

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

**EDITOR**  
R Kasten Dumroese

**MANAGING EDITOR**  
Candace J Akins

**ASSOCIATE EDITORS**

Diane Haase, James P Muir, Rosemary L Pendleton, 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.wisc.edu/journals

**SUBSCRIPTIONS**

Subscription rates are:

Institutions  
US\$ 160 print and electronic  
US\$ 105 electronic only

Individuals  
US\$ 60 print and electronic  
US\$ 50 electronic only

Foreign postage is \$27.

**PERMISSION TO REPRINT**

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](mailto: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 © 2013 the Board of Regents of the University of Wisconsin System

**It has been, weather-wise, a spectacular month of October in northern Idaho.** Warm, sunny days and cool evenings brought out some of the best fall foliage colors I can remember in my 30 years living in the state. But, those vivid colors are a reminder that this year is quickly coming to a close, and soon the gray days of winter will be here. With that, we close out Volume 14 of the *Native Plants Journal*. It is hard for me to believe the journal has been going that long . . . let me just say that I have gone through a lot of red ink! Keeping the journal relevant, on time, and of high quality takes a team. I would be remiss if I did not thank my associate editors, Diane Haase, Rosemary Pendleton, Deborah Rogers, Nancy Shaw, Daniela Shebitz, Steven Smith, and Sandra Wilson for their efforts. A special thank you to Jason Gray and his capable staff at the University of Wisconsin Press for their diligence and professionalism, and to Candace Akins, my trusted and dependable managing editor, without whom I would be lost. A hearty thank you to the reviewers who graciously gave of their time and expertise to review manuscripts: Julie Beaudin, Jay F Bolin, John Brissette, Michelle Cram, Roseann Densmore, Rebecca Dolan, Bob Edgin, Kern Ewing, Matthew W Fidelibus, Jason Goldman, Robert Grese, Danny Gustafson, Sarah Hamman, Gary Hawley, Bill Hoch, April Hulet, Randy Johnson, Thomas A Jones, Olga A Kildisheva, Jennifer Kujawski, Genhua Niu, Jeff Ott, RN Reese, Rich Regan, Bryce Richardson, Joseph G Robins, Larry A Rupp, Joshua Sloan, Forrest S Smith, and Robert Tripepi. And, finally, thank you for *your* support of *Native Plants Journal*.

**R Kasten Dumroese**



**On the cover:** Seeds of American plum (*Prunus americana* Marshall [Rosaceae]). Photo by R Kasten 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 CuCO<sub>3</sub>-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 references.

#### 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  
[k dumroese@fs.fed.us](mailto:k dumroese@fs.fed.us)

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

#### Photo credits opposite page: (top)

Southeastern wildrye (*Elymus glabriflorus* (Vasey ex L.H. Dewey) Scribn. & C.R. Ball [Poaceae]) by Jason Brett Rushing; (middle) *Speyeria idalia* Drury (Nymphalidae, Argynninae) courtesy of Pennsylvania Army National Guard; (bottom) a tracked skid steer equipped with a sickle bar attachment by Olga A Kildisheva.

**REFEREED RESEARCH**

- Evaluation of wildrye (*Elymus* spp.) as a potential forage and conservation planting for northeast Mississippi 192  
**Jason Brett Rushing and Brian Scott Baldwin**

**REFEREED RESEARCH**

- Seed germination of *Viola pedata*, a key larval host of a rare butterfly 205  
**Janet L Gehring, Tara Cusac, Cynthia Shaw, and Ashley Timian**

**REFEREED RESEARCH**

- Use of low nitrogen fertilizer as a strategy for maintaining mycorrhizal colonization on whitebark pine seedlings inoculated with native fungi in the greenhouse 213  
**Erin R Lonergan and Cathy L Cripps**

**REFEREED RESEARCH**

- Insights into big sagebrush seedling storage practices 225  
**Emily C Overton, Jeremiah R Pinto, and Anthony S Davis**

**REFEREED RESEARCH**

- Maternal effects on growth and competitive ability in a commonly used restoration species 231  
**Erin K Espeland and Darcy Hammond**

**REFEREED RESEARCH**

- A hard seed to crack: evaluating dormancy-breaking techniques for mamane 243  
**Olga A Kildisheva, Bassam A Hamzeh, and Anthony S Davis**

**REFEREED RESEARCH**

- Community response to false hellebore management: implications for harvest 249  
**Craig D Johnson, Val J Anderson, and Rachel A Fugal**



- A modified sickle bar mower: increased flexibility for harvesting native plant seeds 257  
**Mike Rudecki and Olga A Kildisheva**

**BOOK REVIEWS**

- Forests for the People: The Story of America's Eastern National Forests* 263  
*Intermountain Flora: Vascular Plants of the Intermountain West, U.S.A. Volume 2, Part A. Subclasses Magnoliidae–Caryophyllidae* 265  
*Flora of North Dakota: Checklist* 267