings) should be in black and white and saved as individual jpg, tif, eps (preferred), SigmaPlot (preferred), or Adobe Photoshop files. Excel files embedded in manuscripts are acceptable for manuscript review but unacceptable for publication. Color slides or photographs are fine and can be sent directly to the Editor; digital images must have a minimum resolution of 300 dpi at a minimum width of 10 cm (4 in), although larger-sized images are preferred. Include photo credits.

Contact the Editor:

Kas Dumroese Editor, *Native Plants Journal* USDA Forest Service, RMRS 1221 South Main Street Moscow, Idaho 83843–4211 telephone 208.883.2324 kdumroese@fs.fed.us

Before accepted manuscripts can be published, authors must complete a consent to publish form

Photo credits opposite page: (top) Volunteers sowing perennial bunch grasses at the Martin Griffin Preserve at Audubon Canyon Ranch by May Chen; (middle) computer screen image from the Cover Monitoring Assistant (CMA) program; (bottom) bigleaf lupine (Lupinus polyphyllus Lindl. [Fabaceae]), dwarf checkerbloom (Sidalcea malviflora (DC.) A. Gray ex Benth. ssp. virgata (Howell) C.L. Hitchc. [Malvaceae]), and riverbank lupine (Lupinus rivularis Douglas ex Lindl. [Fabaceae]) by Lynda Boyer.







Using native plants to provide natural ecosystem functions in a conservation fish hatchery Ross Coleman, Alison M Hutson, Louie A Toya, and Douglas Tave	216
The Pop Test: a quick aid to estimate seed quality Derek J Tilley, Dan Ogle, and Brent Cornforth	227
REFEREED RESEARCH Soil seedbanks and long-term seed survival in the endangered Florida beach clustervine (Jacquemontia reclinata House [Convolvulaceae]) John B Pascarella, Joyce Maschinski, and Samuel J Wright	233
REFEREED RESEARCH Effects of seed source and pre-planting treatment on emergence of Juniperus scopulorum Sarg. in a Great Plains nursery Pamela K Tauer, Rodney E Will, and J David Porterfield	241
GERMPLASM RELEASE Notice of release of Majestic Germplasm and Spectrum Germplasm western prairie clover: selected class of natural germplasm Douglas A Johnson, B Shaun Bushman, Kishor Bhattarai, and Kevin J Connors	249
GERMPLASM RELEASE Notice of release of Prairie Harvest Germplasm common hackberry: selected class of natural germplasm Dwight A Tober, Wayne L Duckwitz, and Nancy K Jensen	257
REFEREED RESEARCH Effect of fungicide on Wyoming big sagebrush seed germination Robert D Cox, Lance H Kosberg, Nancy L Shaw, and Stuart P Hardegree	263
PAPERS PRESENTED AT THE FIFTH NATIVE PLANT CONFERENCE	
Monitoring roadside revegetation projects David Steinfeld, John Kern, Gregory Gallant, and Scott Riley	269
Unknown and unprotected: the imperiled genetic resource of native plant populations on roadsides and private lands Lynda Boyer	276
Connecting growers and sharing knowledge: building a nursery network in California's central coast region	285

REFEREED RESEARCH

W Douglas Serrill

Conservation and reintroduction of the endangered Willamette daisy:	
effects of population size on seed viability and the influence of	
local adaptation	
Andrea S Thorpe and Thomas N Kaye	

215

289