

NORTHWEST SCIENCE

Information for Authors

Purpose and Scope

The Northwest Scientific Association represents the natural and social sciences in the Pacific Northwest. The pages of *Northwest Science* are open to original and fundamental research in the basic and applied natural and social sciences. All submissions are refereed, usually by two reviewers and an Associate Editor. Papers are welcome from authors outside of the Pacific Northwest.

Web Site Information

Authors should visit the Northwest Scientific Association web site to obtain the most recent version of Information for Authors. The web site address is: www.vetmed.wsu.edu/org_NWS/NWSci_Home.htm

Articles

Articles present the results of new and original research, and generally are 6–20 journal pages long. Authors must contact the Editor in advance before submitting longer papers. Authors are encouraged to use line numbering for the original submission, which will help speed up the review process.

Notes

The purpose of Notes is to publish papers typically less than five journal pages long. Suggested topics include preliminary results, new methods, significant range extensions, and perhaps taxonomic observations. There is no specific format or content required for Notes, but all will be peer-reviewed and must be scientifically creditable. Authors may contact the Editor about the suitability of manuscripts to be published as Notes.

Northwest Science Forum

This section gives readers an opportunity to address scientific issues in a more participatory

fashion. The Forum will publish short articles, opinion pieces, and letters relevant to science and natural resource issues in the Pacific Northwest. Responses to previously published articles are particularly encouraged to foster an ongoing discussion. Readers are urged to be creative, articulate, and passionate in this section. The Forum may not be peer-reviewed so that publication is expedited. The Editor reserves the right to edit manuscripts for clarity and conventions of standard written English.

Manuscripts

General Instructions

Authors are encouraged to visit the web site of the Northwest Scientific Association for the most recent version of these instructions. Instructions in previously published issues of *Northwest Science*, and articles in those issues, may reflect old information.

Submit four copies of the paper (including tables and figures) to the Editor. Manuscripts should be typewritten in 12 point Times New Roman font, on 8.5" x 11" paper, double-spaced throughout (including Abstract, Acknowledgements, Literature Cited, Tables, and Figure captions). Use the front of the page only. Allow one-inch margins around the page. The format and style of manuscripts should conform to general usage in recent issues, and should consist of sections in the following sequence:

- Title Page
- Abstract
- Text (Introduction through Acknowledgements)
- Literature Cited
- Footnotes
- Tables
- Figure Captions
- Figures

Numerals will be used to indicate footnotes unless such usage would be confused with numerical data. In that situation, lowercase letters will be used. Do not hyphenate words at the ends of lines. Words to be italicized will be typed in italic rather than underlined.

Title Page

The first page of the manuscript should contain:

- Author name(s)
- Institutional address from which manuscript emanated, including city, state or province, postal code
- Title of paper
- Running footer
- Total number of tables and figures
- List the name, full address, telephone number, fax number, and e-mail address of the author to whom correspondence should be sent. Use a footnote to indicate a corresponding author other than the senior author. For example: “¹ Author to whom correspondence should be addressed.”

Abstract

The second page of the manuscript contains the Abstract. Authors are strongly encouraged to give the abstract proper attention. The abstract briefly summarizes the study, so that it is quickly accessible to the general readership of the journal. The abstract must be written in complete sentences and may not exceed 250 words. Because of the diverse disciplines and readership served by the journal, the abstract should include the following three parts: 1) a statement of the purpose of the study, indicating the reasons behind its undertaking; 2) a statement describing the experimental design or approach and a summary of the results; 3) a summarizing sentence or two regarding the larger significance of the research.

Text

Start the text on the third page, and use continuous pagination. Do not start new sections on new pages.

Literature citations within the text should contain the author's name and year of publication, using formats A and B. Multiple citations of authors within the same parentheses will be listed in chronological order.

- Format A:
 - ...studied by Jones (1998)...
 - ...studied by Smith and Brown (1999)...
 - ...studied by Smith et al. (2000)...(if more than two authors in a citation)

- Format B:
 - ...was previously investigated (Smith 1991, Jones 1995, Harris 2000)

...results of other investigations (Smith 1991, 1995; Jones 1993; Brown 1999)

Numbers from one to nine will be spelled out, while Arabic numerals will be used for numbers 10 and larger. Exceptions to this convention are: 1) a series of mixed numbers (e.g., 14 elk, 35 deer, 2 bobcats, and 1 bear); 2) when the number immediately precedes an abbreviation for a standard unit of measure (e.g., 5 g, 0.7 mm, 3 m²). Arabic numerals will also be used for dates, times, page numbers, and percentages.

Authors are requested to use the International System of Units (SI). Use the 24-hour clock (0600 and 2230) and continental dating (17 November 1998). Use leading zeroes with all numbers <1 (e.g., 0.12), including probability values with “*P*” capitalized and italicized (e.g., $P \leq 0.05$). Please note these examples of other conventions followed by *Northwest Science: 20th Century*, 3rd Edition, Douglas-fir, dbh, sec, min, hr, day (or d), wk, mo, yr. Please do not use the construction “and/or” because “or” invariably will suffice.

On first mention in the text, a species should be designated by common name followed by systematic binomial (italicized). If a common name is available, systematic binomials are unnecessary, and are not recommended, in the Title and Abstract. Common names for species should not be capitalized except when derived from a proper name. Thus, “mountain hemlock” or “white-crowned sparrow,” but “Douglas-fir” or “Clark’s nutcracker.” In general, authors should follow conventions for their disciplines (e.g., botany, ornithology). Consult with the Council of Biology Editors *CBE Style Manual*, 4th ed., for general information on manuscript preparation.

Personal Communications

These should be kept to an absolute minimum, because they do not meet the requirements for

first disclosure as defined by the Council of Biology Editors. If used, the full name and affiliation of the person being quoted is required. *Personal communications are cited in the text*, not in Literature Cited. For example:

... (David L. Peterson, University of Washington, personal communication).

Literature Cited

Only the *first letter* of the *first word* of journal articles, technical reports, theses, symposia papers, and technical bulletins are capitalized. First letters of *major words* in book titles are capitalized. All authors and editors of a title will be listed in the bibliographic citation. Use “et al.” only in the body of the text, never in the Literature Cited section.

Citations should be double-spaced and listed in alphabetical order at the end of the article. *Note that the names of all sources are spelled out.* The only exceptions are the commonly used abbreviations USDA, USDI, EPA, and USA. The abbreviations USDA and USDI must be followed by the name of the agency (e.g., USDA Forest Service; USDI Bureau of Land Management).

Double-check literature to ensure that citations in the text and in Literature Cited agree. On one submitted copy, indicate by green check marks on each citation in the text and each citation in Literature Cited that the references have been double-checked.

The general format for citations is:

- Last name, initials of the first name and middle name, then switch to initials followed by the last name for subsequent authors.
- Use a space between initials and names.
- Short bar. Beginning with the Fall 2001 issue, *Northwest Science* will no longer use a short bar for repeated entries by the same author.
- Issue numbers are unnecessary.
- Double-check each citation to ensure that it conforms to the *Northwest Science* format.

Typical examples of *Northwest Science* format conventions for Literature Cited are as follows:

Journal articles

- Broadbooks, H. E. 1970a. Home range and territorial behavior of the yellow pine chipmunk *Eutamias amoenus*. *Journal of Mammalogy* 51:310-326.
- Broadbooks, H. E. 1970b. Populations of the yellow pine chipmunk, *Eutamias amoenus*. *American Midland Naturalist* 83:472-488.
- Cêska, A., and H. Romer. 1971. A computer program for identifying species group. *Vegetatio* 20:48-73.
- Grizze, J. E., C. F. Starmer, and G. G. Kuch. 1969. Analysis of categorical data by linear models. *Biometrics* 25:489-504.

Monographs or books

- Edmunds, R. L., J. K. Agee, and R. I. Gara. 2000. *Forest Health and Protection*. McGraw-Hill, New York. (*number of pages unnecessary*)
- Nussbaum, R. A., E. D. Brodie, Jr., and R. M. Storm. 1983. *Amphibians and Reptiles of the Pacific Northwest*. University of Idaho Press, Moscow, Idaho.
- Franklin, J. F., and C. T. Dyrness. 1988. *Natural Vegetation of Oregon and Washington*. Oregon State University Press, Corvallis, Oregon.

Papers in proceedings or symposia

- Ryland, J. S. 1975. Parameters of the lophophore in relation to population structure in a bryozoan community. Pages 363-393 *In* H. Barnes (editor), *Proceedings of the 9th European Marine Biology Symposium*, Aberdeen University Press, Aberdeen, UK.
- Madany, M. H. and N. E. West. 1980. Fire history of two montane forest areas of Zion National Park. Pages 50-56 *In* M. A. Stokes and J. H. Dieterich (technical coordinators), *Proceedings—Fire History Workshop*. USDA Forest Service General Technical Report RM-81. Rocky Mountain Forests and Range Experiment Station, Fort Collins, Colorado.

Theses, dissertations, and articles in press

- Donald, D. B. 1971. The limnology of the plankton of three temporary ponds in Alberta. M.S. Thesis, University of Calgary, Calgary, Alberta.
- Wiser, H. C. 1961. Decomposition and homogeneity of continua on 2-manifolds. Ph.D. Dissertation, University of Utah, Salt Lake City, Utah.
- Dunwiddie, P. W. *In Press*. Dichotomous key to conifer foliage in the Pacific Northwest. *Northwest Science*. (*if the publication date is unknown or uncertain*)
- Vierling, K. T. 2000. Source and sink habitats of red-winged blackbirds in a rural/suburban landscape. *Ecological Applications* 10: (*in press*). (*if the publication date is known and certain*).

Technical bulletins

- Daubenmire, R., and J. B. Daubenmire. 1968. *Forest vegetation of eastern Washington and northern Idaho*.

Washington Agricultural Experiment Station Technical Bulletin Number 60. Washington State University. Goodwin, J. G., Jr., and C. R. Hungerford. 1979. Rodent population densities in pine forests. USDA Forest Service Research Paper RM-214. Rocky Mountain Forest and Range Experiment Station, Fort Collins, Colorado.

Online (web) references

USDA Forest Service. 1998. Fire effects information system. Prescribed Fire and Fire Effects Research Work Unit, Rocky Mountain Research Station, Missoula, Montana. Available online at www.fs.fed.us/database/feis/

Unpublished Reports

Unpublished reports often contain useful data that contribute to the development of the study being reported. Even though they do not meet the criteria for first disclosure, if they have a date, author, and a location where the report is on file, so that interested readers can obtain a copy of the report, they may be listed in Literature Cited so that the text reads more smoothly. If the date is unknown, treat the report as a personal communication and cite it in the text. If the location is unknown, do not use the report. Do not cite unpublished data (i.e., data not analyzed or contained in a report).

Kraft, G. F. 1967. Annual report on the status of Lake Whatcom. Unpublished report on file at Western Washington University, Bellingham, Washington.

Footnotes

Footnotes to the text are discouraged. In most cases, the potential footnote information can easily be incorporated in the text. If footnotes are unavoidable, they must be numbered consecutively and clearly indicated in the text.

Tables

All tables must be cited in the text, but typed and double-spaced on separate pages. Set up tables using tab stops; do not use auto-formatted tables. Note that the word "Table" is in all caps at the beginning of the TABLE caption, but in lower case in the text. When submitting tables electronically, *they should be presented in the simplest tabular format possible*, and placed after the body of the manuscript. Use letters as superscripts to indicate statistical differences among values being compared (numbers with different letters indicate significant differences at $P \leq 0.05$) Foot-

notes to tables are numbered consecutively with each table treated as a separate entity (i.e., the first footnote on each table should be 1).

Figures

All figures must be cited in the text. To achieve highest quality reproductions, it is preferable for the printer to work directly from photographs or original drawings. Thus, original artwork or 5" x 7" (or larger) black & white glossy prints of photographs must be submitted for reproduction. Mount photos on lettering board to protect them from damage. Artwork and lettering should be large enough (but not overly large) to provide clarity after a 50% reduction in size for printing. *The author's name, figure number, and indication of "top" should be penciled on the back of each illustration.* Illustrations of study areas should include a small inset that locates the study area in the state or province. Provide a scale for distance on map illustrations. Captions for illustrations should be typed as a group and placed on a separate page. The words Figure and Table will be spelled out in the body of the text, and capitalized as follows:

- ...experimental sites as indicated in Figure 2...
- ...correlation between temperature and biomass (Table 3)...

Artwork, photos, and other illustrative material cannot be returned to the author.

Experimental Design and Statistical Analyses

In the Methods section, clearly describe the experimental design and identify all components (e.g., treatments, blocks, independent and dependent variables, subsamples) so that reviewers and readers understand all procedures. At the end of this section in the Methods state that the level of significance was set at $P = 0.05$ before the research began, so that readers know decisions about significance were based on that value. Do not set significance levels >0.05 for the research. Authors may show other probabilities (e.g., $P < 0.01$, $P < 0.001$) when results are reported for further information, but the decisions must be made on $P = 0.05$. Do not report P values smaller than $P < 0.05$. Do not report P values for differences that were not significant.

Editing

The Editor reserves the right to edit manuscripts for clarity and conventions of standard written English.

Submission of Final Copy

Manuscripts accepted for publication must be submitted in electronic copy and hard copy. Authors will receive instructions from the Editor regarding this procedure.

Publication Agreement

Each author or group of authors must sign a Publication Agreement provided by the Editor before their submission will be published in the journal.

Page Proofs and Reprints

One set of page proofs will be sent to the corresponding author for correction shortly before publication. **Proofs must be returned to the Editor within three days of receipt—preferably by express mail.** Authors must inform the Editor of any change of address for handling proofs. Reprints must be ordered when the proofs are returned. A schedule of reprint prices will be sent

to the author with the proofs. Allow 8 weeks for delivery after the journal issue carrying the article appears.

Page Charges

Page charges are currently \$65 per printed page for members of the Northwest Scientific Association, and \$80 for non-members. Authors wishing to become members may contact the Treasurer.

You must submit some form of payment with the order form and the proofs. It is not sufficient to request an invoice from the Association. Institutional checks, personal checks, money orders, and credit card orders are acceptable and should accompany the page proofs. **If an institutional purchase order is being used for payment, then the purchase order must accompany the page proofs.**

Correspondence

All correspondence regarding manuscripts will be between the corresponding author and Editor.

Reviewers

The Editor and Associate Editors reserve the right to select reviewers of their choice.